UNIVERSITY OF PORTO

GRANTED [IN] FORMALITY
in INTROVERTED ARCHIPELAGOS

Everyday Urbanism in the Global South

ANNEXES

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PROGRAMA DE DOUTORAMENTO EM ARQUITECTURA
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ANNEXES 1

TEMPLATES

1. Public Life Questionnaire
2. Built and Social Environment Analytical Tools
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1. Public Life Questionnaire

THANK YOU FOR PARTICIPATING IN OUR SURVEY ABOUT COMMUNITY LIFE IN THIS AREA. YOUR RESPONSES WILL BE KEPT STRICTLY CONFIDENTIAL.

DEMOGRAPHIC DATA

1. Age	0 - 14	☐	
	15 - 24	☐	
	25 - 49	☐	
	50 - 64	☐	
	65 - Above	☐	
2. Gender	Male	☐	
	Female	☐	
3. Residential address by Municipality	Capital	☐	
	Muharraq	☐	
	Northern	☐	
	Southern	☐	
4. Block Number (Neighbourhood)			Write here
5. Nationality	Bahraini	☐	
	Other Arab Countries	☐	
	Indian	☐	
	Pakistani	☐	
	Philippine	☐	
	Sri Lankan	☐	
	Indonesian	☐	
	Bangladeshi	☐	
	American	☐	
	European	☐	
	Australian	☐	
	Other	☐	Write here
6. Number of years living in Bahrain	Less than 5	☐	
	5 - 10	☐	
	More than 10	☐	
7. Education	Illiterate	☐	
	Primary	☐	
	Intermediate	☐	
	Secondary	☐	
	Higher Education	☐	
8. Job Occupation	Student	☐	
	Employed public sector	Employed private sector	
	☐	☐	
	Unemployed	☐	
9. Activity Field			Write here
10. How many people live with you (household)?			Write here
11. Do you have kids, elderly or disable people living with you?	Kids	Elderly	Disable
	☐	☐	☐
12. Household Income monthly	0 - 200BD	☐	
	200 - 500BD	☐	
	500 - 1000BD	☐	
	1000 - 2000BD	☐	
	2000 - 3000BD	☐	
	3000BD or more	☐	

QUESTIONNAIRE

1. Do you know what an outdoor public space is? A public space is the space between buildings that is not privately owned. Roads, sidewalks, parks, beaches, corniches, souqs, walkways, plazas etc.	☐ YES	☐ NO	
2. Do you think outdoor public spaces are important for people lives?	☐ YES	☐ NO	
3. Can you name some Bahraini outdoor public spaces?	Souq	☐	Write here
	Park	☐	Write here
	Beach	☐	Write here
	Corniche (Seafront pedestrian path)	☐	Write here
	Road including sidewalks	☐	Write here
	Walkway	☐	Write here
	Square or Plaza	☐	Write here
	Other	☐	Write here
4. Can we find any outdoor plaza or square in Bahrain?	☐ YES	☐ NO	
5. Do you usually walk in the outdoor public space daily for any type of activity for more than 10 minutes?	☐ YES	☐ NO	
If YES, which one is the main reason?	Go to work	☐	
	Go shopping	☐	
	For Leisure	☐	
	For Sports	☐	
	Walk the dog	☐	
	Socialising	☐	
	Bike Riding	☐	
	Playground	☐	
	Meet neighbours	☐	
	Other	☐	Please specify
If NO, which one is the main reason?	Car dependency	☐	
	Whether conditions	☐	
	No shaded areas to walk	☐	
	Uncomfortable pavements	☐	
	Absence of pedestrian walkways	☐	
	No public spaces around	☐	
	Lack of time, because of work	☐	
	Other	☐	Please Specify
6. How often do you visit outdoor public spaces?	Daily	☐	
	Weekly	☐	
	Monthly	☐	
	Rarely - once per year or less	☐	
7. In which season of the year do you use the most outdoor public spaces?	Spring	☐	
	Summer	☐	
	Autumn	☐	
	Winter	☐	
8. Which time of the day do you use the most outdoor public spaces?	Morning	☐	
	Afternoon	☐	
	Evening (starts with the sunset)	☐	
	Night	☐	

9. For how long do you use the public space?	Less than 30m	☐	
	Between 30m and 1 hour	☐	
	Between 1h and 2 hours	☐	
	Between 2h and 4 hours	☐	
	More than 4 hours	☐	
10. Where are located the outdoor public spaces that you usually go to?	My Neighbourhood	☐	Please Specify
	Nearby Neighbourhood	☐	Please Specify
	Manama	☐	
	Muharraq	☐	
	Riffa	☐	
	Isa Town	☐	
	Other	☐	Please Specify
	YES	NO	
11. If you need to go to a outdoor public space do you need to drive to	☐	☐	It means that you can walk to it.
If YES, which distance?	Less than 5km	☐	
	10km	☐	
	15km	☐	
	20km or more	☐	
12. With whom do you usually go to outdoor public spaces?	Alone	☐	
	With Kids	☐	
	With Friends	☐	
	With Family	☐	
	With a sports or social group	☐	
	With colleagues	☐	
	Other	☐	Please Specify
13. Are you satisfied with the outdoor public spaces in your local neighbourhood?	Very satisfied	☐	
	Satisfied	☐	
	Neutral	☐	
	Unsatisfied	☐	
	Very Unsatisfied	☐	
	YES	NO	
14. Do you think Bahrain has enough outdoor public spaces?	☐	☐	
15. How do you think the existing outdoor public spaces could be improved?	Please Specify		
16. Which do you think is the most important public space in Bahrain?	Please Specify		
	YES	NO	
17. Do you use public transportation in Bahrain?	☐	☐	
	YES	NO	
18. Would you be willing to use the Bahraini future light rail system?	☐	☐	
19. What would you choose - private car, public transport, walking or cycle - if all of then would offer perfect conditions?			
	Private car	☐	
	Public transport	☐	
	Walking	☐	
	Cycling	☐	
	YES	NO	
20. Do you think Bahrain has enough sidewalks? (pedestrian walkways)	☐	☐	
	YES	NO	
21. Do you feel safe crossing the street?	☐	☐	
If NO, why?	No sidewalk	☐	
	No zebra crossings	☐	
	No traffic light for pedestrians	☐	
	Excessive car speed	☐	
	No physical barrier between cars and pedestrians	☐	
	Other	☐	Please Specify

22. What would encourage you to use the outdoor public space?

Please choose from 1 to 7 which is the most important, where 1 is the most important and 7 the least.

GOOD PATHS Continuous sidewalks with proper traffic lights, signs, zebra crossing and car separation.	1	
SHOPPING Commercial areas and mix use areas available and places to drink and eat.	1	
RECREATIONAL AREAS Playground, picnic areas, markets or special events.	1	
SPORT FIELDS Running track, cricket, football, basketball, etc.	1	
RELAXING PURPOSE Nice views, greenery (trees, grass, shrubs) water (sea, lake or water feature).	1	
SHADED AREAS Canopies, pergolas, vegetation, shading devices, etc.	1	
GOOD DESIGN Variety of sitting elements, tables, lights, paths, sport fields, play areas, restrooms, etc.	1	
Other	1	Please Specify

23. What would stop you from using the outdoor public space?

Please choose from 1 to 6 which is the most important, where 1 is the most important and 6 the least.

BAD PATHS Discontinued sidewalks, lack of traffic lights, signs, zebra crossing or car separation.	1	
LACK OF SHOPPING, RECREATIONAL AND SPORT AREAS No amenities to walk to, inside the public space or in a nearby location.	1	
UNCOMFORTABLE SPACE Noisy, overcrowded, polluted, unsafe, too exposed, no privacy, lack of security, etc.	1	
HOT WEATHER, ABSENCE OF TREES AND SHADED AREAS No canopies, pergolas, trees, shading devices, tec.	1	
POOR DESIGN Not enough seats or tables, space badly lit, improper paths, condition and length, no restrooms, etc.	1	
NO CAR PARKING AVAILABLE or hard to find	1	
Other	1	Please Specify

24. Would you accept to share the space with different nationalities and ethnicities ?	YES ☐	NO ☐
If NO, which is the main reason?		
I would feel uncomfortable and exposed	☐	
Privacy issues	☐	
Incompatibility of activities and behaviours	☐	
To many male in the space	☐	
Not welcoming for family	☐	
For security reasons, I would feel threatened	☐	
Overcrowded spaces	☐	
Other	☐	Please Specify

Please note down main concerns:

FORMAL OUTDOOR PUBLIC SPACE SURVEY

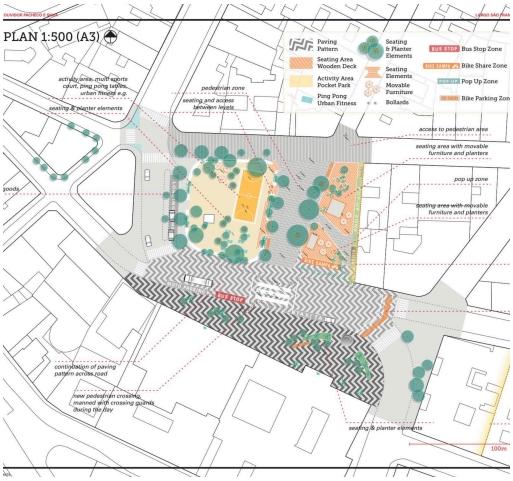
QUESTIONNAIRE FOR FORMAL SPACES	YES	NO	
1. Does the place offers a variety of formal places to sit and rest?	☐	☐	How many?
2. Does the place offers things to look at / nice views?	☐	☐	
3. Does the place have a slope or steps that are nice for sitting?	☐	☐	
4. Does the place have gateways or well-defined entrances?	☐	☐	
5. Does the place have fences, walls or any physical barrier defining the area?	☐	☐	
6. Does the place offer areas for exercise?	☐	☐	
7. Does the place offer areas for picnic?	☐	☐	
8. Does the place offer areas for team sports?	☐	☐	Which sports? How many fields?
9. Does the place have a playground or kid-friendly play space?	☐	☐	
10. Does the place have a multipurpose lawn? (big enough for picnics or frisbee)	☐	☐	
11. Does the place have a multipurpose plaza? (big enough for markets and events)	☐	☐	
12. Does the place offer any permanent food and beverage facilities?	☐	☐	
13. Does the place offer any temporary food and beverage stalls, carts, vans, etc.?	☐	☐	
14. Can you find a variety of different uses in the ground floor adjacent to the place?	☐	☐	
15. Does the place have tables for eating and socialising?	☐	☐	
16. Does the place have public restrooms?	☐	☐	
17. Does the place have public prayer rooms?	☐	☐	
18. Does the place have good lighting at night?	☐	☐	
19. Does the place have a good security level?	☐	☐	Cameras, security staff, police
20. Does the place offers shaded areas:? (trees, canopies, pergolas, other shading devices)	☐	☐	
21. Is the place easy to reach by public transport?	☐	☐	
22. Is the place easy to reach by private car?	☐	☐	
23. Can you find parking in the place or near the area?	☐	☐	
23. Are the only shopping options only for high-income groups?	☐	☐	
24. Is the place suitable for people with limited mobility? (pavement uneven, extreme changes of grading, steps and no ramps…)	☐	☐	

INFORMAL OUTDOOR PUBLIC SPACE SURVEY

THANK YOU FOR PARTICIPATING IN OUR SURVEY ABOUT COMMUNITY LIFE IN THIS AREA. YOUR RESPONSES WILL BE KEPT STRICTLY CONFIDENTIAL.

QUESTIONNAIRE FOR INFORMAL SPACES	YES	NO	
1. Does the place offers a variety of places to sit and rest?	☐	☐	How many? And which type? (sofas, chairs, blocks…
2. Does the place offers any table to eat or socialise?	☐	☐	
3. Does the place offers any carpet or rug to have activities on?	☐	☐	
3. Which activities happen there?			
Sitting	☐	☐	
Walking	☐	☐	
Board Games	☐	☐	
Chatting	☐	☐	
Eating and Drinking	☐	☐	
Sleeping	☐	☐	
Working	☐	☐	
Recreational activity or Playing	☐	☐	
Selling food	☐	☐	
Playing or listening to music or singing	☐	☐	
Other	☐	☐	Write here
6. When do people usually use the space?			
Morning	☐	☐	
Afternoon	☐	☐	
Evening	☐	☐	
Weekdays	☐	☐	
Weekends	☐	☐	
7. What are the main physical elements of the place? (materials, furniture, light)	☐	☐	
8. Does the place offers shaded areas:? (trees, canopies, pergolas, other shading devices)	☐	☐	
9. Who mainly uses the space? (men, women, kids, elderly, adults)			
Men	☐	☐	
Women	☐	☐	
Kids	☐	☐	
Adults	☐	☐	
Elderly	☐	☐	
10. What space does it informal occupy? (Empty plot, road, sidewalk, area adjacent to the sea, parking space, etc.)			
Empty plot	☐	☐	
Road side	☐	☐	
Street corner	☐	☐	
Sidewalk	☐	☐	
Area adjacent to the sea	☐	☐	
Parking Space	☐	☐	
Other	☐	☐	Write here
13. Does the place offer any temporary food and beverage stalls, carts, vans, etc.?	☐	☐	
14. Can you find a variety of different uses in the ground floor adjacent to the place?	☐	☐	
18. Does the place have good lighting at night?	☐	☐	
19. Does the place feel secure?	☐	☐	

2. Built and Social Environment Analytical Tools



INVENTORY

Outdoor Public Space

WORKSHEET

Inventory of the Physical Features in a place that can support public life.

This tool is about locating the physical features of a space.
There is no set amount of time for this exercise.

If the area is large, you may need to walk through it to cover all areas.

The worksheet has two overall components the inventory and a assessment experience of what that outdoor public space provides. How does the space feel, look, etc.?

DIRECTIONS

- Walk through the space and take inventory of the physical features using an area map and page 3 of your inventory worksheet.
- Use the categories and symbols below to label the physical features on your map.
- If you see more than one item representing a category (e.g., three benches) use the appropriate symbol and indicate how many (e.g., 10X)
- If you're unsure about the correct category to use, make notes on the map describing what you see and where.
- Sum the total number of seats for each of the four seating categories.
- Go to page 4/5 and assess the experience of the space. Use your feeling, but also try and imagine how others might feel, such as a child or an elderly person.
- Please take photos of physical features related to the inventory sheet and the experience of the space.
- Take notes of any specific features that are not represented in the worksheet, but are key to the feel or use of the space.

1. Seats and tables (with numbers):

▭	Bench	#_____
□	Movable chairs	#_____
△	Cafe / restaurant - private seat	#_____
▬	Other seating (not chairs or benches)	#_____
F	Fixed table	#_____
M	Movable table	#_____

2. Vegetation:

- ○ Tree
- Shrub
- Grass or lawn

3. Shade and shelter:

- Pergola
- Fabric Canopy
- Arcade
- Umbrella
- Awning

4. Areas to play and sports (draw the limits and insert symbol):

Play	Playground and other playing areas (specify)
In Play	Playground and other playing areas (specify
S	Sports field or area (write type of sport)
In S	Informal Sports field or area (write type of sport)

5. Transports:

BUS	BUS stop
BUS	BUS stop with shelter
Taxi	Taxi stop
⌒	Bike parking
P	Formal car parking
In P	Informal car parking
=	Street Crossing

6. Amenities:

PR	Prayer Rooms
WC	Public Bathrooms
F&D	Formal Food and Drink places (cafes, restaurants)
In F&D	Informal Food and Drink places (cafes, restaurants)

7. Physical boundaries:

- Fence
- Wall
- Planting

8. Various:

	Rug
B	Rubbish Bin
	Lighting
	Public Art (sculpture, statue, mural…)
	Water elements (fountain, lake, sea, water feature)

MAP

NAME: DATE: WEATHER:

LOCATION: TIME:

Please label physical features on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

EXPERIENCE

1. Does the space have areas that provide shade/ shelter during the hot weather?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
2. Does the place offers a variety of spaces to spend time, sit and rest?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
3. Does the space have areas to be active and play?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
4. Does the space have areas for practising sports - team or individual?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
5. Does the space offers food and beverages on site?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
6. Can you find a variety of different uses in the ground floor adjacent to the space?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
7. Are the only shopping options for high-income groups only?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
8. Does the space provides other amenities like public bathrooms and prayer rooms?
   ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
9. Does the space appear to be well-lit at night?
   ○ No ○ Somewhat ○ Yes ○ Not sure
10. Can you comfortably have a conversation with another person in the space?
    ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
11. How strong is the presence of vegetation? (trees, plantings, etc.)
    ○ Low ○ Medium ○ High
12. How would you rate the visual environment?
    ○ Ugly ○ Unattractive ○ Attractive ○ Beautiful
13. Could someone access this space using a wheelchair or a baby stroller?
    ○ No ○ Some areas ○ Most areas ○ Yes
14. Is it easy to access the space by public transport or car?
    ○ No ○ Yes
15. Can you find available parking within or near the space?
    ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
16. If there is vehicular traffic nearby please indicate the approximate amount of traffic.
    ○ Low ○ Medium ○ High
17. Do you feel safe crossing the street?
    ○ No ○ Mostly no ○ Mostly yes ○ Absolutely
18. Do you feel safe in the space, overall?
    ○ No ○ Mostly no ○ Mostly yes ○ Absolutely

19. If you do not feel safe in the space, why?

- O Dominated by vehicular traffic
- O Other people
- O Lack of other people
- O Lack of lightning
- O State of cleanliness
- O Other:

_____

20. If the space has physical boundaries, can you (check all that apply)

- O See through them
- O Sit on them
- O Climb over them
- O Walk around them
- O Other:

_____

21. Can you spot a Mosque nearby?

◯ No ◯ Yes

22. If the space is informal, which area occupies?

- O Empty plot
- O Part of the Road
- O Street Corner
- O Sidewalk
- O Area adjacent to the sea
- O Parking lot
- O Other:

_____

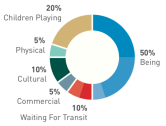
23. Which people do you observe most in the space?

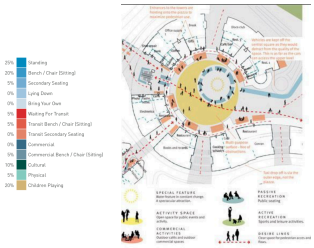
- O Kids
- O Teenagers
- O Adults
- O Elderly
- O Male
- O Female

24. When do people usually use the space?

- O Morning
- O Afternoon
- O Evening
- O Night
- O Weekday
- O Weekend

COMMENTS:







MAPPING

SOCIAL Activities in the Outdoor Public Spaces

WORKSHEET

Mapping of both stationary and moving activities in a space.

Mapping people spending time is like taking a snapshot of all activities taking place in the survey area at a given moment.

The framework allows to capture the nuance of how people participate in different activities by separating the position of the body - posture -standing, sitting, etc. -from the - activity - waiting for transit, commercial activities, etc.

DIRECTIONS

The mapping activity is not based on a predesignated amount of time, it may take seconds or 20 minutes depending on how many people are spending time in the space and how big it is.

It is a static snapshot similar to a top view photograph that captures one moment activities that can be mapped onto the floor plan.

The map selected should be in a scale 1/50 (minimum) and should be updated on-site if any missing or wrong lines are found.

Follow the steps:

- Define a route that takes in all the spaces to be observed. If an area is small you may be able to do the mapping from one location. If an area is too big to be observed as a whole please divide it into smaller areas.
- All areas need to be visible from your observation point.
- In busy areas you will have to walk through the space at a constant rate, noting people on the plan as passing by. In situations like these 100% accuracy would be impossible so simply note as many people as possible.
- Walk from space to space and take a mental snapshot of the activity precisely at the moment at which the space is observed. It is important not to count people who have entered the space after you have taken your mental photograph, or those who are standing behind you.
- The snapshot is then recorded on the plan, with coding according to posture and activity and respective group symbol.
- There area three categories to map: posture, activity and group. Posture explains body position (sitting, standing), activity stands for type of action (commercial) and group displays who is using the space (kids, young adults, adults and elderly). A symbol clearly states the difference between genders too - without fill stands for male and filled with solid shade stands for female.
- There are two additional features that can be used in combination with the others - Interaction and Informal. Draw a circle around people interacting and add "Inf" whenever a posture or activity is informal (casual).
- There are predefined codes (letters) and different symbols in each category. The symbols will be below your maps, so no need to memorize them.
- Map everyone inside the outlined area, not only along the line (feel free to map activity outside the marked area, but do not add this to the summary of activities).
- Map everyone spending time in the area. Do not map people moving through unless they are moving within the area (e.g., a skateboarder using an edge to practice tricks).
- If you are mapping more than one location or mapping the same location more than one time, please make sure to use individual maps and summarise all activity on each map individually.
- Please take notes of any observation you make during your mapping and also note if anything out of the ordinary happens or if large groups are doing the same activity (school trip, group of tourists, special event, etc.).

GROUP YEARS:

KIDS: 5 TO 14 YEARS

YOUNG ADULTS: 15 TO 24

ADULTS: 25 TO 64

POSTURE
St - Standing
Sit - Sitting
Wa - Walking
WaD - Walk the dog
Cy - Cycling
Mov - Moving
L - Lying Down
Sw - Swiming
Ri - Riding

ACTIVITY
Cs - Commercial sell
Cb - Commercial buy
Rec - Recreational (read, picnic, etc.)
E - Exercise (sports)
P - Play (Kids)
Wt - waiting for transit (bus, taxi, etc.)
R - Religious (praying)
T - Talking (with others)
Wo - Working
Mob - Technology (mobile, tablet, etc.)
Smo - Smoking

GROUP	
Male	**Female**
Kids	Kids
Young Adults	Young Adults
Adults	Adults
Elderly	Elderly

CLASS	
	Interaction Please draw curvilinear lines around the persons who are interacting in the space
Inf	**Informal** Please add - **Inf** - whenever an activity or posture is informal

MAP

NAME: DATE: WEATHER:

LOCATION: TIME:

Please label social life on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

POSTURE
St - Standing
Sit - Sitting
Wa - Walking
WaD - Walk the dog
Cy - Cycling
Mov - Moving
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Sw - Swiming
Ri - Riding

ACTIVITY
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Smo - Smoking

GROUP	
Male	**Female**
Kids	Kids
Young Adults	Young Adults
Adults	Adults
Elderly	Elderly

SYMBOL	
	Interaction Please draw curvilinear lines around the persons who are interacting in the space
Inf	**Informal** Please add - **Inf** - whenever an activity or posture is informal

DURATION

After finishing the mapping of postures and activities, please note down for consecutive periods of 5 minutes, till the maximum of 30m, each person or group of persons continuing a stationary activity from the previous 5m with a circle or a loop.

DURATION	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.
Every 5 min, circle each person continuing an activity from the previous 5 min.	1 RING	2 RINGS	3 RINGS	4 RINGS	5 RINGS	6 RINGS

PROCEDURE:

REGISTER STATIONARY ACTIVITIES WITHIN THE SITE BOUNDARIES THROUGHOUT 30 MIN.

MARK EXACT LOCATIONS OF EACH ACTIVITY ON MAP USING GIVEN SYMBOLS. DRAW A LOOP AROUND PEOPLE TOGETHER IN A GROUP.

EVERY 5 MIN., CIRCLE THE SYMBOL FOR EACH PERSON CONTINUING A STATIONARY ACTIVITY FROM THE PREVIOUS 5 MIN.

TABLES

After the mapping activity and duration ends, please add all the totals by category in the tables given below.

	ACTIVITIES												
POSTURE		**Cs** sell	**Cb** buy	**Rec** leisure	**E** Sport	**P** Play	**Wt** wait transit	**R** religion	**T** talk	**Wo** work	**Mob** tech	**Smo** smoke	TOTAL
St - Stand													
Sit - Sit													
Wa - Walk													
WaD - Walk the dog													
Cy - Cycle													
Mov - Move													
L - Lie-down													
Sw - Swim													
Ri - Ride													
TOTAL													

	MALE	FEMALE	TOTAL
Kids			
Young Adults			
Adults			
Elderly			
TOTAL			

	POSTURE	ACTIVITIES	TOTAL
Informal			

	TOTAL
Interactions	

DURATION	PEOPLE
< 5m	
5-10	
10-15	
15-20	
20-25	
25-30	
TOTAL	

EXPERIENCE

Based on your observation and field experience do you think this place is good for:

1. People - watching / coexisting with people you don't know?

○ Not at all ○ Maybe ○ Yes ○ Totally

2. Being social / being with friends / being with family?

○ Not at all ○ Maybe ○ Yes ○ Totally

3. Doing different type of activities?

○ Not at all ○ Maybe ○ Yes ○ Totally

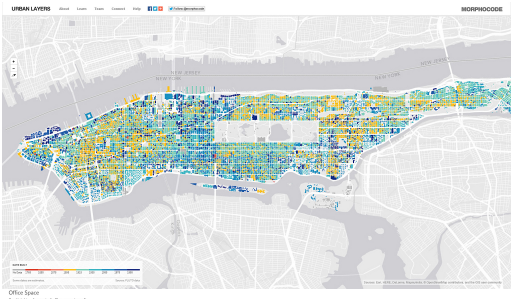
4. Inviting people with different interests / backgrounds?

○ Not at all ○ Maybe ○ Yes ○ Totally

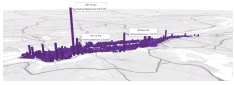
5. **Observe who is here. In what ways are the people here diverse? In what ways are they homogeneous?** Identity is complex. It is not always visible to others. Nevertheless, think about age, race, gender, physical ability, profession, perceived income, education, diversity, etc.

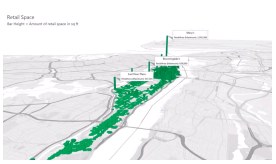
6. **Describe the big design and program elements that help or hinder this place to be diverse and foster interaction:**

7. **Look at where people are and what they are doing. Is social activity happening where you thought it might happen? Why or why not?**









CONTEXTUALISING

Outdoor Public Space

WORKSHEET

To know the built environment context of each outdoor public space is crucial to address urban planning and design strategies.

This tool is about collecting urban data from the site to inform and support consequent design solutions.
Both data collection and data analysis should be performed during this task.

The worksheet has four main categories each subdivided into several topics.

STREET NETWORK ANALYSIS
Within the area defined in the given plant the group must analyse the street network according to the following parameters:

- Default Grid
- Block size and shape (Built and unbuilt areas - back and white plan);
- Roads Hierarchy
- Street Profile (one way/two ways; single lane/two lanes/three lanes; physical separation between lanes or no; side parking, etc.)
- Parking - formal (head-on, in-line and echelon parking at 45 degrees) and informal
- Pedestrian hierarchy (side walk, park, square…)
- Public Transportation Routes and Usage – stops and lines (bus, taxis and similar).
- Street Use Intensity:
  - Vehicles: main intensity, medium, weak intensity
  - Pedestrians: main intensity, medium, weak intensity

Some parameters can be combined.

1. BUILDING ANALYSIS
Within the area defined in the given plant the group must analyse the uses of the different areas of the site according to the following parameters:

ACTIVITIES

- Residential (Single house, Row house, vertical housing, compound);
- Religious (cemetery, Mosque, Matams, etc.)
- Services (post office, police station, offices, bank, insurance, etc.)
- Educational (schools, universities, nurseries, etc.)
- Health (Hospitals, health center, clinics, etc.)
- Commercial:
  - primary needs (grocery store, supermarket and similar);
  - secondary needs (clothes, telecommunications, and similar);
  - Cafes, Restaurants and similar;
  - Informal (selling stands and similar);
  - Other
- Recreational (thematic parks, etc.)
- Sports (stadium, etc.)
- Cultural (museums, art galleries, libraries, theatre, etc.)
- Hospitality (hotels, resorts, etc.)
- Others

Please provide ground and first floor in separate plans if the space has to much variation between the activities in both. E.g. ground floor commercial and first floor residential.

HEIGHTS

- Height of all surrounding buildings. One, two, three, four, five, six floors, from 7 to 10, from 10 to 20 and above 20 floors.

PHOTOGRAPHIC SURVEY:
Within the area defined in the given plant the group must take pictures and compose a complete elevation of all building facades within a street, a park, etc. indicating the location of each set on the given plan.

2. OUDOOR PUBLIC SPACE ANALYSIS
Within the area defined in the given plant the group must analyse the outdoor public spaces according to the following parameters:

ZONING

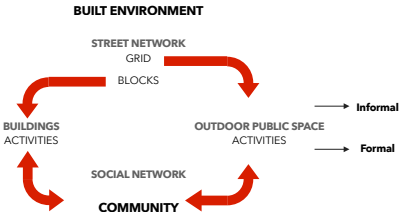
- Residential (Single house, Row house, vertical housing, compound); Park, Garden, Green areas, Trees, children's playground, football court, etc.
- Public Furniture and Equipment - benches, lamps, bus stop, tables, etc.
- Map of informal activities taking place in the public space: seating, chatting, playing games, etc.

PHYSICAL FACTORS

- Natural elements - sea, desert, pond, wadi, etc.
- Wind direction and Solar orientation
- Topography and vegetation

PHOTOGRAPHIC SURVEY:
Within the area defined in the given plant the group must take pictures of all public spaces (sidewalks, alleys, baharas, roads, etc.). These should show materials, pavements, parking, outdoor furniture, etc. and any specific feature, not mentioned here, that should be enlighten.

CONTEXTUALISING



DIRECTIONS

This worksheet will provide guidelines for conducting initially a collection of data on the field and posteriorly an insertion of data in an predefined AutoCad file.

- The data collection covers an urban area within the assigned plans.
- Before going to the site you should gather as much information as you can about the area. Google maps, Google Earth are some of the good tools to look at during this task.
- Use the worksheets with different categories to survey the area in loco.
- Use whatever mean you prefer to collect data as long as you are able to understand it when transferring the information to the AutoCAd file. Different colours, hatch, line types are some of the most common methods.
- In the Autocad file layers will be provided for each category and subcategory. Please follow them rigorously.
- Do not duplicate the pan in AutoCad, all the information should be added to the same plan. For your convenience you can freeze or turn off some of the layers while working.
- After entering all the data in the Autocad please provide an insight of your analysis by using text, sketch, diagrams, etc. in the provided Word Document.
- The Photographic Survey for buildings and public spaces should have an independent folder an should be rename within the same code attributed in the plan.
- Facade Elevations should be assembled together before handling. Some examples will be given.

MAP
STREET NETWORK

NAME: DATE: WEATHER:
LOCATION: TIME:

Please label physical features on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

MAP

NAME:

DATE:

WEATHER:

BUILDING ANALYSIS
Activities

LOCATION:

TIME:

Please label physical features on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

MAP

NAME:

DATE:

WEATHER:

BUILDING ANALYSIS
Heights

LOCATION:

TIME:

Please label physical features on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

MAP

NAME:

DATE:

WEATHER:

OPS ANALYSIS

LOCATION:

TIME:

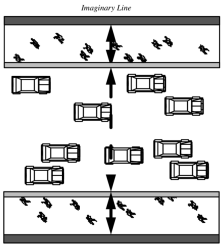
Please label physical features on the map provided and take photographs to document the conditions described above.

PLACE MAP HERE

NOTES:

EXPERIENCE

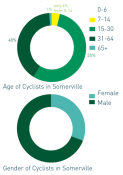
Please provide valuable insights from your object of study.





Gate Number	Time	Moving Men	Moving Women	Moving Teenagers	Moving Children
1	12:05	3	2	1	
2	12:12	5	5		2
3	12:17	1	2		
4	12:22	3	4	3	2





Sample data from Patricia's Green



COUNTING

PEOPLE and VEHICLES Moving in the Outdoor Public Spaces

WORKSHEET

Counting people and vehicles moving through an outdoor public space.

People counting will take into consideration gender, nationality and age group. It involves estimating the approximate age, gender and nationality (Bahraini / Non-Bahraini) and does not require mapping.

Vehicles counting will consider cars, buses (private and public), taxis and bicycles.

Counting will happen in different times of the day and days of the week (weekend vs weekdays).

DIRECTIONS

Choose a number of street locations. These should cover a range of well-used, moderately-used and poorly - used spaces in and around the area of study.

- At a minimum there should be **25 "gate"** positions but do as many as possible.
- Stand at each gate position and draw an imaginary line crossing the street space that is at right angles to the direction of the street.
- Count people or vehicles crossing this line for a set period of time, usually 2.5 or 5 minutes.
- Only count people or cars crossing not about to cross.
- Count for a precise period of time with a stopwatch and always record period of counting so no mistakes are done getting rates per hour.
- In quite areas, 5 minutes per gate, in busy areas 2.5 minutes.
- Observations should be recorded on a prepared table with a tally count, putting down one stroke for each person or vehicle who has passed.
- In quiet streets, it may be possible to count people and vehicles simultaneously and even observe several gates at once, but make sure to count movement for each of the gates in turns.
- In busy streets, it is better to count people and vehicles separately to avoid making errors. Even to have separated counting for each category (men, women, cars, etc.
- All of the gates in an observation route should be counted one after the other.
- To cover the number of gates you have allocated for the study area (at least twice for each time period), you may be required to observe over more than one day. If this happens, a similar day scenario should be chosen.
- Several rounds of observation should be undertaken to cover different times of the day and different days of the week. Please see the table below.
- Remember to note the precise time, date, general time period and weather conditions each gate was observed.
- When doing a second round within each time period, alternate rounds should be carried out in reverse directions. If the first round covered the gates in the sequence 1 to 25, the next round should go 25 to 1.
- The gates should be arranged in such a way that a single round could be completed within a single time period. Remember to include walking time between gates.
- Please note on your sheets if anything out of the ordinary happens (e.g., a group of school children on a field trip passing by).

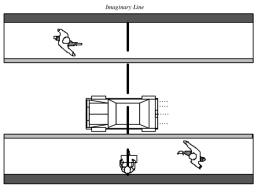
COUNTING TIMES
8:00am -10am MORNING
12:00pm - 2:00pm LUNCH
4:00pm - 6:00pm EVENING
8:00pm - 10:00pm NIGHT

COUNTING DAYS
WEEKDAYS: **Sunday, Monday, Tuesday and Wednesday**
Thursday (normally with different pattern because it is weekend eve)
WEEKENDS: **Friday and Saturday**

GROUP CATEGORIES	
GENDER	Male
	Female
NATIONALITY	Bahraini
	Non-Bahraini

GROUP YEARS
CHILDREN - up to 14
YOUNG ADULTS - 15 to 24
ADULTS - 25 to 64
ELDERLY - above 65

TRANSPORT CATEGORIES
CARS
PRIVATE BUSES
PUBLIC BUSES
BICYCLES
TAXIS



MAP NAME: DATE: WEATHER:

LOCATION: TIME:

Please show the selected gates in the map with a circle and a number and their respective imaginary line.

PLACE MAP HERE

NOTES:

TOTAL PEOPLE COUNT

	PEOPLE AGE GROUP | weekend/weekday			
	CHILDREN	YOUNG ADULT	ADULT	ELDERLY
WEEKDAY				
WEEKEND				
TOTAL				

	GENDER AND NATIONALITY | weekend/weekday			
	FEMALE	MALE	BAHRAINI	NON-BAHRAINI
WEEKDAY				
WEEKEND				
TOTAL				

	DAILY VARIATION				
	8:00am to 10:00am	12:00pm to 2:00pm	4:00pm to 6:00pm	8:00pm to 10:00pm	TOTAL
Bahraini					
Non- Bahraini					
Female					
Male					
Children					
Young Adult					
Adult					
Elderly					
TOTAL					

TOTAL VEHICLES COUNT

	DAILY AND WEEKLY VARIATION					
	CAR	PRIVATE BUS	PUBLIC BUS	TAXI	BICYCLE	TOTAL
WEEKDAY						
WEEKEND						
8-10am						
12-2pm						
4-6pm						
8-10pm						
TOTAL						

	PEOPLE COUNTING													
	CHILDREN	YOUNG ADULT				ADULT				ELDERLY				
		BAHRAINI FEMALE	NON-BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI MALE	BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI FEMALE	NON-BAHRAINI MALE	BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI FEMALE	NON-BAHRAINI MALE
G 1													
G 2													
G 3													
G 4													
G 5													
G 6													
G 7													
G 8													
G 9													
G 10													
G 11													
G 12													
G 13													

	PEOPLE COUNTING													
	CHILDREN	YOUNG ADULT				ADULT				ELDERLY				
		BAHRAINI FEMALE	NON-BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI MALE	BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI FEMALE	NON-BAHRAINI MALE	BAHRAINI FEMALE	BAHRAINI MALE	NON-BAHRAINI FEMALE	NON-BAHRAINI MALE
G 14													
G 15													
G 16													
G 17													
G 18													
G 19													
G 20													
G 21													
G 22													
G 23													
G 24													
G 25													
TOTAL													

	VEHICLES COUNTING				
	CARS	PRIVATE BUS	PUBLIC BUS	BICYCLES	TAXIS
G1					
G2					
G3					
G4					
G5					
G6					
G7					
G8					
G9					
G10					
G11					
G12					
G13					

	VEHICLES COUNTING				
	CARS	PRIVATE BUS	PUBLIC BUS	BICYCLES	TAXIS
G14					
G15					
G16					
G17					
G18					
G19					
G20					
G21					
G22					
G23					
G24					
G25					
TOTAL					

3. Users | Sellers and Public | Private Entities Interviews

SHORT ON-SITE INTERVIEWS #
Questionnaire Form | Buyers

Inform Design intermobility strategies in introverted archipelagos
spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain
You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Case study:		Interview number:
Location in the site:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:
Weather:		UV Value:
Temperature	Wind:	Humidity:

1. Why are you here today?
2. For how long are you coming to this place?
3. Do you come alone, family, friends, work colleagues , etc.?
4. How long do you spend here?
5. When do you normally visit the space? Hot season vs cold season? Weekdays vs weekends? Morning, lunch, afternoon, evening and/or night? Ramadan month?
6. How do you reach the space and how long does it take? By car, by foot, by bike, by Bus, etc.?
7. Which main activities do you do here? Eating, playing, watching sunset, walking or jogging, spend time with friends, etc.?
8. What do you like and dislike about this space?
9. Do you feel secure and comfortable?
10. Which other outdoors spaces do you normally visit?

SHORT ON-SITE INTERVIEWS #
Questionnaire Form | USers

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spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain
You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Case study:		Interview number:
Location in the site:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:
Weather:		UV Value:
Temperature	Wind:	Humidity:

1. Do you usually come to this place? How often? Daily? Weekly? Mostly? Hot and Cold season? Weekdays and weekends ? Morning, lunch, afternoon, evening and/or night? Ramadan month?
2. Why are you here today? Which activities do you usually do here?
3. How long have you been living in Bahrain?
4. For how long are you coming to this place and how long do you spend here?
5. Do you come alone, family, friends, work colleagues , etc.?
6. How do you reach the space and how long does it take? By car, by foot, by bike, by Bus, etc.?
7. Do you like to spend time here? Do you feel secure and comfortable?
8. Which other activities do you do in your free time? And which other outdoors spaces do you normally visit?
9. What do you like and dislike about this space? What would you change or add?

SHORT ON-SITE INTERVIEWS #
Questionnaire Form | Sellers

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spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain
You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Case study:		Interview number:
Location in the site:		
Gender:	Age:	Nationality:
Date:	Day:	Time:
Weather:		UV Value:
Temperature	Wind:	Humidity:

1. Are you here everyday? At which time of the day - morning, lunch, afternoon, evening, night?
2. At what time do you start to assemble/open the space?
3. At what time do you start to dismantle/close the space?
4. What is the best time or hour of the day to sell?
5. Is there any difference between the different seasons of the year in terms of amount of users? What about weekdays vs weekends? Hot weather vs cold weather? Ramadan month?
6. Which nationalities usually use the space?
7. Would the buyers of (food items) come to buy in there car or walking (park and walk)?
8. How long do usually people stay in the tables of the restaurants and cafes seating area? Few minutes, half an hour, approximately one hour, more than an hour?
9. When is the best time to see kids around in weekdays and weekends (jumping castle, karting and VR)?
10. Do you have returning costumers? Frequent buyers?

SHORT ON-SITE INTERVIEWS #
Questionnaire Form | Sellers

11. Do you sell elsewhere? Where?
12. How do you consider the atmosphere on the space? Lively, fun, conservative, calm, relaxing, dull, etc.
13. Do you have a fixed place to sell? If no, why?
14. For how long do you have a commercial activity here?
15. SELLERS
16. Do you have any kind of social media account where you post your business?
17. Do you have a special licence to be able to sell here? Is it anual or mostly renewable? In the municipality or in the ministry?

Additionally remarks:

EXPERT INTERVIEWS #
Questionnaire Form | Capital Municipality

Inform Design intermobility strategies in introverted archipelagos
spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain
You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Organization:		Interview number:
Role:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:

1. What is the overall perspective of the use of public open spaces in Capital municipality? Which are the most important POS?
2. Do you think the POS are enough in number for the population of the municipality?
3. Are they spatially well distributed? Where can we usually find them?
4. Who uses them the most? Families with kids? Migrants? South Asian Community? Are there some spaces that you know that a specific nationality uses?
5. What is the overall perspective of the use of empty plots for informal outdoor public space? Cricket, football field, food trucks, etc.
6. In your municipality do you consider to have more formal or informal spaces?
7. Do you think informal POS are increasing in Bahrain?
8. Do you see them as a case of success?
9. Which examples do you know as informal POS in Capital municipality? Are they related to religious events or recreational activities?
10. Do they all require licenses? Are these licenses emitted in the municipality, in the ministry or a specific entity?

EXPERT INTERVIEWS #
Questionnaire Form | Capital Municipality

11. Who gives permission for the different neighbourhoods to built small pods in the street or sidewalk (like in Quadaibiya), insert shading devices, put benches, etc.?
12. If they have a license is it for a specific spatial location (area, municipality) or for the activity as a whole in the country?
13. Do you keep track on their location?
14. Do you know Karbabad beach informal area - Food trucks, karting, jumping castles? What is your opinion about it?
15. What came first - the food trucks or the people gathering on the beach?
16. Who provides the garbages bins and cleans the area? Which frequency do they clean the beach?
17. Which plans are reserved for that area? Is it private, governmental land? What will happen to this informality after they are implemented?
18. Do you know the informal cricket field next to Gulf Gate Hotel, in front of the highway? What is your opinion about it?
19. Isn't it a private plot? Are they allowed to occupy it and play? They have the football golly, the volleyball nets and even the cricket paved areas on the floor.
20. Do you know other cases of informal POS in Bahrain? Which ones? Do you think they are similar to Karbabad or the Cricket field?
21. What is your opinion about the pedestrian bridges in Financial Center and in the Corniche? Are they surveilled? Do you know how many people uses them a day? Do you think you should have more? Why and why not?
22. What about the location of zebras and pedestrian signs on the street whose responsibility is it? Can the municipality control it and ask for it's implementation?
23. Is there any plan for Manama to be more walkable / pedestrian?

EXPERT INTERVIEWS #
Questionnaire Form | Capital Municipality

24. Are there any future plans that envisioned more public open spaces in the municipality?
25. Recently the Avenues and Bahrain Bay development can they be consider public outdoor space privately owned and managed? Is the municipality in charge of anything outdoor space in these areas?
26. Recently the Avenues and Bahrain Bay development can they be consider public outdoor space privately owned and managed? Is the municipality in charge of anything outdoor space in these areas?
27. Who plans and draws the existing POS? Does the municipality has anything to say in the process?
28. Do you think the population is happy with them?
29. Are they special requests from the population? Like providing shading devices, seating areas, Block a specific are of the street temporarily for events or definite? Which communities are more actively engaged with POS?
30. Which do you think are the main problems in the existing POS?
31. Who maintains and secures the POS? Do you have complaints? Which are the main ones?
32. Do you think Bahraini society it is used to live with temporary spaces, transient spaces?
33. Which society group do you think takes more advantage of the POS?

Additionally remarks:

EXPERT INTERVIEWS #

Questionnaire Form | Northern Municipality

Inform Design intermobility strategies in introverted archipelagos

spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain

You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Organization:		Interview number:
Role:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:

1. What is the overall perspective of the use of public open spaces in Northern municipality? Which are the most important POS?
2. Do you think the POS are enough in number for the population of the municipality?
3. Are they spatially well distributed? Where can we usually find them?
4. Who uses them the most? Are there some spaces that you know that a specific nationality uses?
5. What is the overall perspective of the use of empty plots for informal outdoor public space? Cricket, football field, food trucks, etc.
6. In your municipality do you consider to have more formal or informal spaces?
7. Do you think informal POS are increasing in Bahrain?
8. Do you see them as a case of success?
9. Which examples do you know as informal POS in northern municipality? Are they related to religious events or recreational activities?
10. Do they all require licenses? Are these licenses emitted in the municipality, in the ministry or a specific entity?

EXPERT INTERVIEWS #

Questionnaire Form | Northern Municipality

11. If they have a license is it for a specific spatial location (area, municipality) or for the activity as a whole in the country?
12. Do you keep track on their location?
13. Your municipality is very different - in the north (Saar, Janabiya, Hamala, compounds and single houses privately built and in the south, a new town, Madinat Hamad, built by the Ministry of Housing, both with some old villages in between. How do you see this spatial relationship within the location and distribution and amount of public spaces?
14. Is there any special concern from the social housing projects to provide high quality POS?
15. Who plans and draws the existing POS? Does the municipality has anything to say in the process?
16. Do you think the population is happy with them?
17. Are they special requests from the population? Like providing shading devices, seating areas, Block a specific are of the street temporarily for events or definite? Which communities are more actively engaged with POS?
18. Which do you think are the main problems in the existing POS?
19. Who maintains and secures the POS? Do you have complaints? Which are the main ones?
20. I see that in many residential areas of single houses or compounds the space outside their boundary wall is occupied in a different way - some will plant, some will have a specific pavement, benches, others will leave just soil without any treatment - are there specific guidelines for this appropriation? Can each owner do what they please with it? Who allows them to have this freedom? Is there by law?
21. In Madinat Hamad Town we see that shading devices are placed in front of the houses covering the sidewalk for parking purposes, sometimes they even close a space like a informal garage? Does this required a licence? Do they get it or mostly they're ilegal?
22. Do you know Malkiya beach informal area - Food trucks, karting, jumping castles? What is your opinion about it?
23. What came first - the food trucks or the people gathering on the beach? How this phenomena started?

EXPERT INTERVIEWS #

Questionnaire Form | Northern Municipality

24. Who provides the garbages bins and cleans the area? Which frequency do they clean the beach?
25. I saw two security guards on site, are they hired from the municipality? What are their working hours?
26. Which nationality would you say that uses more that space?
27. Do you know other cases of informal POS in Bahrain? Which ones? Do you think they are similar to Malkiya?
28. Are there any future plans that envisioned more public open spaces in the municipality?
29. Do you think Bahraini society it is used to live with temporary spaces, transient spaces?
30. Which society group do you think takes more advantage of the POS?

Additionally remarks:

EXPERT INTERVIEWS #

Questionnaire Form | Muharraq Municipality

Inform Design intermobility strategies in introverted archipelagos

spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain

You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Organization:		Interview number:
Role:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:

1. What is the overall perspective of the use of public open spaces in Muharraq? Which are the most important POS?
2. Do you think the POS are enough in number for the population of the municipality?
3. Are they spatially well distributed? Where can we usually find them?
4. What is the overall perspective of the use of empty plots for informal outdoor public space? Cricket, football field, food trucks, etc.
5. Why do think that informal POS are increasing and Bahrain?
6. Do you see them as a case of success?
7. Which examples do you know as informal POS in Muharraq? Are they related to religious events or recreational activities?
8. Do they all require licenses? Are these licenses emitted in the municipality, in the ministry or a specific entity?
9. If they have a license is it for a specific spatial location (area, municipality) or for the activity as a whole in the country?
10. Do you keep track on their location?

EXPERT INTERVIEWS #

Questionnaire Form | Muharraq Municipality

11. Do you know Bussaiteen beach informal area - Food trucks and cricket/football? What is your opinion about it?
12. What came first - the food trucks or the people gathering on the street?
13. Who provides the garbages bins and cleans the area? Which frequency do they clean the beach?
14. Which plans are reserved for that area? Is it private, governmental land? What will happen to this informality after they are implemented?
15. Do you know other cases of informal POS in Bahrain? Which ones? Do you think they are similar to Busaiteen?
16. Who plans and draws the existing POS? Does the municipality has anything to say in the process?
17. Do you think the population is happy with them?
18. Are they special requests from the population? Like providing shading devices, seating areas, Block a specific are of the street temporarily for events or definite? Which communities are more actively engaged with POS?
19. Which do you think are the main problems in the existing POS?
20. Who maintains and secures the POS? Do you have complaints? Which are the main ones?
21. Do you think the temporality of the space will interfere with the population lives? When the space disappears or moves?

Additionally remarks:

EXPERT INTERVIEWS #

Questionnaire Form | Ministry of Works, Municipality Affairs and Urban Planning

Inform Design intermobility strategies in introverted archipelagos

spatial dynamics generated by non-motorised transportation modes - Everyday Urbanism in Bahrain

You are being invited to take part in a research study conducted by Sónia Lamela under the supervision of the Faculty of Architecture of the University of Porto (FAUP), Portugal.

Organization:		Interview number:
Role:		
Gender:	Age:	Nationality:
PO Box:		Profession:
Date:	Day:	Time:

1. What is the overall position of the ministry regarding the POS? Do they have any authority designing them? Are there any guidelines to follow regarding - sidewalks, gardens, seating areas, pedestrian crossways, signs, traffic lights?
2. Who is in charge for the planning of POS; their design; the implementation; and their management and maintenance?
3. Do you have multidisciplinary teams to design the POS? Do they belong to the same unit or different departments , ministries, governmental and/or private organisations?
4. The SOM strategic plan for Bahrain 2030 proposes to integrate transport and ensure public access to open space and the waterfront. Does this have any impact in your planning strategy? What is your opinion?
5. Weak transport infrastructure and insufficient public open space are some of the issues that the plans addresses. How do you think this goal is being achieved? Which steps are being made?
6. Also the Bahrain 2030 Vision states "offering more – and more attractive – public spaces for families" is this being done at a national, municipal or neighbourhood level?
7. Is there any classification of the type of POS Bahrain has?
8. Which are the most important and the most visited POS?
9. Parks are one of the categories that Bahrain has the most, what about squares/plazas can you name any?

EXPERT INTERVIEWS #

Questionnaire Form | Ministry of Works, Municipality Affairs and Urban Planning

10. What do you think is the main difference between Bahraini POS and western? Main defining characteristics of them - similarities and differences.
11. Do you think a western layout will be culturally and socially suitable here?
12. Are there any urban guidelines for the provision of sidewalks and parking or open areas (compensation areas) from the private individual owners or compounds allotment?
13. How is it possible for a investor to build a building in a land without paved car access - road and other infrastructure? Is this protected by law?
14. Which areas do you think are better served in terms of POS - municipality or neighbourhood?
15. Who is responsible for the public beaches and public parks in Bahrain?
16. What is your overall opinion about the existing POS?
17. Why do you think there are so much informal POS? Is the government aware of them? Did they ever thought of doing a project that reflects peoples needs and desires showed in the informal spaces?
18. Do you know any informal POS? (beaches, food trucks, cricket fields, football, volleyball, sofas areas, etc.?
19. What is your overall opinion about the existing informal POS?
20. Is there any regulation that protects them or are they all ilegal? What about the food trucks?

Additionally remarks:

ANNEXES 2

PUBLIC LIFE SURVEY

1. Questionnaire - Data collection
2. Questionnaire - results
3. List of Informal and Formal Public Spaces
4. Samples of Public Space Inventory

1. Questionnaire - Data collection

This survey was part of a First Assignment of a course I have coordinated in the 2nd semester of the Academic Year 2018/2019, ARCG220 Architectural Design II, in the Department of Architecture and Interior Design, University of Bahrain. The survey included a questionnaire plus an inventory template to cover one formal and one informal public space (Templates in pages 7-17, Annexes 1). Students from six sections carried out the tasks on the field, and the data entry, results, comparison and evaluation were done by me after receiving all data. Among all sections, 371 questionnaires were completed and 182 inventories collected.

DEMOGRAPHIC DATA

AGE: 0-14 | 15-24 | 25-49 | 50-64 | 65

GENDER: Male | Female

MUNICIPALITY: Capital | Muharraq | Northern | Southern

BLOCK: Number

NATIONALITY: Bahraini | Other Arab | India | Pakistani | Filipino | Sri Lankas | Indonesian | Bangladeshi | America | European | Australian | Other

YEARS BH: < 5 | 5-10 | 10 >

EDUCATION: Illiterate | Primary | Intermediate | Secondary | Higher Educ. | Unemployed

JOB OCCUPATION: Student | Public S. | Private | Unemployed | Retired

ACTIVITY: Type

HOUSEHOLD: Number | Kids | Elderly | Disable

HOUSEHOLD INCOME MONTHLY: 0-200 BD | 200-500 BD | 500-1000 BD | 1000-2000 BD | 2000-3000 BD | > 3000 BD

Q1: Y | N

Q2: Y | N

Q3: Souq | Name | Park | Name | Beach | Name | Corniche | Name | Road | Name | Walkway | Name | Square | Name | Other | Name

Q4: Y | N

Q5: Y | N

Q5 YES: Work | Shopping | Leisure | Sports | Walk dog | Socialising | Bike riding | Playground | Meet neighbours | Other

Q5 NO: Car dependency | Weather conditions | No shade | Uncomfortable pavement | Absence of ped. walkways | No public spaces around | Lack of time | Other | Specify

| | AGE | | | | | GENDER | | MUNICIPALITY | | | | BLO | NATIONALITY | | | | | | | | | | | | | | YEARS BH | | | EDUCATION | | | | | JOB OCCUPATION | | | | | ACTIVITY | HO | HOUSEHOLD | | | HOUSEHOLD INCOME MONTHLY | | | | | | Q1 | | Q2 | | Q3 | | | | | | | | | | | | | |

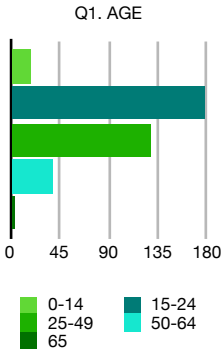
| | DEMOGRAPHIC DATA | | |

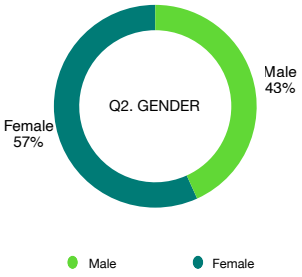
QUESTIONNAIRE

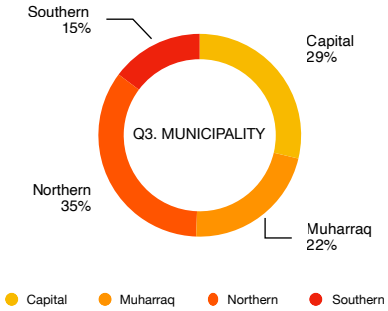
| | Q6 | | | | Q7 | | | | Q8 | | | | Q9 | | | | | Q10 | | | | | | | | Q11 | | Q11 IF YES | | | | | Q12 | | | | | | | | Q13 | | | | | | | Q14 | | Q15 | Q16 | Q17 | | Q18 | | Q19 | | | | Q20 | | Q21 | | Q21 IF NO | | | | | | | | Q22 | | | | | | | | | | Q23 | | | | | | | | Q24 | | Q24 IF NO | | | | | | | | |
|---|---|---

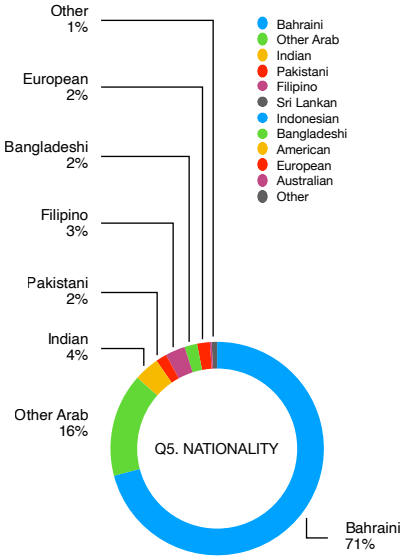
2. Questionnaire - Results

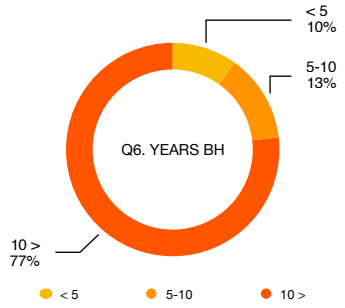
Demographic Data

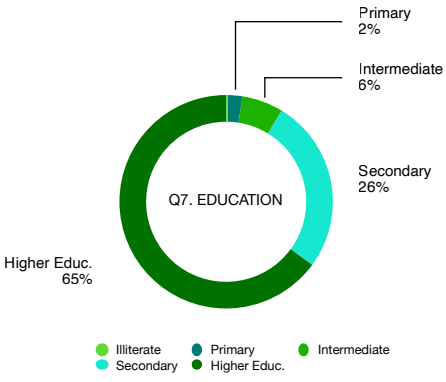


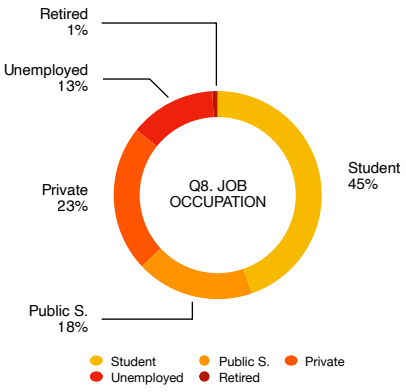


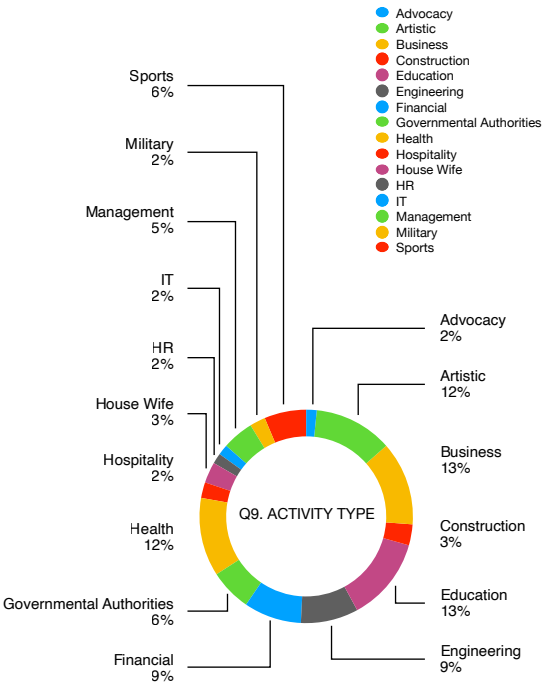


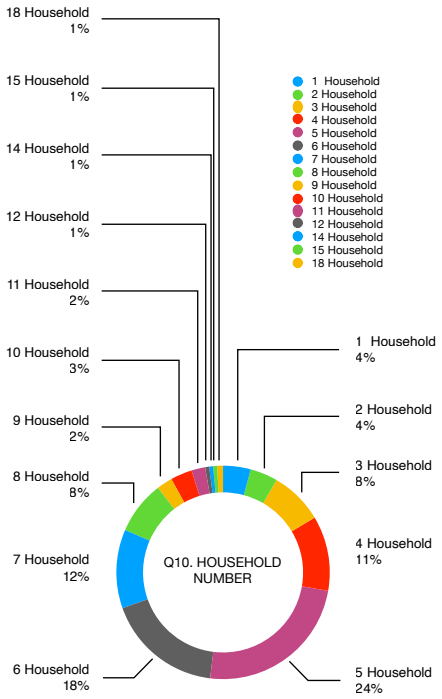


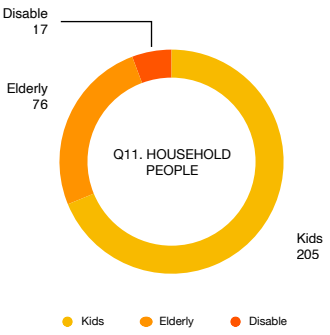


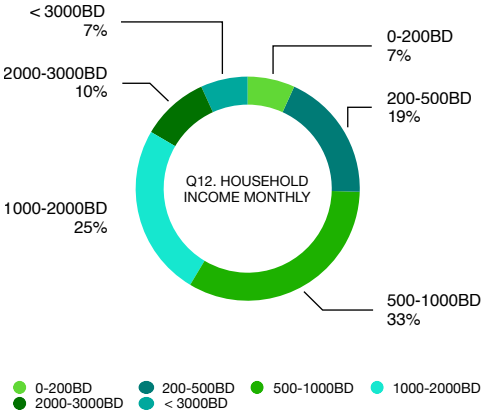




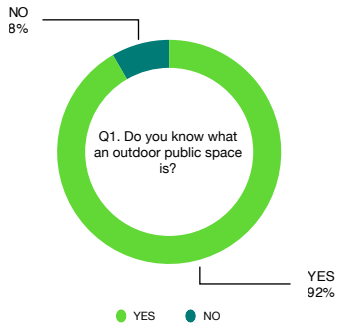

Advocacy
Artistic
Business
Construction
Education
Engineering
Financial
Governmental Authorities
Health
Hospitality
House Wife
HR
IT
Management
Military
Sports
Sports 6%
Military 2%
Management 5%
IT 2%
HR 2%
House Wife 3%
Hospitality 2%
Health 12%
Governmental Authorities 6%
Financial 9%
Advocacy 2%
Artistic 12%
Business 13%
Construction 3%
Education 13%
Engineering 9%
Q9. ACTIVITY TYPE

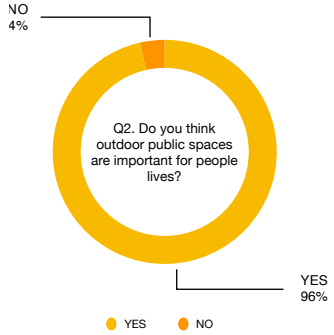

1 Household
2 Household
3 Household
4 Household
5 Household
6 Household
7 Household
8 Household
9 Household
10 Household
11 Household
12 Household
14 Household
15 Household
18 Household
18 Household 1%
15 Household 1%
14 Household 1%
12 Household 1%
11 Household 2%
10 Household 3%
9 Household 2%
8 Household 8%
7 Household 12%
6 Household 18%
1 Household 4%
2 Household 4%
3 Household 8%
4 Household 11%
5 Household 24%
Q10. HOUSEHOLD NUMBER

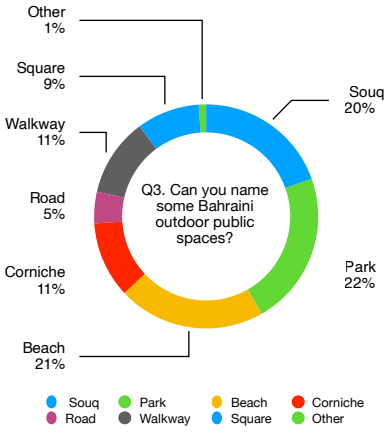

Disable 17
Elderly 76
Kids 205
Q11. HOUSEHOLD PEOPLE
Kids
Elderly
Disable

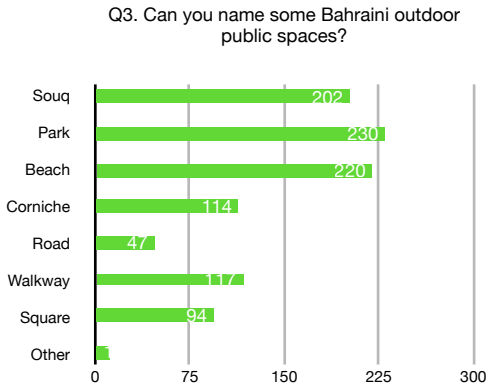

< 3000BD 7%
2000-3000BD 10%
1000-2000BD 25%
0-200BD 7%
200-500BD 19%
500-1000BD 33%
Q12. HOUSEHOLD INCOME MONTHLY
0-200BD
200-500BD
500-1000BD
1000-2000BD
2000-3000BD
< 3000BD

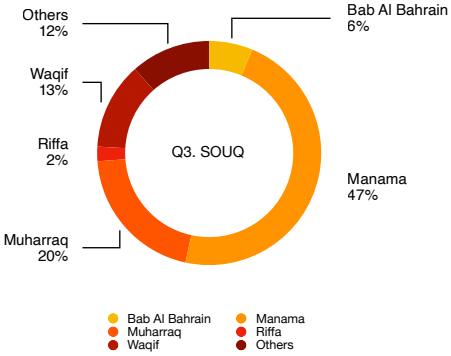
Public Open Spaces Data

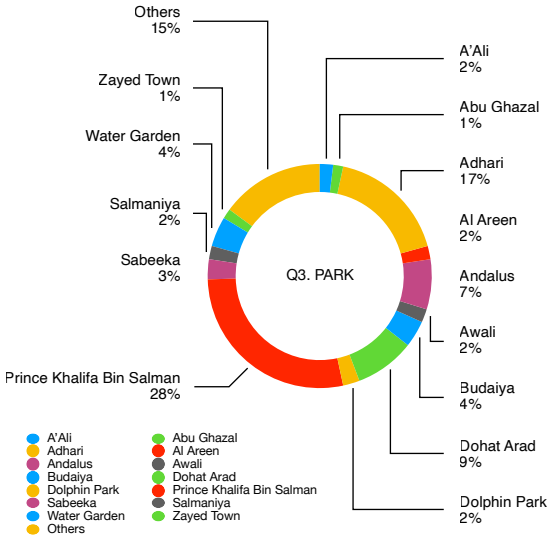


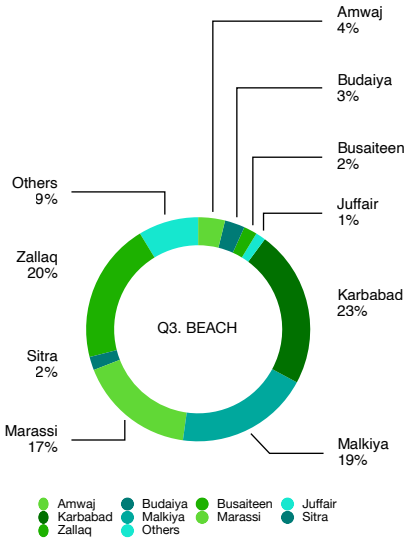


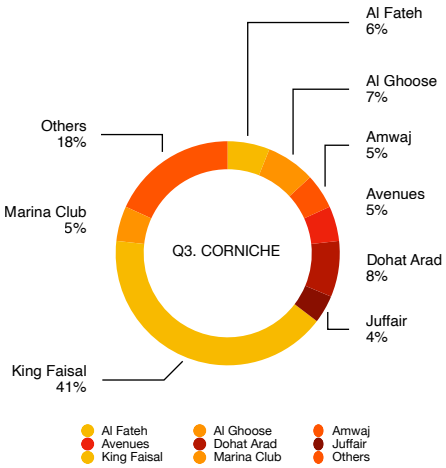


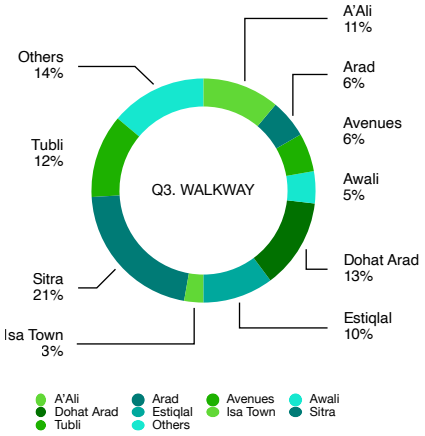


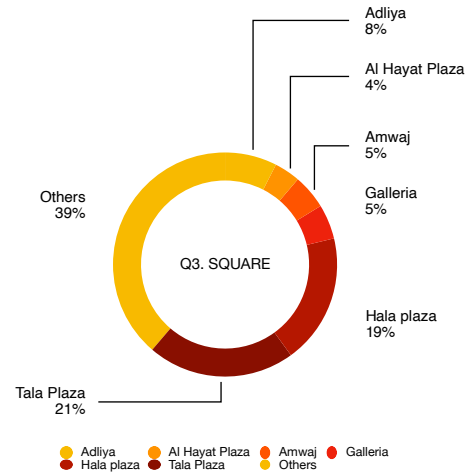


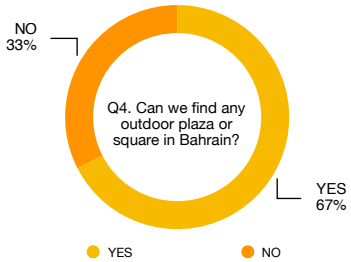



Amwaj
4%
Budaiya
3%
Busaiteen
2%
Juffair
1%
Karbabad
23%
Malkiya
19%
Marassi
17%
Sitra
2%
Zallaq
20%
Others
9%
Q3. BEACH
Amwaj
Budaiya
Busaiteen
Juffair
Karbabad
Malkiya
Marassi
Sitra
Zallaq
Others

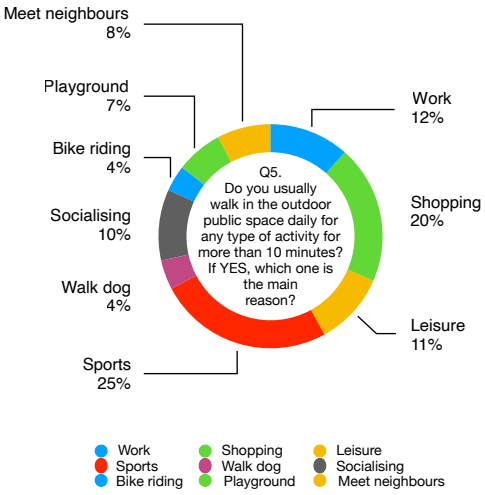

Al Fateh
6%
Al Ghoose
7%
Amwaj
5%
Avenues
5%
Dohat Arad
8%
Juffair
4%
King Faisal
41%
Marina Club
5%
Others
18%
Q3. CORNICHE
Al Fateh
Al Ghoose
Amwaj
Avenues
Dohat Arad
Juffair
King Faisal
Marina Club
Others

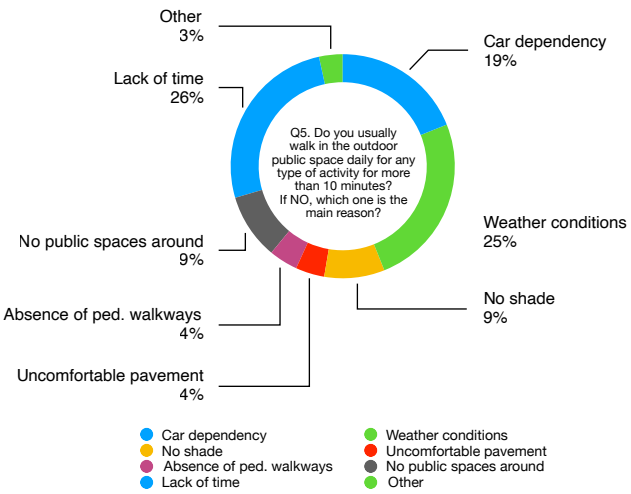

A'Ali
11%
Arad
6%
Avenues
6%
Awali
5%
Dohat Arad
13%
Estiqlal
10%
Isa Town
3%
Sitra
21%
Tubli
12%
Others
14%
Q3. WALKWAY
A'Ali
Arad
Avenues
Awali
Dohat Arad
Estiqlal
Isa Town
Sitra
Tubli
Others

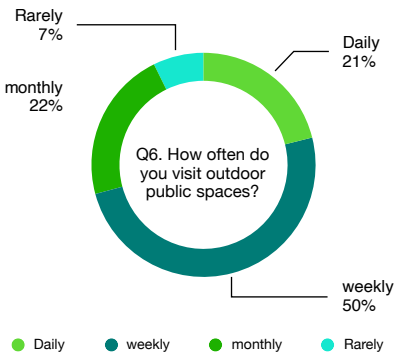

Adliya
8%
Al Hayat Plaza
4%
Amwaj
5%
Galleria
5%
Hala plaza
19%
Tala Plaza
21%
Others
39%
Q3. SQUARE
Adliya
Al Hayat Plaza
Amwaj
Galleria
Hala plaza
Tala Plaza
Others

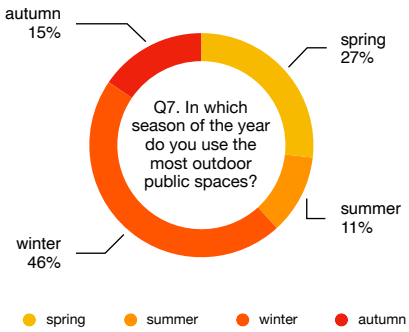

NO
33%
YES
67%
Q4. Can we find any outdoor plaza or square in Bahrain?
YES
NO

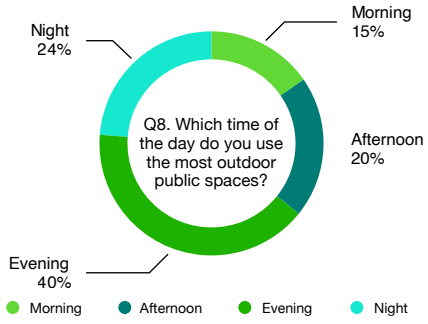

NO
41%
YES
59%
Q5. Do you usually walk in the outdoor public space daily for any type of activity for more than 10 minutes?
YES
NO

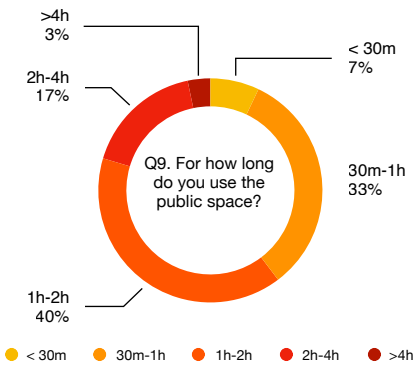

Meet neighbours
8%
Playground
7%
Bike riding
4%
Socialising
10%
Walk dog
4%
Sports
25%
Work
12%
Shopping
20%
Leisure
11%
Q5.
Do you usually walk in the outdoor public space daily for any type of activity for more than 10 minutes?
If YES, which one is the main reason?
Work
Sports
Bike riding
Shopping
Walk dog
Playground
Leisure
Socialising
Meet neighbours

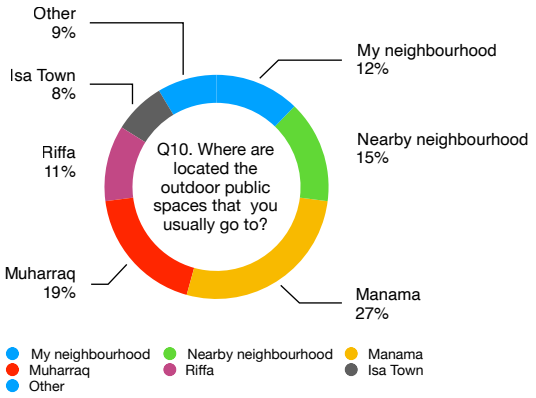

Other
3%
Lack of time
26%
No public spaces around
9%
Absence of ped. walkways
4%
Uncomfortable pavement
4%
Car dependency
19%
Weather conditions
25%
No shade
9%
Q5. Do you usually walk in the outdoor public space daily for any type of activity for more than 10 minutes?
If NO, which one is the main reason?
Car dependency
No shade
Absence of ped. walkways
Lack of time
Weather conditions
Uncomfortable pavement
No public spaces around
Other

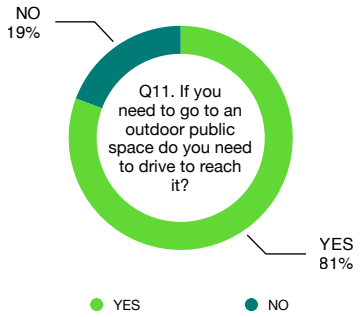

Rarely
7%
monthly
22%
Daily
21%
weekly
50%
Q6. How often do you visit outdoor public spaces?
Daily
weekly
monthly
Rarely

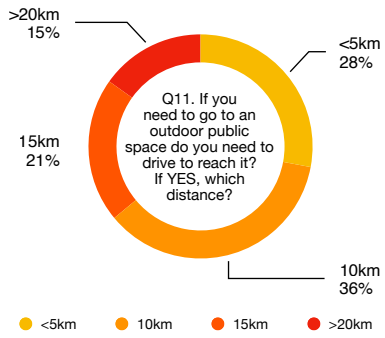

autumn
15%
spring
27%
summer
11%
winter
46%
Q7. In which season of the year do you use the most outdoor public spaces?
spring
summer
winter
autumn

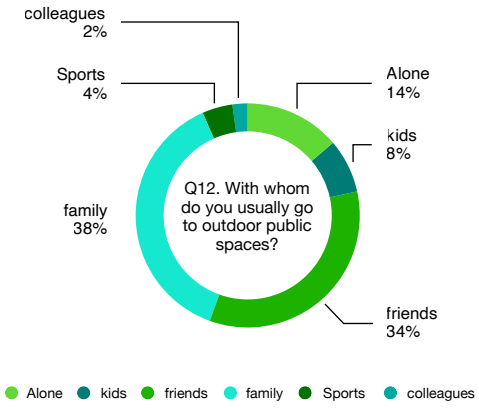

Night
24%
Morning
15%
Afternoon
20%
Evening
40%
Q8. Which time of the day do you use the most outdoor public spaces?
Morning
Afternoon
Evening
Night

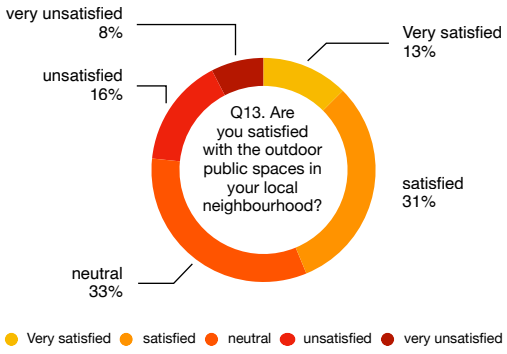

>4h
3%
2h-4h
17%
1h-2h
40%
< 30m
7%
30m-1h
33%
Q9. For how long do you use the public space?
< 30m
30m-1h
1h-2h
2h-4h
>4h

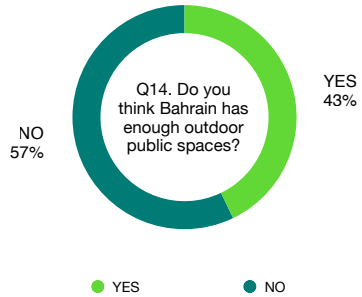

Other
9%
My neighbourhood
12%
Isa Town
8%
Nearby neighbourhood
15%
Riffa
11%
Q10. Where are located the outdoor public spaces that you usually go to?
Muharraq
19%
Manama
27%
My neighbourhood
Nearby neighbourhood
Manama
Muharraq
Riffa
Isa Town
Other

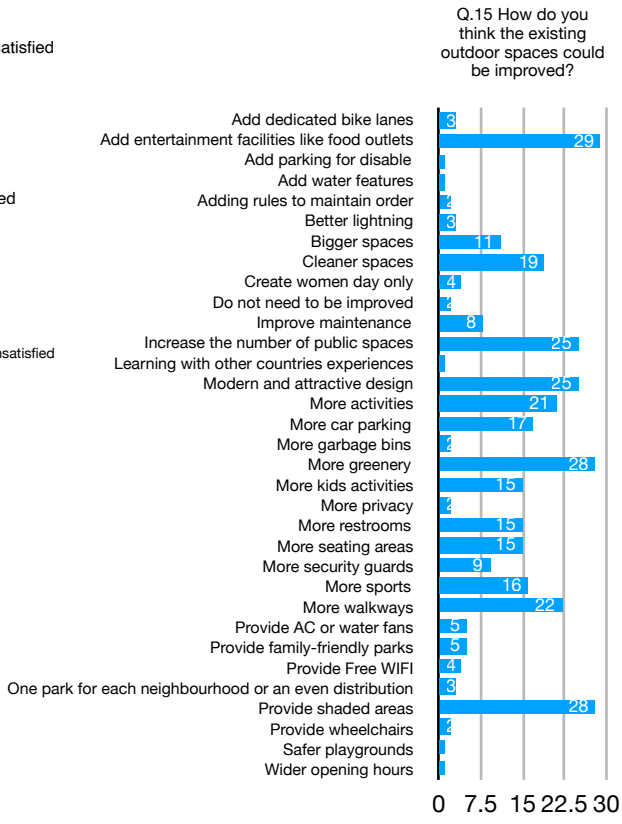

NO
19%
Q11. If you need to go to an outdoor public space do you need to drive to reach it?
YES
81%
YES
NO

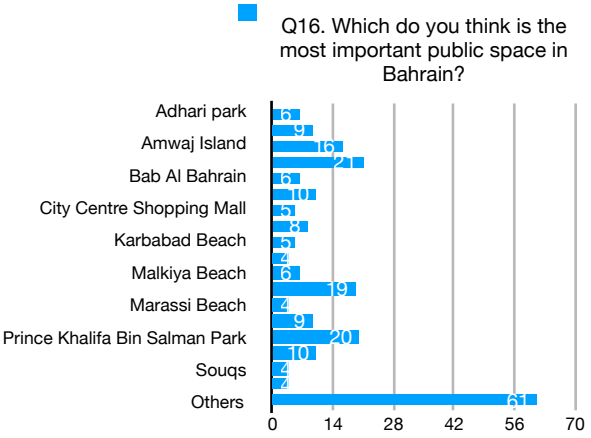

>20km
15%
<5km
28%
Q11. If you need to go to an outdoor public space do you need to drive to reach it? If YES, which distance?
15km
21%
10km
36%
<5km
10km
15km
>20km

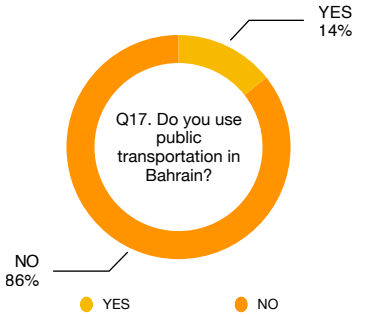

colleagues
2%
Sports
4%
Alone
14%
kids
8%
Q12. With whom do you usually go to outdoor public spaces?
family
38%
friends
34%
Alone
kids
friends
family
Sports
colleagues

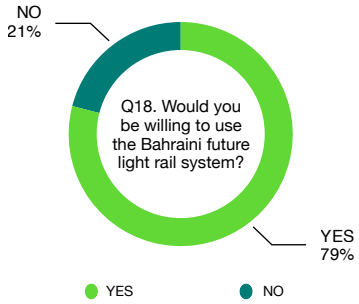

very unsatisfied
8%
Very satisfied
13%
unsatisfied
16%
Q13. Are you satisfied with the outdoor public spaces in your local neighbourhood?
satisfied
31%
neutral
33%
Very satisfied
satisfied
neutral
unsatisfied
very unsatisfied

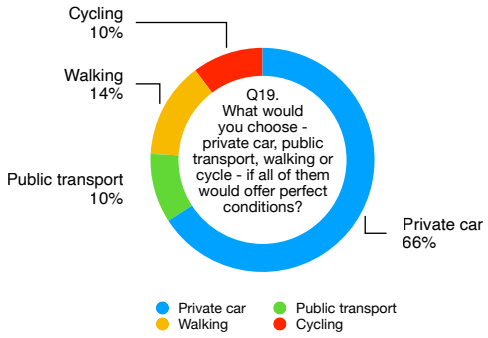

Q14. Do you think Bahrain has enough outdoor public spaces?
YES
43%
NO
57%
YES
NO

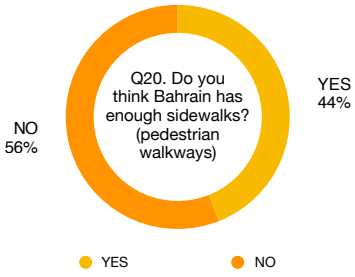

Q.15 How do you think the existing outdoor spaces could be improved?
Add dedicated bike lanes
Add entertainment facilities like food outlets
Add parking for disable
Add water features
Adding rules to maintain order
Better lightning
Bigger spaces
Cleaner spaces
Create women day only
Do not need to be improved
Improve maintenance
Increase the number of public spaces
Learning with other countries experiences
Modern and attractive design
More activities
More car parking
More garbage bins
More greenery
More kids activities
More privacy
More restrooms
More seating areas
More security guards
More sports
More walkways
Provide AC or water fans
Provide family-friendly parks
Provide Free WIFI
One park for each neighbourhood or an even distribution
Provide shaded areas
Provide wheelchairs
Safer playgrounds
Wider opening hours
3
29
1
1
3
3
11
19
4
1
8
25
1
25
21
17
3
28
15
3
15
15
9
16
22
5
5
4
3
28
3
1
1
0
7.5
15
22.5
30

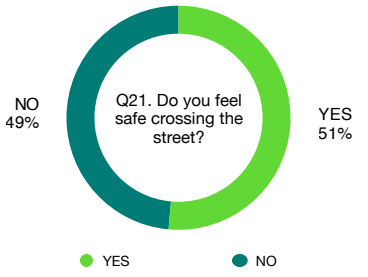

Q16. Which do you think is the most important public space in Bahrain?
Adhari park
Amwaj Island
Bab Al Bahrain
City Centre Shopping Mall
Karbabad Beach
Malkiya Beach
Marassi Beach
Prince Khalifa Bin Salman Park
Souqs
Others
6
9
16
21
6
10
5
3
5
4
6
19
4
9
20
10
4
4
61
0
14
28
42
56
70

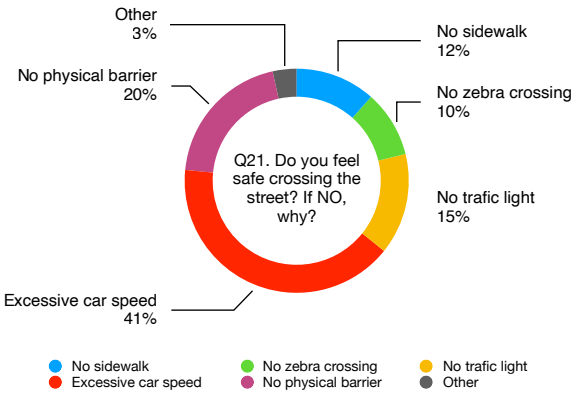

YES
14%
Q17. Do you use public transportation in Bahrain?
NO
86%
YES
NO

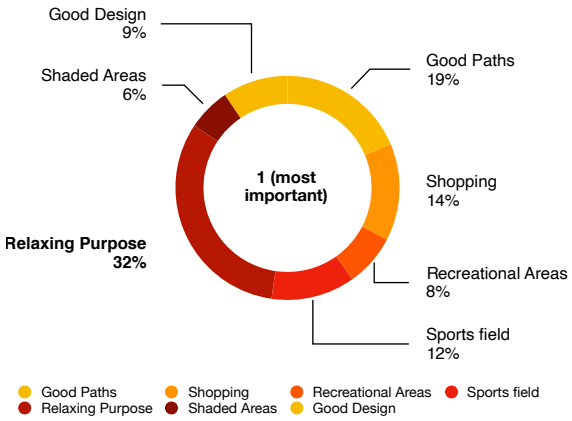

NO
21%
Q18. Would you be willing to use the Bahraini future light rail system?
YES
79%
YES
NO

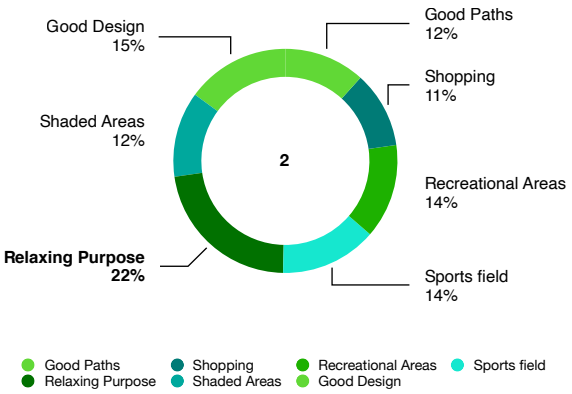

Cycling
10%
Walking
14%
Public transport
10%
Q19. What would you choose - private car, public transport, walking or cycle - if all of them would offer perfect conditions?
Private car
66%
Private car
Public transport
Walking
Cycling

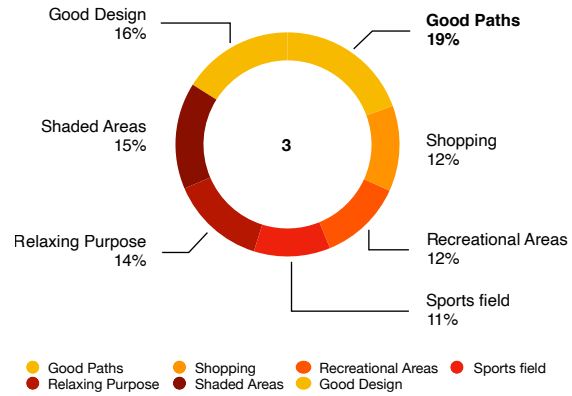

NO
56%
Q20. Do you think Bahrain has enough sidewalks? (pedestrian walkways)
YES
44%
YES
NO

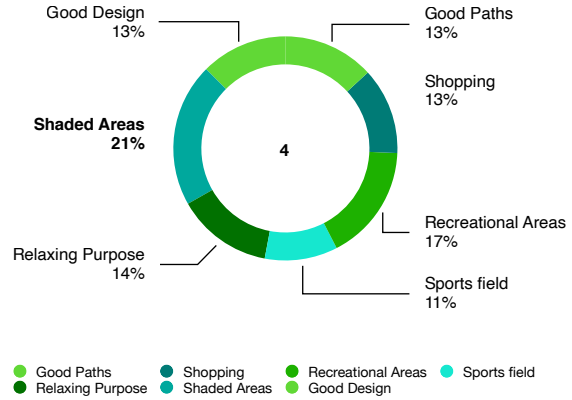

NO
49%
Q21. Do you feel safe crossing the street?
YES
51%
YES
NO

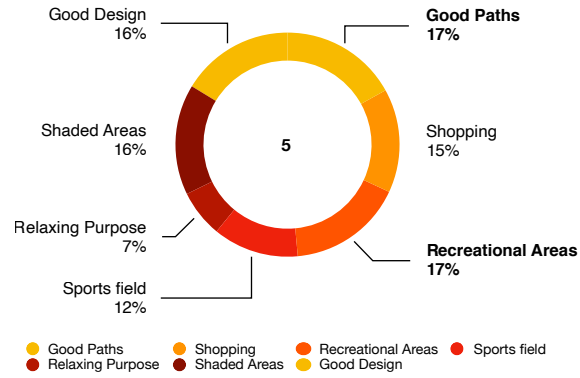

Other
3%
No sidewalk
12%
No physical barrier
20%
No zebra crossing
10%
Q21. Do you feel safe crossing the street? If NO, why?
No trafic light
15%
Excessive car speed
41%
No sidewalk
No zebra crossing
No trafic light
Excessive car speed
No physical barrier
Other

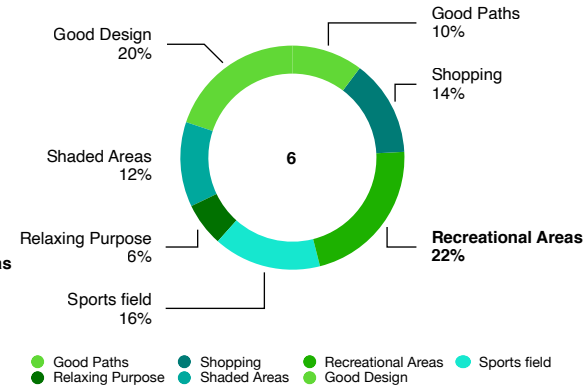

Good Design
9%
Shaded Areas
6%
Relaxing Purpose
32%
Good Paths
19%
Shopping
14%
Recreational Areas
8%
Sports field
12%
1 (most important)
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design

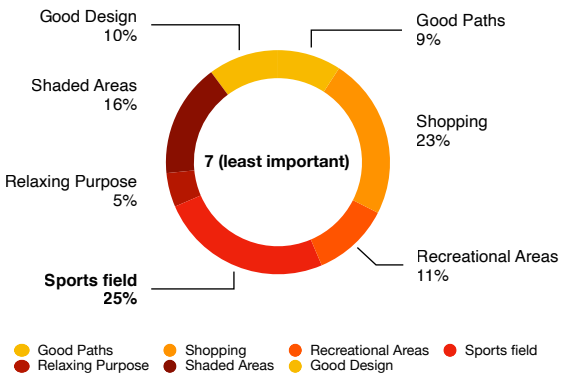

Good Design
15%
Shaded Areas
12%
Relaxing Purpose
22%
Good Paths
12%
Shopping
11%
Recreational Areas
14%
Sports field
14%
2
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design


Good Design
16%
Shaded Areas
15%
Relaxing Purpose
14%
Good Paths
19%
Shopping
12%
Recreational Areas
12%
Sports field
11%
3
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design


Good Design
13%
Shaded Areas
21%
Relaxing Purpose
14%
Good Paths
13%
Shopping
13%
Recreational Areas
17%
Sports field
11%
4
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design


Good Design
16%
Shaded Areas
16%
Relaxing Purpose
7%
Sports field
12%
Good Paths
17%
Shopping
15%
Recreational Areas
17%
5
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design

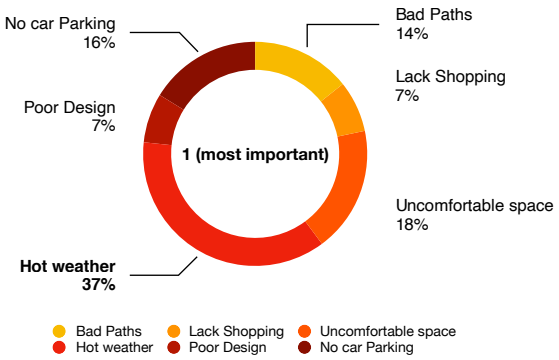

Good Design
20%
Shaded Areas
12%
Relaxing Purpose
6%
Sports field
16%
Good Paths
10%
Shopping
14%
Recreational Areas
22%
6
Good Paths
Shopping
Recreational Areas
Sports field
Relaxing Purpose
Shaded Areas
Good Design

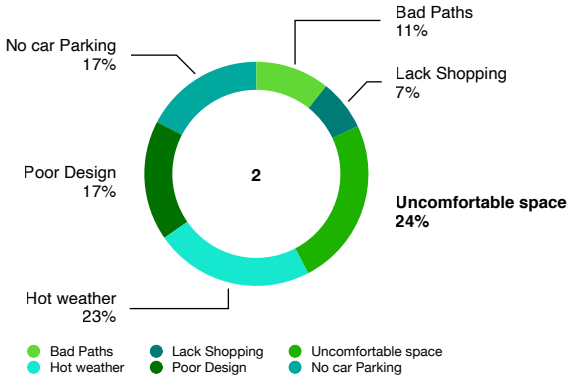


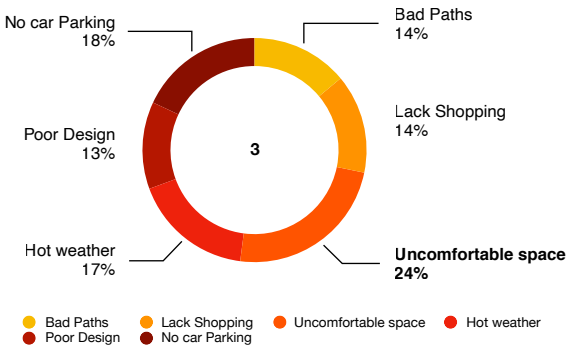
Q23.

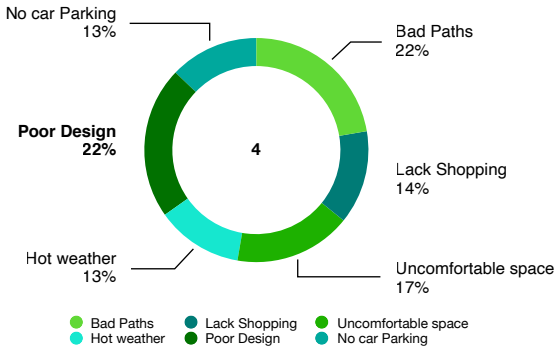
What would stop you from using the outdoor public space?

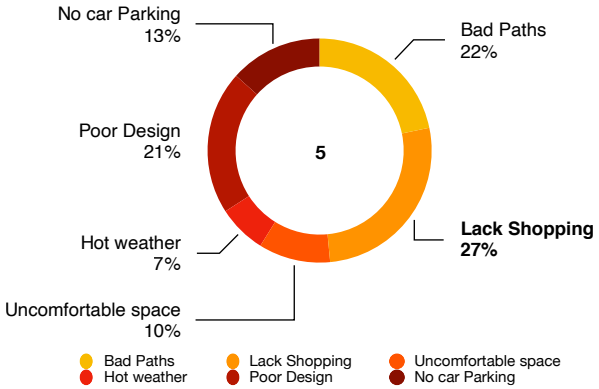
Please choose from 1 to 6 which is the most important, where 1 is the most important and 6 the least.

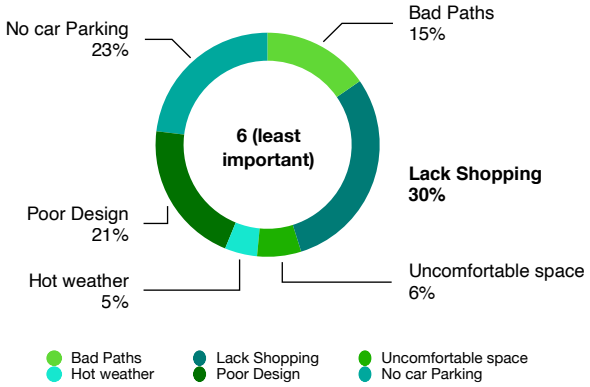




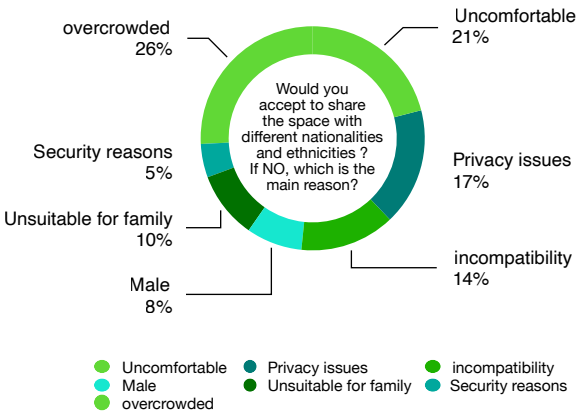





No car Parking
13%
Bad Paths
22%
Poor Design
21%
5
Hot weather
7%
Lack Shopping
27%
Uncomfortable space
10%
Bad Paths
Hot weather
Lack Shopping
Poor Design
Uncomfortable space
No car Parking


No car Parking
23%
Bad Paths
15%
6 (least
important)
Lack Shopping
30%
Poor Design
21%
Hot weather
5%
Uncomfortable space
6%
Bad Paths
Hot weather
Lack Shopping
Poor Design
Uncomfortable space
No car Parking


NO
23%
Q24. Would
you accept to
share the space
with different
nationalities and
ethnicities ?
YES
77%
YES
NO


overcrowded
26%
Uncomfortable
21%
Would you
accept to share
the space with
different nationalities
and ethnicities ?
If NO, which is the
main reason?
Security reasons
5%
Privacy issues
17%
Unsuitable for family
10%
incompatibility
14%
Male
8%
Uncomfortable
Male
overcrowded
Privacy issues
Unsuitable for family
incompatibility
Security reasons

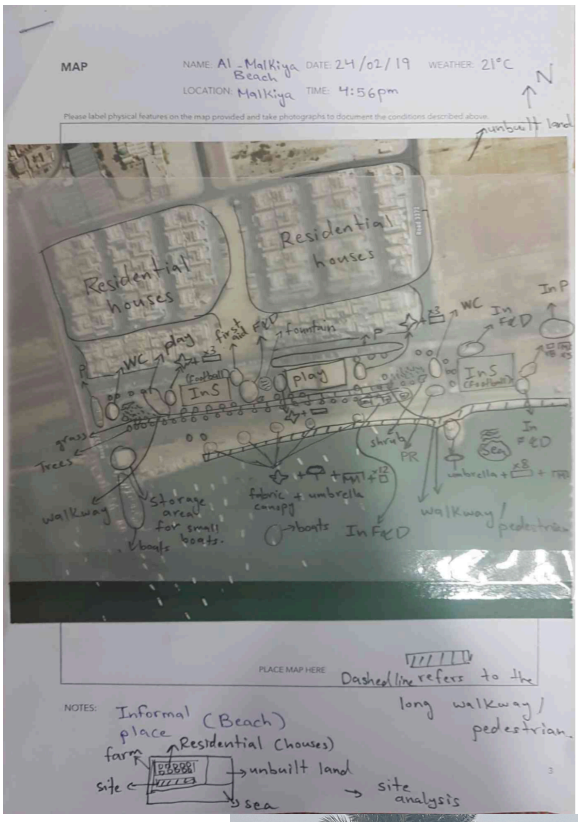
3. Survey List of Informal and Formal Public Space

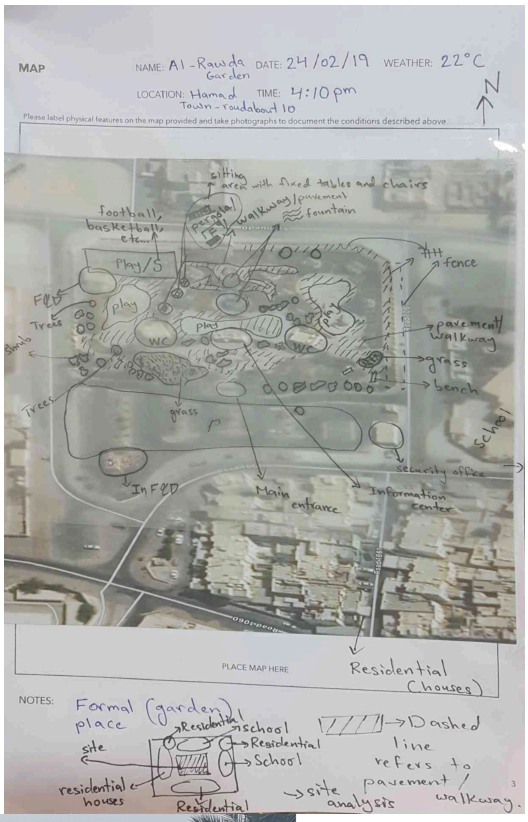
	INFORMAL		FORMAL	
	Name	Location	Name	Location
S1_001	SLIDERS FOOD TRUCK		BAHRAIN FARMERS MARKET	BUDAIYA
S1_002	STREET VENDING	EAST RIFFA ; ROAD 311	AL DAIHA GARDEN	WEST RIFFA
S1_003	MALKIYA BEACH	MALKIYA	AL RAWDA GARDEN	HAMAD TOWN ROUNDABOUT 10
S1_004	KARBABAD BEACH	KARBABAD	GUFOOL PARK GARDEN	GUFOOL
S1_005	GOURMET WAY FOOD TRUCK			
S1_006	THE FORGE - FOOD TRUCK	ROAD 1061	PARK 55	HAMAD TOWN
S1_007	SLIDERS - FOOD TRUCK	AVENUE 27	SQUARE SALMABAD	SALMABAD
S1_008	SOCCER FIELD	JEBLAT HABSHI	ARGAN VILLAGE	BUQUWAH
S1_009	7 DEGREES - FOOD TRUCK	AMWAJ - PARKING LOT	HIDD PARK	HIDD
S1_010	KARBABAD BEACH	KARBABAD	SEEF GARDEN	SEEF
S1_011	BURGER BOUTIQUE TRUCK	SEEF	AVENUES PARK	BAHRAIN BAY
S1_012	EMPTY PLOT WITH BAHARA AND CRICKET	GALALI (NEXT TO GALALI CLUB)	GALALI PARK	GALALI
S1_013	JIDHAFS MARKET	JIDHAFS	JEBLET HABSHI PARK	ROAD 3513
S1_014	FAMILY CAMPING IN SAKHIR	SAKHIR	NOON GARDEN	RIFFA
S1_015	SAKURA SUSHI FOOD TRUCK	SALMABAD	ALBAWARA GARDEN	MANAMA
S1_016	SLIDERS - FOOD TRUCK	SAKHIR	ABU GHAZAL GARDEN	ABU GHAZAL
S1_017	CAFFEINATED - FOOD TRUCK	JANABIYA - EL MERCADO	JEBALAT HIBSHI PARK	ROAD 3307
S1_018	BAHARA EMPTY PLOT	ROAD 3851 - NEXT ROUNDABOUT	PARK	ROAD 3205
S2_005	GRIDDLE | THE FORGE - BAHARA	AL JANABIYA	ALWAFA GARDEN	EAST RIFFA
S2_006	PATOL 13	DURRAT AL BAHRAIN	PATOL 4	DURRAT AL BAHRAIN
S2_007	MONDAY SOUQ	SANAD - SANAD PRIMARY BOYS SCHOOL	JIDALI PARK	JIDALI
S2_008	BAHARA	HAMAD TOWN ROAD 823	AL RAWDA GARDEN	HAMAD TOWN AVENUE 10
S2_009	KARBABAD BEACH	KARBABAD	ARGAN VILLAGE	BU QUWAH
S2_010	MALKIYA BEACH	MALKIYA	PRINCE KHALIFA PARK	AL HIDD
S2_011	KARBABAD BEACH	KARBABAD	HALA PLAZA	SEGAYA | MANAMA
S2_012	ZALLAQ STREET	ZALLAQ	KHALIFA GARDEN	EAST RIFFA
S2_013	STREET VENDING	JID ALI	TUBLI WALKWAY	TUBLI
S2_014	BAHARA EMPTY PLOT	SANAD | AVENUE 77	KHALIFA AL KUBRA	RIFFA
S2_015	SOUQ AL ATHNEN - MONDAY SOUQ	SANAD | AVENUE 77	JURDAB GARDEN	JURDAB
S2_016	GRIDDLE | THE FORGE - BAHARA	HAMALA	AL JANABIYAH'S GARDEN	AL JANABIYAH
S2_017	ROAD 27 - FOOD TRUCKS	AL JANABIYA | EL MERCADO	AL JANABIYAH'S GARDEN	AL JANABIYAH
S3_001	AL JUFFAIR BEACH	JUFFAIR	PRINCE KHALIFA PARK	HIDD
S3_002	MARASSI BEACH	DIYAR AL MUHARRAQ	AL ESTIQLAL JOGGING PARK	RIFFA
S3_003	FOOD TRUCKS EL MERCADO	JANABIYA - EL MERCADO	ABU SUBH PARK	DIRAZ
S3_004	BUDAIYA BEACH INFORMAL -SIDE	BUDAIYA	BUDAIYA BEACH PARK	BUDAIYA

	INFORMAL		FORMAL	
	Name	Location	Name	Location
S3_005	AL GOOSE BEACH	MUHARRAQ	AL GOOSE CORNICHE	MUHARRAQ
S3_006	KARBABAD BEACH	KARBABAD	BAHRAIN FARMERS MARKET	BUDAIYA
S3_007	MALKIYA BEACH	MALKIYA	A'ALI WALKING AREA	A'ALI
S3_008	ADHARI PARK	ADHARI	BAHRAIN FORT	KARBABAD
S3_009	THURSDAY SOUQ		AL RAWDA GARDEN	
S3_010	JUFFAIR INFORMAL BEACH	JUFFAIR	DOHAT ARAD	MUHARRAQ
S3_011	MANAMA INFORMAL CRICKET	MANAMA	AVENUES PARK	MANAMA
S5_001	MALKIYA BEACH	MALKIYA	BUDAIYA BEACH PARK	BUDAIYA
S5_002	FARM FRESH VEGETABLES	MANAMA, ROAD 3301	HALA PLAZA	MANAMA
S5_003	MALKIYA BEACH	MALKIYA	RIFFA WALK PARK	EAST RIFFA
S5_004	JAWAD DOME	BARBAR	AVENUES PARK	MANAMA
S5_005	ISA TOWN TRADITIONAL MARKET	ISA TOWN	A'ALI GRAND PARK	A'ALI
S5_006	BAHRAIN FORT	KARBABAD	ALHOOR GARDEN	A'ALI
S5_007	STARBUCKS COFFEE	JANABIYA	EL MERCADO COURTYARD	JANABIYA
S5_008	WATER GARDEN	SEEF	SITRA WALKWAY	SITRA
S5_009	KARZAKAN BEACH	MALKIYA	ISA TOWN GARDEN	ISA TOWN
S5_010	MALKIYA BEACH	MALKIYA	AL RAWDA GARDEN	HAMAD TOWN
S5_011	COAST GARD BARAHA - KAFR AL-SAWAHEL	MUHARRAQ	DOHAT ARAD	MUHARRAQ
S5_012	BAHARA JUFFAIR	JUFFAIR	ANDALUS GARDEN	MANAMA
S5_013	JASMIS MUHARRAQ		ARAD PARK	MUHARRAQ
S5_014	KARBABAD BEACH	KARBABAD	JUFFAIR GARDEN	JUFFAIR
S6_001			SITRA WALKWAY	SITRA
S6_002	GARDEN NEXT TO KHAIR MOSQUE	HAMAD TOWN, ROAD 608	PRINCESS SABEEKA PARK	HAMAD TOWN, ROAD 608
S6_003	MUHARRAQ SOUQ	MUHARRAQ	DOHAT ARAD	MUHARRAQ
S6_004	SLIDERS - FOOD TRUCK	SAAR	WATER GARDEN CITY	MANAMA
S6_005	FOOD TRUCK HAMALA BSB	HAMALA		
S6_006	BAHARA EMPTY PLOT	GALALI (NEXT TO AIRPORT)	PRINCE KHALIFA BIN SALMAN PARK	HIDD
S6_007	ZALLAQ BEACH	ZALLAQ	HUNAINIYAH PARK	RIFFA
S6_008				
S6_009	FOOD TRUCKS | EMPTY PLOT KARRANA	KARRANA (NEXT TO THE PRIMARY GIRLS SCHOOL AND ROUNDABOUT ON THE LEFT	ABU SUBH PARK	AL DURAZ (NEXT TO THE MOSQUE)
S6_010	EMPTY PLOT | EXHIBITION ROAD	MANAMA	HOORA PARK	HOORA MANAMA
S6_011	FOOD TRUCKS	BUSAITEEN	MUHARRAQ CORNICHE	MUHARRAQ
S6_012	EMPTY PLOT SPORTS - VOLLEYBALL AND FOOTBALL (NEXT TO MATERIALS ENGINEERING DIRECTORATE - MED	JUFFAIR	CORAL BAY RESORT BAHRAIN	MANAMA
S6_013	JAZAIR BEACH INFORMAL (AVENUE)	ZALLAQ	KHALIFA AL KUBRA	RIFFA
S6_014	TREE OF LIFE	RIFFA	RIFFA WALK PARK	RIFFA

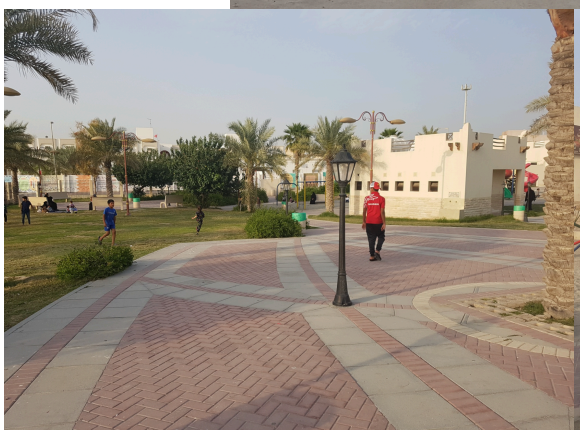
	INFORMAL		FORMAL	
	Name	Location	Name	Location
S6_016	KARBABAD BEACH	KARBABAD	SEEF GARDEN	SEEF
S6_017	MALKIYA BEACH	MALKIYA	BUDAIYA BEACH PARK	BUDAIYA
S6_018				
S6_019			AIN KASSARI PARK	BILAD AL-QADEEN
S7_001	ARABIAN TEXT	ALJAIRA		
S7_002	QUDAIBIYA INFORMAL FISH MARKET	QUDAIBIYA	AL KHUDER GARDEN	QUDAIBIYA
S7_003	NEAR SITRA	26*10'10.8N ; 50*35'53.6"E ; SITRA	ORNAMENTAL GARDEN	ADLIYA
S7_004	INFORMAL BAHARA JUFFAIR	JUFFAIR	JUFFAIR GARDEN	JUFFAIR
S7_005	NEAR UM ISHOOM PARK	MAHOOZ; MANAMA; NEAR UM ISHOOM PARK	ISHOOM PARK	MAHOOZ
S7_006	FIFTY ROTARY PARK	HAMAD TOWN	PRINCE KHALIFA PARK	HIDD
S7_007	MALAK AKRAM SEA FRONT	HIDD	PRINCE KHALIFA PARK	HIDD
S7_008	FORGE - FOOD TRUCK	JANABIYA - EL MERCADO	PARK 55	HAMAD TOWN
S7_009			ARGAN VILLAGE	MANAMA
S7_010	AL KHAMES SOUQ	SANABIS	SANABIS SOUQ	SANABIS
S7_011	ALAA HANI	SANABIS		
S7_012	ROAD SANABIS	SANABIS		SANABIS
S7_013	CREPE STATION FOOD TRUCK	SANAD | AVENUE 77	MA'AMEER GARDEN	MA'AMEER

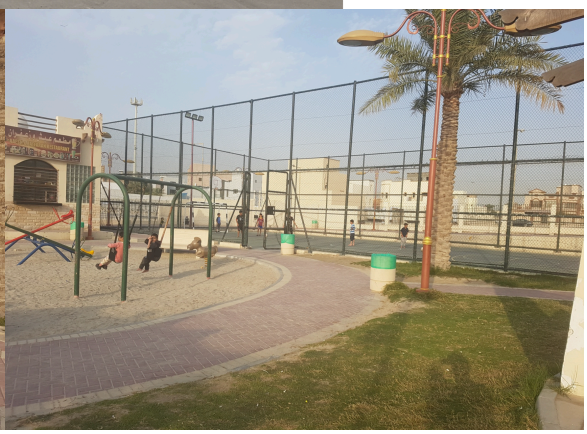
4. Samples of Public Space Inventory

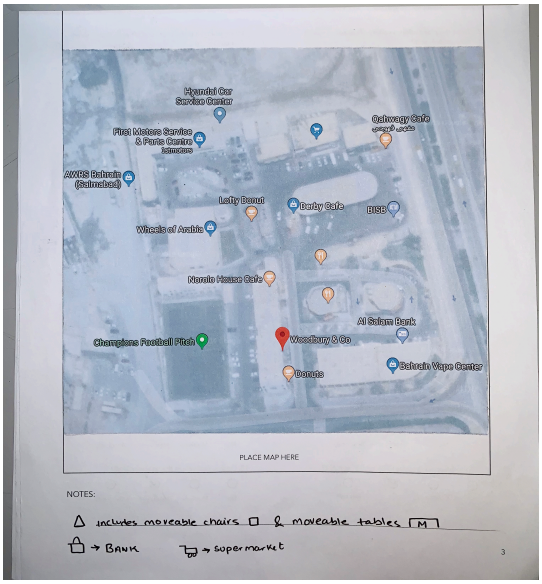


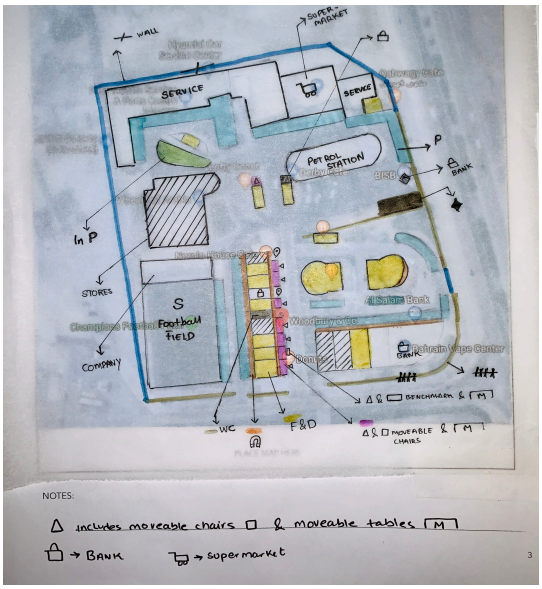


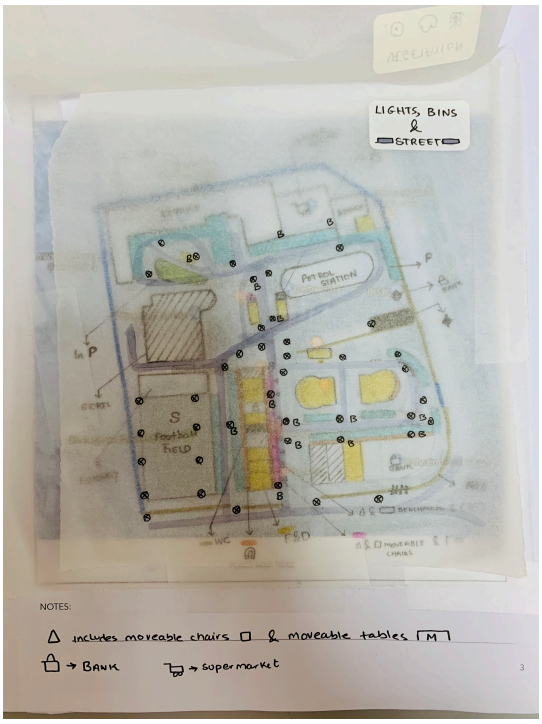






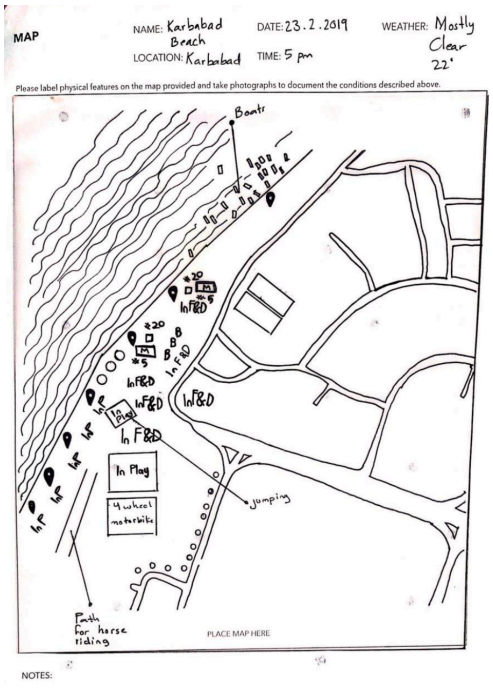

Hyundai Car Service Center
First Motors Service & Parts Centre
AWAS Bahrain (Salmabad)
Gateway Cafe
Lefty Donut
Barky Cafe
BISB
Wheels of Arabia
Nonno House Cafe
Al Salam Bank
Champions Football Pitch
Woodberry & Co
Bahrain Vape Center
Dantes
PLACE MAP HERE
NOTES:
△ includes moveable chairs □ & moveable tables [M]
→ BANK
→ supermarket
3

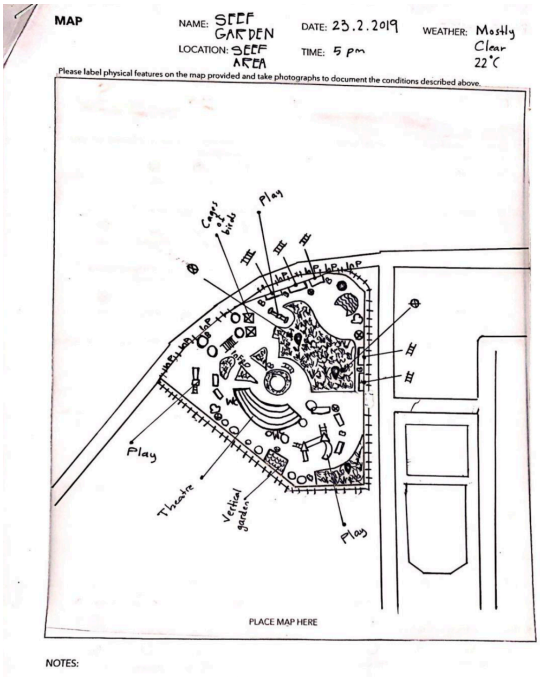

WALL
SUPER-MARKET
SERVICE
SERVICE
PETROL STATION
BISB
BANK
In P
STORES
COMPANY
S
Football FIELD
Al Salam Bank
Bahrain Vape Center
BENCHMARK
WC
F&D
MOVEABLE CHAIRS
NOTES:
△ includes moveable chairs □ & moveable tables [M]
→ BANK
→ supermarket
3

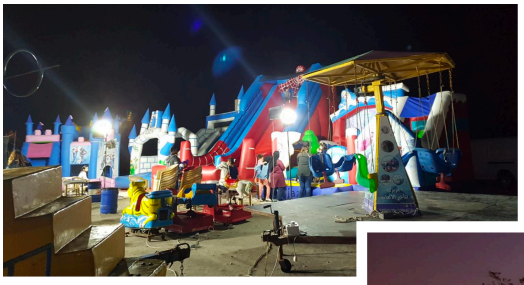

LIGHTS, BINS & STREET
PETROL STATION
In P
STORES
S
Football FIELD
BANK
BENCHMARK
WC
F&D
MOVEABLE CHAIRS
NOTES:
△ includes moveable chairs □ & moveable tables [M]
→ BANK
→ supermarket
3


MAP
NAME: THE SQUARE
DATE: 23/2/18
WEATHER: 22°C
LOCATION: SALMABAD
TIME: 5:02pm
Please label physical features on the map provided and take photographs to document the conditions described above.
VEGETATION
NOTES:
△ includes moveable chairs □ & moveable tables [M]
→ BANK
→ supermarket
3


Sliders

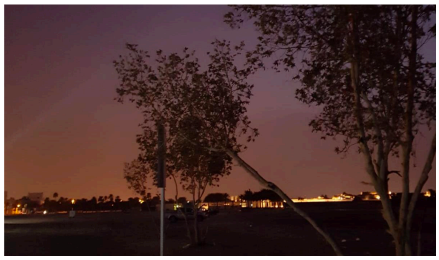

MAP
NAME: Karbabad Beach
LOCATION: Karbabad
DATE: 23.2.2019
TIME: 5 pm
WEATHER: Mostly Clear 22°
Please label physical features on the map provided and take photographs to document the conditions described above.
Boats
In F&D
In Play
4 wheel motorbike
Jumping
Path for horse riding
PLACE MAP HERE
NOTES:


MAP
NAME: SEEF GARDEN
LOCATION: SEEF AREA
DATE: 23.2.2019
TIME: 5 pm
WEATHER: Mostly Clear 22°C
Please label physical features on the map provided and take photographs to document the conditions described above.
Play
Cages of birds
Play
Theatre
Vertical garden
Play
PLACE MAP HERE
NOTES:



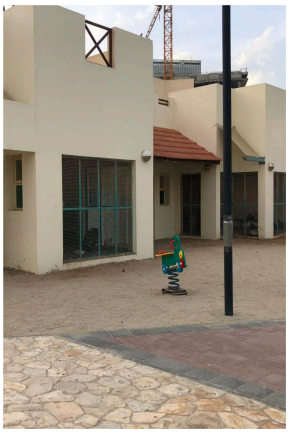


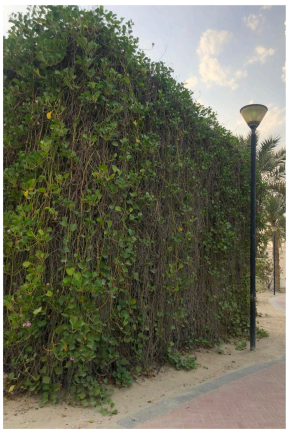




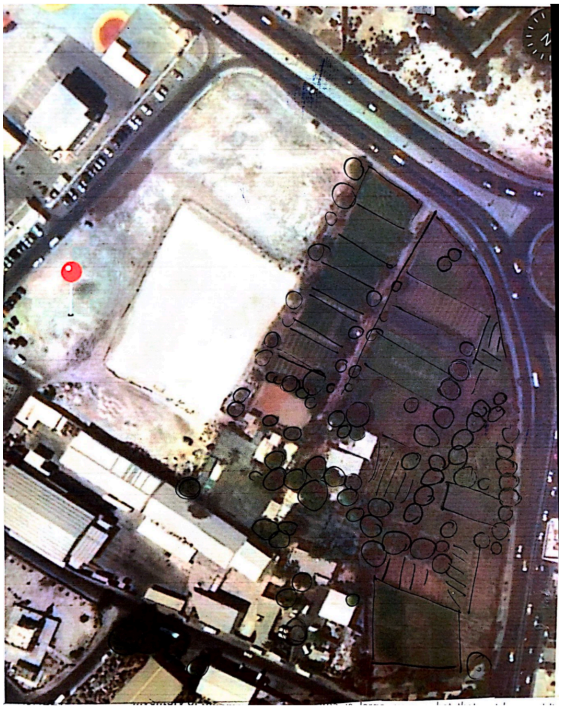









MAP
NAME: Soccer field
DATE: 22/2/19
WEATHER:
LOCATION: Soccer Jeblat Habshi
TIME: 4:30 PM
Please label physical features on the map provided and take photographs to document the conditions described above.
Schl
IN-P
IN-P
InS
PLACE MAP HERE
NOTES:
- Trasportation Service « AL Sadiq »
Schl - School
- Palm trunk
3











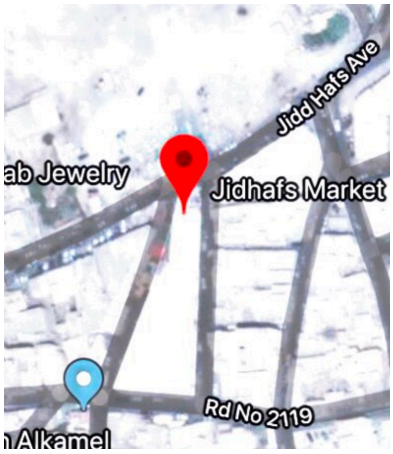


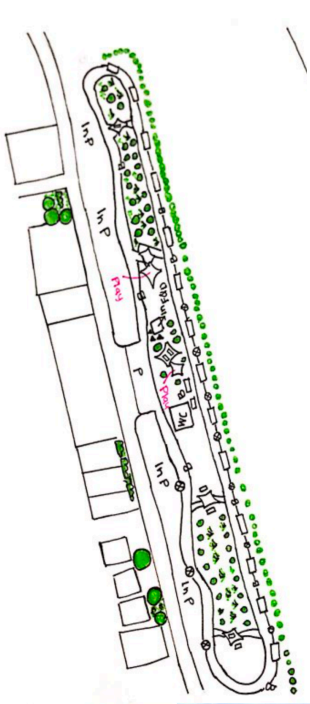


Informal space:Jidhafs Market

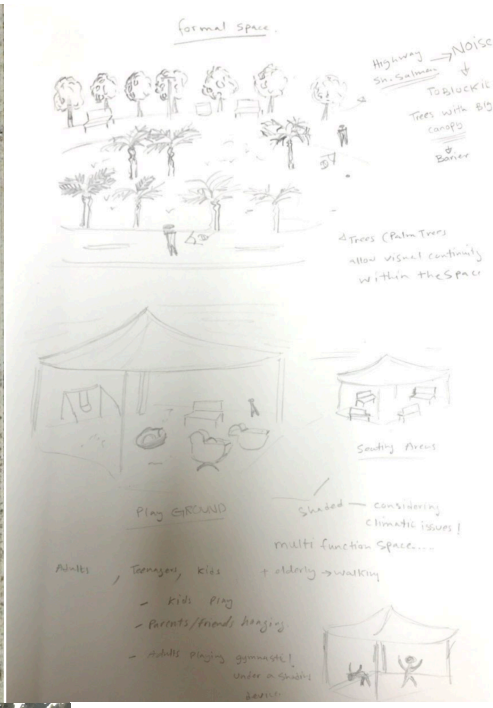






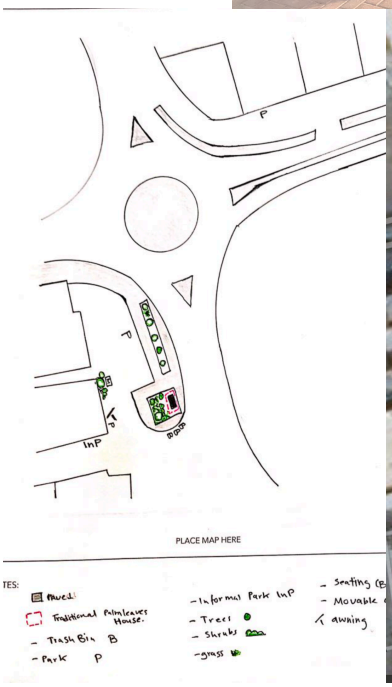

InP
InP
Play
Play
P
WC
InP
InP

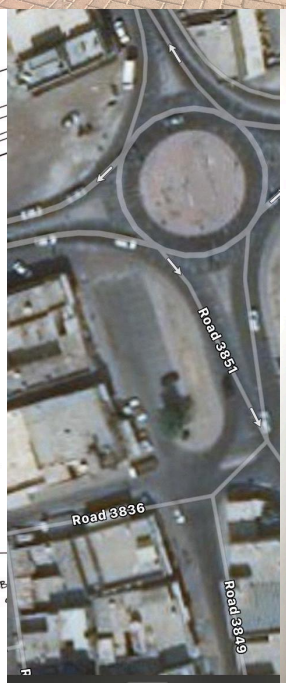

Road 3228
Road 3205
Road 3229
Road 3205
3229

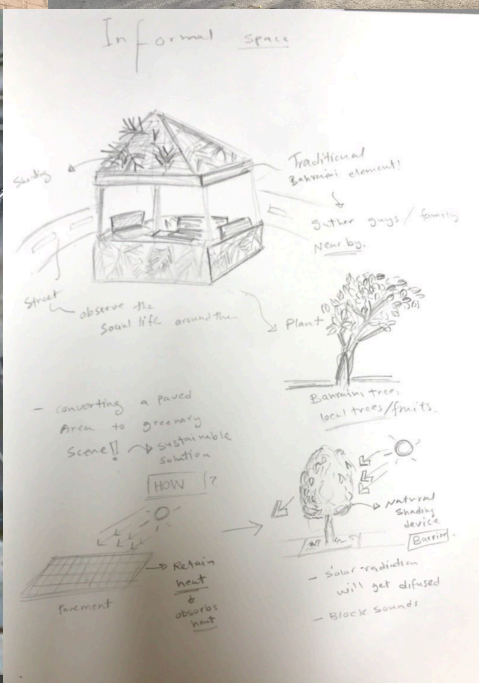

formal space
Highway Sh. Salman
Noise
To Block it
Trees with Big canopy
Barrier
Trees (Palm Trees allow visual continuity within the Space
Seating Areas
Play GROUND
Shaded — considering climatic issues!
multi function Space....
Adults, Teenagers, kids + elderly → walking
- kids play
- Parents/friends hanging
- Adults playing gymnastic! under a shading device






P
P
InP
PLACE MAP HERE
TES:
Paved
Traditional Palm leaves House.
- Trash Bin B
- Park P
- Informal Park InP
- Trees
- Shrubs
- grass
- Seating
- Movable
awning


Road 3851
Road 3836
Road 3849


Informal space
Shading
Traditional Bahraini element!
gather guys / family
Near by.
Street
observe the Social life around them
Plant
Bahraini trees local trees/fruits.
- converting a paved Area to greenary Scene!! → sustainable solution
HOW ?
Natural Shading device
Barrier
Retain heat
absorbs heat
Pavement
- Solar radiation will get difused
- Block sounds


ID#: 20175116
NAME: Fatima Sadeq
DATE: 23/2/19
WEATHER: Cool and windy
LOCATION: Alhawara Garden, Manama
TIME: 2:00pm
MAP
Sports Field
W.C
Play-ground
Guard Room
KEY:
1) seats / tables-
→ Bench
→ Moveable chairs
→ Fixed table
2) Vegetation-
→ Tree
→ Shrubs
→ Grass
3) Shade / Shelter-
→ Pergola
→ Fabric canopy
4) Amenities-
W.C → Public Bathroom
P → Parking
5) Physical Boundaries-
→ Planting
6) Various-
→ Rubbish Bin
→ Lighting
→ Residential Buildings



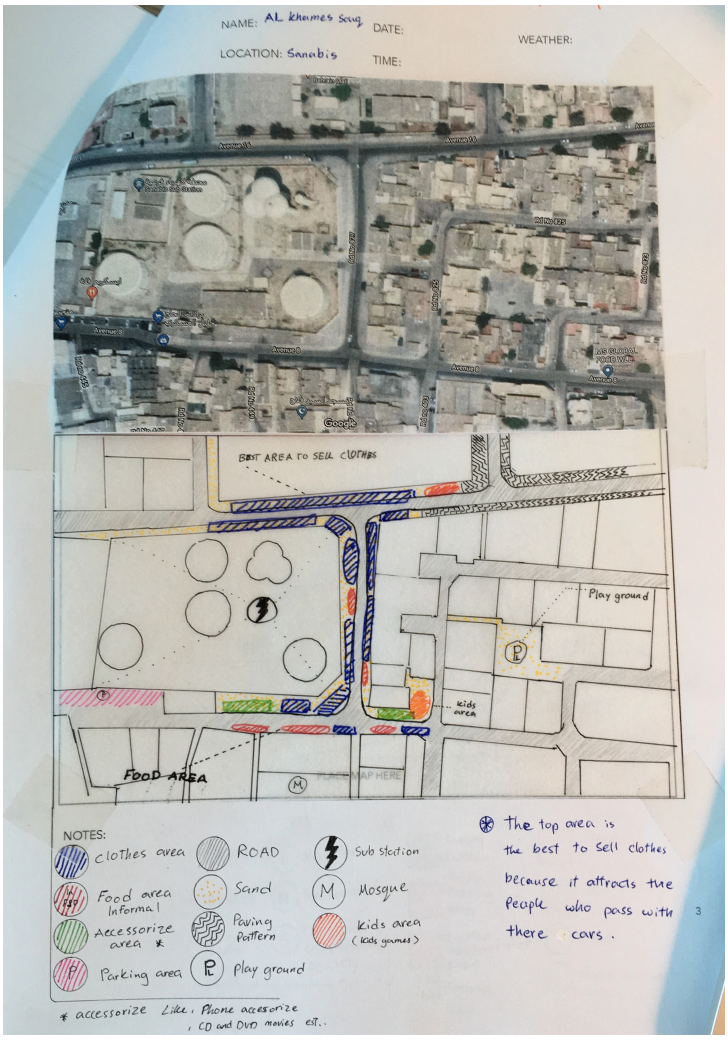

ALBAWARA GARDEN حديقة الباورة


SEMIRAMIS HOTEL فندق سميراميس


ID#: 20175116
NAME: Fatima Sadeq
DATE: 22/2/19
WEATHER: Cool and windy
LOCATION: Salmabad, Sushi Tokyo
TIME: 9:00 pm (night)
MAP
Informal Car Park
KEY:
1) seats / tables-
→ Moveable Round Table
→ Moveable chairs
→ Stage for Preformance
2) Vegetation-
→ Tree
3) Various-
→ Food Truck
→ Informal Parking (I.P)
NOTES:
→ Rubbish Bin
→ Electricity generator





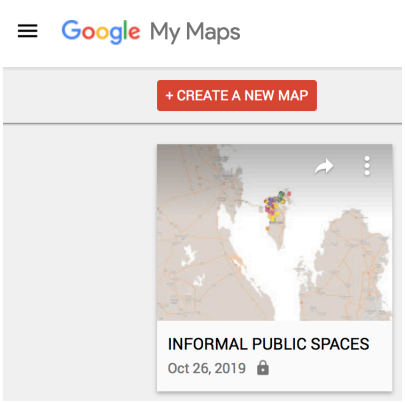

NAME: AL khaimes Seng
DATE:
WEATHER:
LOCATION: Sanabis
TIME:
BEST AREA to SELL CLOTHES
Play ground
kids area
FOOD AREA
PLACE MAP HERE
NOTES:
clothes area
Food area Informal
Accessorize area *
Parking area
ROAD
Sand
Paving Pattern
Play ground
Sub station
Mosque
Kids area (kids games)
* accessorize Like: Phone accessorize , CD and DVD movies ect..
* The top area is the best to sell clothes because it attracts the people who pass with there cars.
3

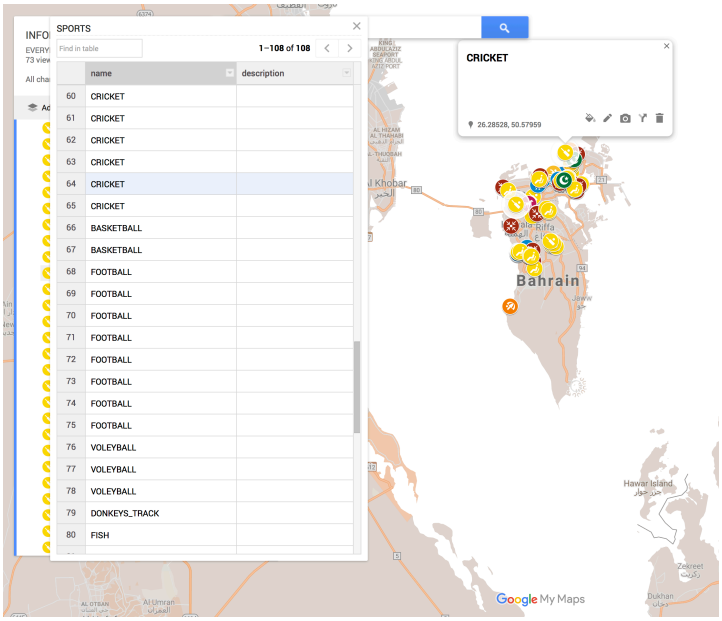
ANNEXES 3

MAPPING INFORMAL PUBLIC SPACES

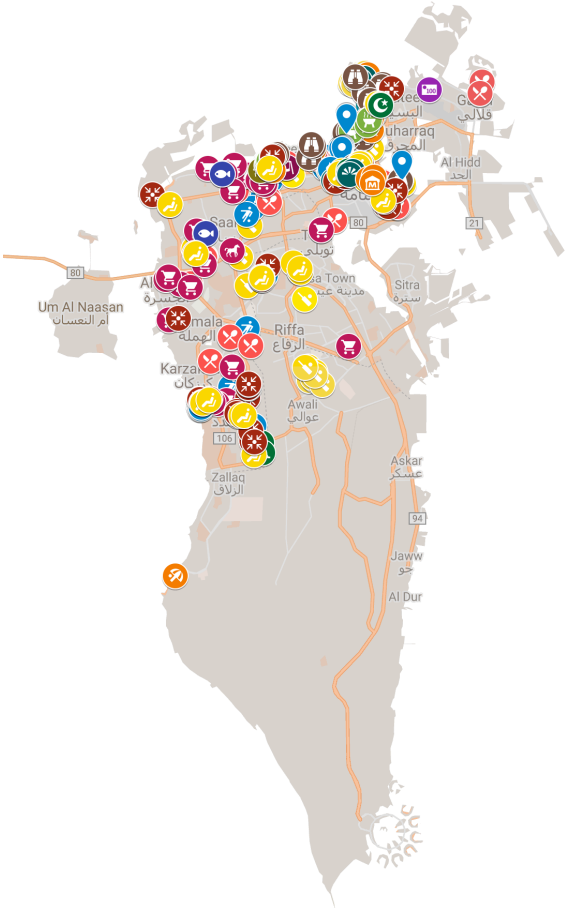
1. Everyday Bahrain Informal Occurrences
2. Informal Categories
3. Observation Chart of Informal and Formal Public Spaces

1. Everyday Bahrain Informal Occurrences

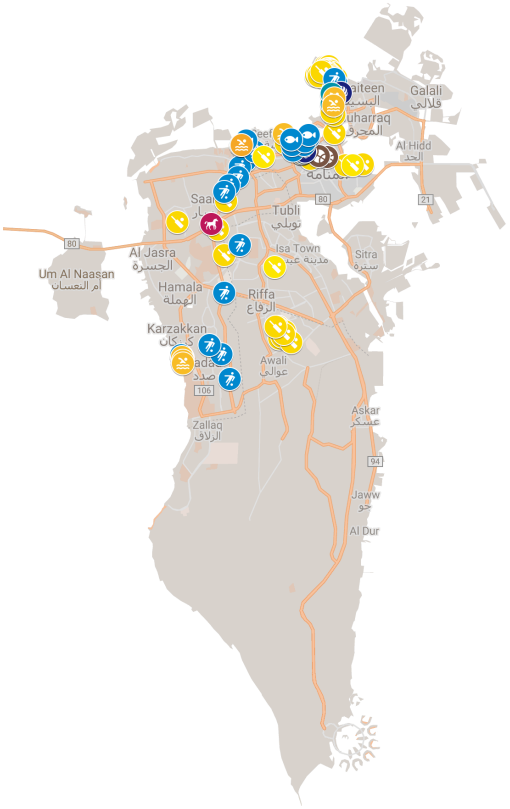




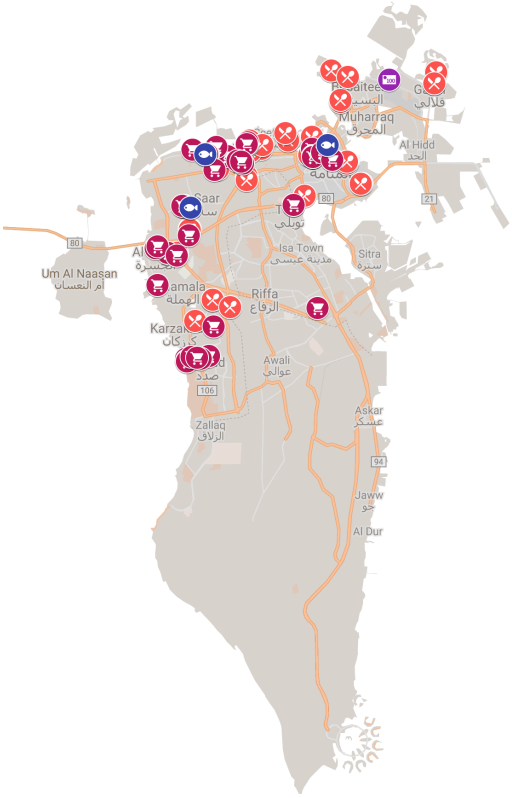
INFORMAL CATEGORIES



INFORMAL SPORT



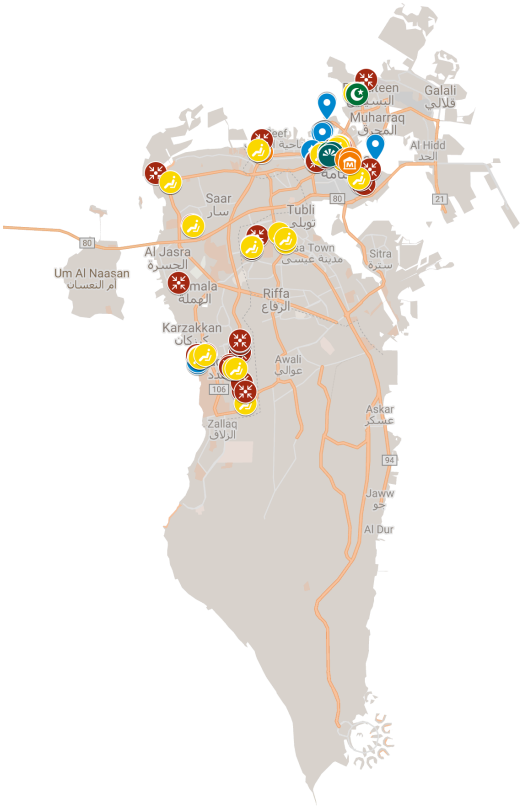
INFORMAL COMMERCIAL



INFORMAL SOCIAL



INFORMAL RECREATIONAL



2. Informal Categories

INFORMAL SPACES Categories	Sub Categories	Number of Occurrences	Total by Category
SPORTS	Basketball	2	112
	Cricket	68	
	Donkey Track	1	
	Fishing	9	
	Football	16	
	Water Sports	4	
	Swimming	8	
	Volleyball	4	
COMMERCIAL	Food Trucks	52	100
	Street Vendors	48	
RECREATIONAL	Barbecue	12	89
	Beach	12	
	Camping	2	
	Sightseeing	25	
	Donkey Ride	2	
	Horse Ride	4	
	Karting	5	
	Kayak	1	
	Kids Train	2	
	Kite	3	
	Picnic	15	
	Play	6	
SOCIAL	Bench	28	100
	Chicken	1	
	Fire	3	
	Magilis	46	
	PS no Access	2	
	Meet and chat	10	
	Ramadan	2	
	Street Closed	1	
	Street Green	1	
	Street Shading	6	
Total			401

3. Observation Chart of Informal and Formal Public Spaces

INFORMAL (without laboratories)

Code	Location	Date	Day	Time
INF_RIB_OBS001	Reef Island Bikes	29/11/2018	Thursday	Afternoon
INF_RIB_OBS002	Reef Island Bikes	07/12/2018	Friday	Afternoon
INF_RIB_OBS003	Reef Island Bikes	05/01/2019	Saturday	Morning
INF_RIB_OBS004	Reef Island Bikes	08/01/2019	Tuesday	Evening
INF_RIB_OBS005	Reef Island Bikes	19/04/2019	Friday	Evening
INF_RIB_OBS006	Reef Island Bikes	27/04/2019	Saturday	Afternoon
INF_RIB_OBS007	Reef Island Bikes	29/04/2019	Monday	Afternoon
INF_RIB_OBS008	Reef Island Bikes	12/05/2019	Sunday	Evening
INF_RIB_OBS009	Reef Island Bikes	11/06/2019	Tuesday	Afternoon
INF_RIB_OBS010	Reef Island Bikes	16/06/2019	Sunday	Afternoon
INF_RIB_OBS011	Reef Island Bikes	17/06/2019	Monday	Afternoon
INF_PB_OBS001	Pedestrian Bridge Souq Manama	21/04/2019	Friday	Afternoon
INF_PB_OBS002	Pedestrian Bridge Souq Manama	22/04/2019	Saturday	Evening
INF_PB_OBS003	Pedestrian Bridge Souq Manama	23/04/2019	Sunday	Morning
INF_PB_OBS004	Pedestrian Bridge Souq Manama	26/04/2019	Wednesday	Evening
INF_PB_OBS005	Pedestrian Bridge Souq Manama	16/05/2019	Thursday	Afternoon
INF_PB_OBS006	Pedestrian Bridge Souq Manama	09/06/2019	Sunday	Afternoon
INF_BFH_OBS001	Zebra Bahrain Financial Harbour	23/04/2019	Tuesday	Afternoon
INF_BFH_OBS002	Zebra Bahrain Financial Harbour	16/05/2019	Thursday	Afternoon
INF_MAN_OBS001	Manama | Bab Al Bahrain	06/12/2018	Thursday	Night
INF_MAN_OBS002	Manama | Hoora	08/03/2019	Friday	Afternoon
INF_MAN_OBS003	Manama	14/03/2019	Thursday	
INF_MAN_OBS004	Manama | Souq	16/03/2019	Saturday	Morning
INF_MAN_OBS005	Manama | Souq	19/04/2019	Friday	Morning
INF_MAN_OBS006	Manama | Hoora	20/04/2019	Saturday	Afternoon
INF_MAN_OBS007	Manama | Little Mumbai	22/04/2019	Monday	Evening
INF_MAN_OBS008	Manama | Al Naim	30/04/2019	Tuesday	Afternoon Evening
INF_MAN_OBS009	Manama | Gudaibiya	02/05/2019	Thursday	Afternoon Evening
INF_MAN_OBS010	Manama | Ramadan	14/05/2019	Tuesday	Evening
INF_MAN_OBS011	Manama | Ramadan	27/05/2019	Monday	Evening
INF_MAN_OBS012	Manama | Ramadan	28/05/2019	Tuesday	Afternoon Evening
INF_MAN_OBS013	Manama | Eid	04/06/2019	Tuesday	Afternoon
INF_MAN_OBS001	Muharraq Souq	29/12/2018	Saturday	Afternoon
INF_MAN_OBS002	Muharraq	10/04/2019	Wednesday	Night

INF_MAN_OBS003	Muharraq	11/04/2019	Thursday	Night
INF_MAN_OBS004	Muharraq	13/04/2019	Saturday	Morning
INF_MAN_OBS004	Muharraq | Clothes Market	26/04/2019	Friday	Afternoon
INF_CR_OBS001	Cricket IKEA	07/12/2018	Friday	Afternoon
INF_CR_OBS002	Cricket IKEA	24/05/2019	Friday	Afternoon
INF_CR_OBS003	Cricket IKEA	13/09/2019	Friday	Afternoon
INF_RC_OBS001	Reef Corniche	21/12/2018	Friday	Night
INF_RC_OBS002	Reef Corniche	23/02/2019	Saturday	Afternoon
INF_SCR_OBS001	Saar Cricket	01/05/2019	Wednesday	Afternoon
INF_SDT_OBS001	Saar Donkey Track	08/06/2019	Wednesday	Morning
INF_MAFT_OBS001	Dolphin Park	12/06/2019	Wednesday	Night
INF_HAFT_OBS001	Hamala Hills	10/09/2019	Tuesday	Night
INF_WGFT_OBS001	Water Garden	15/05/2019	Wednesday	Afternoon

FORMAL

Code	Location	Date	Day	Time
FOR_AV_OBS001	Avenues	21/12/2018	Friday	Afternoon
FOR_AV_OBS002	Avenues	04/01/2019	Friday	Afternoon
FOR_AV_OBS003	Avenues	23/02/2019	Saturday	Morning
FOR_AV_OBS004	Avenues	05/04/2019	Friday	Evening
FOR_AV_OBS005	Avenues	06/04/2019	Saturday	Morning
FOR_AV_OBS006	Avenues	17/05/2019	Wednesday	Afternoon
FOR_OBS001	Budaiya Beach	23/04/2019	Tuesday	Night
FOR_OBS002	Isa Town	24/04/2019	Wednesday	Morning
FOR_OBS003	Saar - St Christopher	24/04/2019	Wednesday	Afternoon
FOR_OBS004	Saar - El Mercado	08/05/2019	Wednesday	Afternoon
FOR_OBS005	Al Lawzi	24/04/2019	Wednesday	Night
FOR_OBS006	Wadi Al Sail	25/04/2019	Thursday	Morning
FOR_OBS007	Marassi	24/04/2019	Wednesday	Afternoon
FOR_OBS008	Diyar	24/04/2019	Wednesday	Afternoon
FOR_OBS009	Busaiteen	06/04/2019	Saturday	Afternoon
FOR_OBS010	Busaiteen	26/04/2019	Friday	Afternoon
FOR_OBS011	Reef island	27/04/2019	Saturday	Morning
FOR_OBS012	Reef island	05/05/2019	Sunday	Morning
FOR_OBS013	Reef island	08/06/2019	Saturday	Evening
FOR_OBS014	Adliya	30/11/2018	Friday	Night
FOR_OBS015	Adliya	03/02/2019	Sunday	Evening
FOR_OBS016	Adliya	22/04/2019	Monday	Night
FOR_OBS017	Adliya	27/04/2019	Saturday	Afternoon
FOR_OBS018	Northern City	03/04/2019	Thursday	Morning

FOR_OBS019	Madinat Hamad	08/02/2019	Friday	Afternoon
FOR_OBS020	Madinat Hamad	01/04/2019	Monday	Morning
FOR_OBS021	Madinat Hamad	13/06/2019	Thursday	Morning
FOR_OBS022	Janabiya	04/04/2019	Thursday	Afternoon
FOR_OBS023	City Centre	22/11/2018	Thursday	Afternoon
FOR_OBS024	City Centre	01/02/2019	Friday	Afternoon
FOR_OBS025	City Centre	07/04/2019	Sunday	Morning
FOR_OBS026	City Centre	23/04/2019	Tuesday	Afternoon
FOR_OBS027	Salmabad	02/05/2019	Thursday	Morning
FOR_OBS028	Jufair	09/05/2019	Thursday	Morning
FOR_OBS029	Awali	09/05/2019	Thursday	Morning
FOR_OBS030	Muharraq	18/05/2019	Saturday	Afternoon
FOR_OBS031	Hamala and Jasra	29/05/2019	Wednesday	Afternoon
FOR_OBS032	Reef Corniche	08/06/2019	Saturday	Night
FOR_OBS033	Water Garden City	14/06/2019	Friday	Morning

ANNEXES 4

LABORATORIES

1. **Laboratory 01 | KARBABAD**
    a) Observation Chart
    b) Counting
    c) Interviews - Users | Sellers
2. **Laboratory 02 | MALKIYA**
    a) Observation Chart
    b) Interviews - Users | Sellers
3. **Laboratory 03 | BUSAITEEN**
    a) Observation Chart
    b) Interviews - Users | Sellers
4. **Laboratory 04 | MANAMA**
    a) Observation Chart
    b) Counting and Photo Report
    c) Interviews - Users | Sellers

1. Laboratory 01 | KARBABAD

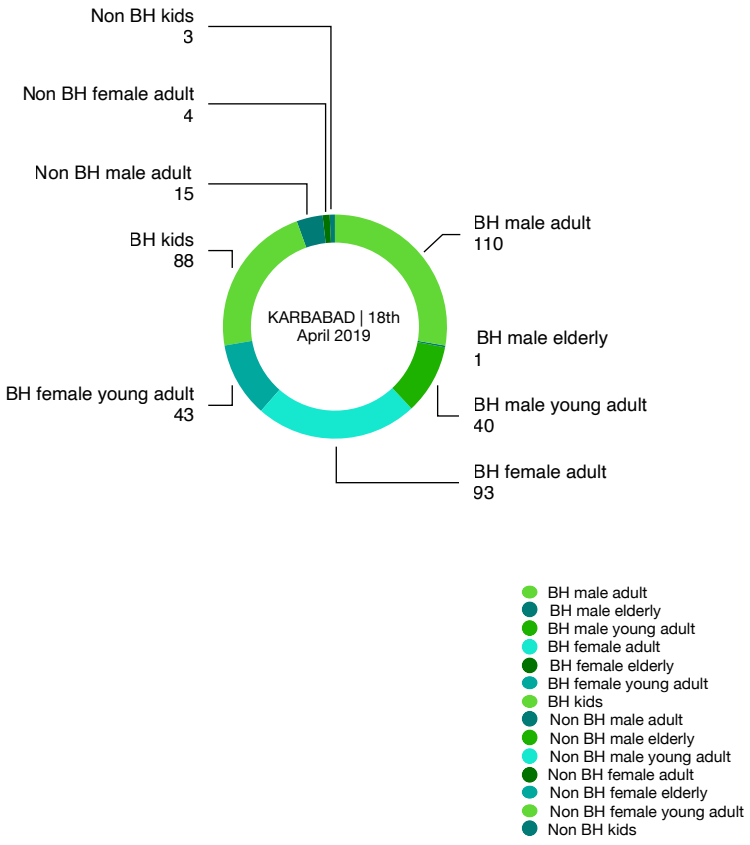
a) Observation Chart

Code	Date	Day	Time of the Day	Time	Temperature UV Index	Humidity	Wind
KARB_OBS001	28/12/18	Friday	Afternoon				
KARB_OBS002	04/04/19	Thursday	Morning	11:30 to 12:35pm	33	Low	Breezy
KARB_OBS003	06/04/19	Saturday	Afternoon Evening	4:00 to 6:30pm	31	Low	Breezy
KARB_OBS004	18/04/19	Thursday	Night				
KARB_OBS005	19/04/19	Friday	Afternoon				
KARB_OBS006	21/04/19	Sunday	Night				
KARB_OBS007	22/04/19	Monday	Night	8:30 to 9:30pm	22	60%	NNW 42km/h Very wind and dusty (unpleasant weather)
KARB_OBS008	23/04/19	Tuesday	Morning				
KARB_OBS009	23/04/19	Tuesday	Evening				
KARB_OBS010	23/04/19	Tuesday	Night				
KARB_OBS011	25/04/19	Thursday	Morning	9:00 to 9:35am	23 (UV index 6)	50%	24km/h Visibility 9.7km
KARB_OBS012	25/04/19	Thursday	Noon	12:15 to 12:45pm	30 (UV index 4)	50%	Very windy and sandy
KARB_OBS013	25/04/19	Thursday	Night				
KARB_OBS014	26/04/19	Friday	Night				
KARB_OBS015	27/04/19	Saturday	Night				
KARB_OBS016	02/05/19	Thursday	Night				
KARB_OBS017	16/05/19	Thursday	Evening				
KARB_OBS018	16/05/19	Thursday	Night				
KARB_OBS019	17/05/19	Friday	Afternoon				
KARB_OBS020	17/05/19	Friday	Night				
KARB_OBS021	21/05/19	Tuesday	Morning				
KARB_OBS022	27/05/19	Monday	Night				
KARB_OBS023	27/05/19	Monday	Midnight				
KARB_OBS024	06/06/19	Thursday	Afternoon				
KARB_OBS025	07/06/19	Friday	Night				

b) Counting

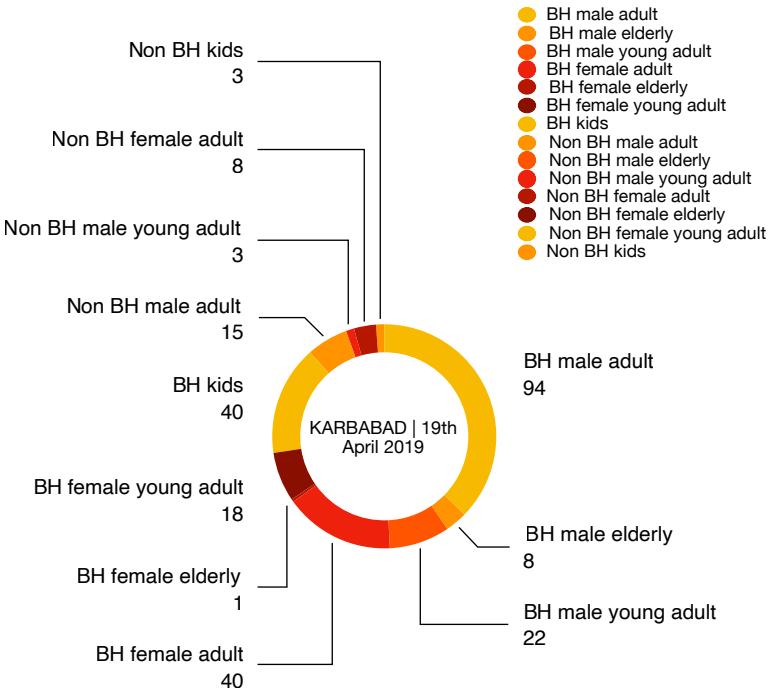
KARBABAD | 18th April 2019 | from 9:25 to 10:20pm (5m in each point)

Categories	P1	P2	P3	P4	P5	P6	P7	P8	Total
BH male adult	15	19	18	30	13	6	9		110
BH male elderly	0	0	0	1	0	0	0		1
BH male young adult	4	8	8	13	6	0	1		40
BH female adult	12	29	14	26	7	1	4		93
BH female elderly	0	0	0	0	0	0	0		0
BH female young adult	4	6	6	12	10	3	2		43
BH kids	22	26	13	15	8	2	2		88
Non BH male adult	1	12	2	0	0	0	0		15
Non BH male elderly	0	0	0	0	0	0	0		0
Non BH male young adult	0	0	0	0	0	0	0		0
Non BH female adult	1	0	2	0	1	0	0		4
Non BH female elderly	0	0	0	0	0	0	0		0
Non BH female young adult	0	0	0	0	0	0	0		0
Non BH kids	0	2	1	0	0	0	0		3
TOTAL	**59**	**102**	**64**	**97**	**45**	**12**	**18**	**-**	**397**



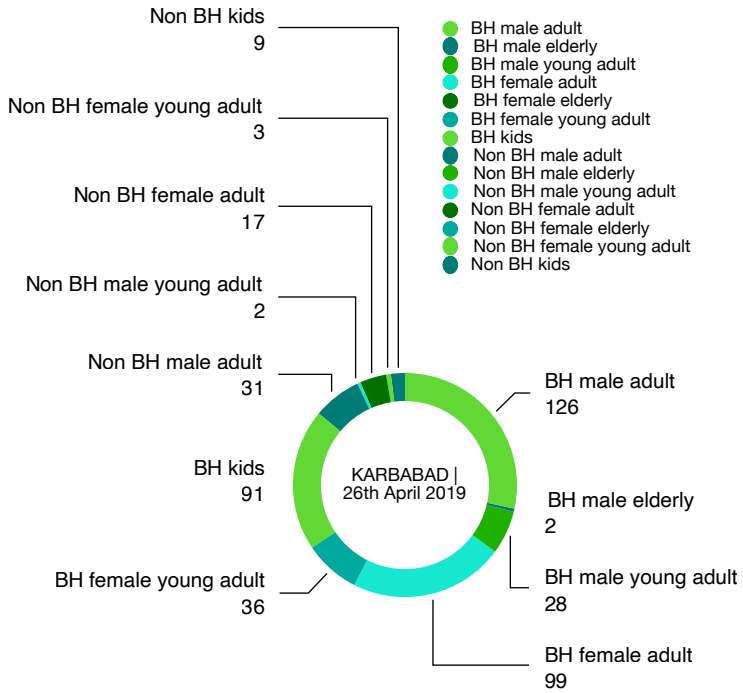
KARBABAD | 19th April 2019 | from 9:15 to 10:00pm (5m in each point)

Categories	P1	P2	P3	P4	P5	P6	P7	P8	Total
BH male adult	19	10	11	12	3	31	4	4	94
BH male elderly	1	1	1	0	1	4	0	0	8
BH male young adult	2	0	1	5	5	3	3	3	22
BH female adult	5	8	5	5	1	11	2	3	40
BH female elderly	0	0	0	0	0	0	1	0	1
BH female young adult	9	3	2	2	0	1	1	0	18
BH kids	12	2	2	6	0	15	3	0	40
Non BH male adult	4	0	2	8	0	1	0	0	15
Non BH male elderly	0	0	0	0	0	0	0	0	0
Non BH male young adult	0	0	0	0	1	1	0	1	3
Non BH female adult	0	0	2	3	1	0	1	1	8
Non BH female elderly	0	0	0	0	0	0	0	0	0
Non BH female young adult	0	0	0	0	0	0	0	0	0
Non BH kids	0	0	0	0	1	1	0	1	3
TOTAL	**52**	**24**	**26**	**41**	**13**	**68**	**15**	**13**	**252**



KARBABAD | 26th April 2019 | from 9:15 to 10:00pm (5m in each point)-1

Categories	P1	P2	P3	P4	P5	P6	P7	P8	Total
BH male adult	26	12	14	25	14	14	15	6	126
BH male elderly	1	0	0	0	0	0	1	0	2
BH male young adult	3	6	0	2	8	8	0	1	28
BH female adult	22	10	7	27	8	8	13	4	99
BH female elderly	0	0	0	0	0	0	0	0	0
BH female young adult	8	5	3	1	9	9	1	0	36
BH kids	20	19	15	16	7	7	7	0	91
Non BH male adult	3	4	0	14	2	2	1	5	31
Non BH male elderly	0	0	0	0	0	0	0	0	0
Non BH male young adult	0	1	0	0	0	0	0	1	2
Non BH female adult	1	7	1	4	1	1	0	2	17
Non BH female elderly	0	0	0	0	0	0	0	0	0
Non BH female young adult	0	1	0	0	1	1	0	0	3
Non BH kids	0	3	0	2	2	2	0	0	9
TOTAL	**84**	**68**	**40**	**91**	**84**	**52**	**38**	**19**	**444**



c) Interviews Users | Sellers

Karbabad Sellers Chart

Code	Nationality	Type of Seller	Date	Day	Time
KARB_S001	Bahraini	Street vendor (toys)	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S002	Bahraini	Street vendor (food+drinks)	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S003	Bahraini	Food truck	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S004	Bahraini	Food truck + Jumping castles + trampoline	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S005	Bahraini	Street vendor (food+drinks)	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S006	Bahraini	Street vendor (fry puffy dough)	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S007	Bahraini	Street vendor (hot dog)	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S008	Bahraini	Horse and pony rides	25th June 2019	Tuesday	8:10 to 11:00pm
KARB_S009	Bahraini	Food truck	25th June 2019	Tuesday	8:10 to 11:00pm

Karbabad 25th June 2019, 8:10 to 11:00pm, 35 feels like 40, 46% humidity, wind NN 14km/h, 1001, visibility 14.5km

Karbabad Sellers | Interviews Summary

		1		2	3	4	5	6	7	8	9	10	11										
Case Study	**Interview n.**	Type Seller	Are you here everyday? At which time of the day - morning, lunch, afternoon, evening, night?	At what time do you start to assemble and dismantle the space?	What is the best time or hour of the day to sell?	Is there any difference between the different seasons of the year in terms of users?	Which nationalities usually use the space?	Do you have returning costumers? Frequent buyers?	Do you sell elsewhere? Where?	How do you consider the atmosphere on the space? Lively, fun, conservative, calm, relaxing, dull, etc.	Do you have a fixed place to sell? If no, why?	For how long do you have a commercial activity here?	Is this a full-time job or part-time? If it's part-time what is your main profession?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
KARBABAD	KARB S001	Street vendor (toys)	Thursday, Friday and Saturday and holidays too.	Start at 3:00pm and finish around midnight. "But if the business is good we will stay till later. "I adapt myself to the users."	Weekend night and Thursday night	"I'm still trying different times and days, seasons to see how it goes."	Bahrainis and GCC nationals	"Some but I'm still new here."	Only here now, before he was selling in Malkiya beach.	"There are lots of different activities to do, something to eat, to play, etc."	"Everyone had the same place, no one change, someone new has to adjust."	6 months selling here before is was selling in Malkiya - "Here is better, more people and more people from CGG."	Part-time job	"Near the villages is no good place to stay."	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S002	Street vendor (food+drinks)	Everyday	Start at 2:00pm and finish around 10:00pm to midnight	"There is no better time. It really varies a lot."	At 7:00am there are bikes going and people walking both summer and winter	All different nationalities	Yes	Next to schools too - during the day	"Lively, much more people then Malkiya."	Approximately in the same location every time	4 years	Full-time job	He prepares all the food	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S003	Food Truck	Everyday - afternoon till night	Start at 2:00pm and finish around midnight		"Winter is better to sell, summer is very bad is to hot for people and they end up in the mall."	Bahrainis and GCC nationals	Yes	In Shakura Village, in the movable market and sometimes near the road.		Always in the same location	More than 2 years	Full-time job	Two brothers each with his own stall selling in the same road corner. " No good this job."	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S004	Food truck + Jumping Castles + trampolin e	Everyday - afternoon till night	Start at 3:00pm and finish around 11:30pm to 1:00am	Night and weekend - Thursday, Friday, Saturday - better than week	Weekends are better than week.	Bahrainis, Saudis, Kuwaitis, Pakistanis and British	"To much returning costumers . With 500fills for 30m playing time."	"Sometimes for school events and kids birthday parties I go."	"It is a good place it is not too hot. Families will seat and eat while the kids are playing and having a great time. I'm much happy here, to many friends and always meeting new people."	Always in the same location	7 years	Full-time work. He is retired so he is here all the time before he was coming 4:30pm. His son works with him as a part-timer.	He worked for 33 years in the Ministry of Transportation.	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S005	Street vendor (food+drinks)	Everyday - evening and night	Start at 6:00pm and finish around midnight	Night time during the weekend and weekend eve	Winter business is much better than summer. "I'm never here during the day, only around sunset time."	Bahrainis, Kuwaitis, Omanis, Irani's, Turkish, British, Italian, American, Filipino	Yes	"Sometimes we do catering services in special events, private venues and also public celebrations."	"Very vibrant, lively, active, full of movement and rotation. Lot's of people going around or making queue to eat." Mostly large groups of friends or families.	Always in the same location	5 years	For most of the workers, around 60, where 15 are waiters, it is a full-time job. They work 14 hours day including preparation time. They also have 8 part-time staff.	In a good weekend night they serve around 1000 people. They have 100 tables with 4 chairs each that rotates 3 to 4 times. He never consider to open a restaurant.	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S006	Street vendor (fry puffy dough)	Everyday - afternoon till night	Start at 4:00pm and finish around 11:00pm to 12:00	"Best time is variable but normally weekend is better."	"Same people coming in winter and summer." Sometimes business is good, sometimes bad."	Mix of Bahrainis, Indians and Saudis	"We have too much returning costumers . Sometimes they don't even go outside the car, just order and take away."	Only here		Approximately in the same location every time - rotates between the inner beach or facing the road, last one preferably	2 years	Full-time job		Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S007	Street vendor (hot dog)	Everyday - night	Start at 8:00pm and finish around midnight	Around 9:00pm	Weekends better and cold weather."	Bahrainis and GCC nationals	Yes	Only here	"It depends, usually vibrant."	Approximately in the same location	1 year	Part-time job		Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S008	Horse and pony rides	Almost everyday	Start at 4:00pm and finish around midnight	"Weekends we have more kids."	"Winter is better for business, when it's hot there is less people."	Bahrainis and GCC nationals	Yes	"Sometimes we go to parties in private villas mainly."		Always in the same location	5 years	Part-time job. He works for his uncle.	They have 10 ponies, five are always there. "There is no light and no restrooms around."	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%
KARBABAD	KARB S009	Food Truck - "La Camion"	Five days a week except Sunday and Monday as day off	Start at 5:00pm and finish around midnight	Weekend night	"Sales increase in the weekend - Thursday, Friday and Saturday - Tuesday is normal and Wednesday is better again. In winter people like to drink hot coffee and in summer ice cream."	Mostly Bahrainis, sometimes Saudis, Indians and Filipinos	Yes	Only here	"I'm really happy with the space."	Always in the same location	Started 6 months ago	Part-time job. It is his wife project	Planning to hire staff.	Male	Bahraini	25th June 2019	Tuesday	8:10 to 11:00pm	-	35 feels like 40	NN 14km/h,	46%

2. Laboratory 02 | MALKIYA

a) Observation Chart

Code	Date	Day	Time of the Day	Time	Temperature UV Index	Humidity	Wind
MALK_OBS001	08/02/19	Friday	Afternoon				
MALK_OBS002	04/04/19	Thursday	Morning	8:00 to 10:00am	28	Low	Gentle breeze
MALK_OBS003	04/04/19	Thursday	Afternoon Evening	5:00 to 7:00pm	29 very cloudy it started to rain at 6:00pm	Low	Gentle breeze
MALK_OBS004	24/04/19	Wednesday	Night				
MALK_OBS005	25/04/19	Thursday	Morning				
MALK_OBS006	26/04/19	Friday	Night				
MALK_OBS007	07/06/19	Friday	Night				

b) Interviews - Users | Sellers

Malkiya Users Chart

Code	Nationality	Type of User	Date	Day	Time
MALK_U001	Bahraini	Fisherman	21st June 2019	Friday	4:30 to 8:00pm
MALK_U002	Egyptian	Picnic Group	21st June 2019	Friday	4:30 to 8:00pm
MALK_U003	Bahraini	Mother with kids	21st June 2019	Friday	4:30 to 8:00pm
MALK_U004	Bahraini	Family Picnic Group	21st June 2019	Friday	4:30 to 8:00pm
MALK_U005	Bangladeshi	Alone | Strolling	21st June 2019	Friday	4:30 to 8:00pm
MALK_U006	Bangladeshi	Family	21st June 2019	Friday	4:30 to 8:00pm
MALK_U007	Bahraini	Family	21st June 2019	Friday	4:30 to 8:00pm
MALK_U008	Bahraini	Family Picnic Group	21st June 2019	Friday	4:30 to 8:00pm
MALK_U009	Indian	Friends	21st June 2019	Friday	4:30 to 8:00pm

Malkiya 21st June 2019, 4:30 to 8:00pm, 39 feels like 44, 43% humidity, wind NNW 21km/h

Malkiya Users | Interviews Summary

			1	2	3	4	5	6	7	8	9	10	11							
Case Study	Interview n.	Type User	Do you usually come here? How often? Daily, weekly, monthly, etc? Cold or hot season? Week or weekend? Morning, lunch, night? Ramadan month?	Why are you here today? Which main activities do you do here?	How long are you living in Bahrain?	For how long are you coming to this place and how long do you stay?	Do you come alone, family, friends, work colleagues , etc.?	How do you reach the space and how long does it take? By car, by foot, by bike, by Bus, etc.?	Do you like to spend time here and do you feel comfortable and secure?	Which other outdoors spaces do you normally visit in your free time and for which activities?	What do you like and dislike about this space?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
MALKIYA	MALKIU001	Fisherman	Everyday	Fishing and walking; Catch fish twice a week in the cold weather - December	-	35 years - it varies between 2 to 4 hours average, sometimes all day	Alone	Walking (house 10m away)	Feels secure and comfortable	Muharraq beach and Anwar Island	Feels good in the space	Started with is father 15 years ago	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU002	Picnic Group	One to three times a week, anytime, not only on the weekend. Winter is cold.	Every time picnic	-	Around 2 hours	With family and friends	Car 15m from Hamad Town	Feels secure and comfortable	Muharraq, Hidd, Arad park and Marassi beach - playground, picnic and meet friends	Sand of the beach is cleaner than Zallaq beach	They come because of the sea, the smell of water - "Sea is my friend". Yesterday she came in the morning at 7am - " In the morning no one is here".	Female (4 women and 1 girl)	Egyptian	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU003	Mother with kids	Every week on weekends because she doesn't have time during the week. Mainly in the Summer because of the kids. In the winter she comes alone - "Only for me for peace of mind". Afternoon and evening time from 5 to 7pm.	"For the kids to play in the sand and sea. Relax and enjoy the good weather." She brought food to make a picnic with the kids. She doesn't buy the food there.	-	Since 2010 - 5 to 8 years ago when it opened as a beach. Around 2 hours.	With the family, nanny and sometimes alone depending on the season and time of the day	Drive car 10m from Hamad Town Roundabout 7	"Yes, I like to spend time here."	Zallaq garden near Sofitel Hotel and Riffa Views Garden	"You have boats and I can go to the sea, this is what I like the most." They should provide more shading devices, chairs, equipment, etc.	"In Bahrain we have no spaces to go so they should make them better."	Female (Mother with nanny and two kids - a boy and a girl)	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU004	Family Picnic Group	Weekend mainly and only on Friday. During summer every weekend, in winter once a month.	Socialising, picnicking, kids playing in the sand and sea. "Relaxing with the sea." They bring food from home and buy more there.	-	Since 2 years and normally at evening time between 5 to 7pm - around 2 hours.	Family and friends	Drive car 10 to 15m from Hamad Town	"Security is good but the space is small. Sometimes there are cars driving on the sand that should be stopped. Safety for children in the sea should be provided."	Marina Club Park and other parks and gardens in Bahrain.	"Can see variety of people from different countries. Beach is wider." They like the playground and children play happily.		Male and Female (10 to 15 people - 2 families picnicking - 6 women, 4 men, 1 baby, 2 kids)	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU005	Alone | Strolling	Once a month. Always on Friday mainly in Summer, sometimes in Winter.	"To pass the time."	8 years	1 to 2 hours	Both single, they usually come with colleagues or friends.	On foot. They live in Malkiya.	Feels secure and comfortable	No time to visit other spaces	"For us is alright."	No family here.	2 Male	Bangladeshi	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU006	Family	Two to three times month and on the holidays. Summer and Winter in the afternoon sometimes at night.	Going to the beach with the kids, swim and play in the jumping castle.	18 years	From to 2 to 3 hours	Family	Drive car 10 to 15m from Karzakan	"Very secure and comfortable."	"We only come here. We don't go to another garden or park."	"We like the beach and swimming but we would like more space for the beach."		Male and Female (family with 2 female, 1 male and two babies)	Bangladeshi	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU007	Family	"Not always because it is far away". Twice a month in Summer, on the weekend, in the afternoon. The wife never comes in the winter but the husband comes to walk.	Kids enjoy the beach and swimming	-	From to 2 to 3 hours	Always with family	Drive car 20 to 25m from Saar	"The place should be more secure because sometimes we loose our children. But normally is ok."	Adhari Park and Al Areen Wildlife park	"We can see many different people here and the kids enjoy it.		Male and Female (parents with 3 kids)	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU008	Family Picnic Group	Every weekend, summer or winter, always on Friday, from 4:30pm to the sunset, around 7 to 8pm maximum.	Socialise, kids playing, swimming, entertainment, picnicking etc. "Everything is available here." "We bring our food but we also buy it here."	-	They started to come 5 years ago. Around 3 hours. If it is too hot they will leave sooner.	Family	They come from different locations all driving car: mother from Muharraq 30 to 40m; daughters Riffa 15m; Isa Town 25m.	All feel secure and comfortable	Adhari Park and Zallaq Beach	"We like the place, the sea, the food. Everything is available here. We need more shading definitely and cleaner bathroom."		Male and Female (more than one family - a mother with a housemaid and 3 daughters all with their husbands and kids - around 15 people)	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALKIU009	Friends	1st time in Malkiya. They heard good reviews from their friends and decided to visit.	To socialise and to swim. "We will swim later around 7:30pm."	4 years, 2 years and 2 months	1st time	Friends	Drive car 20m from Janabiya	Feels secure and comfortable	-	"Good for walking but could have boats."		Male and Female (2 girls and 2 boys)	Indian	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%

Malkiya Sellers Chart

Code	Nationality	Type of Seller	Date	Day	Time
MALK_S001	Bahraini	Karting	21st June 2019	Friday	4:30 to 8:00pm
MALK_S002	Bahraini	Barbecue sweet corn	21st June 2019	Friday	4:30 to 8:00pm
MALK_S003	Bahraini	Kids Jumping castle + Trampoline + Drinks and Food vendor	21st June 2019	Friday	4:30 to 8:00pm
MALK_S004	Bahraini	Horse and pony rides	21st June 2019	Friday	4:30 to 8:00pm
MALK_S005	Bahraini	Canoe renting	21st June 2019	Friday	4:30 to 8:00pm
MALK_S006	Bahraini	Kids train	21st June 2019	Friday	4:30 to 8:00pm
MALK_S007	Bahraini	Street vendor (food, drinks, toys)	21st June 2019	Friday	4:30 to 8:00pm
MALK_S008	Bahraini	Kids R'Port play park	21st June 2019	Friday	4:30 to 8:00pm

Malkiya 21st June 2019, 4:30 to 8:00pm, 39 feels like 44, 43% humidity, wind NNW 21km/h

Malkiya Sellers | Interviews Summary

			1	2	3	4	5	6	7	8	9	10	11									
Case Study	**Interview n.**	Type Seller	Are you here everyday? At which time of the day - morning, lunch, afternoon, evening, night?	At what time do you start to assemble and dismantle the space?	What is the best time or hour of the day to sell?	Is there any difference between the different seasons of the year in terms of users?	Which nationalities usually use the space?	Do you have returning costumers ? Frequent buyers?	Do you sell elsewhere? Where?	How do you consider the atmosphere on the space? Lively, fun, conservative, calm, relaxing, dull, etc.	Do you have a fixed place to sell? If no, why?	For how long do you have a commercial activity here?	Is this a full-time job or part-time? If it's part-time what is your main profession ?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
MALKIYA	MALK S001	Karting (4 wheels + bikes)	Everyday in the Holidays, summer or winter. Normally in the afternoon but if the weather is good also in the morning.	Start at 5:00pm and finish around midnight.	There are more kids after parting time, around 7:00pm, specially in the winter - afternoon and evening	There are more people coming in the summer then in the winter.	Bahraini families mostly but also Indian, most of the Asian around are bachelor.	"To much returning costumers. " 5m ride 500 fills	Just here.	"Happy and fun."	They have two spaces that they usually occupy either on the beach or, when is less crowded, on the side of the garden in the walkway.	In 2012 they started the play house	Part-time job - studying and working in the evening and		Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S002	Barbecue sweet Corn	Usually everyday, all summer and winter	Start at 4:00pm and finish around midnight.	Not specifically	He sells more on winter then summer.	Bahrainis and GCC nationals	Yes, mostly Saudis	Only here	"Lively."	Always in the same location	Selling from 2003	Part-time job - he sells birds in the morning, he owns a shop		Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S003	Kids Jumping Castle + Trampoline + Drinks and Food Vendor	On winter in the weekend, on summer everyday	Start at 3:30pm and finish around 1:00 to 2:00am	5:30pm to 00:00	More activity during summer time and in the weekends	Mostly Bahrainis and GCC nationals	Kuwaitis, Saudis and Oman	Only here	"Sometimes is not secure, some teenagers will come and fight and show off."	Always in the same location, the tables stay there is doesn't dismantle	8 years	Full-time work. He is retired so he is here all the time.	Does the food at home, either he will do it or his wife, and sells it here.	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S004	Horse and pony rides	Everyday summer or winter	Start at 4:00 pm and finish around 7:00pm	Eid Holidays	Summer is better than winter. Friday and Saturday better for business	Bahrainis, Indians and in some holidays, like Eid, there are more nationalities .	"Of course, we have returning costumers. "	Only here	"They like it, they are happy."	Always in the same location	More then 8 years	Part-time job	3 horses, 1 pony 4 staff and the owner. Regarding the space it should have more chairs, lightning, shading, play areas and greenery.	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S005	Canoe renting	Only on weekends Friday and Saturday and holidays	Start at 4:00 pm and finish around 8:00pm. During Eid 24 hours - full time	Friday is better for business	Summer better than winter.	Indians and Pakistanis but also Bahrainis and some GCC countries	"A lot of returning costumers. "	Every time here.	"Relax and fun."	Always in the same location	Started 5 years ago	Full-time work. He is retired and works for his brother that works in UOB	Father and son. Before they add and water castle but they sold it.	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S006	Kids Train	Everyday mainly afternoon, evening and night.	Summer starts at 4:00pm and finishes around midnight and in winter it starts at 2:30pm and finishes around the same time 00:00.	Mostly evening is better for business.	Winter we open earlier than summer. Evenings are better overall independently of the season	Mostly Bahrainis	Yes	We started here but 1 year ago they opened in Karbabad beach too	Exciting and fun environment	Always in the same location	4 years	Part-time job for staff that are studying, full-time for owner.	4 wheels + jumping castle + train. Train is the most requested animation - 1 round 4 to 5m costs 300fils	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S007	Street vendor (food, drinks, toys, ice-cream)	Everyday mainly afternoon, evening and night.	Start at 3:00 pm and finish around 7:00pm	7:00PM	Winter there is less people in the space	Mostly Bahrainis, Saudis and Kuwaitis	Yes	Every time here.	Lively	Always in the same location	5 years	Full-time job	Space needs improvement - chairs, shading, improve ground, nice containers and small stalls	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%
MALKIYA	MALK S008	Kids R'Port play park	Open everyday	Start at :00pm and finish around	Afternoon and evening	Winter is good in the afternoons and summer in the evening.	Mostly Bahrainis, Saudis, Kuwaitis and Indians	Yes	Last year they opened a new business in Hamad Town 55 Garden, Roundabout 2. "Here business is always good there it depends of the weather. My father is there, I'm here. We pay the rent to the municipality.	Exciting and fun	Always in the same location	Since 2011 in this location, before, in 2003 they started in the other side	Part-time staff mainly students, some at university level - UOB	Toys were all brought from Germany. Owner is a retired science teacher from a governmental school.	Male	Bahraini	21st June 2019	Friday	4:30 to 8:00pm	-	39 feels like 44	NNW 21km/h	43%

3. Laboratory 03 | BUSAITEEN

a) Observation Chart

Code	Date	Day	Time of the Day	Time	Temperature UV Index	Humidity	Wind
BU_OBS001	26/04/19	Friday	Afternoon				
BU_OBS002	26/04/19	Friday	Evening				
BU_OBS003	26/04/19	Friday	Night				
BU_OBS004	27/04/19	Saturday	Afternoon				
BU_OBS005	29/04/19	Monday	Evening	6:00 to 7:00pm	27 (UV index 1)	50%	23km/h Perfect weather
BU_OBS006	03/05/19	Friday	Afternoon	4:00 to 5:00pm	34 (UV index 1)	28%	N 21km/h
BU_OBS007	16/05/19	Thursday	Night Ramadan	20:00 to 23:00	32	Low	Breeze
BU_OBS008	17/05/19	Friday	Afternoon Ramadan	2:30 to 4:45pm	34 real feel 38 (UV index 5)	53%	E 27km/h visibility 9.7km (windy with sand)
BU_OBS009	27/05/19	Monday	Night Ramadan				
BU_OBS010	29/05/19	Wednesday	Night Ramadan	8:30 to 9:15pm	35		
BU_OBS011	06/06/19	Thursday	Afternoon Eid holiday	3:30 to 5:00pm	42		
BU_OBS012	07/06/19	Friday	Night	10:00 to 10:45pm	37	Low	No wind
BU_OBS013	10/06/19	Monday	Morning				
BU_OBS014	14/06/19	Friday	Afternoon				

b) Interviews - Users | Sellers

Busaiteen Users Chart

Code	Nationality	Type of User	Date	Day	Time
BU_U001	Pakistani	Cricket Player	14th June 2019	Friday	3:30 to 4:10pm
BU_U002	Indian	Cricket Player	14th June 2019	Friday	4:10 to 4:30pm
BU_U003	Pakistani	Cricket Player	14th June 2019	Friday	4:30 to 4:45pm
BU_U004	Indian	Cricket Player	14th June 2019	Friday	4:30 to 4:45pm

Busaiteen 14th June 2019, 3:30 to 4:45pm, 38 feels like 44, 42% humidity, wind NW 24km/h, UV Index 4, Visibility 9.7km, 999hPa

Busaiteen Users | Interviews Summary

			1	2	3	4	5	6	7	8	9	10	11								
Case Study	Interview n.	Type User	Do you usually come here? How often? Daily, weekly, monthly, etc? Cold or hot season? Week or weekend? Morning, lunch, night? Ramadan month?	Why are you here today? Which main activities do you do here?	How long are you living in Bahrain?	For how long are you coming to this place and how long do you stay?	Do you come alone, family, friends, work colleagues , etc.?	How do you reach the space and how long does it take? By car, by foot, by bike, by Bus, etc.?	Do you like to spend time here and do you feel comfortable and secure?	Which other outdoors spaces do you normally visit in your free time and for which activities?	What do you like and dislike about this space?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
BUSAITEEN	BU U001	Cricket Player	Only on Fridays, morning, from 7:00 to 10:00am, and evening from 2:00 to 4:00. No changes on timing from winter to summer. No playing during Ramadan. Season starts in September till late June.	Professional Cricket League	4 years	3 years	Colleagues from the same sport team	Car	Yes	Riffa and Awali cricket pitch and several indoor cricket fields in clubs, such as Indian, Kerala, Pakistan and Sri Lanka Club. "Malkiya is a very good place for families, I go there sometimes."	"He never know when we will be left with less pitches. Suddenly some of our fields were fenced by private owners to develop projects when we stayed with less number of fields."	Always play matches for the League, no practising.	Male	Pakistani	14th June 2019	Friday	3:30 to 4:10pm	UV Index 4	38 feels like 44	NW 24km/h	42%
BUSAITEEN	BU U002	Cricket Player	Only on Fridays, morning, from 7:00 to 10:00am, and evening from 2:00 to 4:00. No changes on timing from winter to summer. No playing during Ramadan. Season starts in September till late June.	Professional Cricket League	7 years	Started to play 2 months after arriving to Bahrain- 7 years approximately	Colleagues from the same sport team	Car	Yes	Riffa and Awali cricket fields.		Police never came here.	Male	Indian	14th June 2019	Friday	4:10 to 4:30pm	UV Index 4	38 feels like 44	NW 24km/h	42%
BUSAITEEN	BU U003	Cricket Player	Only on Fridays, morning, from 7:00 to 10:00am, and evening from 2:00 to 4:00. No changes on timing from winter to summer. No playing during Ramadan. Season starts in September till late June.	Professional Cricket League	4 years	4 years	Colleagues from the same sport team	Car	Yes	Plays in the souq but thinks it is crowded and also in the empty plot on the right side next to Muharraq bridge when going to Busaiteen.		Teams are usually mixed nationalities.	Male	Pakistani	14th June 2019	Friday	4:30 to 4:45pm	UV Index 4	38 feels like 44	NW 24km/h	42%
BUSAITEEN	BU U004	Cricket	Every Friday, Winter and Summer, mostly in the morning, from 6 to 8 or 9am. Sometimes in the evening from 4 or 5 till 7pm. In Ramadan we don't play because we have Muslins friends in our team.	Cricket	6 years	Around 2 to 3 hours but if it is too hot they will stay just one hour and leave.	Friends and colleagues from the sport team - fix team of 11 players from each side.	Drive car 15m to Busaiteen and 10m to the souq (with 4 friends)	"I feel secure and comfortable in both souq and Busaiteen site."	I also play cricket and volleyball in the souq site with my friends sometimes. "I usually go to gardens near to my house, like Andalus and Filipino Garden to walk, talk and do some picnics with friends, usually on Friday evening."	"Busaiteen is better than the souq. The souq is overcrowded. Busaiteen is free, is like public, no one can say you cannot go."	There is some tension between the nationalities playing cricket the location of their fields and the members of each team. "Bangladeshi and Bengalis mainly are there, they don't have car to circulate so they end up near there house."	Male	Indian	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%

Busaiteen Sellers Chart

Code	Nationality	Type of Seller	Date	Day	Time
BS_S001	Mohamed Eid	Food Truck	12th June 2019	Wednesday	8:30 to 8:50pm
BS_S002	Faisal Al Sherwoqi	Food Truck	12th June 2019	Wednesday	8:50 to 9:20pm
BS_S003	Sarah Khalifa	Food Truck	12th June 2019	Wednesday	9:20 to 9:35pm
BS_S004	Fouz	Food Truck	12th June 2019	Wednesday	9:35 to 9:50pm

Busaiteen 12th June 2019, 8:30 to 9:45pm, 36 feels like 43, 49% humidity, wind N 13km/h

Busaiteen Sellers | Interviews Summary

			1	2	3	4	5	6	7	8	9	10	11								
Case Study	Interview n.	Type Seller	Are you here everyday? At which time of the day - morning, lunch, afternoon, evening, night?	At what time do you start to assemble and dismantle the space?	What is the best time or hour of the day to sell?	Is there any difference between the different seasons of the year in terms of users?	Which nationalities usually use the space ?	Do you have returning costumers? Frequent buyers ?	Do you sell elsewhere? Where?	How do you consider the atmosphere on the space? Lively, fun, conservative, calm, relaxing, dull, etc.	Do you have a fixed place to sell? If no, why?	For how long do you have a commercial activity here?	Is this a full-time job or part-time? If it's part-time what is your main profession ?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
BUSAITEEN	BS S001	Food Truck - "Chemist"	Everyday - from afternoon till night. Food truck stays in the site	Start at 4:00pm and finish around midnight to 2:00am	Evening and night time specially in weekends and weekend eve	Winter is better than summer.	Mostly Arabs	Yes	Talabat and Carriage - food deliver apps - online. They go to different events happening across the country like the Food Festival, Formula 1, Iron Man, National Events, etc.	"Lively because we also have events happening almost everyday, like music concerts."	Yes. Layout is decided between all the sellers. In the beginning it was completely disorganised but then they decided to create a layout for all the sellers to follow.	Started in March 2019	Full-time job	The business relies a great percentage of social media content. Instagram, facebook, twitter, etc.	Male	Bahrain	12th June 2019	Wednesday	8:30 to 8:50pm	"	36 feels like 43	N 13km/h	49%
BUSAITEEN	BS S002	Food Truck - "Heat"	Everyday - from afternoon till night. Food truck stays in the site	Start at 4:00pm and finish around midnight to 2:00am	Wednesday till Friday night	Ramadan time boosted the business because they depend mainly of hight sales. "Cold season is better because people avoid hot weather."	Mostly Arabs	Yes	Talabat and Carriage - food deliver apps - online. They go to different events happening across the country like the Food Festival, Formula 1, Iron Man, National Events, etc.	"Fun and relax."	Yes. Layout is decided between all the sellers. In the beginning it was completely disorganised but then they decided to create a layout for all the sellers to follow.	Started in 2017	Full-time job	He is trying to open is own restaurant in Riffa, already has the project approved and it is planning to open it in 2 months. The business relies a great percentage of social media content. Instagram, facebook, twitter, etc.	Male	Bahrain	12th June 2020	Wednesday	8:50 to 9:20pm	"	36 feels like 43	N 13km/h	49%
BUSAITEEN	BS S003	Food Truck - "Oishi"	Everyday - from afternoon till night. Food truck stays in the site	Start at 4:00pm and finish around midnight to 2:00am	Cold season and weekends.	Nights are better than afternoons.	Mostly Arabs	Yes	We go to different events happening across the country like Water Garden, RUW carnival, Gravity. They also provide catering services and home delivering.	"Places next to public beaches are always nice. They attract people."	Yes. Layout is decided between all the sellers. In the beginning it was completely disorganised but then they decided to create a layout for all the sellers to follow.	March 201'	Full-time job	The business relies a great percentage of social media content. Instagram, facebook, twitter, etc.	Female	Bahrain	12th June 2021	Wednesday	9:20 to 9:35pm	"	36 feels like 43	N 13km/h	49%
BUSAITEEN	BS S004	Food Truck - "Edamama"	Everyday - from afternoon till night. Food truck stays in the site	Start at 4:00pm and finish around midnight to 2:00am	Evening and night time mainly in weekends	Weekend is better for business than weekdays.	Mostly Arabs	Yes	Talabat and Carriage - food deliver apps - online. We go to different events happening across the country, like pop up markets and privately own commercial galleria.	"Very Happy."	Yes. Layout is decided between all the sellers. In the beginning it was completely disorganised but then they decided to create a layout for all the sellers to follow.	1 year	Full-time job	The business relies a great percentage of social media content. Instagram, facebook, twitter, etc.	Female	Bahrain	12th June 2022	Wednesday	9:35 to 9:50pm	"	36 feels like 43	N 13km/h	49%

4. Laboratory 04 | MANAMA

a) Observation Chart

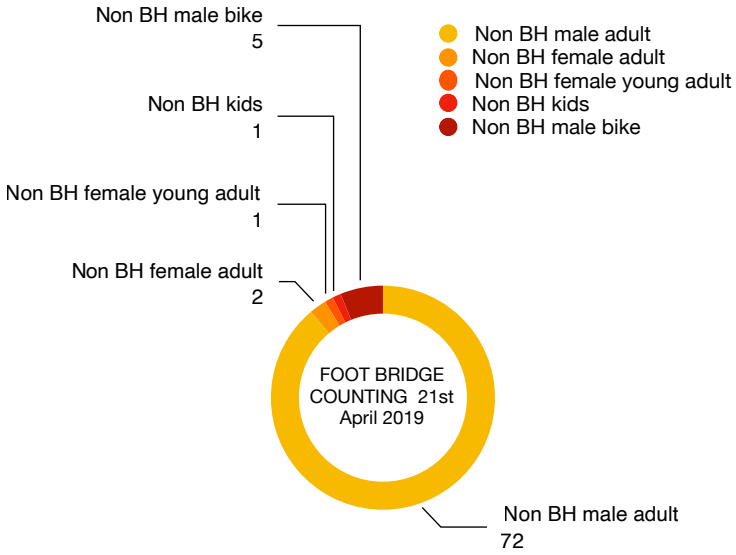
Code	Date	Day	Time of the Day	Time	Temperature UV Index	Humidity	Wind
SOUQ_OBS001	08/02/19	Friday	Afternoon				
SOUQ_OBS002	04/04/19	Thursday	Morning	10:00 to 10:30am	23 (UV index 6)	50%	24km/h Visibility 9.7km (hot and windy)
SOUQ_OBS003	04/04/19	Thursday	Afternoon Evening				
SOUQ_OBS004	05/04/19	Friday	Afternoon	2:00 to 4:30am	28	50%	24km/h Visibility 9.7km (cloudy)
SOUQ_OBS005	21/04/19	Sunday	Afternoon Evening	5:00 to 6:00pm	27	55%	Cloudy but very pleasant to walk
SOUQ_OBS006	23/04/19	Tuesday	Afternoon	3:50 to 5:30pm	22	42%	Very windy and dusty
SOUQ_OBS007	24/04/19	Wednesday	Night				
SOUQ_OBS008	25/04/19	Thursday	Morning	10:00 to 10:30am	27	50%	24km/h Windy
SOUQ_OBS009	26/04/19	Friday	Night				
SOUQ_OBS010	29/04/19	Monday	Evening	5:00 to 5:45pm	27 (UV index 1)	50%	No wind
SOUQ_OBS011	07/06/19	Friday	Night				

b) Counting

Footbridge Counting

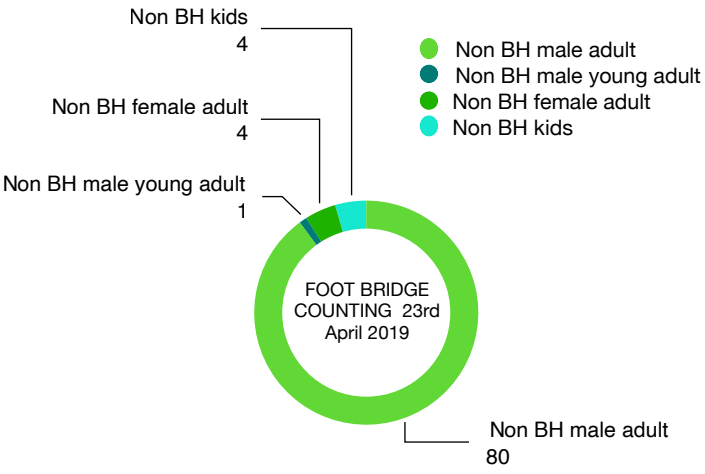
SOUQ_CRICKET 01 | 21st April 2019-1

Categories	Date	Value
BH male adult	4/19/19 9:56:41 PM	0
BH male elderly	4/19/19 9:56:41 PM	0
BH male young adult	4/19/19 9:56:41 PM	0
BH female adult	4/19/19 9:56:48 PM	0
BH female elderly	4/19/19 9:56:41 PM	0
BH female young adult	4/19/19 9:56:41 PM	0
Non BH male adult	4/21/19 5:07:34 PM	72
Non BH male elderly	4/19/19 9:56:41 PM	0
Non BH male young adult	4/19/19 9:56:41 PM	0
Non BH female adult	4/21/19 4:56:30 PM	2
Non BH female elderly	4/19/19 9:56:41 PM	0
Non BH female young adult	4/21/19 4:53:48 PM	1
BH kids	4/21/19 4:23:07 PM	0
Non BH kids	4/21/19 4:56:32 PM	1
Non BH Male bike	4/21/19 5:07:38 PM	5
TOTAL		**81**



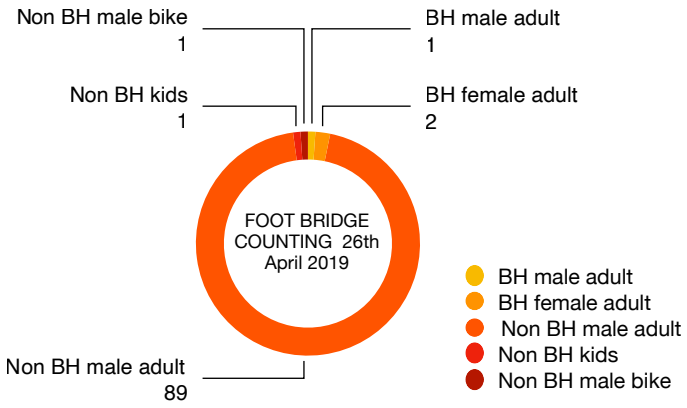
SOUQ_CRICKET 01 | 23rd April 2019-1

Categories	Date	Value
BH male adult	4/23/19 3:37:46 PM	0
BH male elderly	4/23/19 3:37:46 PM	0
BH male young adult	4/23/19 3:37:46 PM	0
BH female adult	4/23/19 3:37:46 PM	0
BH female elderly	4/23/19 3:37:46 PM	0
BH female young adult	4/23/19 3:37:46 PM	0
Non BH male adult	4/23/19 3:39:16 PM	3
Non BH male elderly	4/23/19 3:37:46 PM	0
Non BH male young adult	4/23/19 3:37:46 PM	0
Non BH female adult	4/23/19 3:37:46 PM	0
Non BH female elderly	4/23/19 3:37:46 PM	0
Non BH female young adult	4/23/19 3:37:46 PM	0
BH kids	4/23/19 3:37:46 PM	0
Non BH kids	4/23/19 3:37:46 PM	0
Non BH male bike	4/23/19 3:37:46 PM	0
TOTAL		**3**



SOUQ_CRICKET 01 | 26th April 2019-1

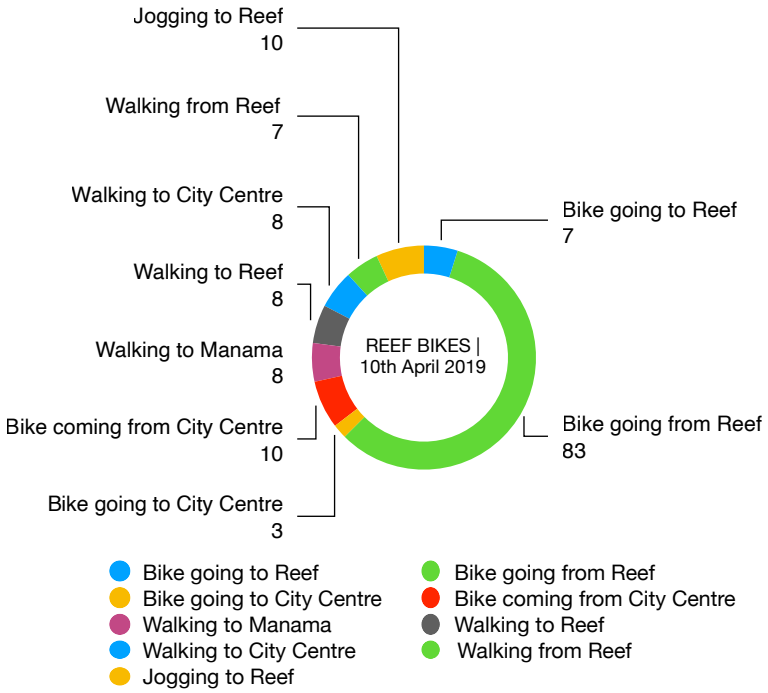
Categories	Date	Value
BH male adult	4/26/19 6:56:20 PM	1
BH male elderly	4/23/19 5:10:57 PM	0
BH male young adult	4/23/19 5:10:57 PM	0
BH female adult	4/26/19 6:56:19 PM	2
BH female elderly	4/23/19 5:10:57 PM	0
BH female young adult	4/23/19 5:10:57 PM	0
Non BH male adult	4/26/19 6:56:14 PM	89
Non BH male elderly	4/23/19 5:10:57 PM	0
Non BH male young adult	4/23/19 5:10:57 PM	0
Non BH female adult	4/23/19 5:10:57 PM	0
Non BH female elderly	4/23/19 5:10:57 PM	0
Non BH female young adult	4/23/19 5:10:57 PM	0
BH kids	4/23/19 5:10:57 PM	0
Non BH kids	4/26/19 6:54:33 PM	1
Non BH male bike	4/26/19 6:56:23 PM	1
TOTAL		**94**



Reef Counting

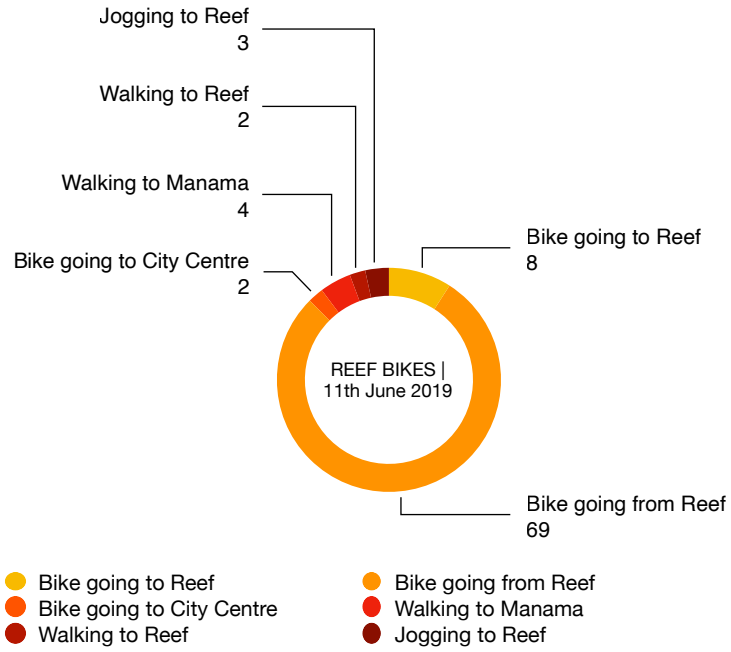
REEF BIKES | 10th April 2019 | 4:25pm to 5:25pm-1

Categories	Info	Value
Bike going to Reef		7
Bike going from Reef		83
Bike going to City Centre		3
Bike coming from City Centre		10
Walking to Manama		8
Walking to Reef	Female with baby pram	8
Walking to City Centre		8
Walking from Reef	2 female with umbrella	7
Jogging to Reef		10
TOTAL		**144**



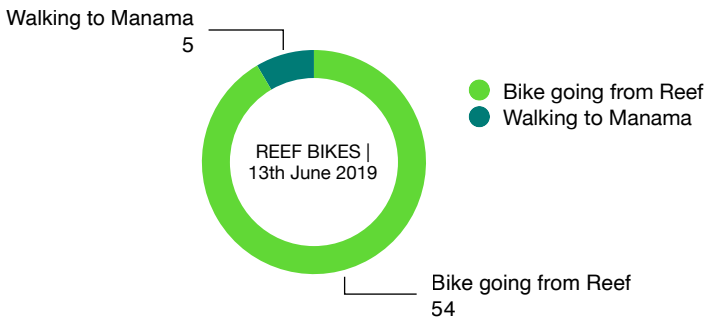
REEF BIKES | 11th June 2019 | 3:55pm to 5:00pm-1

Categories	Info	Value
Bike going to Reef		8
Bike from Reef	Majority started after 4:30pm	69
Bike going to City Centre		2
Walking to Manama	1 female with umbrella	4
Walking to Reef		2
Jogging to Reef		3
TOTAL		**88**



REEF BIKES | 13th June 2019 | 4:30pm to 5:00pm-1

Categories	Info	Value
Bike from Reef		54
Walking to Manama		5
TOTAL		**59**



WTC Zebra Counting

WTC_Zebra 02 | 23rd April 2019-1

Categories	Date	Value
BH male adult	4/23/19 4:41:56 PM	0
BH male elderly	4/23/19 4:41:56 PM	0
BH male young adult	4/23/19 4:41:56 PM	0
BH female adult	4/23/19 4:41:56 PM	0
BH female elderly	4/23/19 4:41:56 PM	0
BH female young adult	4/23/19 5:08:50 PM	1
Non BH male adult	4/23/19 5:09:01 PM	243
Non BH male elderly	4/23/19 4:41:56 PM	0
Non BH male young adult	4/23/19 4:41:56 PM	0
Non BH female adult	4/23/19 5:08:08 PM	1
Non BH female elderly	4/23/19 4:41:56 PM	0
Non BH female young adult	4/23/19 4:41:56 PM	0
BH kids	4/23/19 4:46:21 PM	0
Non BH kids	4/23/19 4:41:56 PM	0
Non BH male bike	4/23/19 5:06:32 PM	70
	Total	315

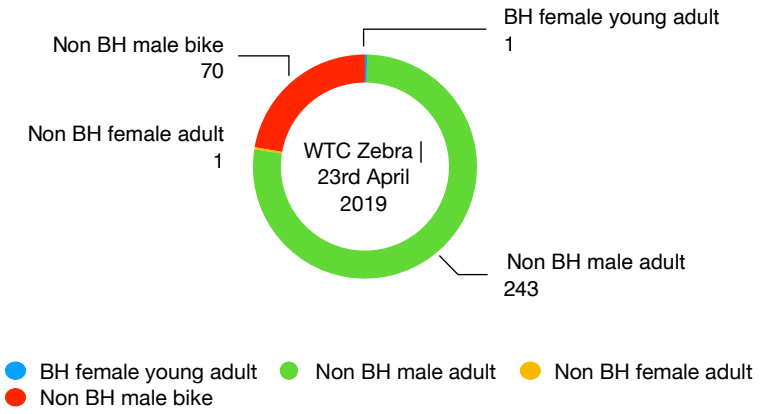


Photo Reef Bikes



Fig.01 Workers coming from Reef Island construction sites - biking towards their home in central Manama through the flyover bridge next to Laboratory 04 (evening time) - Author photos, 2019

Photo World Trade Centre Zebra



Fig.02 Mix of white collars and administrative employees, from Bahrain Financial Harbour towers, and construction workers, from the additional BFH master plan and Bahrain Bay under-construction areas- walking and biking towards their home in central Manama through the pedestrian crossway in Bab AL Bahrain (the souq main entrance) close to Laboratory 04 and the flyover bridge(evening time) - Author photos, 2019

c) Interviews - users

Manama Cricket Users Chart

Code	Nationality	Type	Date	Day	Time
SOUQ_U001	Indian	Cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U002	Bangladeshi	Cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U003	Kenyan	Football	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U004	Bangladeshi	Cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U005	Bangladeshi	Cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U006	Bangladeshi	Cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U007	Pakistani	Cricket, volleyball	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U008	Bangladeshi	Football, cricket	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U009	Bangladeshi	Cricket, football, volleyball	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U010	Bahraini	Football	25th June 2019	Friday	3:50 to 5:30pm
SOUQ_U011	Pakistani	Volleyball	25th June 2019	Friday	3:50 to 5:30pm

Souq Cricket 25th June 2019, 3:50 to 5:30pm, 35 feels like 40, 46% humidity, wind NN 14km/h, 1001, visibility 14.5km

Manama Cricket Users | Interviews Summary

			1	2	3	4	5	6	7	8	9	10	11							
Case Study	**Interview n.**	Type User	Do you usually come here? How often? Daily, weekly, monthly, etc? Cold or hot season? Week or weekend? Morning, lunch, night? Ramadan month?	Why are you here today? Which main activities do you do here?	How long are you living in Bahrain?	For how long are you coming to this place and how long do you stay?	Do you come alone, family, friends, work colleagues , etc.?	How do you reach the space and how long does it take? By car, by foot, by bike, by Bus, etc.?	Do you like to spend time here and do you feel comfortable and secure?	Which other outdoors spaces do you normally visit in your free time and for which activities?	What do you like and dislike about this space?	Observations	Gender	Nationality	Date	Day	Time	UV Value	Temperature	Wind	Humidity
SOUQ CRICKET	SOUQ U001	Cricket	Every Friday. In winter from 1:00 or 2:00pm to 6:00 and in summer from 4:30 to 6:30pm (when it is hot). They don't play during Ramadan.	Cricket	3 years	3 years	Friends	Bike 3 to 4m ride	Feels secure and comfortable	King Faisal Corniche (from the other side of the highway - cross pedestrian bridge) sometimes alone, sometimes with friends to socialise. Also the Manama souq area.			Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U002	Football	Fridays only because it is the day off from work. Summer from 4:30 till 6:00 and winter from 3:30 till 5:00	To practice football and prepare for tournaments	3 years	1 year and 4 months	Friends and colleagues from the sport team. Around 30 to have 26 players minimum.	Bus ride of round 50m from Tubli. (Manama Bus station is in the back of the site)	Feels secure and comfortable	Tubli and Juffair pitch, sometimes Saar on Wednesdays for Juventus Club. "I like to stroll in the souq area opposite to the Wyndam Hotel.	"I like to play here."	There is a senior and junior football team distinguish by skills not the age.	Male	Kenyan	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U003	Cricket	Every Friday. In winter from 3:00 to 5:00pm and in summer from 4:30 to 6:00pm (when it is hot). Play also during Ramadan at the same time.	Only Cricket	4 years	2 years	Family (two brothers) and friends	Walking 10m from Bab Al Bahrain.	Feels secure and comfortable	"At night I go to the Filipino Garden, Water Garden and King Faisal Corniche, walking through the foot bridge."	"I like everything."		Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U004	Cricket	Every Friday. In winter from 2:00 to 6:00pm and in summer from 4:00 to 7:00pm. I play also on holidays and we stop in Ramadan.	Cricket	3 years	1 year and half	Friends	Walking from home 10m	"Yes, it feels good here."	"No parks or gardens, just cricket."	"Yes, it feels good here."		Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U005	Cricket	Friday only. From 4:00 to 6:00 in summer and 2:00 to 5:00 in winter. Don't play during Ramadan.	Cricket	2 years	1 year	Alone	Walking from home less than 10m		"Just cricket."			Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U006	Cricket, volleyball	Friday only. From 4:00 to 6:00 in summer and 2:00 to 5:00 in winter. Don't play during Ramadan.	Cricket and volleyball	2 years	1 year	Friends	Riding bike for 30m from Karbabad area		King Faisal Corniche			Male	Pakistani	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U007	Football, cricket	Holidays and Fridays. From 2:30 to 5:30 in winter and from 4:00 to 6:30 in summer. Don't play during Ramadan.	Football and cricket	3 years	1 year and eight months	Friends	Walking 10m from the souq	Feels secure and comfortable	Filipino Garden and other spaces around Manama always with friends	"I like the space."		Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U008	Cricket, football, volleyball	Only Friday. Winter from 2:30 to 5:00pm and summer from 4:30 till 6:30.	Cricket usually and Football sometimes	7 years	4 years	Friends	Walking from home near Bab Al Bahrain 15 to 20m or sometimes car	"I like to spend my time here."	Sometimes Budaiya beach, Zallaq Beach, Water Garden park or corniche in special holidays like Eid when they have the day off.	"There is no sufficient light at night and no tree. Shading is missing."		Male	Bangladeshi	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U009	Football	Every Friday. In winter from 3:00 to 5:00pm and in summer from 5:00 to 6:30pm (when it is hot). Play also during Ramadan at the same time.	Football	-	20 to 30 years - his father was going there. He comes from 2011.	Family and relatives	Car 5 to 10m from Block 302	"I like it here."	"I only come here, I don't go anywhere else."	"I like it. Gathering is the best thing. Trees and shading could be a nice addition."		Male	Bahraini	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%
SOUQ CRICKET	SOUQ U010	Volleyball	Everyday in winter from 3:30 to 6:00 and in summer from 5:00 to 7:00pm. During Ramadan they come at night after the prayer time from 9:00 to 11:00pm.	Volleyball	22 years	2 years	Friends all bachelors	Waking 5m from Naim	"Fine, everything"	Hidd Club	"We like the place."	They bought the net and they think there is enough light from the highway to play after sunset	Male	Pakistani	25th June 2019	Friday	3:50 to 5:30pm	-	35 feels like 40	NN 14km/h	46%

ANNEXES 5

INTERVIEWS

1. Governmental Authorities
2. Private Organisations

1. Governmental Authorities Chart

Code	Authority	Position	Name	Date	Time
Interview A01	Capital Municipality	Chief of Municipality Services Licensing	Abeer Yousif Almahmeed	9th June 2019	9:00 to 9:45am
Interview A02	Ministry of Commerce, Industry and Tourism	Chief of Development & Technical Support Architect	Ahmed A. Nobi Al Mulla Eman Mandan	9th June 2019	10:45 to 11:25am
Interview A03	Capital Municipality	Gardens and Parks Division General Engineer	Eng. Fatema AlShaikh	9th June 2019	12:00 to 12:40pm
Interview A04	Muharraq Municipality	Technical Services Directorate Senior Engineer	Hussain Abdulla Qargoor	10th June 2019	8:30 to 9:30am
Interview A05	Muharraq Municipality	Head of Parks and Gardens	Eng. Hassan Nooh	10th June 2019	9:45 to 10:50am
Interview A06	Northern Municipality	Chief Park and Gardens	Eng. Hussain Ali Al Safar	10th June 2019	11:30 to 1:15pm
Interview A07	Northern Municipality	Advertisement Specialist	Eng. Ali Mohamed Eng Ali AlSarafi	11th June 2019	8:10 to 8:40am
Interview A08	Northern Municipality	Head of Properties	Ebtesam Zaid	13th June 2019	8:50 to 10:10am
Interview A09	Southern Municipality	Chief of Parks & Beautification Department	Eng. Aalaa Al Shamlan	13th June 2019	11:00 to 12:15pm
Interview A10	Southern Municipality	Head of Property & Markets Department	Mohamed Mahroos Alromadi	13th June 2019	12:20 to 12:40pm
Interview A11	Ministry of Works, Municipalities Affairs and Urban Planning | Urban Planning and Development Authority	Urban Observatory Head	Arch. Wafa Sharif	16th June 2019	9:45 to 10:45am
Interview A12	Ministry of Transportation and Telecommunications	Advisor to the Minister	Didar Dalkic	17th June 2019	10:00 to 11:40am
Interview A13	Ministry of Youth & Sports Affairs	Chief, Projects design Facilities & Projects Directorate	Fajer Ebrahim Alhashimi	30th June 2019	11:00 to 11:40am

Governmental Authorities | Interviews Summary

Interview A01	Capital Municipality	Chief of Municipality Services Licensing	Abeer Yousif Almahmeed	9th June 2019	9:00 to 9:45am

Bahrain is absent on rules regarding the commercial business of increasing food trucks, which between locals is called " public market" and can happen on the beach side, near shopping malls, in roads junctions, etc. Entrepreneurs either own the land or they rent it sometimes to family or relatives.

In 2019 the law only applies to public occupation so if the truck is in a private land no regulations or charges can incur. And even in the public space it only applies if stopped for more than 10 hours, so trucks keep on moving.

In June 2019 all four municipalities are gathering to decide the regulations for this new trend, which, among others, will include fences and car parking. There will be specific locations or areas where they will be allowed to park, preferably far from residential areas, for noise, privacy and safety reasons, without blocking the road circulation or constituting a hazard situation for cars and people movement. The Civil Defence will also have to emit their judgement as a license pre-requisite. If this law is approved the Ministry of Commerce, Industry and Tourism will be in charge of the emission of titles.

The food trucks initiative started two years ago with the support of the Crown Prince Office that fastened the emission of permits to business entrepreneurs, mostly Bahrainis, to promote variety in the national market, new jobs and raise of entrepreneurship locally.

Interview A02	Ministry of Commerce, Industry and Tourism	Chief of Development & Technical Support Architect	Ahmed A. Nobi Al Mulla Eman Mandan	9th June 2019	10:45 to 11:25am

The Ministry of Commerce, Industry and Tourism is in charge of the Commercial Registration (CR) of Activities. The food-trucks activity exists since December 2016, and it's possible to apply and yearly renew titles through their website. There are specific rules and mandatory channels that should be followed in order to get approval - LMRA, Municipality, Civil Defence, Ministry of Health, Ministry of Labour, etc. After approval the ministry doesn't track the activity, the municipality has to do so (inspections on the field), that is why a set of urban planning rules should exist to deal with their existence. Demand for food trucks activity has exponentially grown in the last year. Owners are mainly young Bahrainis that employed other nationalities, great percentage under the sponsorship of Tamkeen, which aims to foster the development and growth of enterprises. (https:// www.tamkeen.bh) Regarding the preferred locations for business the architect mentioned: "Next to the beach, we are an island, we like open air."

Interview A03	Capital Municipality	Gardens and Parks Division General Engineer	Eng. Fatema AlShaikh	9th June 2019	12:00 to 12:40pm

The budget allocated for Gardens and Parks is split into two categories - maintenance and projects. There are not enough parks for the municipality so they keep applying for new projects but there is always the budget restriction. When projects are of a smaller scale (less than 250 000BHD) they design them internally and can reward it to one contractor, but if it is a high tender (above 250 000BHD), private companies are hired and the Division only manages the project. For instance, currently they are working on the Sitra Walkway and Marina Beach Project. Also gardens and parks security is done by tender to a private company. About the population negative feedback, it comes from the lack or poor maintenance, specially the light fixtures, since almost all are more than 30 years old, but also from the constructive ones, particularly demanding for benches and shading devices.

There are no future plans for pedestrian bridges because “people do not use them” and “they are expensive”. About the spaces maintance, in Karbabad beach the municipality cleans the space but the sellers must provide the garbage bins.

“Bahraini people don’t go out so much but Indians go always in the sun.”

Interview A04	Muharraq Municipality	Technical Services Directorate Senior Engineer	Hussain Abdulla Qargoor	10th June 2019	8:30 to 9:30am

Negotiation is happening between the municipalities and the Ministry of Commerce, Industry and Tourism to approve regulations for Food Truck activities in the Urban Planning setting. The activity already exists and some of the former Bahraini types - ice cream and water selling carts already changed CR. As stated in the Capital municipality, criteria will be described and locations with some restrictions set, such as avoiding shopping locations and any governmental building. Maps with designated areas should be produced as guidelines for the inspections occurrence. Street vending of food, like fresh fish, meat or prepared food in the streets or selling the one from home is strictly forbidden and illegal, because it requires health scrutiny.

Presently, any restaurant or coffee shop needs to apply for “road occupation” and follow the municipality rules if they want to extend to the public space but food trucks “are everywhere and do not pay anything”.

Besides the food trucks trend, there is a “movable market” happening through the week in several locations in Bahrain, at different timings, that is completely illegal. The Parliament wants to make regulations and asked the Ministry of Works to work with other ministries and municipalities to create the rules. The government does not want to stop any of this activities because it is a source of income, instead they want to enhance and support them but within the law, like the Sijilat system created by the government. (https://www.sijilat.bh)

Cars shades were once permitted and titles were approved for their construction but they have stopped it for more than 10 years because the road is a public space so no permit can be given to build in a space that it is not individually owned.

Likewise, there are benches that are legal but others illegal. Most of the suggestions that come from the municipal council were related to the provision of benches and shading devices.

The “productive families” is and exceptional program promoted by the Ministry of Labour and Social Development where families can make their business in the house and sell handicrafts, perfumes, sweets, etc., and they also can frequently showcase it on public events.

"Malkiya and Karbabad are the most famous places for Bahrainis and they exist for a long time". Six to seven years ago it was less commercial than today. “People like informal spaces because like old days they are close to the sea, it is traditional and simple.” “Bahrainis would not feel comfortable if they would go to parks full of Asians and non-Bahrainis.”

Interview A05	Muharraq Municipality	Head of Parks and Gardens	Eng. Hassan Nooh	10th June 2019	9:45 to 10:50am

"The municipality has enough gardens - 32 - some are big and some are small.” Regarding food trucks “we are here to guide them, help them and support them by providing regulations.”

They do not design parks or gardens, they are drawn in the Common Municipalities Office, 90 to 95% of their work is towards maintenance operations. They suggested to increase: playing areas - like football pitches and playgrounds, beautification of highways and small gardens around neighbourhoods. From the municipal council arrive requests for the increase of seating areas and shading devices in the empty spaces of the neighbourhoods. The main problem identified is the vandalism that absorbs all the budget for maintenance leaving little room for other improvements. Many people want to plant around their house but there is no guidelines to follow, it is public space and water, electricity, tv, etc. are within the same place.

Interview A06	Northern Municipality	Chief Park and Gardens	Eng. Hussain Ali Al Safar	10th June 2019	11:30 to 1:15pm

In 2002, Northern municipality was founded and started to have its own budget. At that time, they had 10 to 11 parks. The aim was to have at least one garden in each of the 39 villages and 1 city - Hamad Town, to have an equal spread. In 2019 they reached 38 parks but there are still areas without the necessary coverage. In the old villages it is very hard to find available land, only enlargement of some roads can be done. The size of the empty plot impacts their utility- small lands are not enough to accommodate some activities and are costly to maintain, and big plots are very desirable lands in the market. Whenever there is a land subdivision, 30% should become public and urban planning decides its use - mosque, garden, sub-station, etc. These properties fall in the hands of the Ministry of Finance even if they are within the municipality, so nothing can be done with them unless they get its title, likewise they can only operate with the plots they own.

Beaches area usually a mix of population. Budaiya Beach, for example, is mainly used by non-Bahrainis but also a fare percentage of locals. In localised gardens there are mostly Bahraini families, some of them "new" Bahrainis. They have in hands a project for a 62000m2 park to be developed by a private sector company almost in the final stage.

Regarding selling of goods, the municipality enforces a fee on occupation of municipality land and road. Bahrainis sell in gardens, specially during the weekends, after 4pm, next to or inside parks and gardens, when they are at their maximum occupation. They pay a 5 to 10 BD fee and have an ID card, for this licensing, with the "location of sale" so they are considered legal. There are no requests from non-Bahrainis till date. "We encourage this type of business… the main idea is for public service."

"Informal spaces are very big."

In 2007 development of gardens in the Northern area stopped because no more land was available. But Municipal council continued to ask for more spaces so it was decided that the only possibility was to try to provide informal public spaces. Population and council members went to private land owners and requested their approval for informal temporary activities in their land. The municipality would then design, build and maintain the informal spaces. It was a very successful approach, particularly at sports level, because of the lack of dedicated facilities. "There was a time it reached 50 informal open spaces, we call it playgrounds."

This practice ended in 2015 because it "was everywhere and the maintenance was very expensive". It was also very hard to explain why money was being spend in plots that did not belong to the municipality.

Shading devices for cars and small gardens outside the boundary walls were common features seen as road occupation (m2). Few years ago the ministry asked the municipalities to finish the emission of licenses for shading devices because no consensus existed for - material, dimensions, height, width of the road, etc. - and cases should not be looked at individually.

Until 2009 each municipality designed, tendered, supervised the construction, managed and secured the parks, but after 2009 the design unit ceased projecting and all stages of design were done and managed by the Common municipalities. Security was also tendered to private companies.

From the 280 plots allocated for gardens in the masterplan of Hamad Town less than ten were built. Northern City is still under the jurisdiction of the Ministry of Housing and the municipality would only take it after receiving an increment on maintenance budget. "What is expensive is not to build but to maintain."

In 2019 the municipality totalises 143 plots for open public spaces, from which only 38 are formal gardens, informal gardens sum up to 44 and the remaining for informal playgrounds, football and other sports fields and kids play areas included. The sidewalks and micro-spaces were not listed.

Furthermore, through the municipal council other requests were fulfilled such as concrete benches in the corners and shading devices.

Maintenance costs are the harder to control, once a space opens the next day already needs to be repaired "they break everything". Example of Budaiya beach damaged sprinklers even with 24h security in place.

Interview A07	Northern Municipality	Advertisement Specialist	Eng. Ali Mohamed Eng Ali AlSarafi	11th June 2019	8:10 to 8:40am

Waiting for decision on food trucks regulation. At the time no charges can incur when they are set in private lands. Productive families are handled by the Ministry of Social Development and road occupation follows the existing laws.

Interview A08	Northern Municipality	Head of Properties	Ebtesam Zaid	13th June 2019	8:50 to 10:10am

Malkiya Beach Association exists at least since 2006. The village gathers around an association of volunteers, many from the youth, that manages, protects and cleans the beach area. Around 2010, because the municipality didn't own the beach, it looked for private sponsorship and found ALBA (Aluminium Bahrain) who promptly donated the money and designed and constructed the "formal" beach and garden area with the municipality coordination. When ready, the Association asked the neighbourhood population to gather in the space to sell things for a small fee that was later used to maintain the space. In 2012, the Ministry of Finance gave the land title to the Northern municipality, who immediately met with the association to study and verify what was happening in the space to make it legal. From this reunion a list of sellers was drawn with an authorised letter with data information, like location, activity, time, week or weekend, etc. Joining both association and municipality efforts of legality, a layout was prepared, by the second entity, aiming to attract a private company willing to invest in this small commercial rental units. With no biding and no financial resources to support the initiative on their own, the municipality still waits for some agreement. They will further announce it in the fourth quarter of 2019. There are 14 kiosk applications on hold and 20 kiosks planned.

The monthly counting from the Gardens and Parks department reached to a peak of 5000 visitors from different nationalities including nearby Arabic countries, like Saudi Arabia. It is mostly crowded in the winter not in the summer, when people usually enjoy it in the early mornings or night time.

The municipality thinks that the proximity to the water and the non existing barriers enhance the visitors positive feeling of belonging - "to be able to use the beach, go to the water and touch the sand"; "they come in the morning and stay all day and leave at night. They order food or bring it from home."

All the land in Malkiya beach is occupied by the population but only half, the formal beach and garden belong to the municipality, the other half, the informal Malkiya beach, is owned by His Majesty the King, who doesn't mind if the population uses the space and doesn't charge or implement a physical barrier in it. The Malkiya Beach Association is taking care of this second area.

The famous boat rides had to be stopped by the Ministry of Interior because of the lack of security and safety procedures after the death of a person two years ago. Ministry wants to restart the activity and even promote the awareness of corals and fish protection, legalising the activity with the introduction of specific rules to be followed.

Interview A09	Southern Municipality	Chief of Parks & Beautification Department	Eng. Aalaa Al Shamlan	13th June 2019	11:00 to 12:15pm

Very keen to improve the existing parks and upgrade them, by introducing some variety through materials, furniture, layout, physical barriers, to “very old fashioned and repetitive parks”, but the budget is restricting the changes into a gradual process that might take 5 to 10 years, because struggling with vandalism quickly wastes the budget on maintenance. Population mentality should change by increasing engagement with new activities such as the one conducted by Al Khalifa Youth Society together with Muharraq Municipality and NIAD (National Initiative for Agriculture Development) for upgrading neighbourhood parks and gardens - as part of a beautification initiative.

Public spaces are not well distributed because they are not considered from the planning stage or, when they are, they are easily transformed or replaced for different activities because many entities with different wills are involved in the process. So public spaces are doomed to land availability and “there is no land”.

In the new housing projects, they provide the land for public space, but no infrastructure is set, no water, no electricity. Municipality requested the ministry to participate from the beginning so coordination between various entities can successfully happen. There are very good examples of aesthetically appealing projects, like the recent Al Khalifa Village, the problem is that they are very expensive to maintain because the area has to be watered by tanks which becomes financially difficult to support.

The big parks, like Khalifa Al Kubra, are too crowded - “kids take turns to use the play equipment”- because they provide a greater variety of facilities in a huge area. To help the control of the number of users and reduce the vandalism, a 300 fills fee was introduced, as well as the “family day only” on Thursdays and Fridays, the busiest days. The fees reduced the low income and bigger families, “more heads” , but the elderly can still enter for free.

In the Southern Municipality, winter season is an extremely important time for outdoor public activities, such as official “desert camping” and some informal activities in Zallaq and Sahkir - picnics, sports, food trucks, barbecues, fireplaces, etc. The official camping is controlled by the government with a specific set of rules and guidelines, defined layouts and areas. People complain that the allocated area is reducing every year, so no one knows what will happen in the future, but it is still happening now.

In the past, they were also involved to help the population in any way they could, with the shortage of land dedicated to public spaces, coordinating with the representative council for levelling fields after rain, collecting garbage, providing equipment, but not anymore.

Vandalism is the main culprit for delaying the upgrading of existing public spaces or to create new ones . It can vary from cutting trees for picnic fire, or to sell the wood, to use garbage bins for barbecuing.

Currently all municipalities are in line with Sheik Nasser Playground Project of increasing the public areas for sports and health, looking for available lands or existing gardens.

Interview A10	Southern Municipality	Head of Property & Markets Department	Mohamed Mahroos Alromadi	13th June 2019	12:20 to 12:40pm

Food trucks are a "new creation" that started 4 to 5 years ago without any legal support. The Ministry of Commerce, municipalities and the ministry of Health should all be involved in the approval process - "but they cannot stop the business, it came by force. Avenues, Seef, Saar, etc. People are trying to do something different., to create."

For now, regulations still don't apply, only the CR (commercial registration) can be done. After, the CR will be linked to the plate and the car number.

If they park on the public space, they should get permission - Way Leave - to the traffic, police, civil defence, and a tax would be paid. If they occupy a public park, garden or any other space that belongs to the municipality, a written agreement should be signed, like a rent or a leasing. This occurs mainly next to public buildings, such as schools, mosques and hospitals. If they stop on private properties, nothing can be done unless the normal municipal tax, that already exists for any type of occupation. To avoid complains they move away from residential areas.

There is also a "Night Market" that changes location everyday, that happens without permission, and that lasts for 3 hours approximately.

Interview A11	Ministry of Works, Municipalities Affairs and Urban Planning | Urban Planning and Development Authority	Urban Observatory Head	Arch. Wafa Sharif	16th June 2019	9:45 to 10:45am

The objectives and developments of Bahrain Economic Vision 2030 are applicable and practicable in all new developments, however they present some constraints to the existing ones. Recently, there is an increase of pressure from private and public companies to build in lands with seafront access. The unit has some guidelines for public outdoor spaces that they use internally:

TYPE 1 - Playground (neighbourhood scale)

- 25000 population
- 300m radius
- 2500m2

TYPE 2 - Parks or Gardens (District scale)

- 100000 population
- 500 / 1000m radius
- 2 hectares

TYPE 3 - Parks (National scale)

- 2000000 population
- No radius
- 4 hectares

In the private companies, the residents will pay the fees for the outdoor areas so the criteria are usually met, but in the Ministry of Housing projects the budget and the highly expensive infrastructure restrain the implementation of the public space. Apart from the various initiatives happening from different entities, like Sheik Nasser initiative for 100 playgrounds or Muharraq Pearling Path, there is a lack of cooperation and coordination between the governmental institutions.

The private outdoor spaces, like Avenues, and the gated communities targeting young Bahrainis, as well as expats from middle and high income families, with little children, provide good landscape areas, which are never vandalised like the public areas commonly are. “Block 338 in Adliya is a very good example of an inclusive outdoor public space that we would like to replicate.” To be a pedestrian friendly country much has to be done. Municipalities are in charge of the greening areas and all regulations are very old and within a lot of gaps. Recently the UPDA are using the Abu Dhabi “Street Design Manual” to fill the blank.

The Bahraini government always summon foreign companies to provide guidance and expertise to the urban planning scheme. The Bahrain-French Town Planning Initiative worked for 2 years in UPDA office to develop a “new sustainable urban development policy”. Unfortunately, as time went on and with the speed of urbanisation, some determinations were impossible to be achieved. Concepts are the only substance that could be extracted from the document. The new airport (2nd), was given as example, it is supposed to start operating in the first quarter of 2020, but in 2019 the government started a reclaiming land process in the North of Diyar for a third future airport, since the new, second one, will reach its maximum capacity in 2030 or even before. The reality surpasses the planning initiative. Also, with the Bahrain National Planning Development Strategy won by SOM, Skidmore, Owings & Merrill, in 2007, the story repeated, the plan was never truly implemented and was replaced in 2016 by an Atkins update that is now commonly used.

Furthermore, they believe that the “western layouts” showcased in most of these foreign plans are dysfunctional and not culturally suitable for Bahrain environment.

Regarding the new trend of the food trucks, they don’t have any power, the municipalities are the closest authority on them. They normally happen in open lands, undeveloped, and they believe each nationality will use them in a different manner depending on their background. Also that this will primarily happen in areas where no formal public spaces are available. Furthermore, it is mentioned that the success of Karbabad informal area relies on the fact of being in a Unesco protection corridor, which won’t be changed allowing people for so many years to continuously use it.

Interview A12	Ministry of Transportation and Telecommunications	Advisor to the Minister	Didar Dalkic	17th June 2019	10:00 to 11:40am

Roads are a part of the Ministry of Works, and public transport belongs to us, the Ministry of Transportation and Telecommunication, "but no one is responsible for the public space." Even the design of the lighting in the new infrastructures are car driven, there is no public space design. Their scope and budget doesn't include the public spaces study. However, they did a walkability survey in 20 selected points, since "walkability" is a main concern for public transport success, which allows to identify the obstructions and plan for improvements. Metro stations need to be accessible for users and be able to coop with the catchment area demand as such, landscapes projects will be drawn for all stations. Parallel, the Bus network will have to change when metro starts to operate in order to work in consonance , so the Bus can feed the gap between each metro station, as each station will be approximately distant 1.5 to 1.7km from each other and will serve a walking radius of 200m, leaving more than 1 km to be manipulated by the Bus network.

Park and Ride will happen in the GCC Station (Middle East regional train station) next to IKEA, in the yellow line. Another potential area is the airport. "In the future all parking spaces will be paid, no parking will be free."

Bahraini tradition lies on souqs and private majlis, nowadays mostly on malls. If we look at the Scandinavian example, "outdoor is freezing but people still go and walk, also in UK when it snows. Would people walk if we provided the infrastructure? Infrastructure is the key." They have plans to provide footbridges in several locations to articulate urban tissues and serve the catchment areas of the new elevated metro line (15m high from the street level, served by escalators, lifts and staircases, with the first level as a concourse and above it the lines). Only one part of the new line will be inverted, because of the historical landmarks present in the site, which are the Al Fateh Mosque and the Guaidabiya Palace.

Traffic problems are increasing with the exponential growth of population and the number of cars circulating in the country. "When it will explode? Is unpredictable. But with metro is the opposite we will always know how much time it will take us to ride from point A to B. This will definitely influence people decisions in the future."

Metro needs a transit oriented development, so coordination is happening between different entities, to tackle land ownership, zoning and urban planning regulations, public spaces design to guarantee a TOD. "Almost all the lands that we deal are either governmental or private." Some shopping malls want to integrate the metro stations within their buildings. "In Dubai they were able to reduce the number of car parking in the private developments next to the metro stations as infrastructure is very expensive."

Questioned about dedicated bike lanes, bikes parking and on board, first two should be definitely encouraged, last one needs to be debated between authorities.

Interview A13	Ministry of Youth & Sports Affairs	Chief, Projects design Facilities & Projects Directorate	Fajer Ebrahim Alhashimi	30th June 2019	11:00 to 11:40am

Sheik Nasser project to build 100 playgrounds is a top priority. The ministry with the municipalities are looking for land all over Bahrain, sponsored by the private sector, through a mutual understanding, a type of lease, when the owners do not have a specific plan for that land for the upcoming two years. Whenever possible, they will also target unfinished governmental housing projects. Subsequently, it does not exist a specific size for playgrounds (football, basketball, sand pit, kids playground, etc.), it depends on the area of land available, as well as it will become impossible to provide an even distribution. The type of sport will depend on the area and type of neighbourhood, it can vary from handball to cricket.

2. Private Organisations Chart

Code	Authority	Position	Name	Date	Time
Interview P01	Bahrain Food Truck Group	Mentor Active Members	Mohamed Eid Faisal Al Sherwoqi Sarah Khalifa Fouz	12th June 2019	8:30 to 9:50pm
Interview P02	Malkiya Charity Society	Active Member	Abdul Nabi Al Ghareeb	16th June 2019	11:30 to 12:30pm
Interview P03	Cricket Bahrain Association	Secretary	Zaheer	17th June 2019	1:50 to 2:50pm

Private Organisations | Interviews Summary

Interview P01	Bahrain Food Truck Group	Mentor Active Members	Mohamed Eid Faisal Al Sherwoqi Sarah Khalifa Fouz	12th June 2019	8:30 to 9:50pm

A young Bahraini entrepreneur, Mohamed Eid, owner of "The Chemist", started the Bahrain Food Truck on the ground and in the social media at the end of April 2019. The group consists of a 100% young Bahraini entrepreneurs, around 60 brands at the time, male and female, who recently engaged with the food truck business. They all met in Busaiteen beach, some were already friends, the word spread and they built a cohesive group which gathered every two weeks to debate new ideas and develop business strategies for a year, the two seasons - summer and winter. The prior feedback of Busaiteen beach was very positive and some food trucks and activities already existed. When they joined they tried to incorporate the existing businesses under their umbrella and they upgraded the space by together deciding on a new layout, fair and clearly organised, with a fixed location for each, a well distributed and attractive lighting system, promoting different events and activities, if not daily at least during the weekend and Thursday night. They said that a constructive competition started between them to see who produced a better socially appealing environment, distinguished by the add-ons exhibited in their surrounding space with furniture, light, decoration elements, etc. "We learn with each other."

Anyone can be a part of the group, but all the existing participants need to vote and decide the inclusion of the new food truck. They don't see it as a competition but they mentioned that " we complete each other, some sell sweets, others coffee or sandwiches, burgers, pastries, vegan food, etc."

The lights, week performances, advertisements, social media, and any other requirements, like stages, are equally payed between all the elements of the Food truck group. Everyone is allowed to go to for different events outside that area, whether sponsored or with fees, such as the Food Festival in Avenues, the Festival City, the Formula 1, the Iron Man, the National Day events. But if the leader decides to move the "base" location everyone will follow him. During the Eid Holidays, the BTA - Bahrain Tourism Authority - invited the group to gather in Juffair, near the Grand Mosque, in a

public undeveloped land to attract a new people from Manama and Juffair to boost the livelihood of that place. Normally this is a full time job for most of the owners, only some are part-timers, also most of them employs staff from other nationalities. The space opens around 4:00 to 6:00pm and can stay up till 2:00 to 3:00am if there are customers around. The stage performances happen between 9:00 to 10:00pm. The majority of the food trucks are left in the site, they only leave if they are covering another event. They all have an online CR and some have a Tamkeen support. They don't want to ask for any support for the municipalities, they want to show them how much it can be achieved as a group. In terms of Civil Defence requirements, they all must have a fire extinguisher in the truck.

The new location was so successful that the BTA asked them to continue in the space after the Eid finished.

When questioned about both locations, they referred in Busaiteen there is nothing there but the 'park and go' was very easy, in Juffair is more to call and then collect. Busaitten were mainly Arab nationals, Bahrainis, contrastingly the Juffair site had more US citizens and GCC nationals."

There are a couple of existing food trucks that have been so successful that they are planning or undergoing to process the opening of their own fixed location - restaurant, patisserie, burger, etc. - with the Tamkeen support.[1]

Interview P02	Malkiya Charity Society	Active Member	Abdul Nabi Al Ghareeb	16th June 2019	11:30 to 12:30pm

Malkiya Charity society and Malkiya Association are two existing groups of the Malkiya community that as volunteers fulfil several tasks of charity, support, maintenance, cleaning and awareness campaigns to maintain a sustainable environment in their neighbourhood. The fisherman community is original Bahraini, Shia section.

After the beach refurbishment underwent by BAPCO and the Northern municipality ended in 2010, the association has been in charge of the area and the money of the rents, from the restaurants and play rooms allocation to the cleaning and maintenance process. Since then, because of the commercial pressure, the association requested the municipality for more stalls. A project still on hold.

The association claims that the peak is in the Summer from 4:00 to 11pm and in Eid time from 4:00 to 2:00am - "swimming attracts more people to the beach." In other seasons there is more people in the evening, from 7:00 to 9:00pm and specially on weekends and Thursday night. Early morning, around 5:00am there are habitual customers, many retired people and sports and walking enthusiasts.

Some problems encountered refer to the noise coming from the parking and some circulation and car park abuse, because there is no gap or layer between them and the beach, requiring Police

[1] Tamkeen is a public authority established in August 2006, tasked with supporting Bahrain's private sector and positioning it as the key driver of economic growth and development. It has developed a range of programs that provide the support Startups need to develop and grow their business, by obtaining funding, support for equipment as well as get access to advisory services to help increase their productivity and creating growth.

everyday rounds to ensure normality. There are always barbecues and shisha, which are not permitted by beach regulations, taking place in the informal area at night time and in spaces with less light. Furthermore, the car access is very hard, thus provision of new roads could solve some circulation and parking problems.

Interview P03	Cricket Bahrain Association	Secretary	Zaheer	17th June 2019	1:50 to 2:50pm

For more than 30 years, cricket has been played in Bahrain in several leagues under different umbrellas yet only in 2017 the Cricket Bahrain Association had brought them together to establish a Divisional League (professional and corporate) with more than 90 teams participating and competing in 5 divisions.

In 1981 few teams, around eight, were playing in Sitra grounds but they had to leave for security reasons because of the petrol pipeline. From 1995 till 2006 they stayed in King Hamad Hospital location, in Muharraq, till they started to build the complex. Then, in 2006, after an agreement with Muharraq municipality, they moved to Busaiteen grounds, accepting to move when the land is needed. At this stage they already lost three fields. Before they had to drive 2 to 3 km to reach the grounds but now, because of the new housing developments from the ministry, they are very close to the residential area.

In the season 2017/2018 there were 22 grounds, 20 in Busaiteen plus two more in Riffa, in 2018/2019 only 19, because three in Busaiteen were taken. In Riffa they started in 2007 with nine grounds, but two years after the schools were built so only two remained. There is another ground in Awali very well organised, that is now only used for friendly matches. Currently, they have 100 teams registered and more want to join, but they require additional grounds. Since the space available cannot accommodate 100 teams, the games area split in morning and afternoon. Every Friday they have around 1500 people gathering to play cricket.

Seasons run from September to end of June and stop during July and August. In each season there are 3 tournaments - T20, T25 and Knock out - and some special events on holidays, like the New Year tournament, the 16th December, the Prophets Birthday and the Labour Day.

All the teams' members need to be registered in the Association with a minimum of 16 for team. The CAB provides 2 umpires for match, that are trained and qualified to supervise the games. The fees for division vary and all have a sponsor which incurs the expense. Every year, 20 players are selected for the national team of Bahrain under specific criteria.

In terms of structure, the Association has a board constituted by several nationalities and under four groups in charge of data entry, media records, statistics and ground men. Every season the ground men have to roll, mark and prepare the grounds for cricket.

Overall there is some disappointment on the number of years invested on the field and the opportunities or improvements launched. "I'm 15 years on the field playing in cement. It should be turf." They hope to approach H.H. King Hamad or Royal Family members to create noble conditions for the sport.

ANNEXES 5

MISCELLANEOUS

1. “Dérive” - Photo Report
2. Field Work

1. Dérive - Photo Report

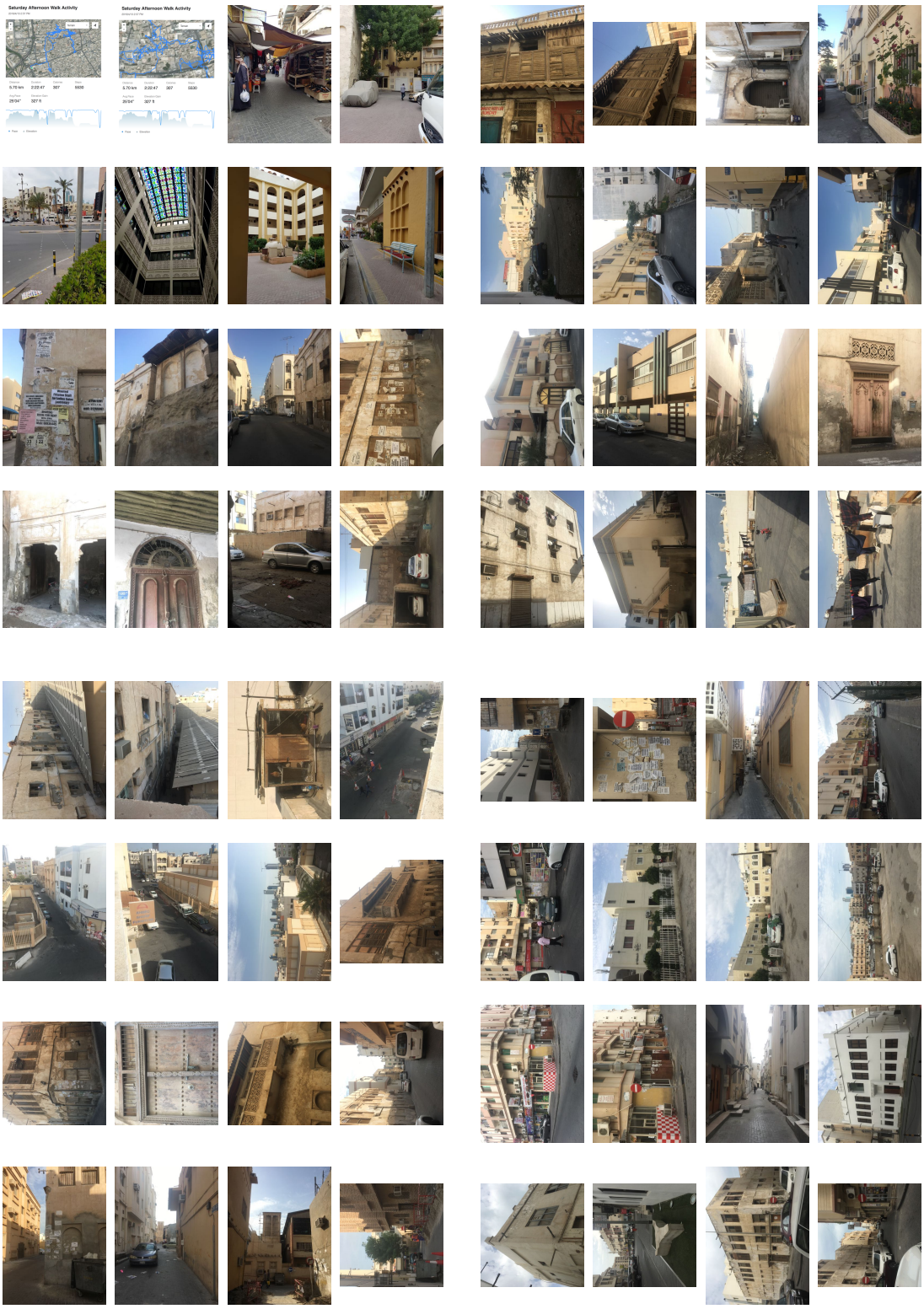


Fig.03 - Manama Souq - Saturday afternoon - 14/03/2019, Author photos

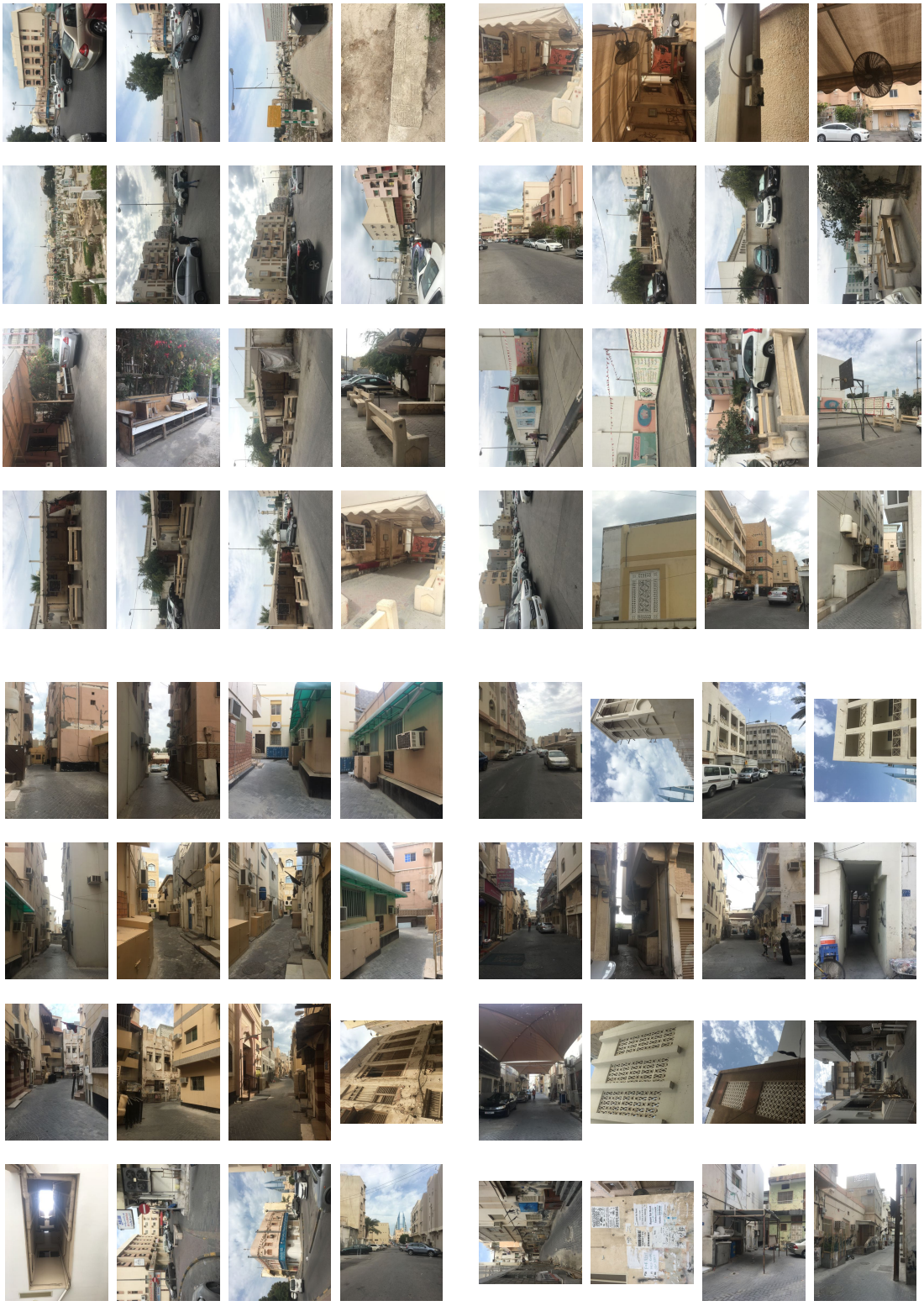


Fig.04 - Manama Souq - Saturday afternoon - 14/03/2019, Author photos

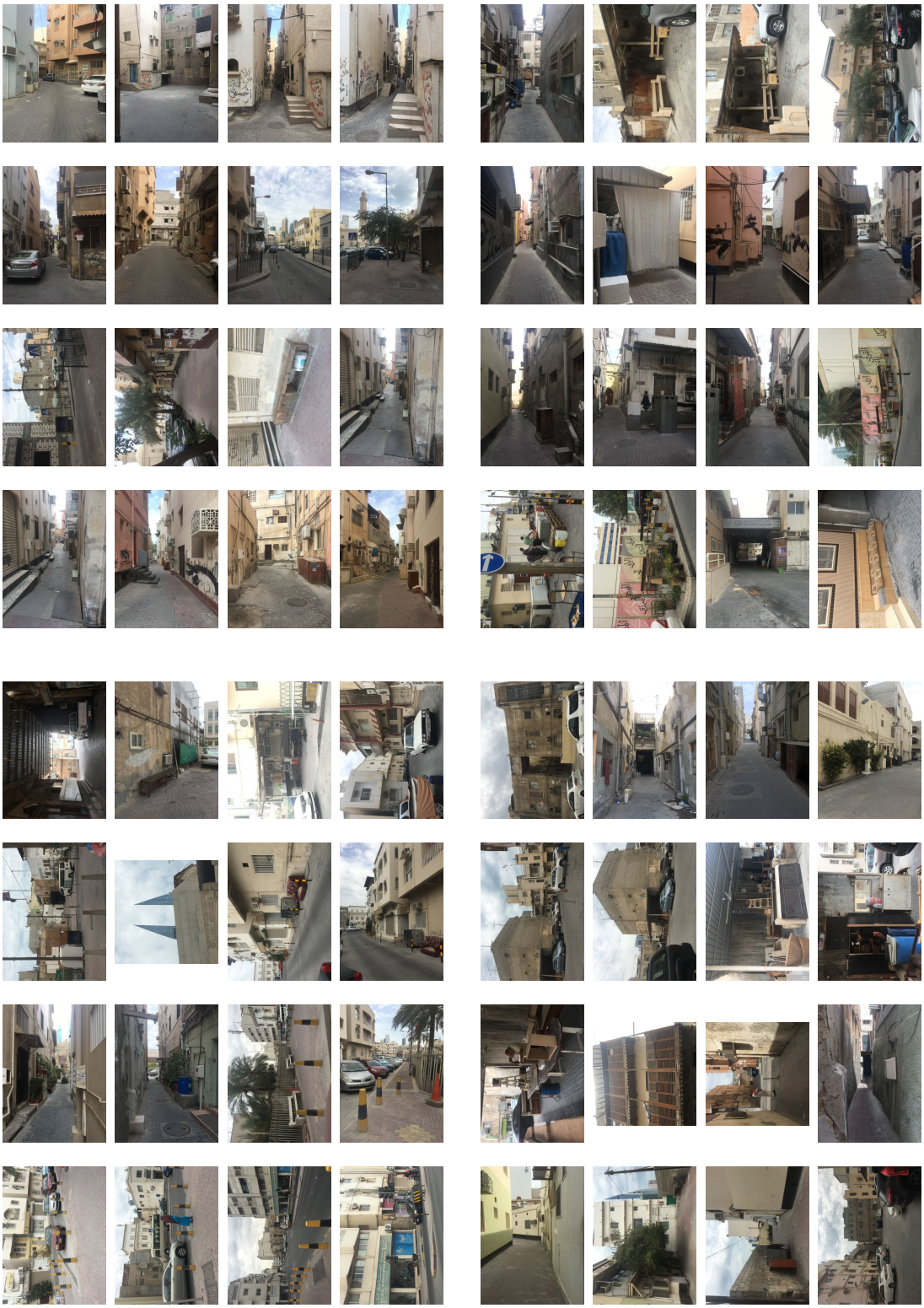


Fig.5 - Manama Souq - Saturday afternoon - 14/03/2019, Author photos

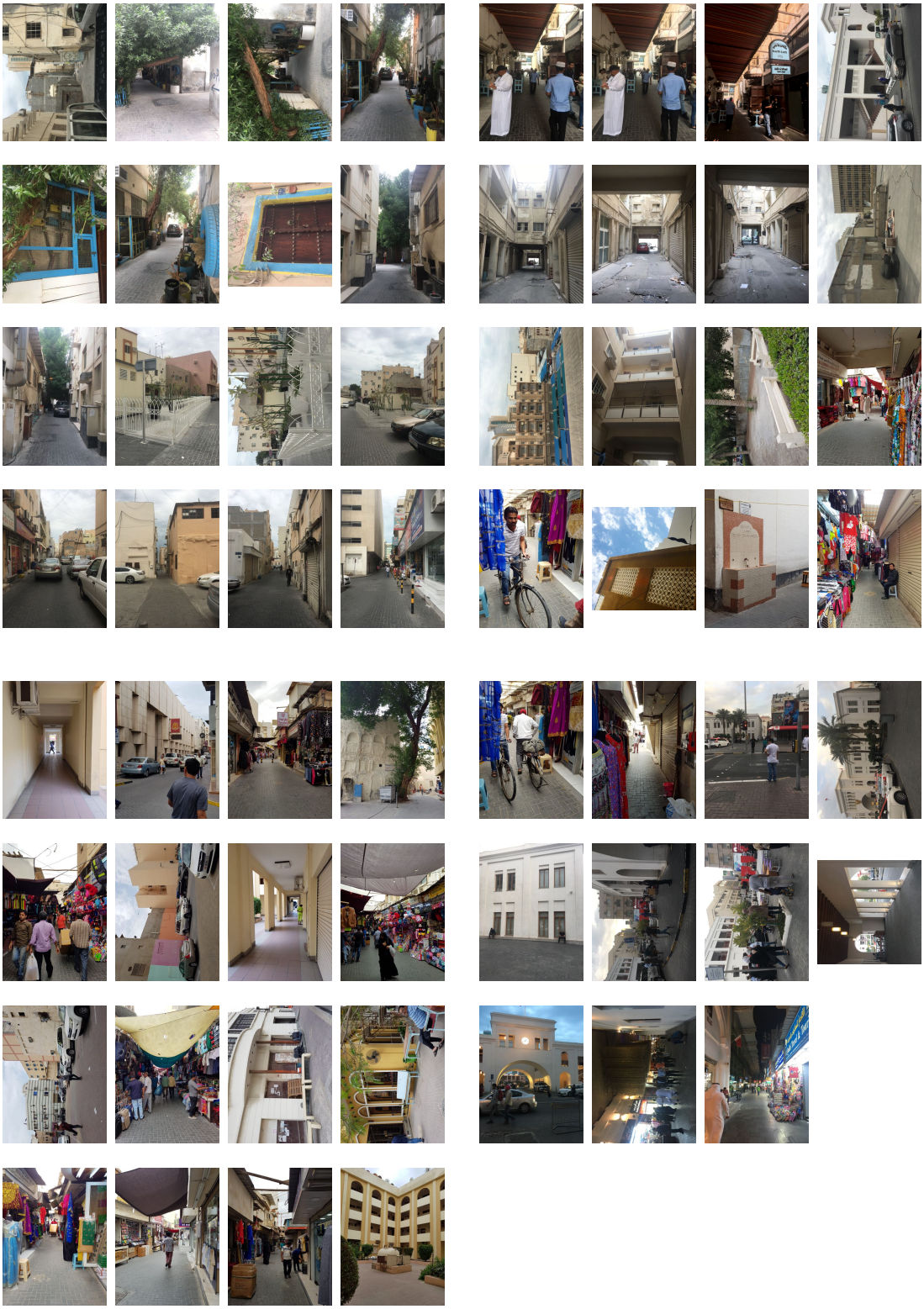


Fig.06 - Manama Souq - Saturday afternoon - 14/03/2019, Author photos

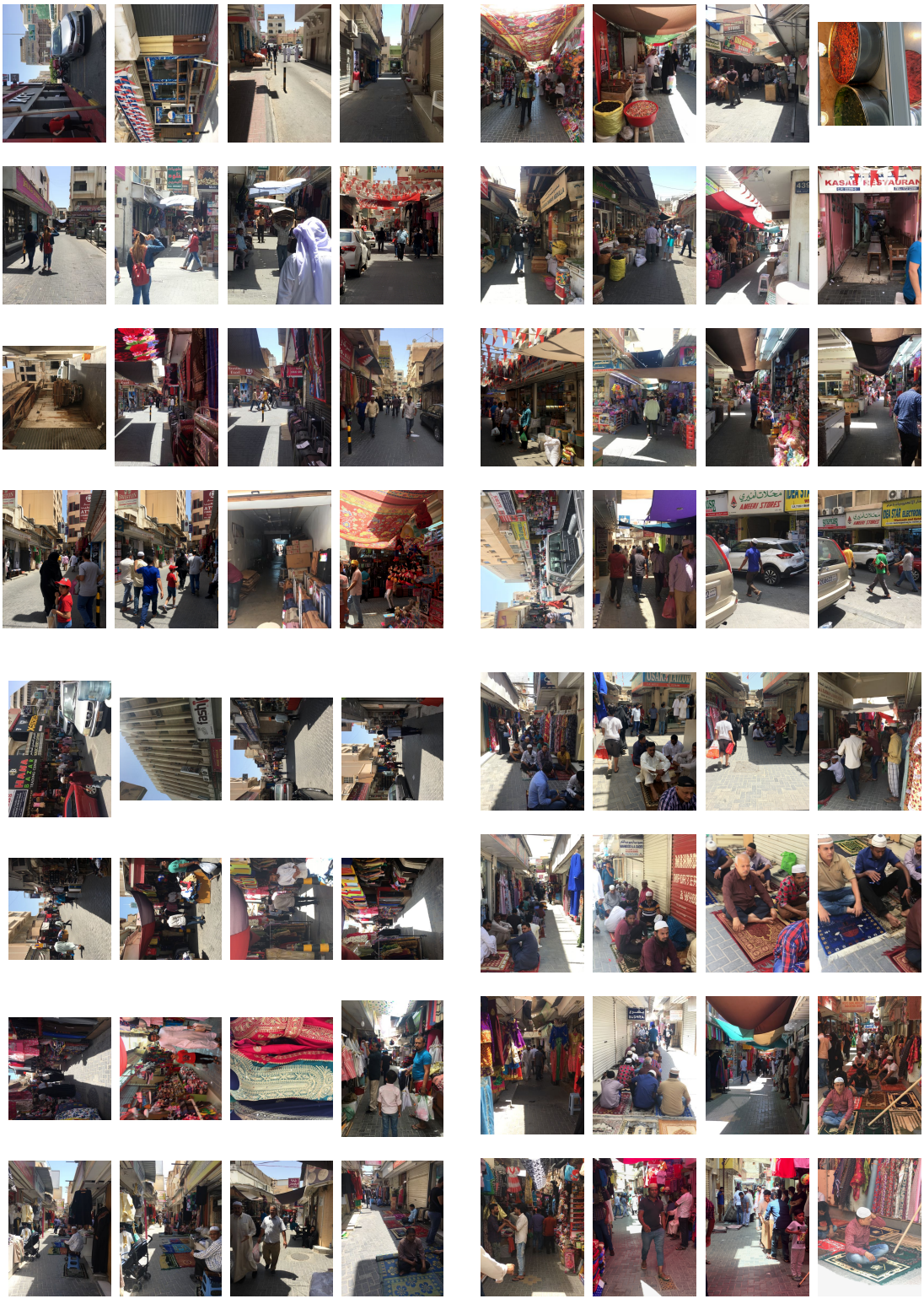


Fig.07 - Manama Souq , Friday morning, Prayer Time, 19/04/2019, Author photos

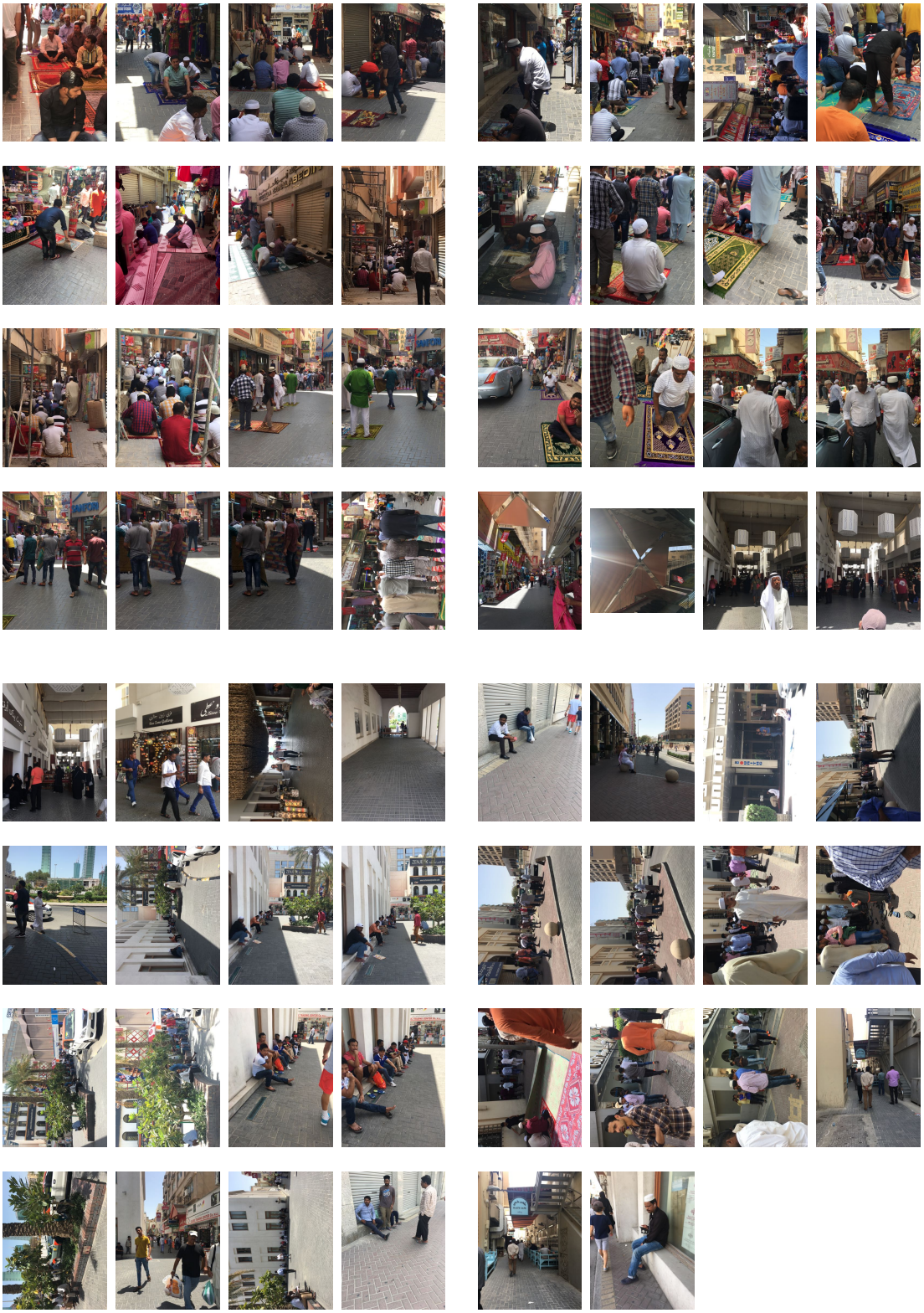


Fig.08 - Manama Souq , Friday morning, Prayer Time, 19/04/2019, Author photos

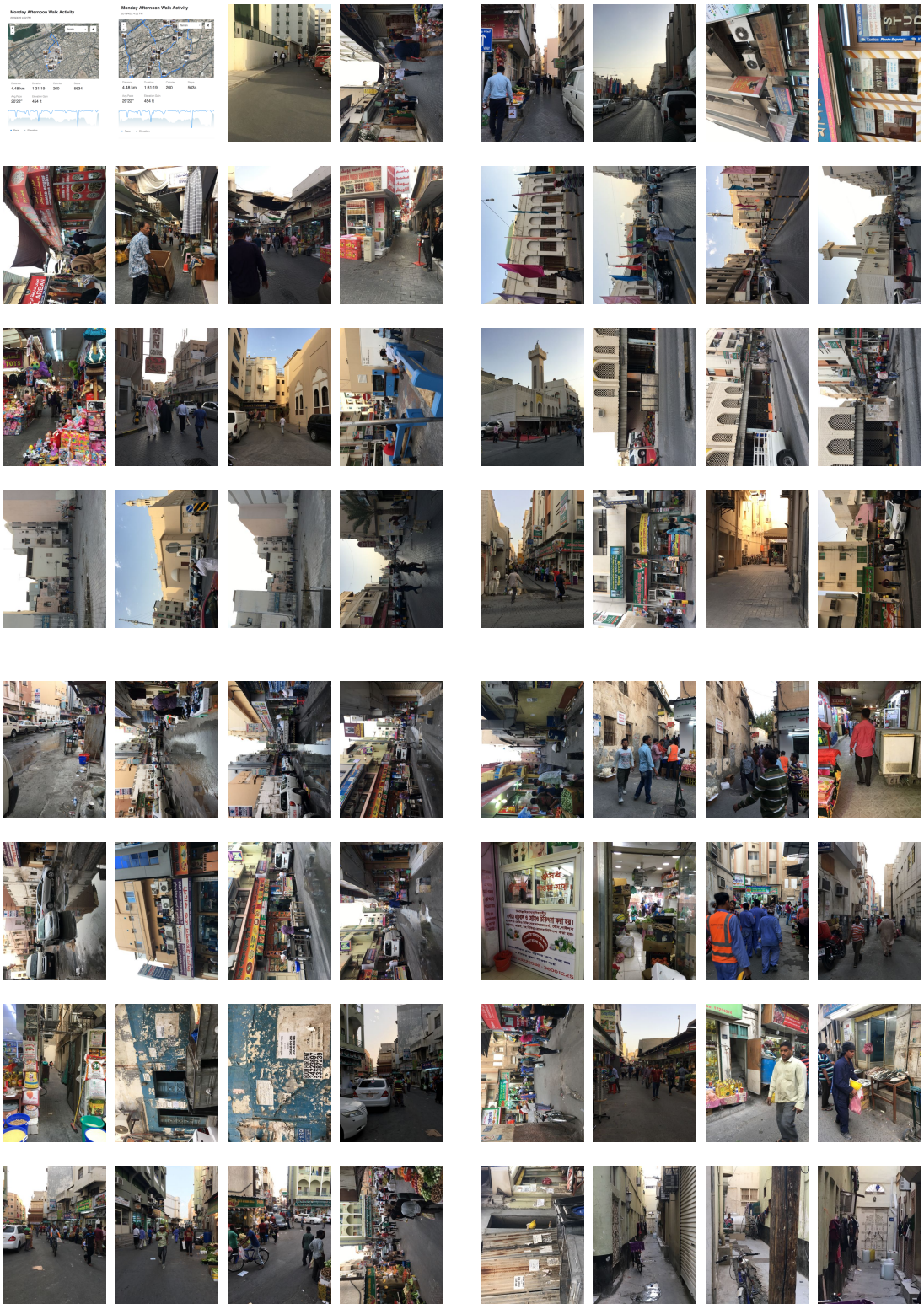


Fig.09 - "Little Mumbai", Manama Souq, Monday afternoon, 22/04/2019, Author photos

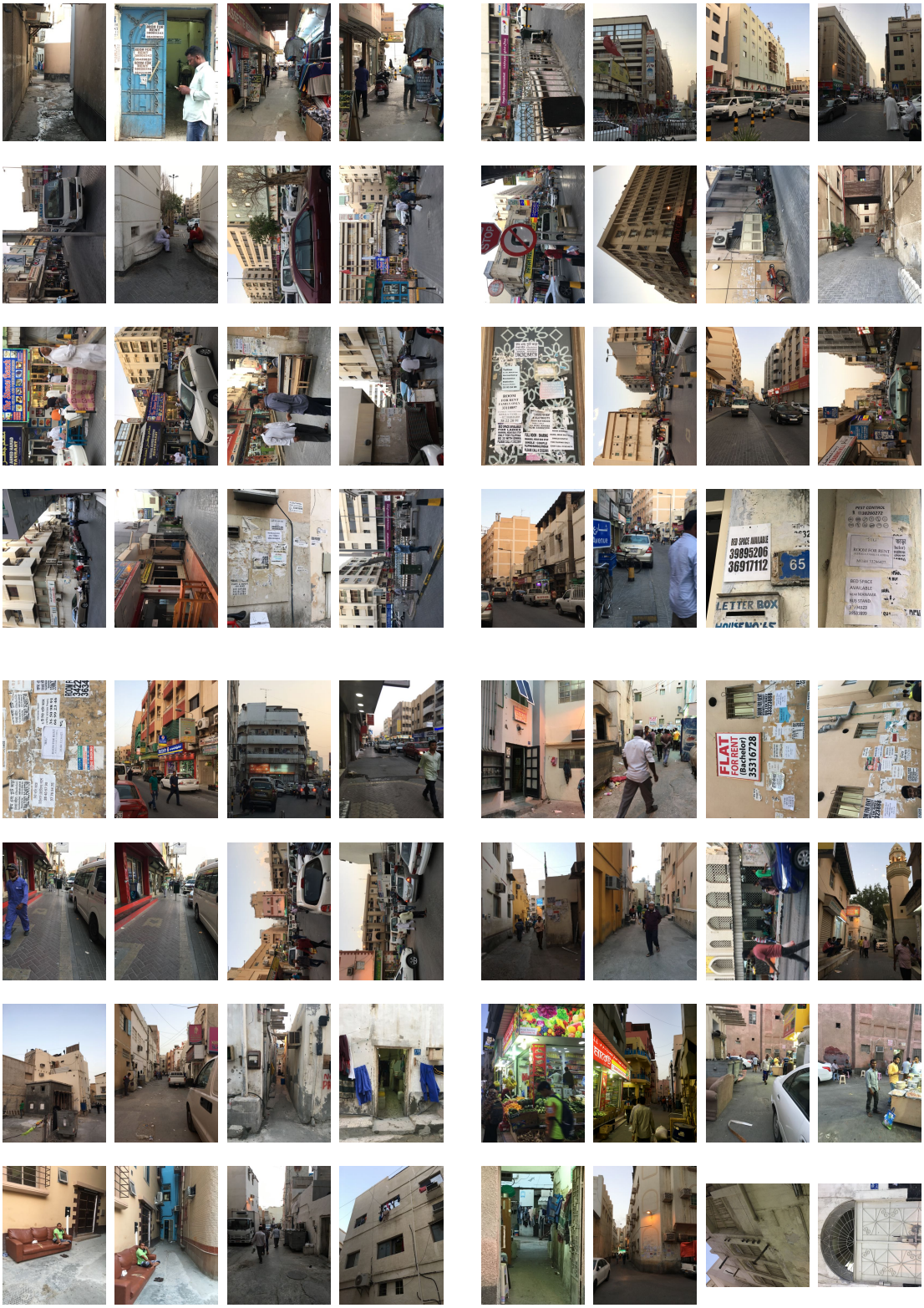


Fig.10 - "Little Mumbai", Manama Souq, Monday afternoon, 22/04/2019, Author photos

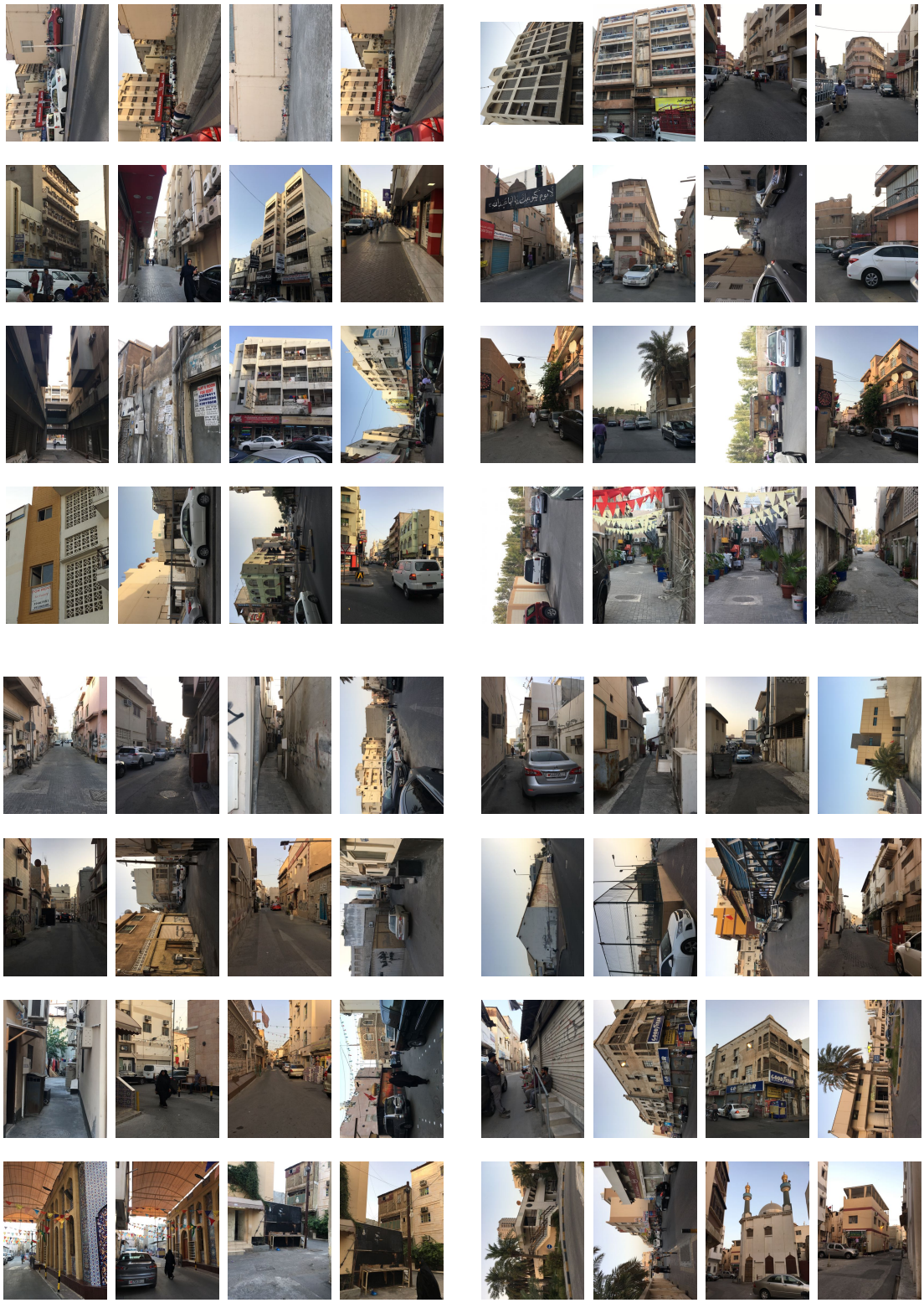


Fig.11 - AL Naim and other residential areas, Tuesday evening,- 30/04/2019, Author photos

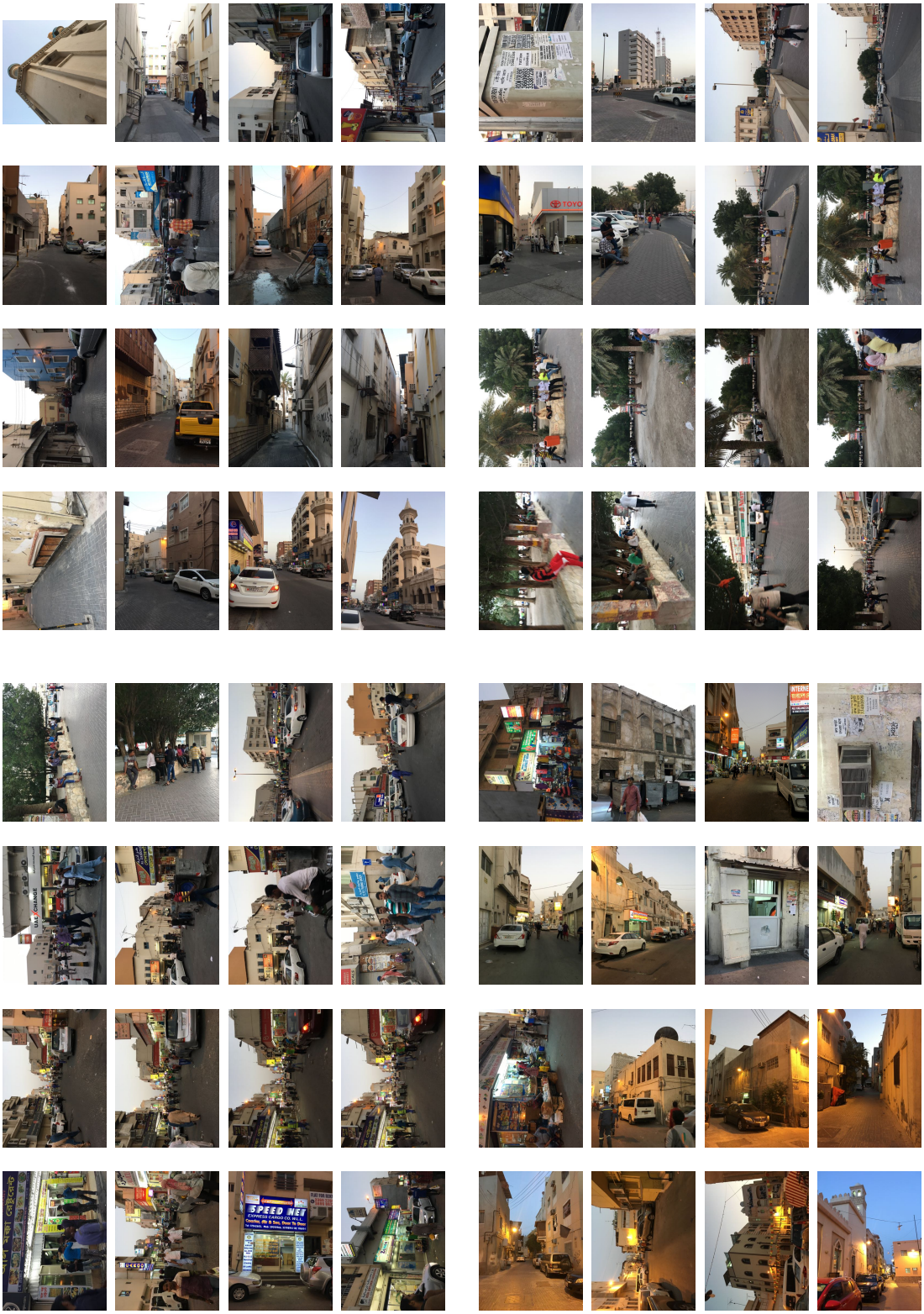


Fig.12 - AL Naim and other residential areas, Tuesday evening,- 30/04/2019, Author photos

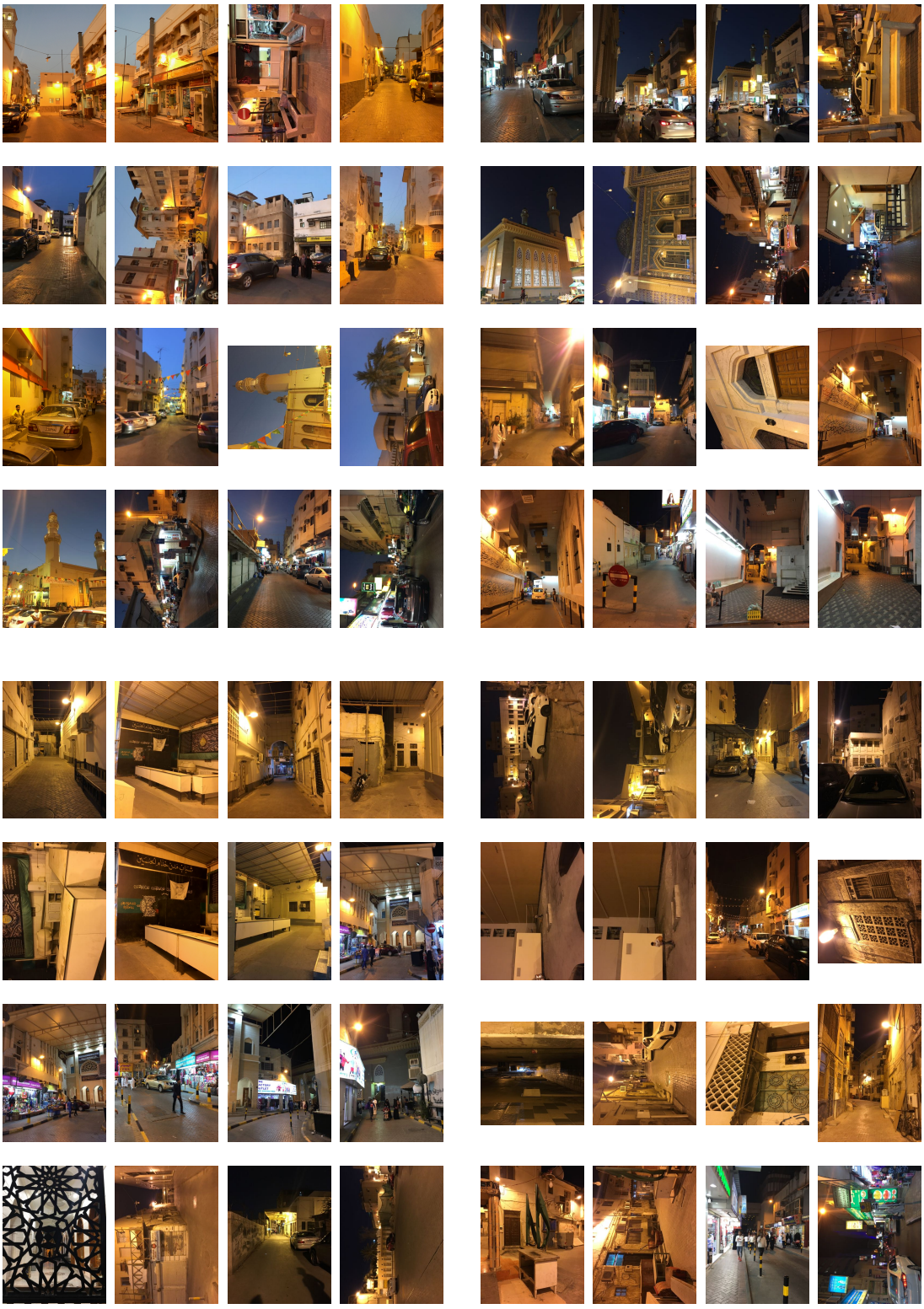


Fig.13 - AL Naim and other residential areas, Tuesday evening,- 30/04/2019, Author photos

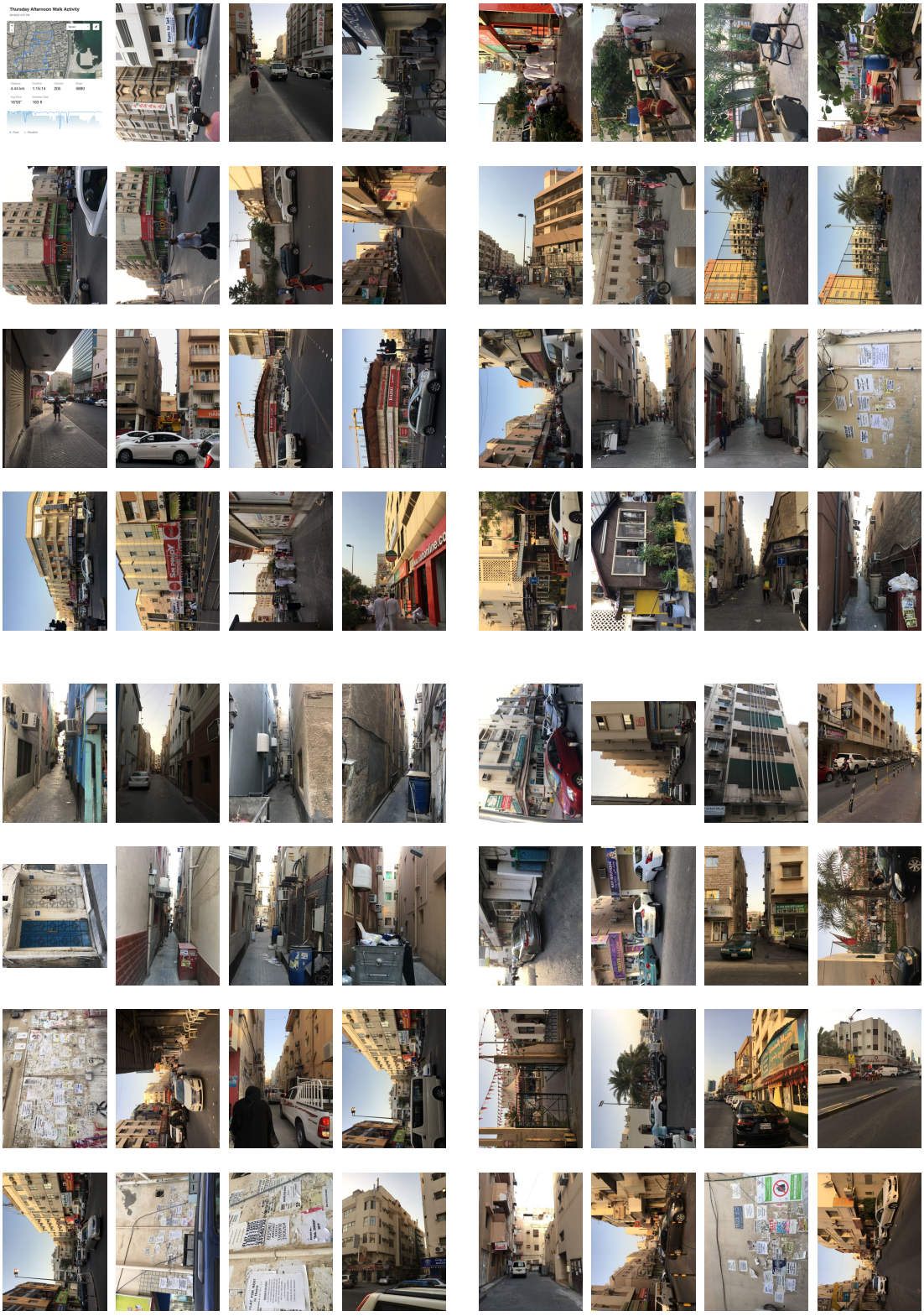


Fig.14 Gudaibiya, Thursday afternoon, 02/05/2019, Author photos

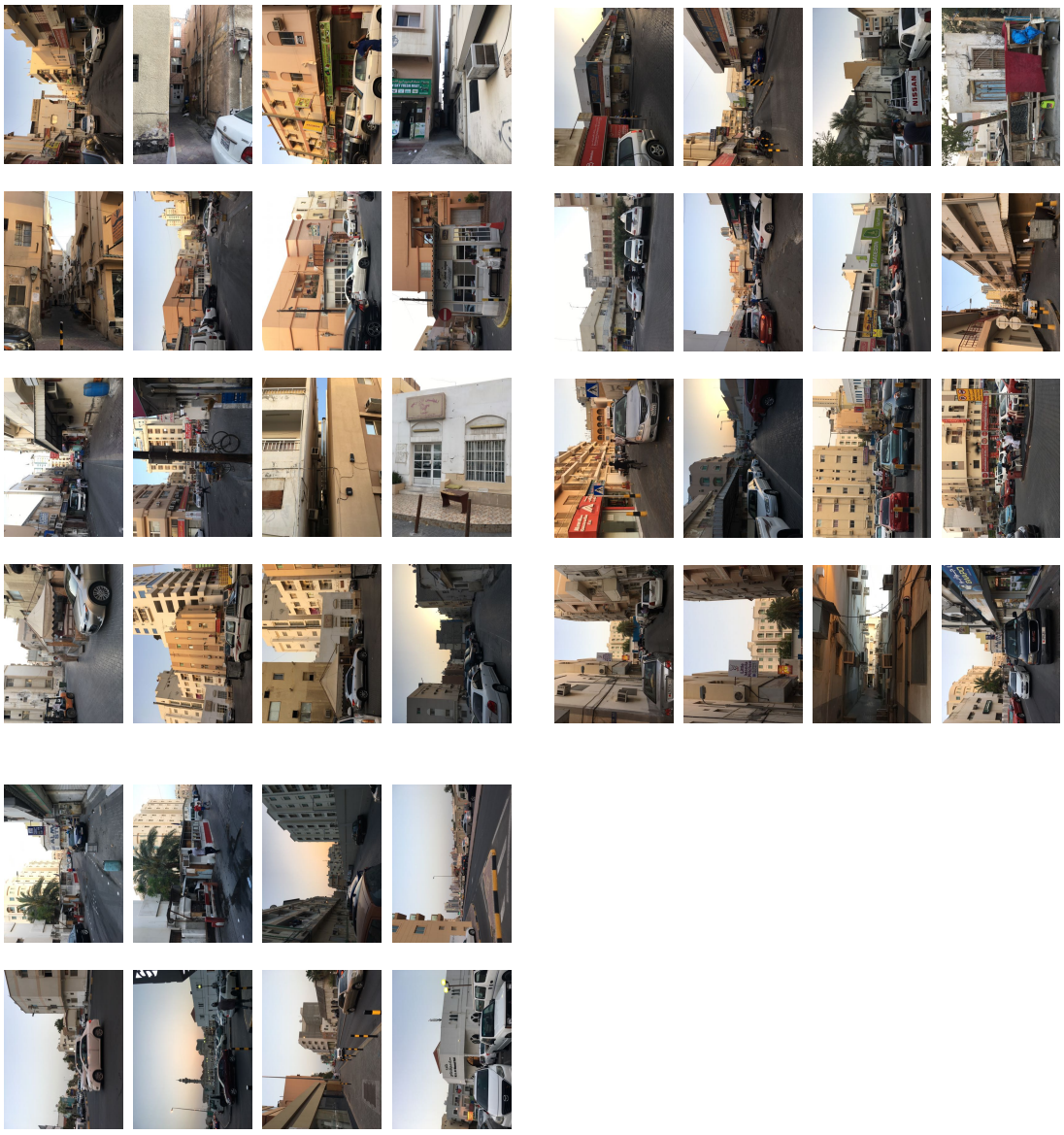


Fig.15 Gudaibiya, Thursday afternoon, 02/05/2019, Author photos



Fig.16 Ramadan in Manama Souq, Tuesday afternoon/evening, 28/05/2019, Author photos



Fig.17 Ramadan in Manama Souq, Tuesday afternoon/evening, 28/05/2019, Author photos

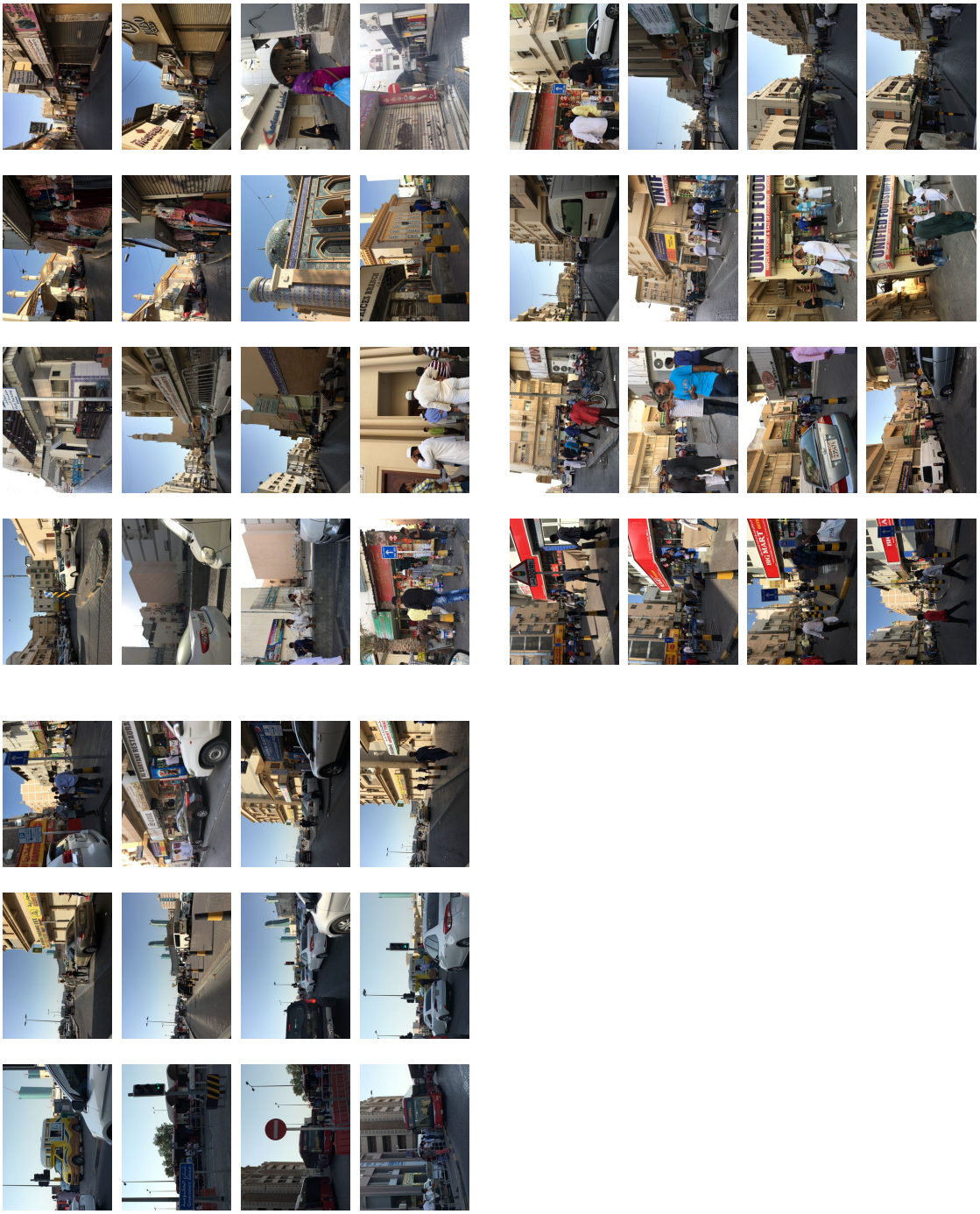


Fig.18 - Manama Souq, Eid, Tuesday afternoon, 04/06/2019, Author photos



Fig.19 - Desert appropriations , Zallaq, Author photos, 2019

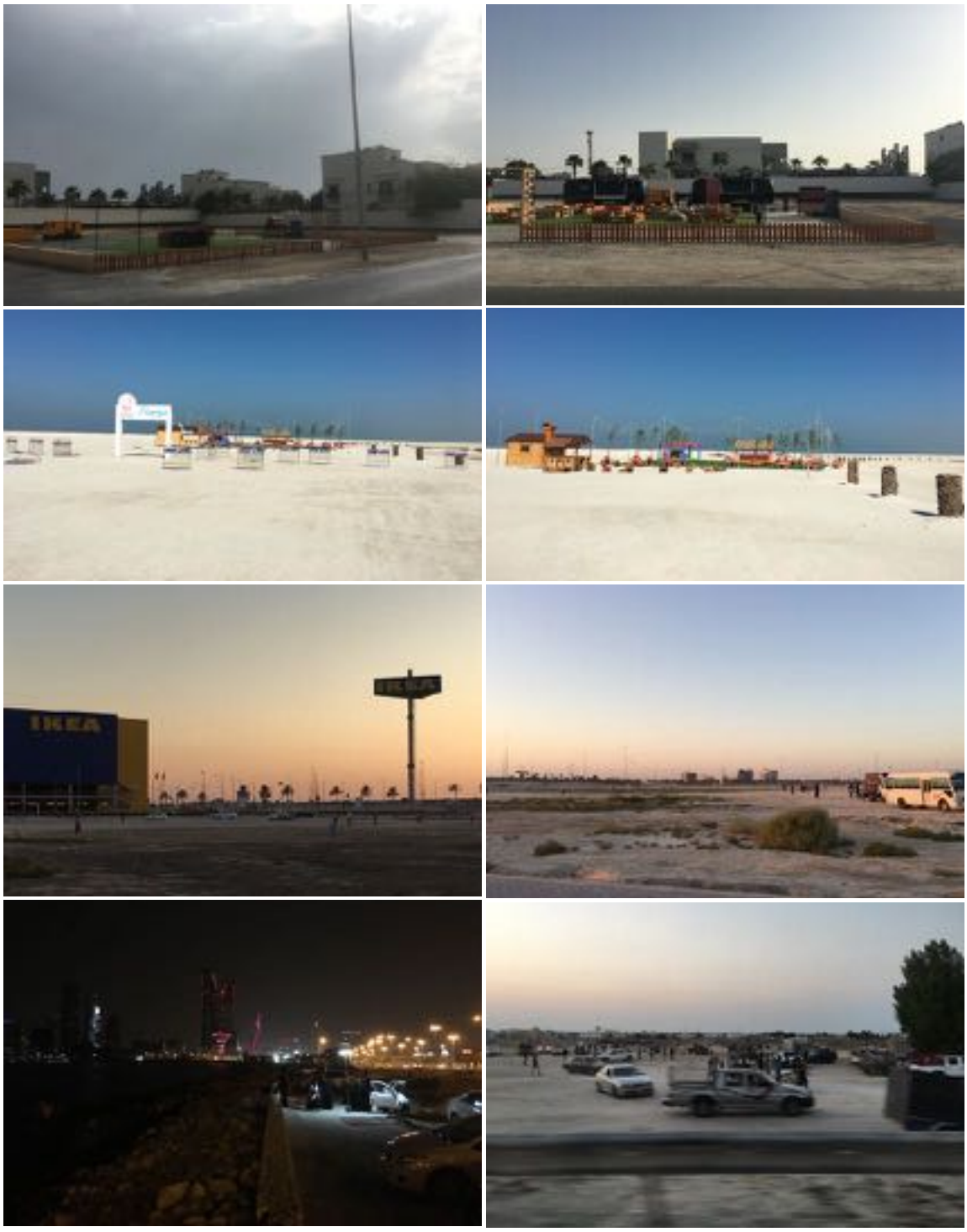


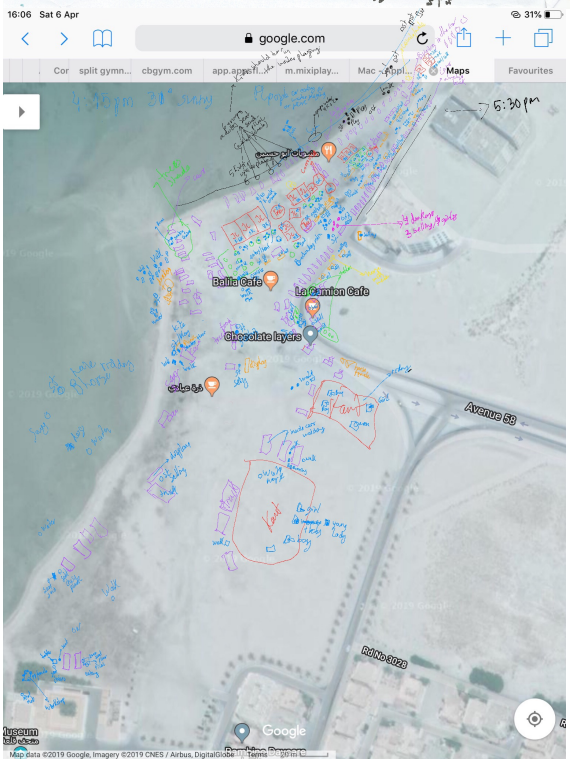
Fig.19 - Desert appropriations , Zallaq, Author photos, 2019

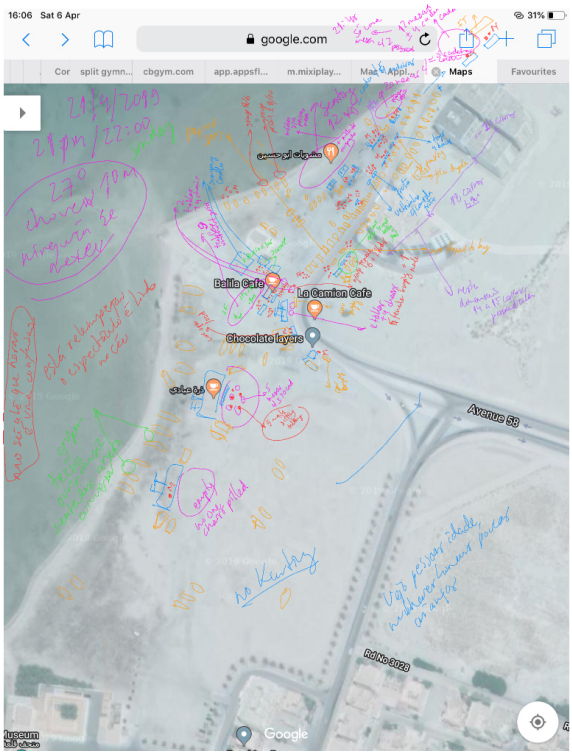
2. Field Work

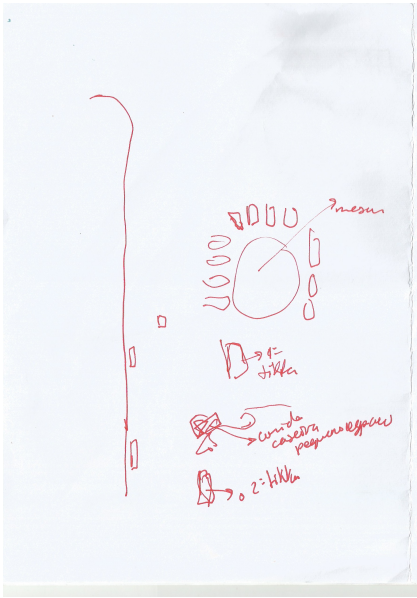
Laboratory 01 - Karbabad

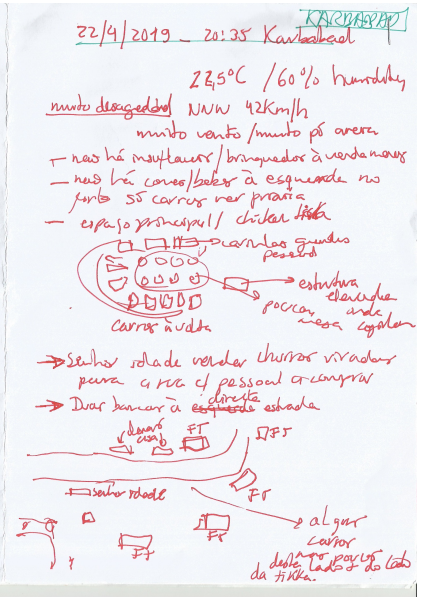


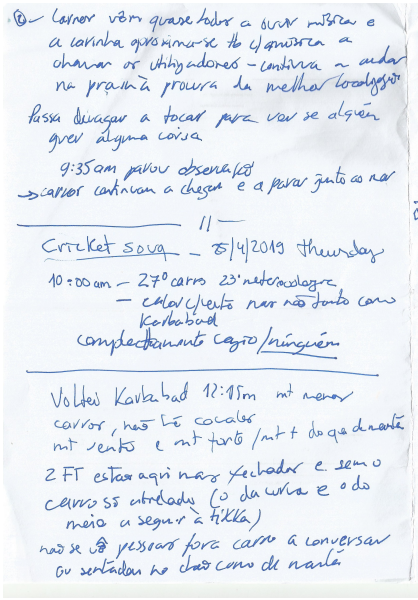


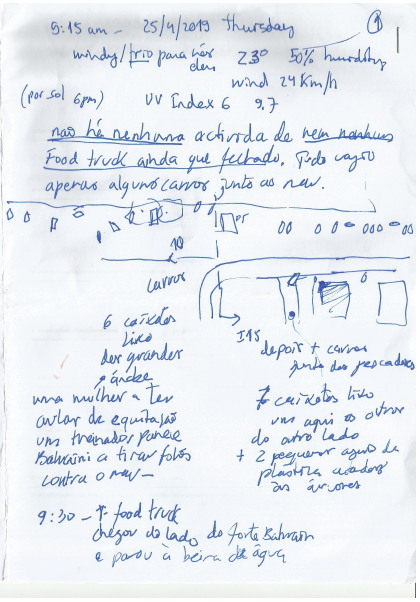


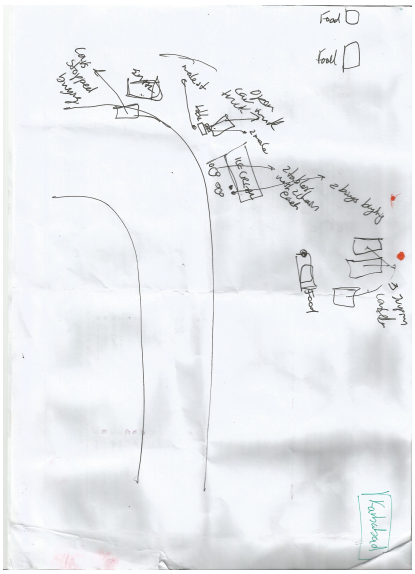


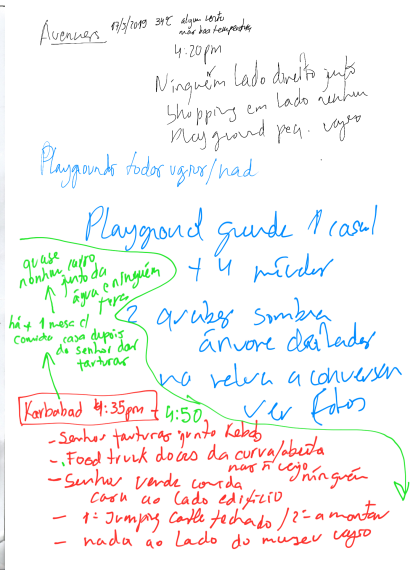



22/4/2019 - 20:35 Karbabad
23,5°C /60% humidity
muito desagradável NNW 42Km/h
muito vento / muito pó areia
- não há insufladores / bronzeadores à venda nenhures
- não há cones / balizas à esquerda no forte só carros na praia
- espaço principal / cricket
carros à volta
estrutura
poucas mesas cobertas
Senhor idade vender churros virados para a rua c/ passeio a começar
Duas bancas à esquerda estrada
FT
FT
senhor idade
algum carro desde ladeira do lado da tirika.


Carros vêm quase todos a olhar música e a carinha aproxima-se de ignorância a chamar os utilizadores - continua a andar na praia à procura da melhor localização
Passa devagar a tocar para ver se alguém quer alguma coisa
9:35 am parou observação
carros continuam a chegar e a parar junto ao mar
Cricket Sousa - 25/4/2019 thursday
10:00 am - 27° carro 23° meteoradiagra
- calor/vento mar não junto como Karbabad
completamente cego/ninguém
Voltei Karbabad 12:15m mt menos carros, não há locais mt + vento e mt + do que durante 2 FT estão aqui mas fechados e sem o carros só utilizados (o da curva e o do meio a seguir à Tikka)
não se vê pessoas fora carro a conversar ou sentadas no chão como de manhã


9:15 am - 25/4/2019 thursday
windy / frio para nós claro 23° 50% humidity
wind 24 Km/h
(por sol 6pm) UV Index 6 9.7
não há nenhuma actividade nem nenhures
Food truck ainda que fechado. Pista vazia
apenas alguns carros junto ao mar.
carros
6 cavalos livre dar grandes
ténis
uma mulher a ter aulas de equitação
um treinador ponies
Salvaini a tirar fotos contra o mar
depois + carros junto dos pescadores
7 cavalos livre vão aqui ao outro do outro lado
+ 2 pequenos aqui de plástico ocados às árvores
9:30 - 1 food truck chegou do lado do forte Salvaini e parou à beira de água


Food
Food
Karbabad


Avenues 19/5/2019 34° algum vento não tão temperado
4:20 pm
Ninguém lado direito junto Shopping em lado nenhum
Playground vazio/nada
Playground grande 1 casal + 4 miúdos
quase nenhum carro junto da água c/ ninguém para
há + 1 mesa c/ comida casa depois do sentar dos tartaruga
2 árvores sombra árvore dos lados
no relva a conversar ver fotos
Karbabad 4:35pm + 4:50
- Senhor tartaruga grande Karb
- Food truck duas da curva/abertura nos 7 cego ninguém
- Senhor verde corda com ao lado edifício
- 1 Jumping Castle fechado / 2 a montar
- nada ao lado do museu vazio



Karbabad 27/05/2019 34°C 21:45 pm. (See other papers)

Now Kebab it is completely open but no one is here.
At this time a truck with the second Kebab arrives on site and start to assemble things.
At this time 21:45 pm the Hot dog station seller is there and some cars (2) with the truck open selling toys.

Both JP castles are completely open but no one is there.
No users ou kids at sight.

8pm start job / 3am finish in the first Jumping castle Food truck when I spoke with the guy when I stopped my car near the road he thought I was going to order something so he immediately came next to me asking me what I wanted to order.

→ In this Jumping Castle there was a family mother + father + 4 kids using the place

→ Many cars today parking just ordering food from the car — while in a space of 5m ± 3/5 cars stopped
Both for the sweet FT and for the FT of the first jumping castle next to it.

Karbabad 7/6/2019 Friday End Holiday night 22:40pm
37° no wind 0 km/h 25% humidade

(shoppings centers todos entupidos / "ao rubro" filas)
(transito informal junto ao Avenues) gigantes parque est.
" " " Seaf Mall)

até às 23:00pm — cheio pessoas mas já vi +

- tikka composta quase cheia
- alguns criangas no playground 1/2 h nada no ritmo
- dois cara vender com'du / sr futuras / cachorro quente / vender brinquedos
poneis riding -
- 1x que vi o comboio
- 1x que vi 3 Kantings normal / maioria 2 e o terceiro mit organizado c/ Lugar
- não vi ninguém a tomar banho na água
- alguns carros junto à água nas as pessoas não estavam fora, mas dentro
- o mesmo público alvo



16/5/2019 = anteriores

→ farturas aqui senhor/sombra Kebabs

→ home vendeiros c/ paneleiros

2 mulheres vendedores

2 homens

(c/ mala aberta



→ insuflaveis a montar (encher)

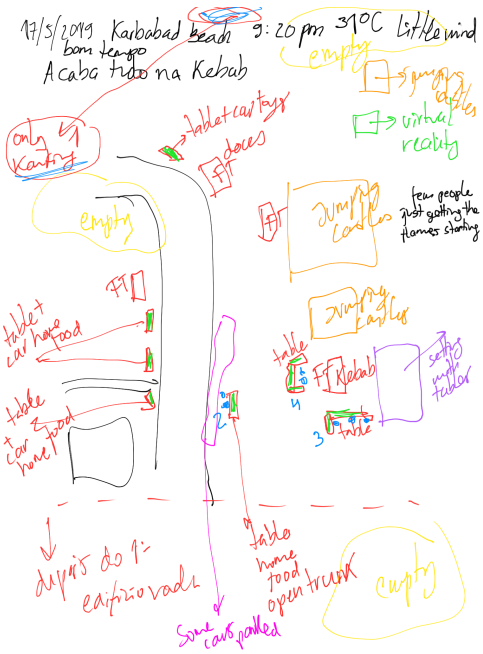
→ curva dos doces está sempre

→ pessoal praia - dentro água c/ cadeiras à espera por sol

mt bom tempo - não há vento

32°
34°
36°

17/5/2019 Karbabad Beach 9:20 pm 31°C Little wind
bom tempo
Acaba tudo na Kebab

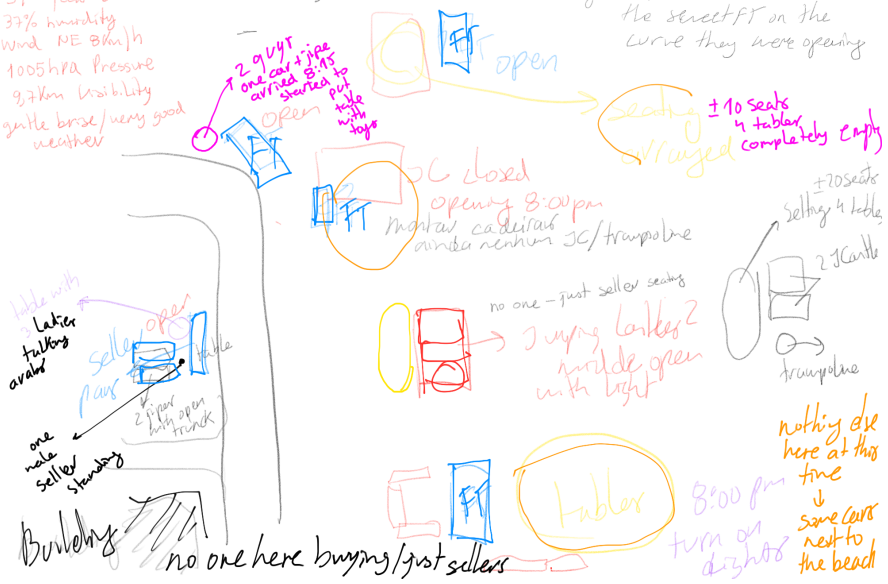


Ramadan
Monday 27/5/2019
Karbabad 8:00pm

34° feels 35°
37% humidity
wind NE 8km/h
1005hPa Pressure
9,7Km visibility
gentle brise/very good weather

- only cupcakes/sweets FT curve
- domestic seller with pans on the right side next to the building

- jumping castles in the middle right the important ones next to the sweet FT on the curve they were opening

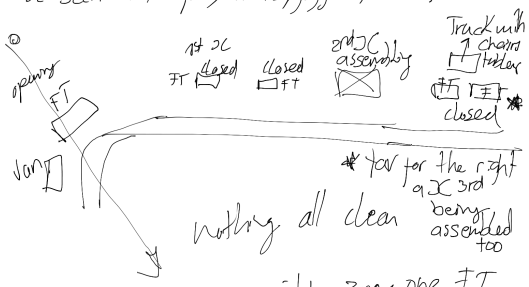


6/6/2019 Thursday Eid Holiday
2:45pm Karbabad

hot but with some wind not to humid/OK

39° grams feels 42°
wind N14Km/h
humidity 28%
visibility 9,7Km
UV Index 5

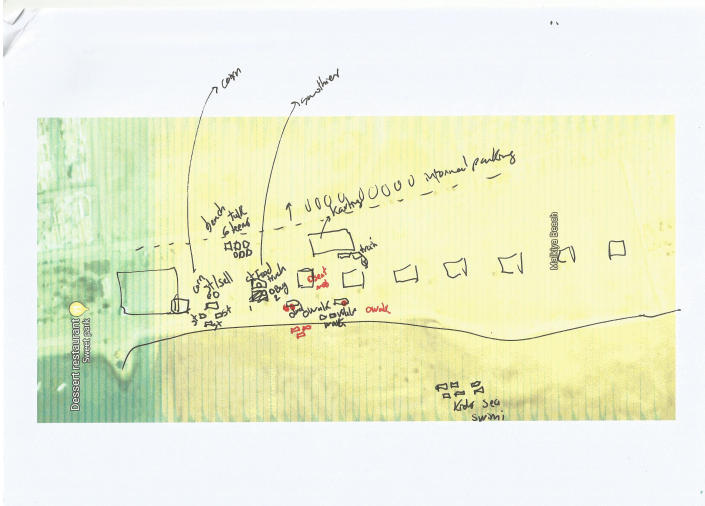
All things still closed. 2nd Jumping Castles assembling things. No car with users on the beach - empty. No one could be seen in the fort, turists, joggers, locals, none.

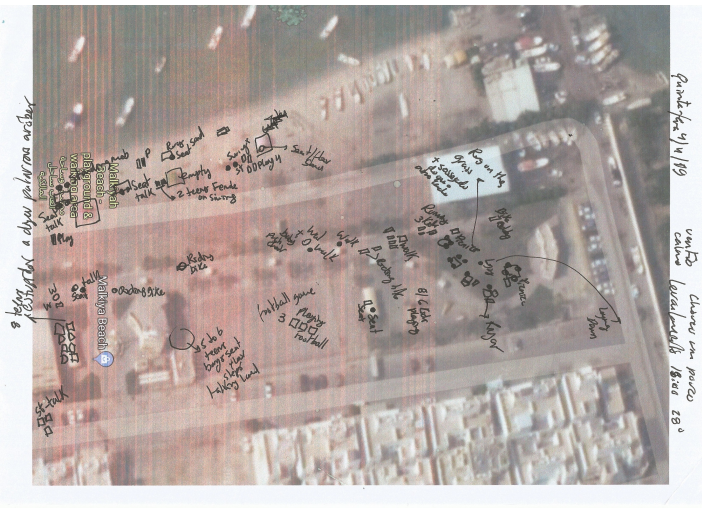


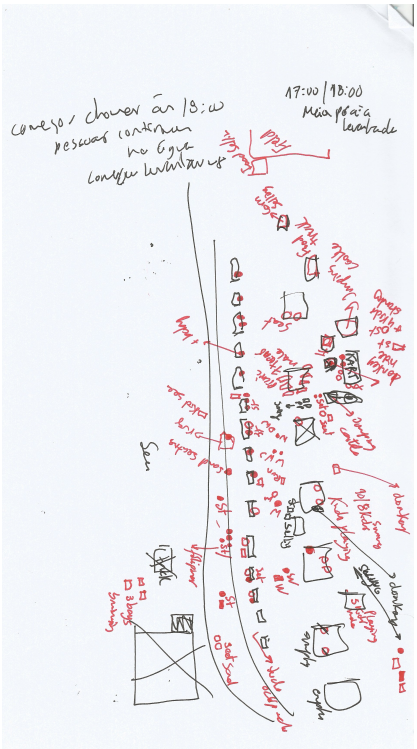
3:18pm - Garden front of Reef completely empty in the day before at 6:00pm was completely overcrowded/full people. See pictures.
- Soug/cricket - completely empty/~~mabrye they~~ are working today
4 indians arrived to play - they jumped the wall
- Avenues Park is also deserted and the traffic is still bearable.

Laboratory 02 - Malkiya










8:25 / 4/4/2019
28°
Walking Beach
Walking Beach & Playground & Beach - Walkway
Walking Beach
Walk
Walk
Walk



7/6/2019 Friday night Eid Holidays
7:40pm

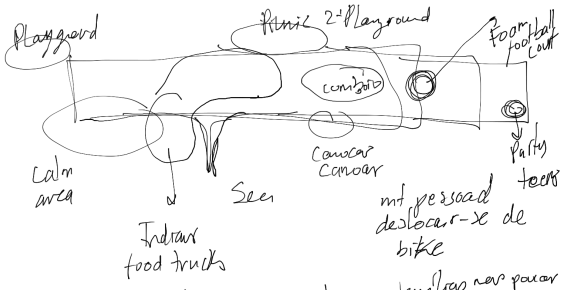
37° feels like 41°
35% humidity
wind N 5km/h
visibility 11.3 km
pressure 1004 hPa

8:15pm Malkiya – Playground empty
Right side calm – some 2 groups of picnics on the grass
2 Kids playing football area / fence pitch
1 police man + security patrolling park
some families seating benches

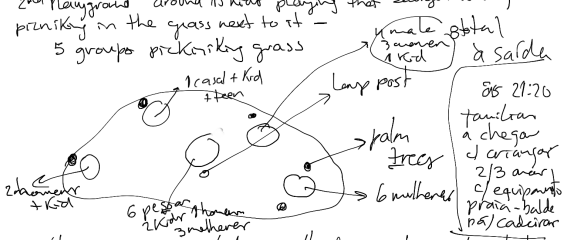
→ Large groups female seating on the floor in a circle under the stade element
→ some teens seating in benches looking at the sea and talking

2 groups swimming sea actually they are not swimming they are chatting inside the water
1 group women with kids – 5 women – 4 children
2 group 3 man chatting
Laughting Loud the women

groups of indians / pakistan all around the middle of the space next to the food trucks – buying food and swimming on the sea
± 12 Kids and ± 8 adultos inside water mainly men.
dá sensação da festa já ter acabado – parece ser + ao final da tarde – quantidade de lixo no chão e as caixas não estão ao rubro os cafés – tenho de vir ao final tarde tipo 5:30pm
– familiar c/ criança a nadar na água e outros grupos de teens a fumar shisha à vista c/ aparelho
– comboio para andar / canoas para alugar
– muitos indianos
– ± 100 pessoas a nadar água por toda a costa – teenagers
– várias c/ shisha
– uma festa c/ música alta c/ muitos gritos no final – homens a dançar em tronco no
– campo futebol 2 vazio nas no final um campo – guras / bahrainis
c/ gel espuma de futebol c/ crianças / teens jogam – pessoal andar bike adultos



7/6/2019 – 20:45 / 21:00 – Vê-se algumas famílias nas poucas pessoal a cantar / dançar / comer / deitado / conversar andar canoa / nadar / andar bike / construções na areia as crianças / shisha fumar alguns grupos
Party – 2 holofotes luz gigantes e homens no meio a dançar / gritar / andar – hip hop indianos e bahrainis cubos dançar disputa
2nd Playground around 15 Kids playing that belonged to the familiar picniking in the grass next to it –
5 groups picniking grass



às 21:20
familiar a chegar c/ criança 2/3 anos c/ equipamento praia-balde pá/cadeiras

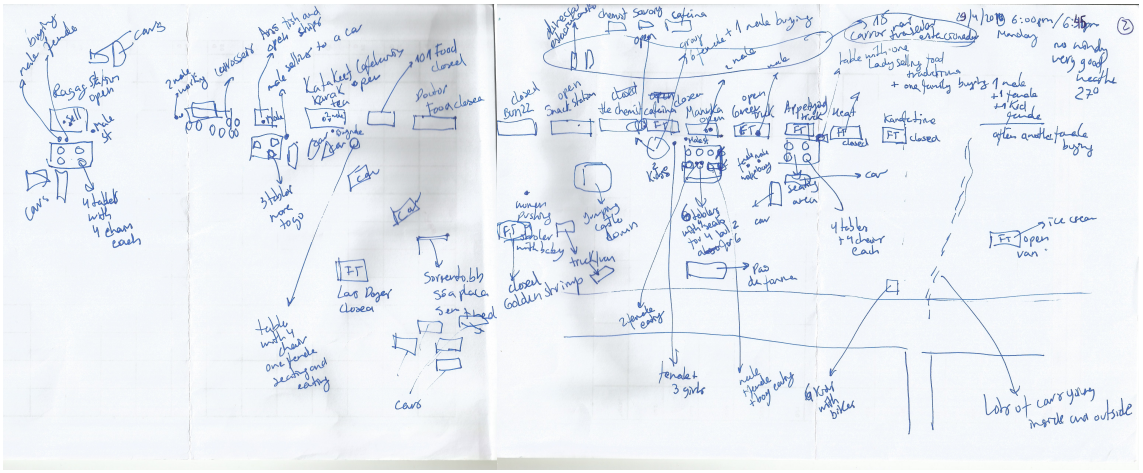
filipinos a passar todos molhados acabaram tomar banho
9:20pm finished

Laboratory 03 - Busaiteen

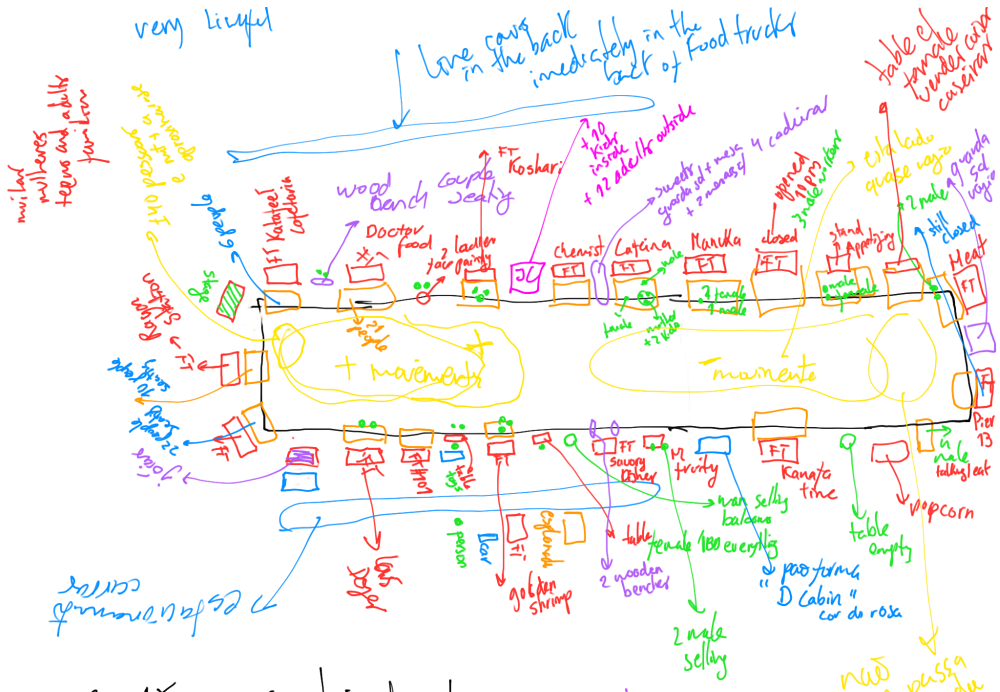












10:15pm acabei desenhar muita gente a chegar a esta hora — incrivel muitas crianças mulheres

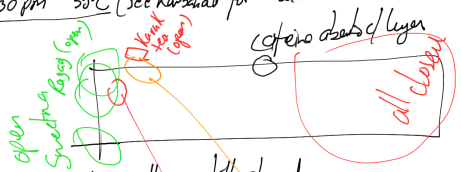


17/5/2019 2:45pm 33° 53% humidity
Friday afternoon
wind E 27 Km/h
feels like 38° UV Index 5
visibility 9,7 Km

Cricket Souq → fotos
completamente vazio/nada
pouco trânsito rua/tudo tranquilo

3:00pm Busaiteen
→ Food trucks completely empty no one here
→ one car passed by in the beach the rest to the left is all empty
→ going to the right there is some game going on

Busaiteen 29/5/2019
8:30pm 39°C (see Karbahad for weather conditions



almost everything still closed

nothing is happening here – even the ones that are here they look like the sellers not really users
I think just after 9:00
9:30
Mosque was full next to Muhamag municipality

2 tables with 4 people
2 tables 2+3 chairs entry + 1 man seating wood bench
no prayer at this time

Around 8:45pm
→ people start to leave the mosque / cars slowly leave
See – hours of prayer to see what can happen in terms of outdoor spaces

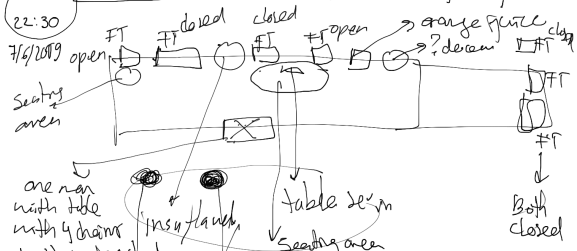
Some sellers coming and start to arrange the carpets on the floor/seatings tables/lights (but still very little

till 8:55

Busaiteen 3:30pm 6/6/2019 Thursday Eid Holiday
42°C (ver noutra página)

Na gona lado KHUK vazio, nenhuma actividade e nenhum carro.
Nos food trucks tudo fechado e desmontado/muitos FT não estão aqui hoje.
2 carros junto ao mar e nenhum sinal de cricket à direita dos FT (virado ao mar).
Parece ser dia de trabalho pois os camiões TIR estão a operar no terreno. Obras e funcionários – ver fotos.
Observei em Busaiteen nos bairros indianos de bicicleta certo a lavar carros. À vontade à volta de 20/30 indianos.
4pm – cafeina aberto c/ 2 funcionários sem nenhum cliente mas já c/ esplanada montada – 3 mesas + 6 cadeiras (2 em cada)
3/4 carros junto ao mar – muito espaçado
16h10m – trânsito infernal na auto-estrada reef. trânsito parado – penso que é a partir da hora que começam sair. Shoppings à pinha
4h15 – alguns grupos a jogar cricket souq talvez 3 grupos maxima 4. Normal hora que jogam à semana – ano final tendo à sexta ou 2pm já estão jogar.

22:10 Busanteen Beach no wind / no humidity 36/37°
22:30
7/6/2019



one man with table with 4 chairs don't understand what he is doing

insufflated

table seen

Seating area

Both closed

completely changed / not even half of the food trucks / nothing happening

± 15 users total some inside their cars

In the back

Cafeina

Manuka ambos virados para a rua retirados do retângulo central agora irrevistente c/ esplanade perto da rua

os carros estacionam directa/ lá para comer.

Vários carros junto à agua — maioria dentro do carro, alguns fora a conversar — homens 1 ou outro picnic familiar

dá a sensação do espaço estar obrar

Depois de Malkiya

14/6/2019 Friday afternoon

3:30pm 38° feels like 44°

4:30m 999 hPa pressure

(2 interviews)

42% humidity

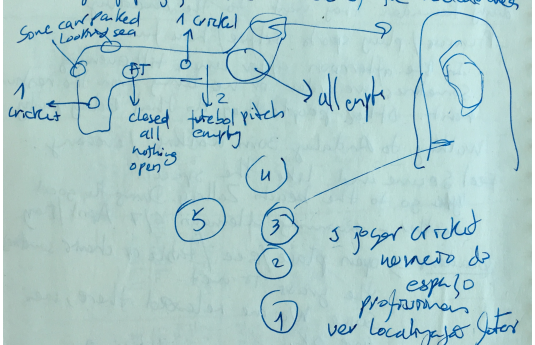
NW 24 km/h wind

Visibility 9,7 km

UV Index 4

1 group playing next to the bridge in the middle

1 group playing in the middle of the middle area

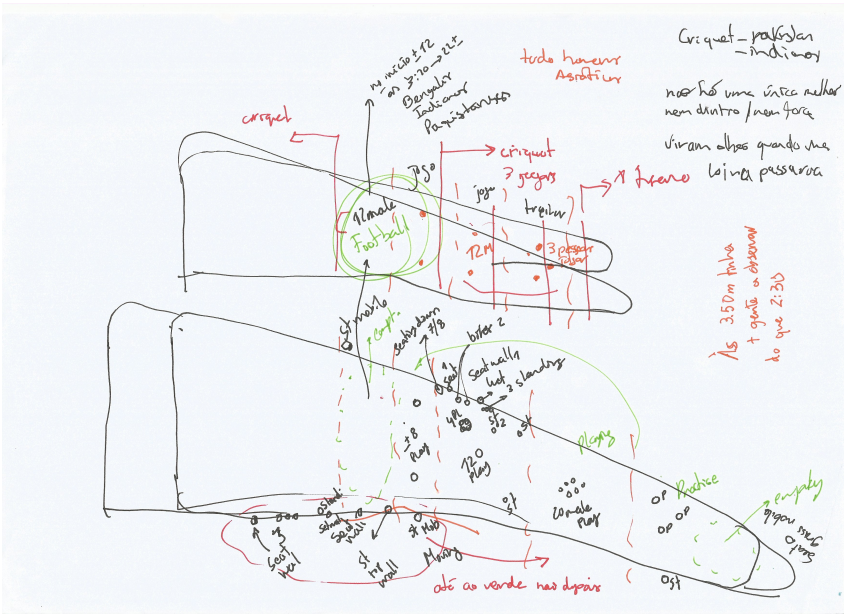


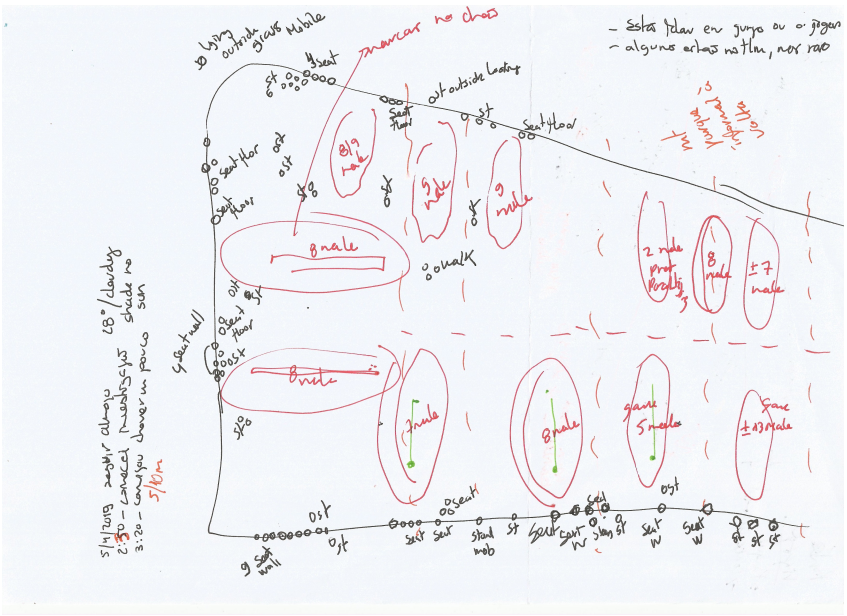
5 jogar cricket no meio do espaço profissionais

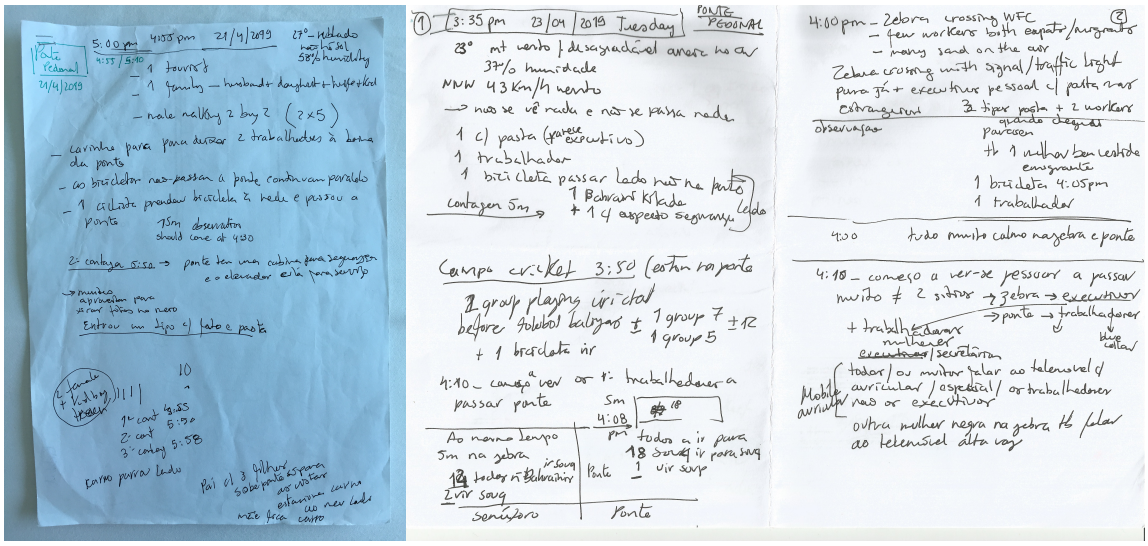
ver localização fotos

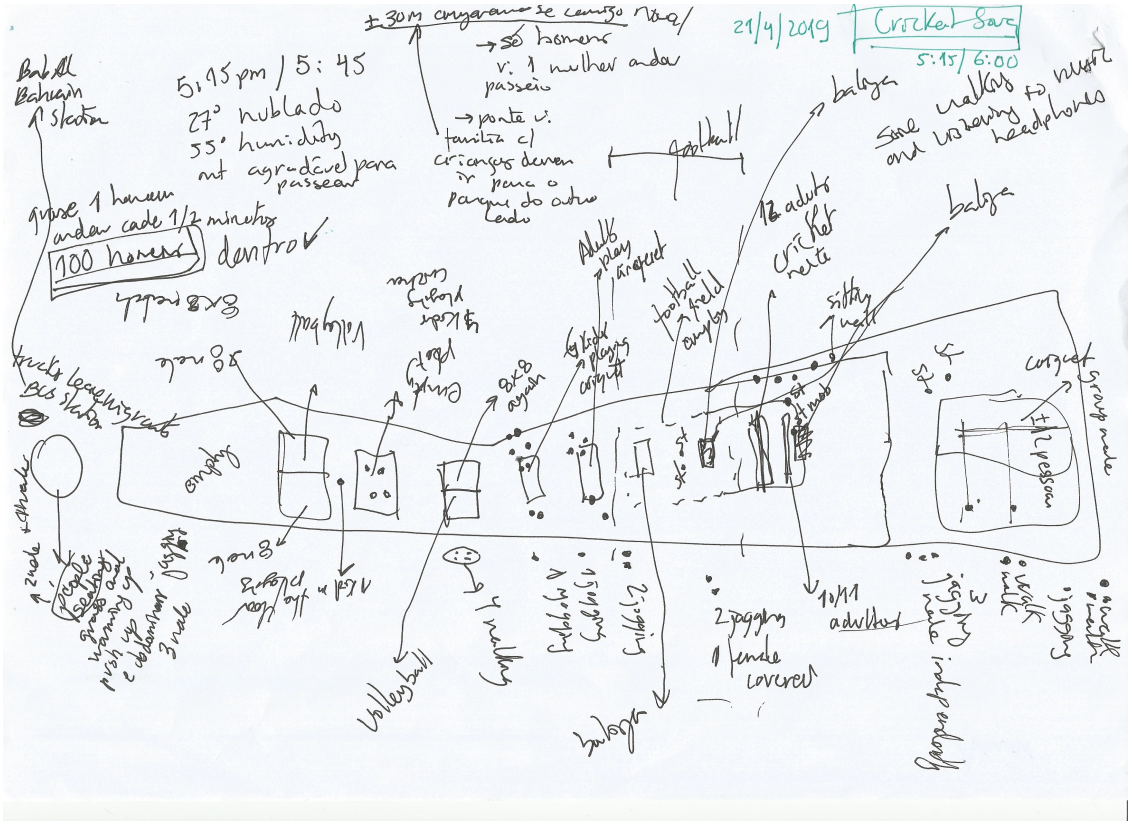
muitas carinhas paradas e carros parados à volta de cada equipa — 3 a 4 carinhas (no mínimo)

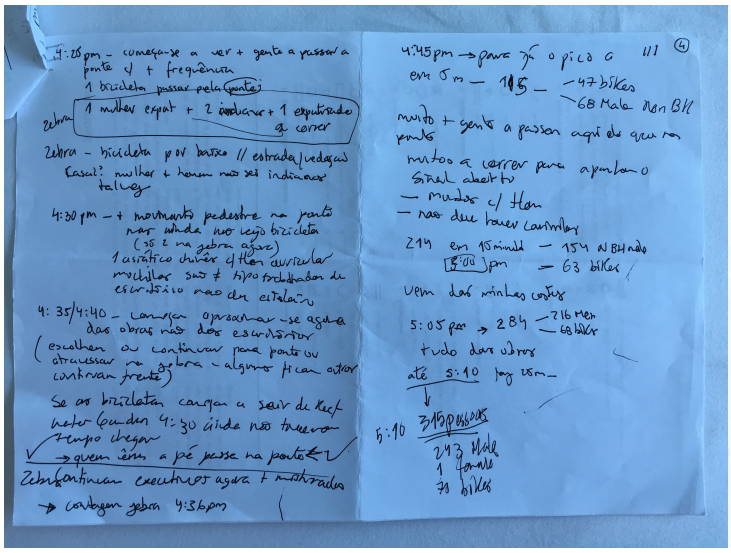
± 15/16 carros em cada utilização às urgente




Seating area
Bus stop
Bridge
Seating area
Seating area
Seating area

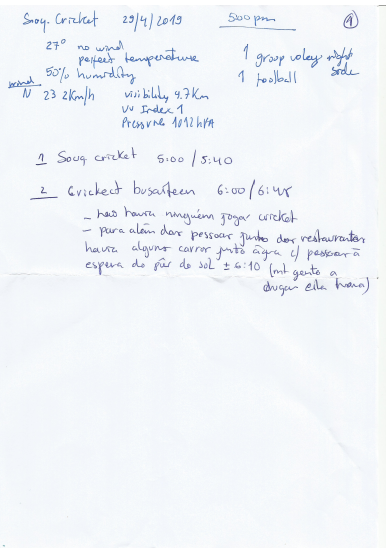




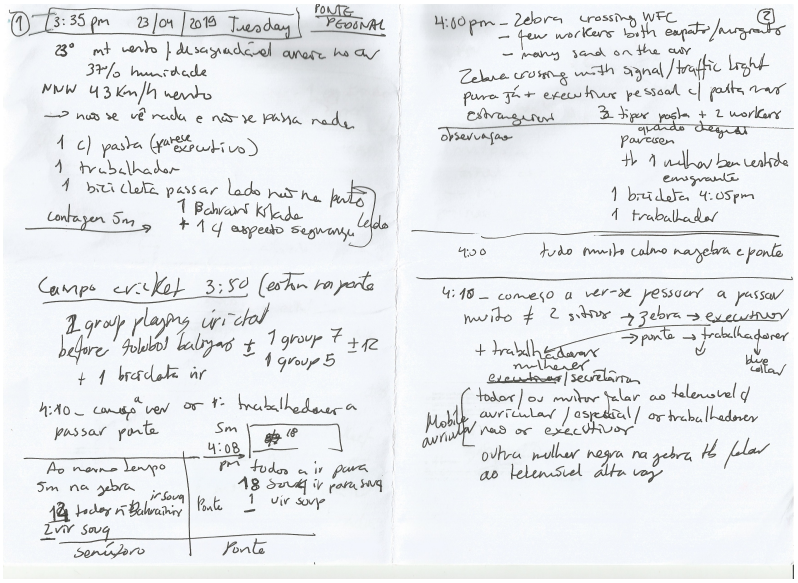


4:25 pm – começa-se a ver + gente a passar a ponte c/ + frequência
1 bicicleta passar pela ponte
zebra 1 mulher expat + 2 indianas + 1 expatriado a correr
Zebra – bicicleta por baixo // estrada/vedação
Casal? mulher + homem não sei indianas talvez
4:30 pm – + movimento pedestre na ponte mas ainda não vejo bicicleta (só 2 na zebra agora)
1 asiático chinês c/ tlm auricular
mochilas são ≠ tipo trabalhador de escritório não de estrangeiro
4:35/4:40 – começa a aproximar-se agora das obras não dos escritórios
(escolhem ou continuar para ponte ou atravessar na zebra – alguns ficam outros continuam frente)
Se as bicicletas começam a sair de keep water (ainda 4:30 ainda não tiveram tempo chegar
→ quem êm a pé passa na ponte
Zebra continuam executivos agora + misturados
→ contagem zebra 4:36 pm

4:45 pm → para já o pico a 111 (4)
em 5 m – 115 – 47 bikes
68 Male Non BH
muito + gente a passar aqui do que na ponte
muitos a correr para apanhar o sinal abertu
– muitos c/ tlm
– não deu haver carrinhos
214 em 15 minutos – 154 NBH não
5:00 pm – 63 bikes
vem das minhas costas
5:05 pm → 284 – 216 Men
68 bikes
tudo das obras
até 5:10 faz 25 m
5:10 315 pessoas
243 Male
1 female
71 bikes

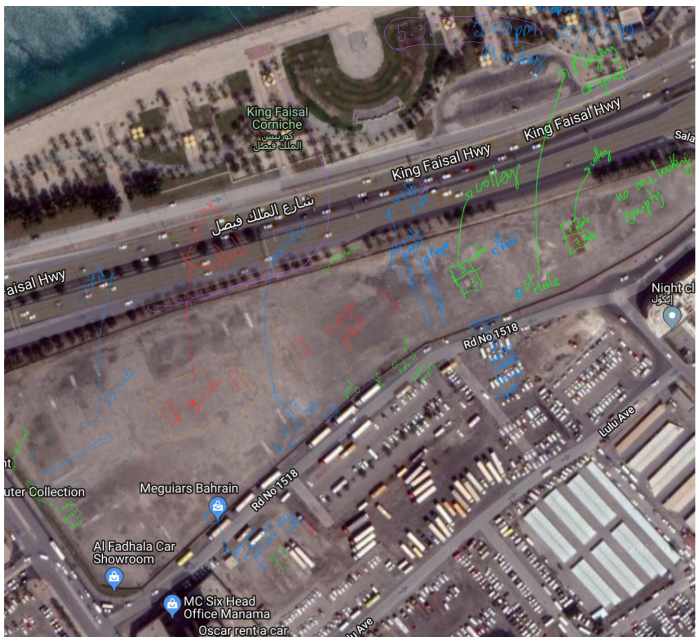


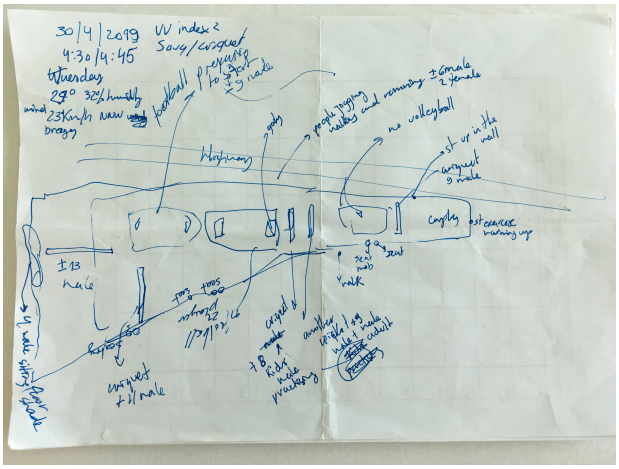
Souq. Cricket 29/4/2019 5:00 pm (1)
27° no wind
perfect temperature
50% humidity
wind N 23 2Km/h visibility 9.7Km
UV Index 1
Pressure 1012 hPA
1 group volley night side
1 football
1 Souq cricket 5:00 / 5:40
2 Cricket busaiteen 6:00 / 6:45
– não havia ninguém jogar cricket
– para além das pessoas junto dos restaurantes havia alguns carros junto água c/ pessoas à espera do pôr do sol ± 6:10 (mt gente a chegar ela tirou)



(1) 3:35 pm 23/04/2019 Tuesday PONTE PEDONAL
23° mt vento / desagradável aveia no ar
37% humidade
NNW 43 Km/h vento
→ não se vê nada e não se passa nada
1 c/ pasta (parece executivo)
1 trabalhador
1 bicicleta passar lado não na ponte
contagem 5m → 1 Bahrain Kitade + 1 c/ aspecto segurança lado
Campo cricket 3:50 (estão na ponte
1 group playing cricket
before football baliyas ± 1 group 7 ± 12
1 group 5
+ 1 bicicleta ir
4:10 – começa a ver os 1 trabalhadores a passar ponte
5m 4:08 pm 18
Ao mesmo tempo 5m na zebra
12 todos ir Bahrainis ir souq
2 vir souq
Semáforo
Ponte
todos a ir para 18 souq ir para souq
1 vir souq

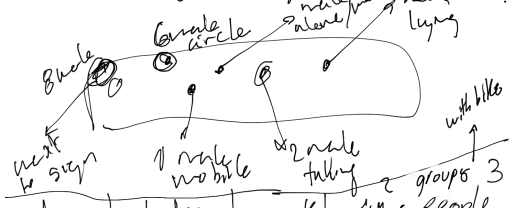
4:00 pm – Zebra crossing WFC (2)
– few workers both expats/migrants
– many sand on the air
Zebra crossing with signal/traffic light
para já + executivos pessoal c/ pasta mas estrangeiros
observação 3 tipos pasta + 2 workers quando chegaram
parecem
tb 1 mulher bem vestida emigrante
1 bicicleta 4:05 pm
1 trabalhador
4:00 tudo muito calmo na zebra e ponte
4:10 – começo a ver-se pessoas a passar muito ≠ 2 sítios → zebra → executivos
→ ponte → trabalhadores
+ trabalhadores mulheres
executivos/secretárias
blue collar
Mobile auricular
todos/ou muitos falar ao telemóvel c/ auricular/especial/os trabalhadores não os executivos
outra mulher negra na zebra tb falar ao telemóvel alta voz





Soug Cricket 27/05/2019 31° / no wind nothing
no humidity
Same weather Karbabad / Busaiteen
very good weather 21:10pm
group of 16 asian male playing → later on ±20 male
volleyball with 2 people watching
→ 1 many male seating in the grass next to the highway /

In the grass – a big group of ±8 male talking / laughing
↓
– some individual male lying down or on the mobile
– 2 or 3 smaller groups of 3 to 4 male
+ 1 group of 6 males talking in circle on the grass



do outro lado junto cricket 2 groups 3 some people jogging
pequena relva ±

Bridge 37°C Thursday 16/5/2019 4:55pm
good weather not to hot
48% humidity Windex 1
wind 14Km/h

Bike ||| 3
male |||||| 6
5m 4:53 to 4:58

we almost don't see no one even before I come few people they leave earlier now?

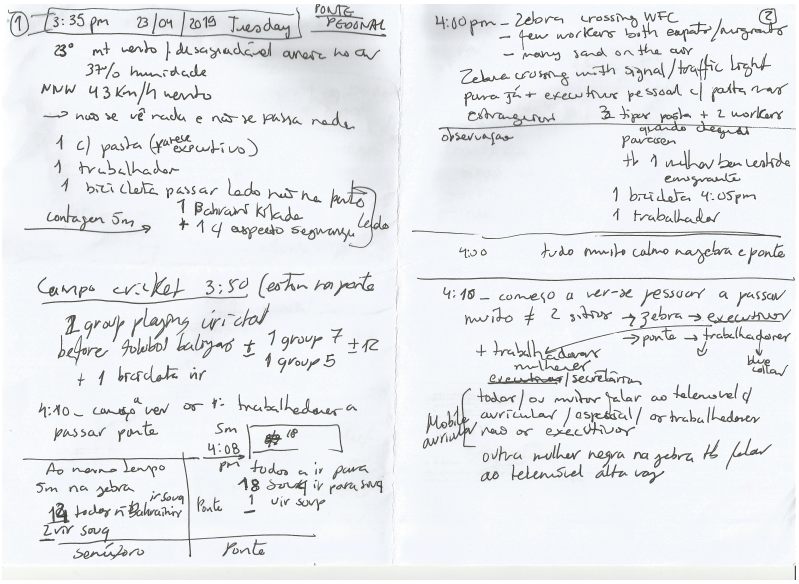
Soug Cricket 5:05pm
Completely empty / Some people still walking from the side next highway
3 male + 2 male Bike walk ← much less than before

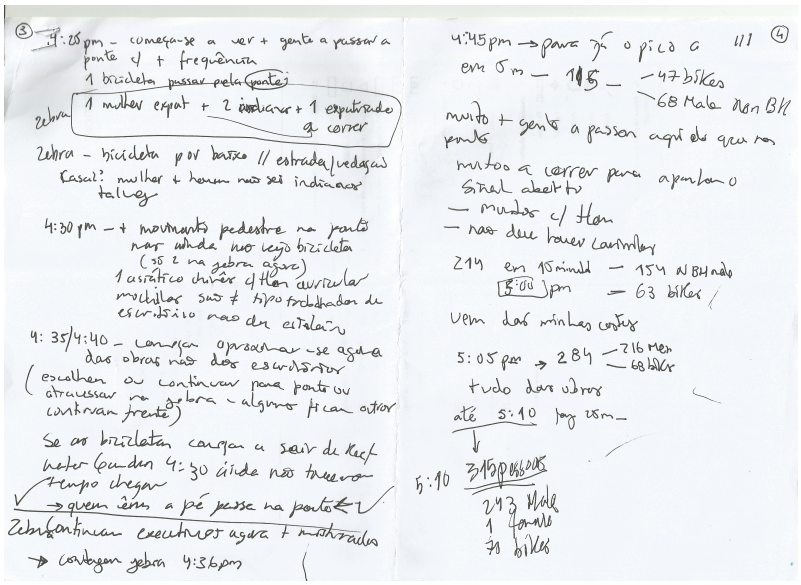
Zebra Passadeira
16/5/2017 – condições = ao anterior
5:20pm to 5:25pm
1 worker
1 white collar
funcionário aqui chegar 5:30pm

Levantamento 1
male – ||
biker – | (coming from Bal A Bahrain) (worker)

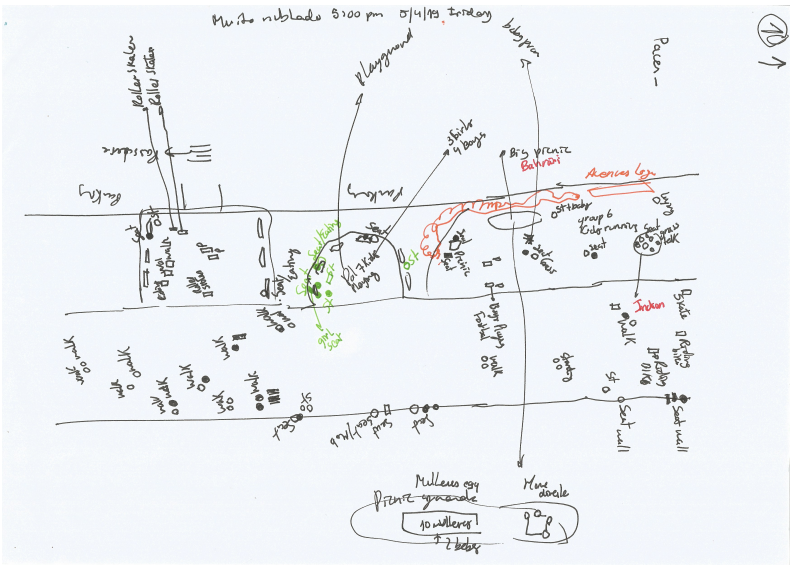
Levantamento 2
Some males are coming through middle high → males / workers
4 + 3 + 2
not much traffic ± 1 hour to break fast
não se vê ninguém ponte
– some van stops na frente da bolsa para deixar 3 males sair e atravessar passadeira
Avenue of Filipina (female) walking pass by me

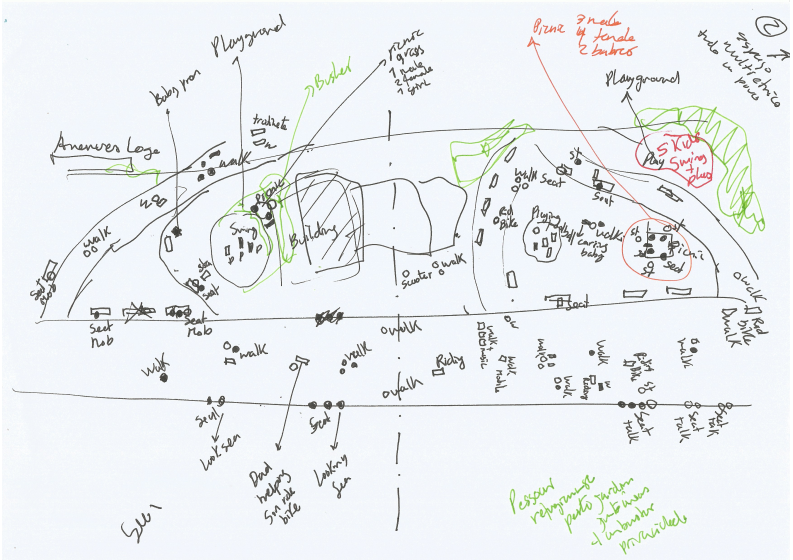
Bridge

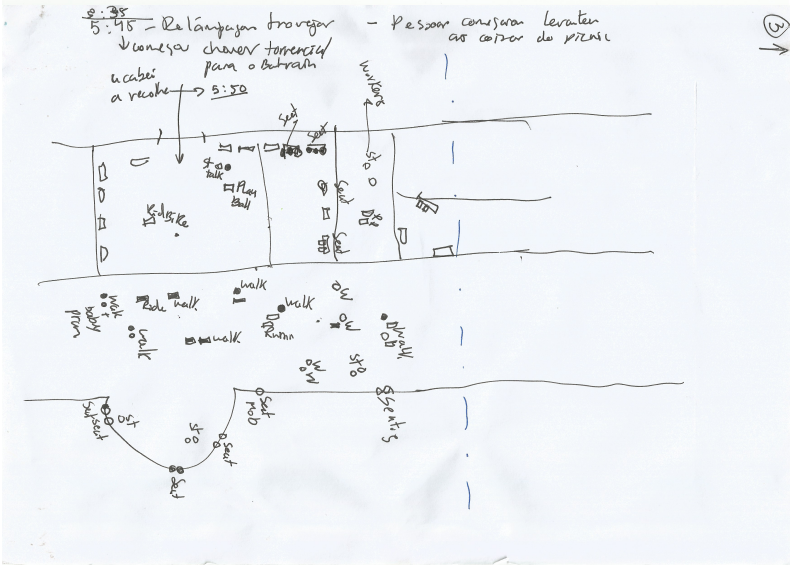




Avenues


Muito nublado 5:00 pm 5/4/19 Friday
Playground
Pacer
Big picnic
Bahrain
Avenues Loge
Seat wall
Mulleres egg
Picnic grande
10 mulleres
2 bebes
Mine double


Playground
Bubs pran
Busker
Avenues Loge
Building
Seat Mob
Riding
Pessoas reprogramas parte jardim
+ embaixo
privacidade

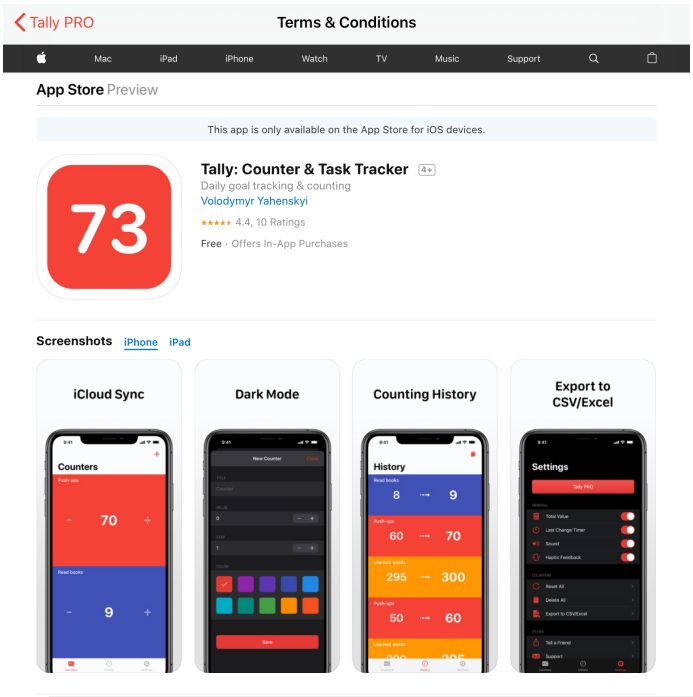

5:45 – Relâmpagos trovejar
– Pessoas começam levantem as coisas do picnic
começa chover torrencial para o Bahrain
acabei a recolhe → 5:50
Seat
Walk
Riding
Seat Mob
Seat

ANNEXES 6

APPS

1. Tally
2. Pacer
3. Exif Viewer lite
4. Morpholio Trace
5. My Maps

1. Tally



Features:
• Simple interface
• Dark mode
• iCloud sync
• Counting history
• Total counters value
• Last change timer
• Reorder counters using a long press gesture
• Rename each counter as you want
• Assign different colors to each counter
• Sound confirmation of counts
• Haptic feedback on supported devices
• Select the step size for your count
• Reset, delete and export all counter data at once

Multiple counters, as many as you need. To delete, reset or edit the counter, just swipe left on it. To increase or decrease the counter value, tap at any point on the left or right side of it. Long press to reorder counters.

KARBABAD 01 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 9:32:28 PM	15
BH male elderly	4/18/19 5:30:05 PM	0
BH Male young adult	4/18/19 9:31:04 PM	4
BH female adult	4/18/19 9:34:08 PM	12
BH female elderly	4/18/19 5:30:22 PM	0
BH female young adult	4/18/19 9:33:54 PM	4
Non BH male adult	4/18/19 9:33:33 PM	1
Non BH Male elderly	4/18/19 9:26:53 PM	0
Non BH Male young adult	4/18/19 9:26:55 PM	0
Non BH female adult	4/18/19 9:32:38 PM	1
Non BH female elderly	4/18/19 5:33:07 PM	0
Non BH female young adult	4/18/19 9:26:57 PM	0
BH kids	4/18/19 9:34:10 PM	22
Non BH kids	4/18/19 5:34:02 PM	0
TOTAL		**59**

KARBABAD 02 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 9:41:48 PM	19
BH male elderly	4/18/19 9:35:55 PM	0
BH Male young adult	4/18/19 9:40:37 PM	8
BH female adult	4/18/19 9:41:46 PM	29
BH female elderly	4/18/19 9:35:55 PM	0
BH female young adult	4/18/19 9:40:31 PM	6
Non BH male adult	4/18/19 9:41:42 PM	12
Non BH Male elderly	4/18/19 9:35:55 PM	0
Non BH Male young adult	4/18/19 9:35:55 PM	0
Non BH female adult	4/18/19 9:35:55 PM	0
Non BH female elderly	4/18/19 9:35:55 PM	0
Non BH female young adult	4/18/19 9:40:14 PM	0
BH kids	4/18/19 9:41:50 PM	26
Non BH kids	4/18/19 9:39:17 PM	2
TOTAL		**102**

KARBABAD 03 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 9:48:06 PM	18
BH male elderly	4/18/19 9:45:38 PM	0
BH Male young adult	4/18/19 9:48:36 PM	8
BH female adult	4/18/19 9:48:11 PM	14
BH female elderly	4/18/19 9:42:58 PM	0
BH female young adult	4/18/19 9:46:15 PM	6
Non BH male adult	4/18/19 9:43:31 PM	2
Non BH Male elderly	4/18/19 9:42:58 PM	0
Non BH Male young adult	4/18/19 9:42:58 PM	0
Non BH female adult	4/18/19 9:46:41 PM	2
Non BH female elderly	4/18/19 9:42:58 PM	0
Non BH female young adult	4/18/19 9:42:58 PM	0
BH kids	4/18/19 9:47:58 PM	13
Non BH kids	4/18/19 9:46:44 PM	1
TOTAL		**64**

KARBABAD 04 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 9:54:33 PM	30
BH male elderly	4/18/19 9:51:28 PM	1
BH Male young adult	4/18/19 9:54:04 PM	13
BH female adult	4/18/19 9:54:43 PM	26
BH female elderly	4/18/19 9:49:20 PM	0
BH female young adult	4/18/19 9:54:54 PM	12
Non BH male adult	4/18/19 9:49:20 PM	0
Non BH Male elderly	4/18/19 9:49:20 PM	0
Non BH Male young adult	4/18/19 9:49:20 PM	0
Non BH female adult	4/18/19 9:49:20 PM	0
Non BH female elderly	4/18/19 9:49:20 PM	0
Non BH female young adult	4/18/19 9:49:20 PM	0
BH kids	4/18/19 9:54:47 PM	15
Non BH kids	4/18/19 9:49:20 PM	0
TOTAL		**97**

KARBABAD 05 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 10:01:48 PM	13
BH male elderly	4/18/19 9:55:42 PM	0
BH Male young adult	4/18/19 10:02:00 PM	6
BH female adult	4/18/19 10:01:25 PM	7
BH female elderly	4/18/19 9:55:42 PM	0
BH female young adult	4/18/19 10:01:16 PM	10
Non BH male adult	4/18/19 9:55:42 PM	0
Non BH Male elderly	4/18/19 9:55:42 PM	0
Non BH Male young adult	4/18/19 9:59:14 PM	0
Non BH female adult	4/18/19 10:01:35 PM	1
Non BH female elderly	4/18/19 9:55:42 PM	0
Non BH female young adult	4/18/19 9:55:42 PM	0
BH kids	4/18/19 10:01:41 PM	8
Non BH kids	4/18/19 9:55:42 PM	0
TOTAL	Total	**45**

KARBABAD 06 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 10:06:56 PM	6
BH male elderly	4/18/19 10:02:48 PM	0
BH Male young adult	4/18/19 10:02:48 PM	0
BH female adult	4/18/19 10:06:51 PM	1
BH female elderly	4/18/19 10:02:48 PM	0
BH female young adult	4/18/19 10:06:50 PM	3
Non BH male adult	4/18/19 10:02:48 PM	0
Non BH Male elderly	4/18/19 10:02:48 PM	0
Non BH Male young adult	4/18/19 10:02:48 PM	0
Non BH female adult	4/18/19 10:02:48 PM	0
Non BH female elderly	4/18/19 10:02:48 PM	0
Non BH female young adult	4/18/19 10:02:48 PM	0
BH kids	4/18/19 10:07:45 PM	2
Non BH kids	4/18/19 10:02:48 PM	0
TOTAL		**12**

KARBABAD 07 | 18th April 2019

Categories	Date	Value
BH Male adult	4/18/19 10:18:42 PM	9
BH male elderly	4/18/19 10:09:28 PM	0
BH Male young adult	4/18/19 10:17:40 PM	1
BH female adult	4/18/19 10:17:41 PM	4
BH female elderly	4/18/19 10:09:28 PM	0
BH female young adult	4/18/19 10:19:32 PM	2
Non BH male adult	4/18/19 10:09:28 PM	0
Non BH Male elderly	4/18/19 10:09:28 PM	0
Non BH Male young adult	4/18/19 10:09:28 PM	0
Non BH female adult	4/18/19 10:09:28 PM	0
Non BH female elderly	4/18/19 10:09:28 PM	0
Non BH female young adult	4/18/19 10:09:28 PM	0
BH kids	4/18/19 10:15:27 PM	2
Non BH kids	4/18/19 10:09:28 PM	0
TOTAL		**18**

KARBABAD 01 | 19th April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:24:15 PM	19
BH male elderly	4/19/19 9:23:24 PM	1
BH Male young adult	4/19/19 9:21:52 PM	2
BH female adult	4/19/19 9:24:20 PM	5
BH female elderly	4/19/19 9:18:33 PM	0
BH female young adult	4/19/19 9:24:21 PM	9
Non BH male adult	4/19/19 9:24:18 PM	4
Non BH Male elderly	4/19/19 9:18:33 PM	0
Non BH Male young adult	4/19/19 9:18:33 PM	0
Non BH female adult	4/19/19 9:18:33 PM	0
Non BH female elderly	4/19/19 9:18:33 PM	0
Non BH female young adult	4/19/19 9:18:33 PM	0
BH kids	4/19/19 9:22:47 PM	12
Non BH kids	4/19/19 9:18:33 PM	0
TOTAL		**52**

KARBABAD 02 | 19th April 2019

Categories	Date	Value
BH male adult	19/04/2019 21:31:36	10
BH male elderly	19/04/2019 21:27:50	1
BH male young adult	18/04/2019 18:20:24	0
BH female adult	19/04/2019 21:31:41	8
BH female elderly	18/04/2019 18:20:53	0
BH female young	19/04/2019 21:28:51	3
Non Bh male adult	18/04/2019 18:22:13	0
Non BH male elderly	18/04/2019 18:22:43	0
Non BH young adult	18/04/2019 18:23:00	0
Non BH female adult	19/04/2019 21:24:04	0
Non BH female elderly	19/04/2019 21:23:51	0
Non BH female young adult	19/04/2019 21:23:46	0
BH kids	19/04/2019 21:29:34	2
Non BH kids	19/04/2019 21:23:43	0
TOTAL		**24**

KARBABAD 03 | 19th April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:30:45 PM	11
BH male elderly	4/19/19 9:28:26 PM	1
BH Male young adult	4/19/19 9:31:08 PM	1
BH female adult	4/19/19 9:30:10 PM	5
BH female elderly	4/19/19 9:26:56 PM	0
BH female young adult	4/19/19 9:31:07 PM	2
Non BH male adult	4/19/19 9:31:14 PM	2
Non BH Male elderly	4/19/19 9:26:56 PM	0
Non BH Male young adult	4/19/19 9:26:56 PM	0
Non BH female adult	4/19/19 9:31:15 PM	2
Non BH female elderly	4/19/19 9:26:56 PM	0
Non BH female young adult	4/19/19 9:26:56 PM	0
BH kids	4/19/19 9:30:59 PM	2
Non BH kids	4/19/19 9:26:56 PM	0
TOTAL		**26**

KARBABAD 04 | 19th April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:36:57 PM	12
BH male elderly	4/19/19 9:32:34 PM	0
BH Male young adult	4/19/19 9:36:34 PM	5
BH female adult	4/19/19 9:37:43 PM	5
BH female elderly	4/19/19 9:32:34 PM	0
BH female young adult	4/19/19 9:34:40 PM	2
Non BH male adult	4/19/19 9:38:07 PM	8
Non BH Male elderly	4/19/19 9:32:34 PM	0
Non BH Male young adult	4/19/19 9:32:34 PM	0
Non BH female adult	4/19/19 9:36:54 PM	3
Non BH female elderly	4/19/19 9:32:34 PM	0
Non BH female young adult	4/19/19 9:32:34 PM	0
BH kids	4/19/19 9:36:21 PM	6
Non BH kids	4/19/19 9:32:34 PM	0
TOTAL		**41**

KARBABAD 05 | 19th April 2019

Categories	Date	Value
BH male adult	19/04/2019 21:37:21	3
BH male elderly	19/04/2019 21:35:15	1
BH male young adult	19/04/2019 21:36:28	5
BH female adult	19/04/2019 21:35:17	1
BH female elderly	19/04/2019 21:32:38	0
BH female young	19/04/2019 21:32:38	0
Non Bh male adult	19/04/2019 21:32:38	0
Non BH male elderly	19/04/2019 21:32:38	0
Non BH young adult	19/04/2019 21:36:40	1
Non BH female adult	19/04/2019 21:39:27	1
Non BH female elderly	19/04/2019 21:32:38	0
Non BH female young adult	19/04/2019 21:32:38	0
BH kids	19/04/2019 21:32:38	0
Non BH kids	19/04/2019 21:39:21	1
TOTAL		**13**

KARBABAD 06 | 19th April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:45:21 PM	31
BH male elderly	4/19/19 9:45:51 PM	4
BH Male young adult	4/19/19 9:45:24 PM	3
BH female adult	4/19/19 9:45:22 PM	11
BH female elderly	4/19/19 9:40:24 PM	0
BH female young adult	4/19/19 9:43:18 PM	1
Non BH male adult	4/19/19 9:43:01 PM	1
Non BH Male elderly	4/19/19 9:40:24 PM	0
Non BH Male young adult	4/19/19 9:43:31 PM	1
Non BH female adult	4/19/19 9:40:24 PM	0
Non BH female elderly	4/19/19 9:40:24 PM	0
Non BH female young adult	4/19/19 9:40:24 PM	0
BH kids	4/19/19 9:45:55 PM	15
Non BH kids	4/19/19 9:43:03 PM	1
TOTAL		**68**

KARBABAD 07 | 19th April 2019

Categories	Date	Value
BH male adult	19/04/2019 21:50:53	4
BH male elderly	19/04/2019 21:40:50	0
BH male young adult	19/04/2019 21:49:20	3
BH female adult	19/04/2019 21:49:05	2
BH female elderly	19/04/2019 21:47:57	1
BH female young	19/04/2019 21:47:57	1
Non Bh male adult	19/04/2019 21:40:50	0
Non BH male elderly	19/04/2019 21:40:50	0
Non BH young adult	19/04/2019 21:40:50	0
Non BH female adult	19/04/2019 21:49:12	1
Non BH female elderly	19/04/2019 21:40:50	0
Non BH female young adult	19/04/2019 21:40:50	0
BH kids	19/04/2019 21:48:49	3
Non BH kids	19/04/2019 21:40:50	0
TOTAL		**15**

KARBABAD 08 | 19th April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:55:25 PM	4
BH male elderly	4/19/19 9:50:35 PM	0
BH Male young adult	4/19/19 9:51:02 PM	3
BH female adult	4/19/19 9:53:01 PM	3
BH female elderly	4/19/19 9:50:35 PM	0
BH female young adult	4/19/19 9:50:47 PM	0
Non BH male adult	4/19/19 9:50:35 PM	0
Non BH Male elderly	4/19/19 9:50:35 PM	0
Non BH Male young adult	4/19/19 9:51:33 PM	1
Non BH female adult	4/19/19 9:51:57 PM	1
Non BH female elderly	4/19/19 9:50:35 PM	0
Non BH female young adult	4/19/19 9:50:35 PM	0
BH kids	4/19/19 9:50:35 PM	0
Non BH kids	4/19/19 9:52:01 PM	1
TOTAL		**13**

KARBABAD 01 | 26th April 2019

Categories	Date	Value
BH male adult	26/04/2019 21:19:07	26
BH male elderly	26/04/2019 21:18:06	1
BH male young adult	26/04/2019 21:18:37	3
BH female adult	26/04/2019 21:19:06	22
BH female elderly	26/04/2019 21:12:48	0
BH female young	26/04/2019 21:18:20	8
Non Bh male adult	26/04/2019 21:15:51	3
Non BH male elderly	26/04/2019 21:12:48	0
Non BH young adult	26/04/2019 21:12:48	0
Non BH female adult	26/04/2019 21:15:54	1
Non BH female elderly	26/04/2019 21:12:48	0
Non BH female young adult	26/04/2019 21:12:48	0
BH kids	26/04/2019 21:18:03	20
Non BH kids	26/04/2019 21:12:48	0
TOTAL		**84**

KARBABAD 02 | 26th April 2019

Categories	Date	Value
BH Male adult	4/26/19 9:11:08 PM	12
BH male elderly	4/26/19 7:01:03 PM	0
BH Male young adult	4/26/19 9:11:21 PM	6
BH female adult	4/26/19 9:10:48 PM	10
BH female elderly	4/26/19 7:01:03 PM	0
BH female young adult	4/26/19 9:09:42 PM	5
Non BH male adult	4/26/19 9:10:38 PM	4
Non BH Male elderly	4/26/19 7:01:03 PM	0
Non BH Male young adult	4/26/19 9:08:37 PM	1
Non BH female adult	4/26/19 9:11:02 PM	7
Non BH female elderly	4/26/19 7:01:03 PM	0
Non BH female young adult	4/26/19 9:07:54 PM	1
BH kids	4/26/19 9:11:25 PM	19
Non BH kids	4/26/19 9:09:06 PM	3
Non BH Male bike	4/26/19 7:01:03 PM	0
TOTAL		**68**

KARBABAD 03 | 26th April 2019

Categories	Date	Value
BH male adult	26/04/2019 21:12:19	14
BH male elderly	19/04/2019 21:51:52	0
BH male young adult	19/04/2019 21:51:52	0
BH female adult	26/04/2019 21:12:18	7
BH female elderly	26/04/2019 21:08:54	0
BH female young	26/04/2019 21:10:13	3
Non Bh male adult	19/04/2019 21:51:52	0
Non BH male elderly	19/04/2019 21:51:52	0
Non BH young adult	19/04/2019 21:51:52	0
Non BH female adult	26/04/2019 21:07:50	1
Non BH female elderly	19/04/2019 21:51:52	0
Non BH female young adult	19/04/2019 21:51:52	0
BH kids	26/04/2019 21:11:49	15
Non BH kids	26/04/2019 21:10:38	0
TOTAL		**40**

KARBABAD 04 | 26th April 2019

Categories	Date	Value
BH Male adult	4/26/19 9:19:19 PM	25
BH male elderly	4/26/19 9:12:58 PM	0
BH Male young adult	4/26/19 9:18:32 PM	2
BH female adult	4/26/19 9:19:21 PM	27
BH female elderly	4/26/19 9:12:58 PM	0
BH female young adult	4/26/19 9:19:22 PM	1
Non BH male adult	4/26/19 9:19:28 PM	14
Non BH Male elderly	4/26/19 9:12:58 PM	0
Non BH Male young adult	4/26/19 9:12:58 PM	0
Non BH female adult	4/26/19 9:16:27 PM	4
Non BH female elderly	4/26/19 9:12:58 PM	0
Non BH female young adult	4/26/19 9:12:58 PM	0
BH kids	4/26/19 9:18:21 PM	16
Non BH kids	4/26/19 9:17:52 PM	2
Non BH Male bike	4/26/19 9:12:58 PM	0
TOTAL		**91**

KARBABAD 05 | 26th April 2019

Categories	Date	Value
BH male adult	26/04/2019 21:26:50	16
BH male elderly	26/04/2019 21:19:28	0
BH male young adult	26/04/2019 21:26:56	9
BH female adult	26/04/2019 21:27:11	23
BH female elderly	26/04/2019 21:19:28	0
BH female young	26/04/2019 21:26:53	11
Non Bh male adult	26/04/2019 21:24:20	5
Non BH male elderly	26/04/2019 21:19:28	0
Non BH young adult	26/04/2019 21:19:28	0
Non BH female adult	26/04/2019 21:26:04	3
Non BH female elderly	26/04/2019 21:19:28	0
Non BH female young adult	26/04/2019 21:19:28	0
BH kids	26/04/2019 21:27:15	17
Non BH kids	26/04/2019 21:19:28	0
TOTAL		**84**

KARBABAD 06 | 26th April 2019

Categories	Date	Value
BH Male adult	4/26/19 9:27:03 PM	14
BH male elderly	4/26/19 9:20:34 PM	0
BH Male young adult	4/26/19 9:22:37 PM	8
BH female adult	4/26/19 9:27:01 PM	8
BH female elderly	4/26/19 9:20:34 PM	0
BH female young adult	4/26/19 9:27:02 PM	9
Non BH male adult	4/26/19 9:24:28 PM	2
Non BH Male elderly	4/26/19 9:20:34 PM	0
Non BH Male young adult	4/26/19 9:20:34 PM	0
Non BH female adult	4/26/19 9:23:59 PM	1
Non BH female elderly	4/26/19 9:20:34 PM	0
Non BH female young adult	4/26/19 9:24:01 PM	1
BH kids	4/26/19 9:26:59 PM	7
Non BH kids	4/26/19 9:23:57 PM	2
Non BH Male bike	4/26/19 9:20:34 PM	0
TOTAL		**52**

KARBABAD 07 | 26th April 2019

Categories	Date	Value
BH male adult	26/04/2019 21:34:33	15
BH male elderly	26/04/2019 21:33:19	1
BH male young adult	26/04/2019 21:27:43	0
BH female adult	26/04/2019 21:34:46	13
BH female elderly	26/04/2019 21:27:43	0
BH female young	26/04/2019 21:32:08	1
Non Bh male adult	26/04/2019 21:33:54	1
Non BH male elderly	26/04/2019 21:27:43	0
Non BH young adult	26/04/2019 21:27:43	0
Non BH female adult	26/04/2019 21:27:43	0
Non BH female elderly	26/04/2019 21:27:43	0
Non BH female young adult	26/04/2019 21:27:43	0
BH kids	26/04/2019 21:34:49	7
Non BH kids	26/04/2019 21:27:43	0
TOTAL		**38**

KARBABAD 08 | 26th April 2019

Categories	Date	Value
BH Male adult	4/26/19 9:35:24 PM	6
BH male elderly	4/26/19 9:28:56 PM	0
BH Male young adult	4/26/19 9:35:09 PM	1
BH female adult	4/26/19 9:35:28 PM	4
BH female elderly	4/26/19 9:28:56 PM	0
BH female young adult	4/26/19 9:28:56 PM	0
Non BH male adult	4/26/19 9:35:17 PM	5
Non BH Male elderly	4/26/19 9:28:56 PM	0
Non BH Male young adult	4/26/19 9:33:52 PM	1
Non BH female adult	4/26/19 9:33:56 PM	2
Non BH female elderly	4/26/19 9:28:56 PM	0
Non BH female young adult	4/26/19 9:28:56 PM	0
BH kids	4/26/19 9:28:56 PM	0
Non BH kids	4/26/19 9:28:56 PM	0
TOTAL		**19**

SOUQ_CRICKET 01 | 21st April 2019

Categories	Date	Value
BH Male adult	4/19/19 9:56:41 PM	0
BH male elderly	4/19/19 9:56:41 PM	0
BH Male young adult	4/19/19 9:56:41 PM	0
BH female adult	4/19/19 9:56:48 PM	0
BH female elderly	4/19/19 9:56:41 PM	0
BH female young adult	4/19/19 9:56:41 PM	0
Non BH male adult	4/21/19 5:07:34 PM	72
Non BH Male elderly	4/19/19 9:56:41 PM	0
Non BH Male young adult	4/19/19 9:56:41 PM	0
Non BH female adult	4/21/19 4:56:30 PM	2
Non BH female elderly	4/19/19 9:56:41 PM	0
Non BH female young adult	4/21/19 4:53:48 PM	1
BH kids	4/21/19 4:23:07 PM	0
Non BH kids	4/21/19 4:56:32 PM	1
Non BH Male bike	4/21/19 5:07:38 PM	5
TOTAL		**81**

SOUQ_CRICKET 02 | 21st April 2019

Categories	Date	Value
BH Male adult	4/21/19 5:12:48 PM	0
BH male elderly	4/21/19 5:12:48 PM	0
BH Male young adult	4/21/19 5:12:48 PM	0
BH female adult	4/21/19 5:12:48 PM	0
BH female elderly	4/21/19 5:12:48 PM	0
BH female young adult	4/21/19 5:12:48 PM	0
Non BH male adult	4/21/19 5:56:45 PM	35
Non BH Male elderly	4/21/19 5:12:48 PM	0
Non BH Male young adult	4/21/19 5:12:48 PM	0
Non BH female adult	4/21/19 5:52:36 PM	3
Non BH female elderly	4/21/19 5:12:48 PM	0
Non BH female young adult	4/21/19 5:12:48 PM	0
BH kids	4/21/19 5:12:48 PM	0
Non BH kids	4/21/19 5:12:48 PM	0
Non BH Male bike	4/21/19 5:12:48 PM	0
TOTAL		**38**

SOUQ_CRICKET 03 | 21st April 2019

Categories	Date	Value
BH Male adult	4/21/19 5:58:54 PM	0
BH male elderly	4/21/19 5:58:54 PM	0
BH Male young adult	4/21/19 5:58:54 PM	0
BH female adult	4/21/19 5:58:54 PM	0
BH female elderly	4/21/19 5:58:54 PM	0
BH female young adult	4/21/19 5:58:54 PM	0
Non BH male adult	4/21/19 6:05:06 PM	80
Non BH Male elderly	4/21/19 5:58:54 PM	0
Non BH Male young adult	4/21/19 6:00:52 PM	1
Non BH female adult	4/21/19 6:02:46 PM	4
Non BH female elderly	4/21/19 5:58:54 PM	0
Non BH female young adult	4/21/19 5:58:54 PM	0
BH kids	4/21/19 5:58:54 PM	0
Non BH kids	4/21/19 6:03:45 PM	4
Non BH Male bike	4/21/19 5:58:54 PM	0
TOTAL		**89**

SOUQ_CRICKET 01 | 23rd April 2019

Categories	Date	Value
BH Male adult	4/23/19 3:37:46 PM	0
BH male elderly	4/23/19 3:37:46 PM	0
BH Male young adult	4/23/19 3:37:46 PM	0
BH female adult	4/23/19 3:37:46 PM	0
BH female elderly	4/23/19 3:37:46 PM	0
BH female young adult	4/23/19 3:37:46 PM	0
Non BH male adult	4/23/19 3:39:16 PM	3
Non BH Male elderly	4/23/19 3:37:46 PM	0
Non BH Male young adult	4/23/19 3:37:46 PM	0
Non BH female adult	4/23/19 3:37:46 PM	0
Non BH female elderly	4/23/19 3:37:46 PM	0
Non BH female young adult	4/23/19 3:37:46 PM	0
BH kids	4/23/19 3:37:46 PM	0
Non BH kids	4/23/19 3:37:46 PM	0
Non BH Male bike	4/23/19 3:37:46 PM	0
TOTAL		**3**

SOUQ_CRICKET 01 | 26th April 2019

Categories	Date	Value
BH Male adult	4/26/19 6:56:20 PM	1
BH male elderly	4/23/19 5:10:57 PM	0
BH Male young adult	4/23/19 5:10:57 PM	0
BH female adult	4/26/19 6:56:19 PM	2
BH female elderly	4/23/19 5:10:57 PM	0
BH female young adult	4/23/19 5:10:57 PM	0
Non BH male adult	4/26/19 6:56:14 PM	89
Non BH Male elderly	4/23/19 5:10:57 PM	0
Non BH Male young adult	4/23/19 5:10:57 PM	0
Non BH female adult	4/23/19 5:10:57 PM	0
Non BH female elderly	4/23/19 5:10:57 PM	0
Non BH female young adult	4/23/19 5:10:57 PM	0
BH kids	4/23/19 5:10:57 PM	0
Non BH kids	4/26/19 6:54:33 PM	1
Non BH Male bike	4/26/19 6:56:23 PM	1
TOTAL		**94**

REEF BIKES | 10th April 2019 | 4:25pm to 5:25pm

Categories	Info	Value
Bike going to Reef		7
Bike going from Reef		83
Bike going to City Centre		3
Bike coming from City Centre		10
Walking to Manama		8
Walking to Reef	Female with baby pram	8
Walking to City Centre		8
Walking from Reef	2 female with umbrella	7
Jogging to Reef		10
TOTAL		**144**

26 breezy | 62% Humidity

REEF BIKES | 11th June 2019 | 3:55pm to 5:00pm

Categories	Info	Value
Bike going to Reef		8
Bike going from Reef	Majority started after 4:30pm	69
Bike going to City Centre		2
Bike coming from City Centre		0
Walking to Manama	1 female with umbrella	4
Walking to Reef		2
Walking to City Centre		0
Walking from Reef		0
Jogging to Reef		3
TOTAL		**88**

38 feels like 44 | 39% Humidity | UV Index 4 | Visibility 9.7km | Wind N18km/h | 999hPa Pressure

REEF BIKES | 13th June 2019 | 4:30pm to 5:00pm

Categories	Info	Value
Bike going to Reef		0
Bike going from Reef		54
Bike going to City Centre		0
Bike coming from City Centre		0
Walking to Manama		5
Walking to Reef		0
Walking to City Centre		0
Walking from Reef		0
Jogging to Reef		0
TOTAL		**59**

37 feels like 40 | 34% Humidity | UV Index 4 | Visibility 9.7km | Wind NN35km/h | 999hPa Pressure Strong and dusty wind

WTC_Zebra 01 | 23rd April 2019

Categories	Date	Value
BH Male adult	4/23/19 4:00:17 PM	0
BH male elderly	4/23/19 4:00:17 PM	0
BH Male young adult	4/23/19 4:00:17 PM	0
BH female adult	4/23/19 4:00:17 PM	0
BH female elderly	4/23/19 4:00:17 PM	0
BH female young adult	4/23/19 4:00:17 PM	0
Non BH male adult	4/23/19 4:40:42 PM	12
Non BH Male elderly	4/23/19 4:00:17 PM	0
Non BH Male young adult	4/23/19 4:00:17 PM	0
Non BH female adult	4/23/19 4:00:17 PM	0
Non BH female elderly	4/23/19 4:00:17 PM	0
Non BH female young adult	4/23/19 4:00:17 PM	0
BH kids	4/23/19 4:00:17 PM	0
Non BH kids	4/23/19 4:00:17 PM	0
Non BH Male bike	4/23/19 4:40:11 PM	2
TOTAL		14

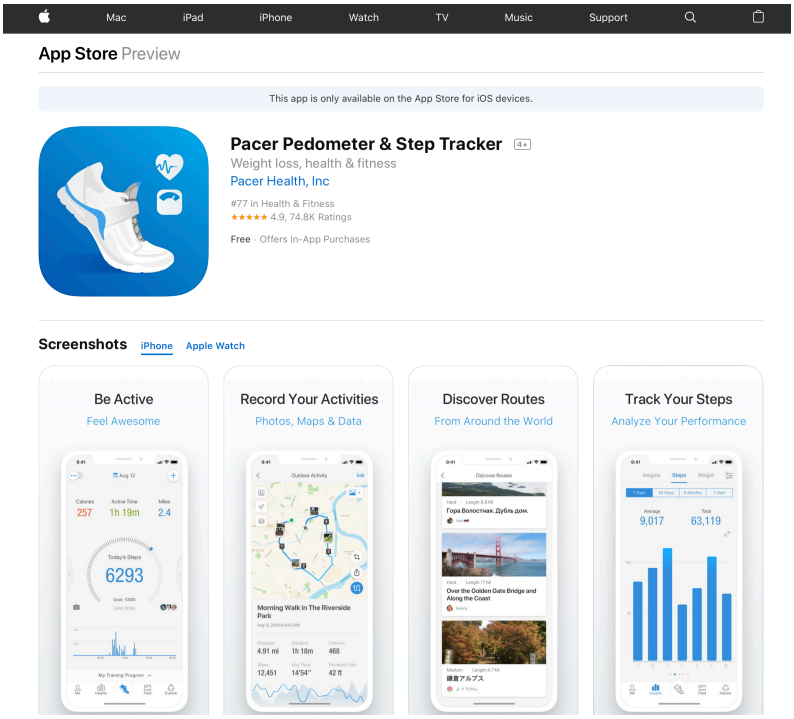
38 feels like 44 | 39% Humidity | UV Index 4 | Visibility 9.7km | Wind N18km/h | 999hPa Pressure

WTC_Zebra 02 | 23rd April 2019

Categories	Date	Value
BH Male adult	4/23/19 4:41:56 PM	0
BH male elderly	4/23/19 4:41:56 PM	0
BH Male young adult	4/23/19 4:41:56 PM	0
BH female adult	4/23/19 4:41:56 PM	0
BH female elderly	4/23/19 4:41:56 PM	0
BH female young adult	4/23/19 5:08:50 PM	1
Non BH male adult	4/23/19 5:09:01 PM	243
Non BH Male elderly	4/23/19 4:41:56 PM	0
Non BH Male young adult	4/23/19 4:41:56 PM	0
Non BH female adult	4/23/19 5:08:08 PM	1
Non BH female elderly	4/23/19 4:41:56 PM	0
Non BH female young adult	4/23/19 4:41:56 PM	0
BH kids	4/23/19 4:46:21 PM	0
Non BH kids	4/23/19 4:41:56 PM	0
Non BH Male bike	4/23/19 5:06:32 PM	70
	Total	315

38 feels like 44 | 39% Humidity | UV Index 4 | Visibility 9.7km | Wind N18km/h | 999hPa Pressure

2. Pacer



App Store Preview

Pacer is like having a walking buddy and health coach in one app. You can track all your activities in one beautifully intuitive interface. And you'll get motivation and support from our amazing Pacer community. Pacer's fun challenges, amazing data insights, outdoor routes, personalized fitness plans and guided workouts will help you achieve your unique fitness goals. Be active and feel great anywhere, any time!

GET STARTED RIGHT AWAY FOR FREE
-No wristband or other hardware required. Works entirely from your phone with no additional setup

TRACK ALL YOUR ACTIVITY
-Tracks your steps all day long whether your phone is in your hand, in your pocket, in your jacket, on an armband or in your purse
-Link to Apple Health to track with your Apple Watch
-Records steps, flights, calories, distance and active time
-Use GPS to track your outdoor walking, hiking, running and biking on a map

LOSE WEIGHT & GET FIT
-Track your weight and BMI over time, and correlate changes with your activity and other vitals

STAY MOTIVATED WITH FAMILY & FRIENDS
-Create walking groups with your friends and family to compare daily steps in real-time
-Connect with friends using iPhone or any other smartphones

ACHIEVE YOUR GOALS
-Stay motivated and on track with day-by-day Goals
-Support and motivate other users who share your goals

Other Great Features
-Syncs steps and calories with MyFitnessPal
-Syncs your data to Apple Health App
-Link to Apple Health to sync data from your Apple Watch
-Track your blood pressure along with activity and weight
-Create plans and set daily goals for yourself
-Based on science: track your metrics against standards provided by the World Health Organization, American Heart Association and President's Fitness Council.

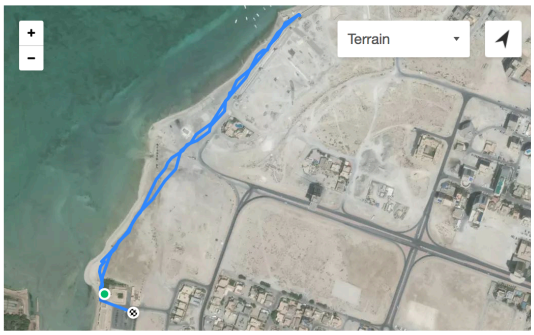
Other apps can track your walks, hikes, runs or workout sessions, but no other app can give you this level of comprehensive activity tracking and insight all on your iPhone with such a simple interface. Before you spend your money on an expensive wearable device, try Pacer first!

INFORMAL

Karbabad

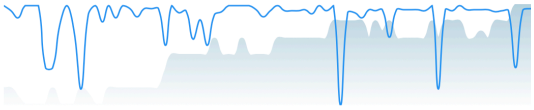
Thursday Noon Walk Activity

2019/4/4 11:37 AM



Distance	Duration	Calories	Steps
1.67 km	0:43:16	89	2213

Avg.Pace	Elevation Gain
25’53”	142 ft



Pace Elevation

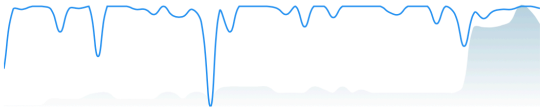
Saturday Afternoon Walk Activity

2019/4/6 4:08 PM



Distance	Duration	Calories	Steps
2.43 km	1:13:16	137	972

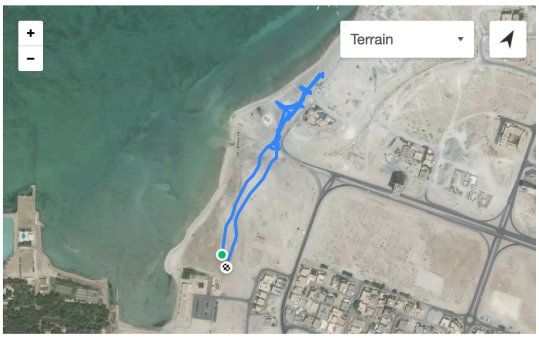
Avg.Pace	Elevation Gain
30’08”	230 ft



Pace Elevation

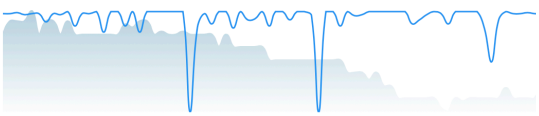
Thursday Evening Walk Activity

2019/4/18 9:17 PM



Distance	Duration	Calories	Steps
1.46 km	1:08:33	88	1849

Avg.Pace	Elevation Gain
47’02”	147 ft



Pace Elevation

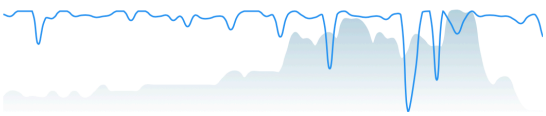
Friday Afternoon Walk Activity

2019/4/19 4:36 PM



Distance	Duration	Calories	Steps
2.89 km	1:22:16	171	3904

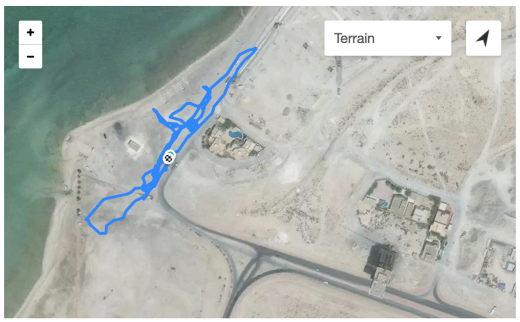
Avg.Pace	Elevation Gain
28’30”	282 ft



Pace Elevation

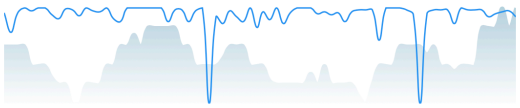
Sunday Evening Walk Activity

2019/4/21 8:57 PM



Distance	Duration	Calories	Steps
1.31 km	1:02:59	84	1509

Avg.Pace	Elevation Gain
47’58”	138 ft



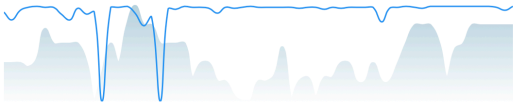
Tuesday Afternoon Walk Activity

2019/4/23 5:28 PM



Distance	Duration	Calories	Steps
2.44 km	0:15:51	110	18

Avg.Pace	Elevation Gain
06’29”	116 ft



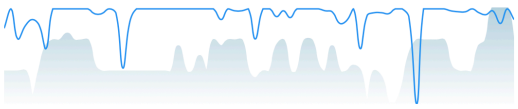
Thursday Morning Walk Activity

2019/4/25 9:15 AM



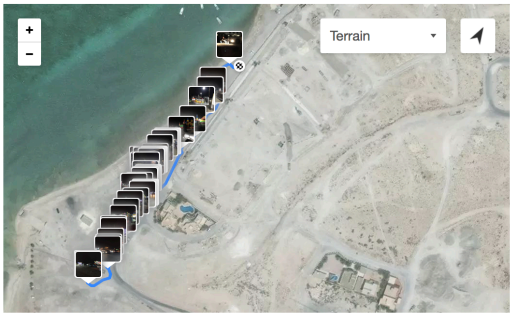
Distance	Duration	Calories	Steps
0.27 km	0:18:48	20	286

Avg.Pace	Elevation Gain
69’22”	66 ft



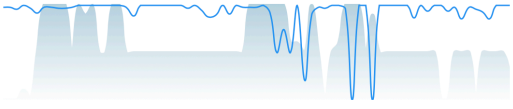
Friday Evening Walk Activity

2019/4/26 8:56 PM



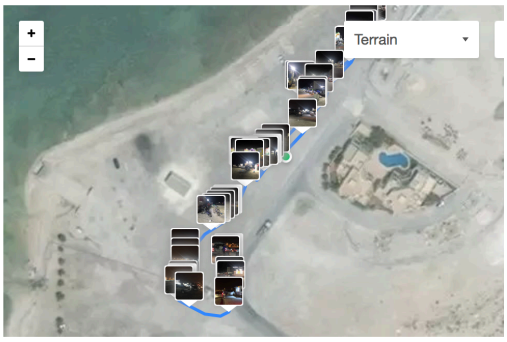
Distance	Duration	Calories	Steps
1.21 km	1:08:13	73	1324

Avg.Pace	Elevation Gain
56’28”	113 ft



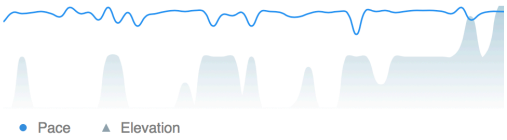
Saturday Evening Walk Activity

2019/4/27 12:01 AM



Distance	Duration	Calories	Steps
0.38 km	0:09:09	19	504

Avg.Pace	Elevation Gain
24’04”	21 ft



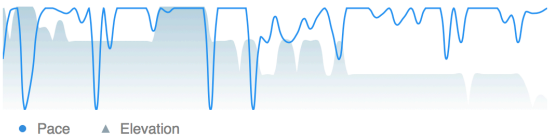
Thursday Evening Walk Activity

2019/5/2 8:20 PM



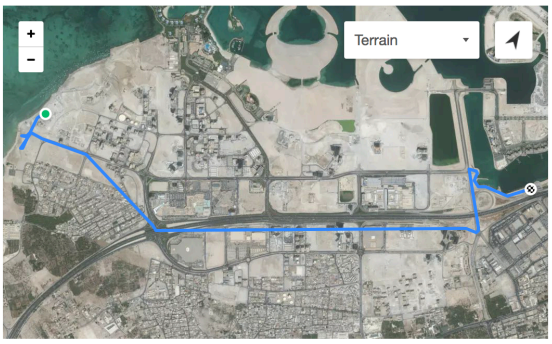
Distance	Duration	Calories	Steps
0.97 km	1:11:27	64	1130

Avg.Pace	Elevation Gain
73’16”	90 ft



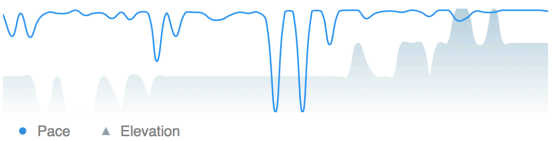
Friday Evening Walk Activity

2019/6/7 10:44 PM



Distance	Duration	Calories	Steps
5.86 km	0:23:49	100	545

Avg.Pace	Elevation Gain
04’03”	57 ft



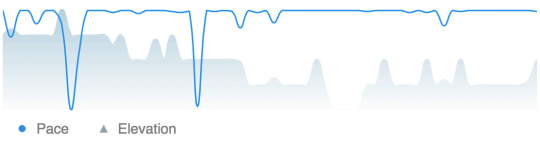
Thursday Morning Walk Activity

2019/4/4 8:33 AM



Distance	Duration	Calories	Steps
1.35 km	1:08:41	84	1638

Avg.Pace	Elevation Gain
50’57”	118 ft



Thursday Afternoon Walk Activity

2019/4/4 5:07 PM



Distance	Duration	Calories	Steps
1.48 km	1:19:22	94	1861

Avg.Pace	Elevation Gain
53’35”	151 ft



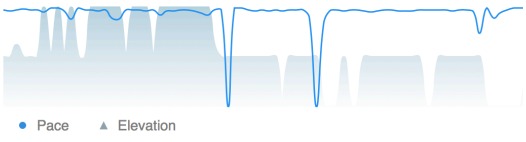
Wednesday Evening Walk Activity

2019/4/24 9:17 PM



Distance	Duration	Calories	Steps
1.12 km	0:20:09	54	1102

Avg.Pace	Elevation Gain
17’55”	52 ft



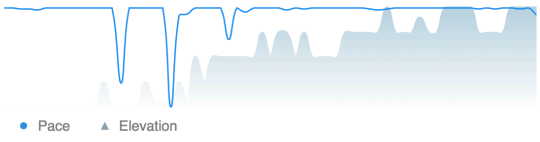
Thursday Morning Walk Activity

2019/4/25 10:36 AM



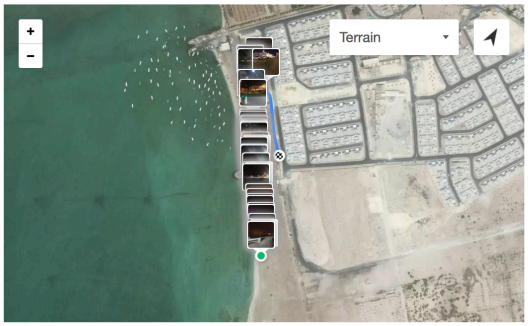
Distance	Duration	Calories	Steps
0.70 km	0:34:32	42	932

Avg.Pace	Elevation Gain
49’07”	89 ft



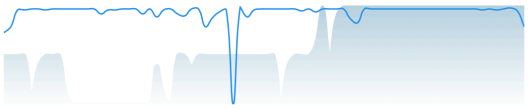
Friday Evening Walk Activity

2019/4/26 11:24 PM



Distance	Duration	Calories	Steps
0.63 km	0:12:59	30	792

Avg.Pace	Elevation Gain
20’38”	30 ft



Pace Elevation

Thursday Evening Walk Activity

2019/5/16 8:27 PM



Distance	Duration	Calories	Steps
0.46 km	0:42:54	32	441

Avg.Pace	Elevation Gain
92’51”	58 ft



Pace Elevation

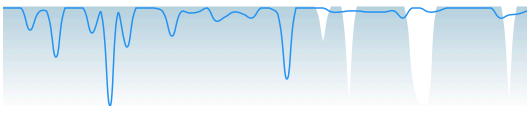
Friday Evening Walk Activity

2019/6/7 8:20 PM



Distance	Duration	Calories	Steps
1.24 km	0:56:17	63	1791

Avg.Pace	Elevation Gain
45’27”	72 ft

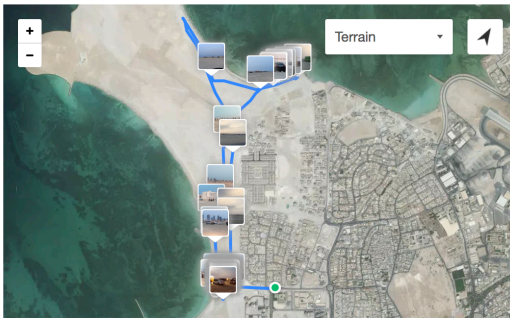


Pace Elevation

Busaiteen

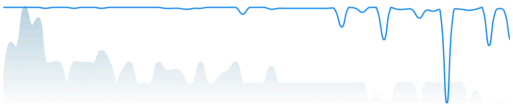
Friday Afternoon Cycling Activity

2019/4/26 5:50 PM



Distance	Duration	Calories	Steps
6.86 km	0:36:41	176	0

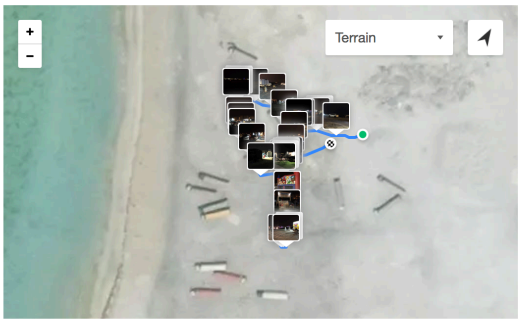
Avg.Pace	Elevation Gain
05’20”	146 ft



Pace Elevation

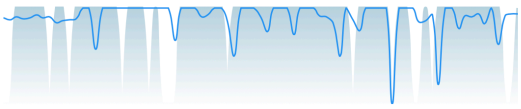
Friday Evening Walk Activity

2019/4/26 10:25 PM



Distance	Duration	Calories	Steps
0.32 km	0:20:03	20	412

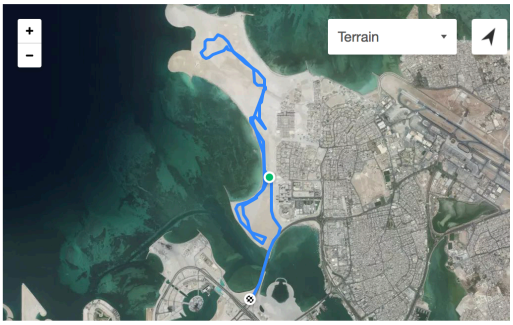
Avg.Pace	Elevation Gain
62’39”	35 ft



Pace Elevation

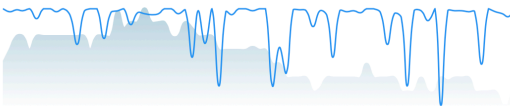
Friday Afternoon Cycling Activity

2019/5/3 4:26 PM



Distance	Duration	Calories	Steps
13.23 km	2:15:16	386	0

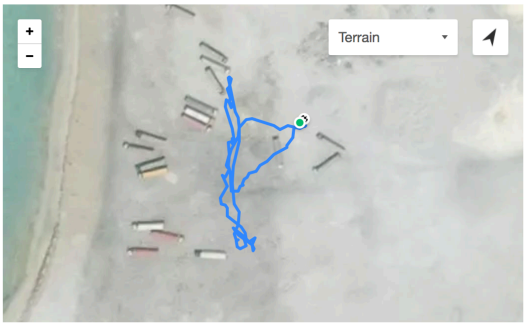
Avg.Pace	Elevation Gain
10’13”	328 ft



Pace Elevation

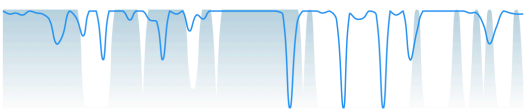
Thursday Evening Walk Activity

2019/5/16 9:38 PM



Distance	Duration	Calories	Steps
0.43 km	0:39:54	31	333

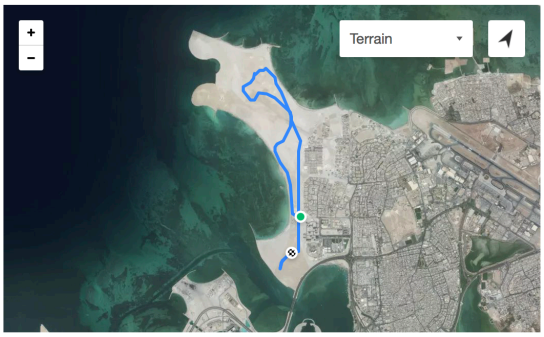
Avg.Pace	Elevation Gain
93’39”	57 ft



Pace Elevation

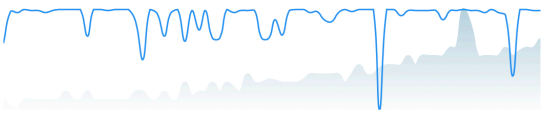
Friday Afternoon Cycling Activity

2019/5/17 2:51 PM



Distance	Duration	Calories	Steps
8.04 km	1:18:24	237	0

Avg.Pace	Elevation Gain
09’45”	342 ft



Pace Elevation

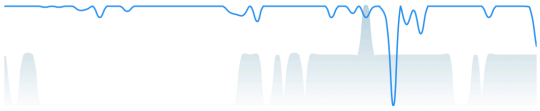
Friday Afternoon Cycling Activity

2019/6/14 3:34 PM



Distance	Duration	Calories	Steps
1.45 km	0:53:29	66	0

Avg.Pace	Elevation Gain
36’47”	73 ft



Pace Elevation

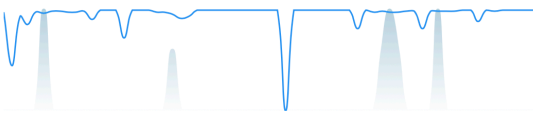
Friday Evening Walk Activity

2019/6/7 10:03 PM



Distance	Duration	Calories	Steps
0.50 km	0:18:21	29	314

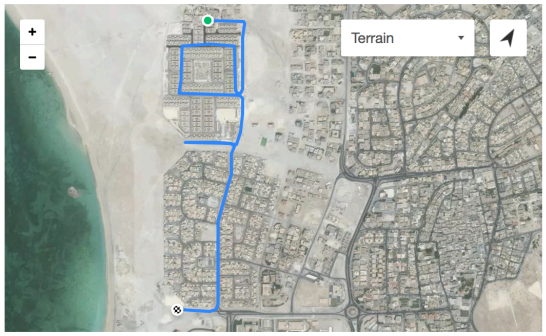
Avg.Pace	Elevation Gain
36’42”	31 ft



Pace Elevation

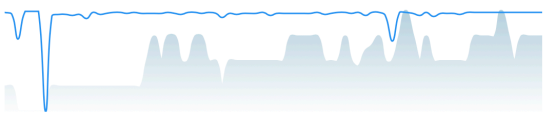
Thursday Afternoon Cycling Activity

2019/6/6 3:42 PM



Distance	Duration	Calories	Steps
2.84 km	0:10:52	68	0

Avg.Pace	Elevation Gain
03’49”	67 ft



Pace Elevation

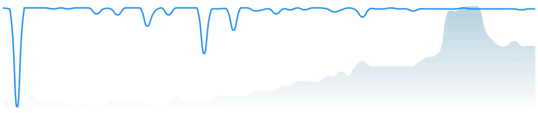
Friday Afternoon Walk Activity

2019/4/5 2:37 PM



Distance	Duration	Calories	Steps
1.92 km	1:12:02	114	2360

Avg.Pace	Elevation Gain
37’33”	200 ft



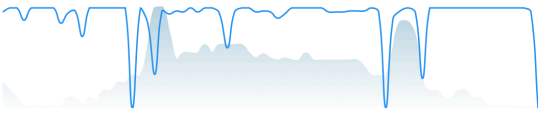
Sunday Afternoon Walk Activity

2019/4/21 4:52 PM



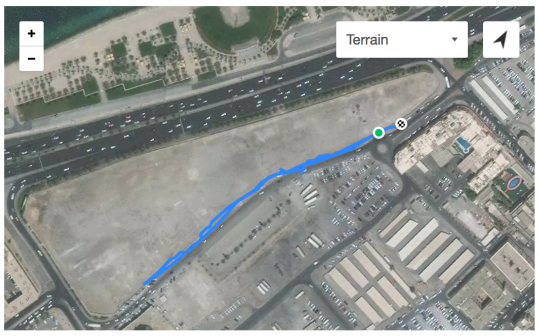
Distance	Duration	Calories	Steps
1.96 km	1:15:13	107	2426

Avg.Pace	Elevation Gain
38’20”	203 ft



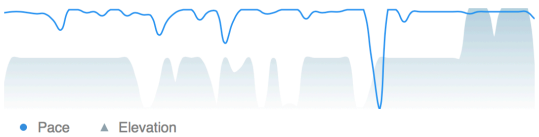
Monday Afternoon Walk Activity

2019/4/29 5:09 PM



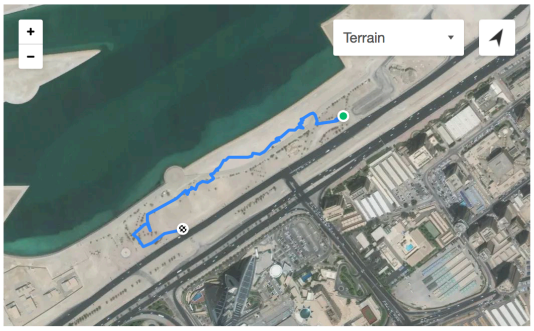
Distance	Duration	Calories	Steps
0.67 km	0:22:48	35	914

Avg.Pace	Elevation Gain
33’55”	47 ft



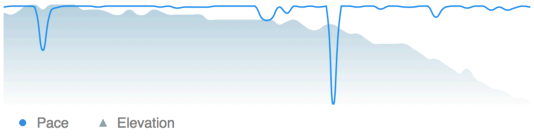
Friday Afternoon Walk Activity

2019/4/5 4:56 PM



Distance	Duration	Calories	Steps
0.89 km	0:54:33	60	872

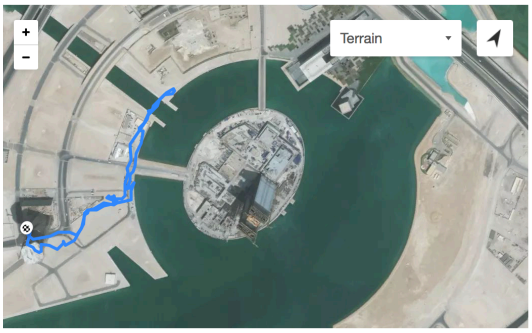
Avg.Pace	Elevation Gain
61’13”	79 ft



Pace ▲ Elevation

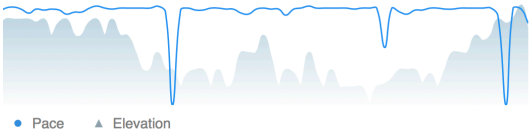
Saturday Morning Walk Activity

2019/4/6 10:13 AM



Distance	Duration	Calories	Steps
1.35 km	0:28:40	79	1745

Avg.Pace	Elevation Gain
21’09”	133 ft



Pace ▲ Elevation

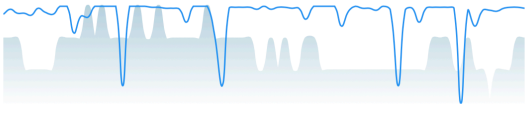
Saturday Morning Walk Activity

2019/4/6 9:14 AM



Distance	Duration	Calories	Steps
0.38 km	0:14:06	24	403

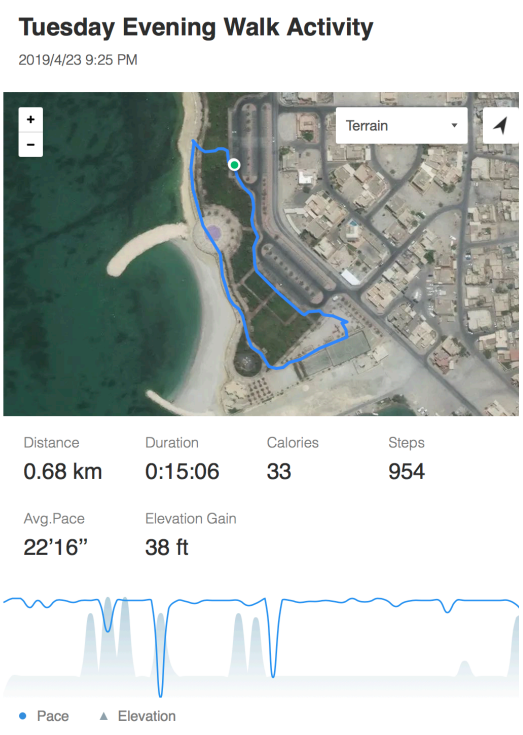
Avg.Pace	Elevation Gain
37’30”	44 ft

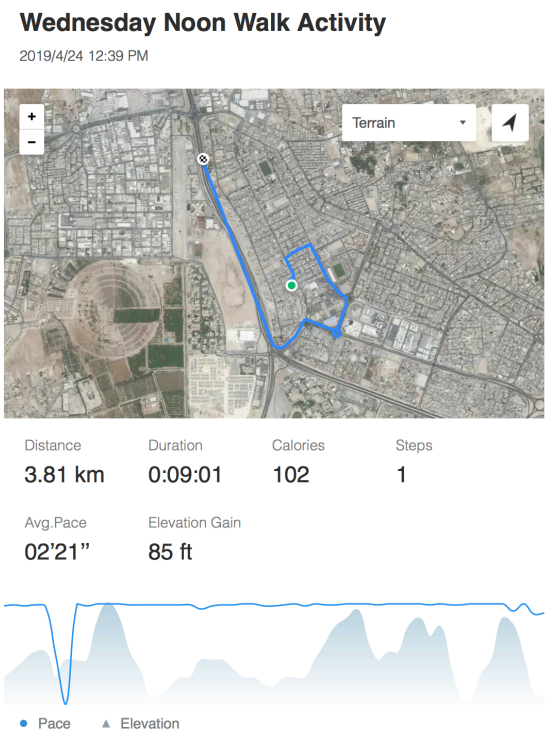


Pace ▲ Elevation

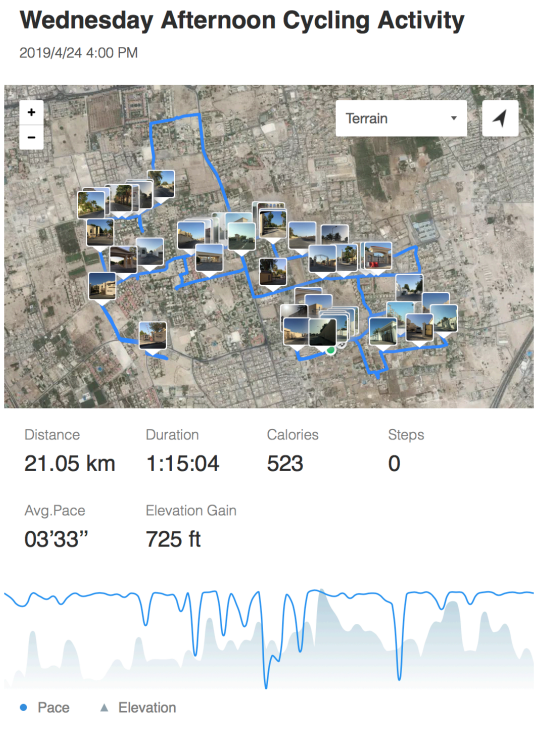
Budaiya Beach

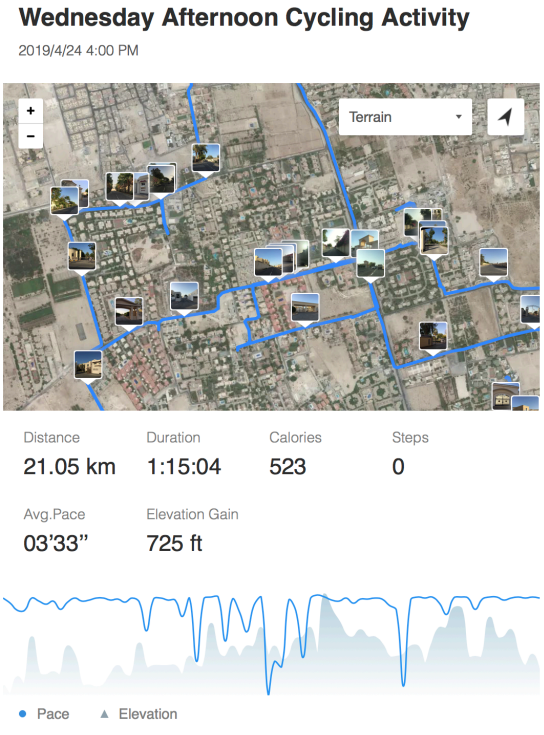
Isa Town



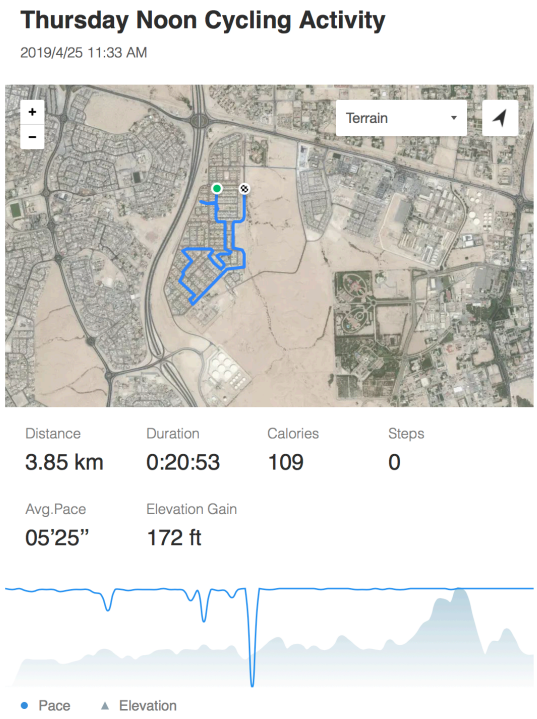


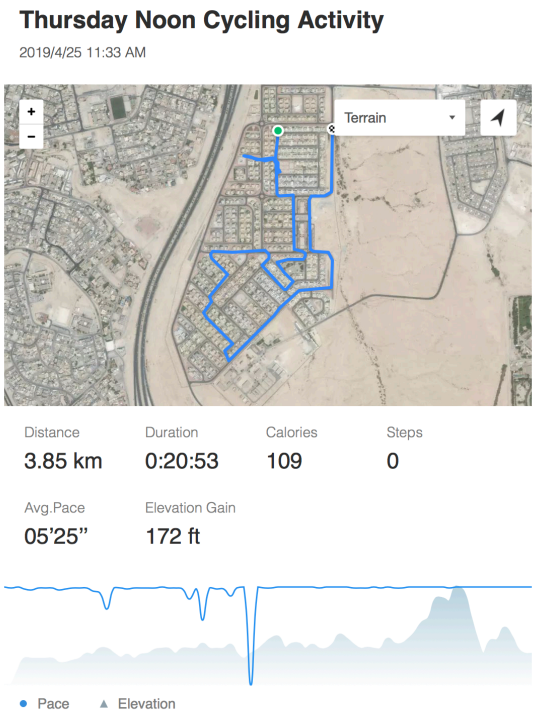
Saar



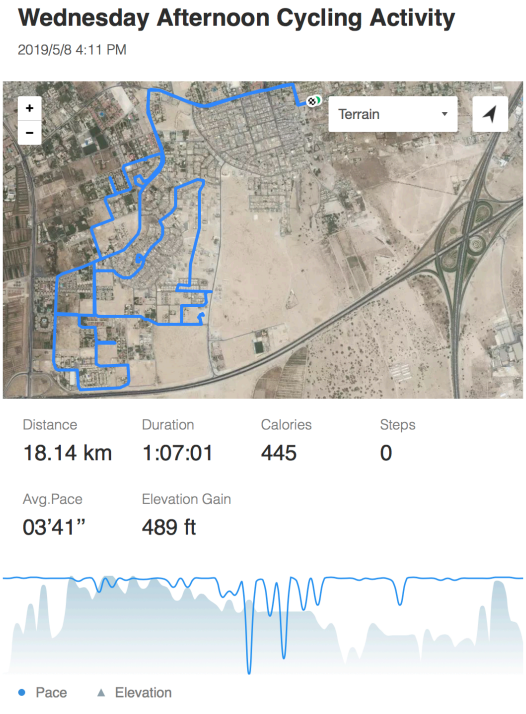


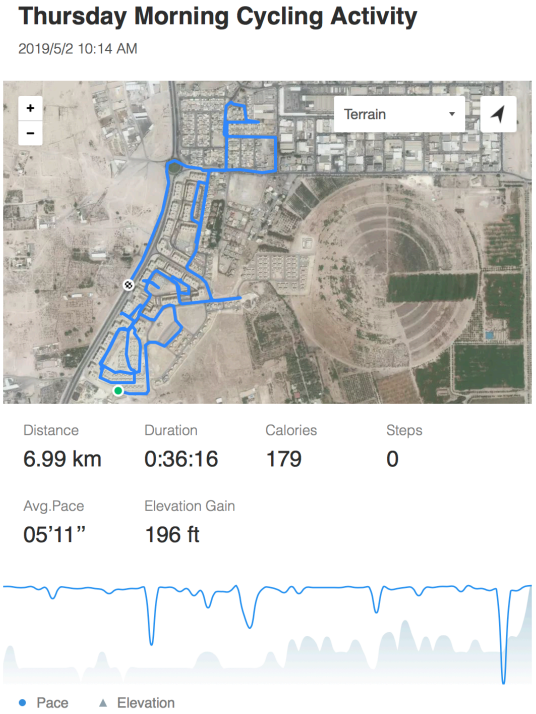
Al Lawzi





Wadi AlSail | Riffa

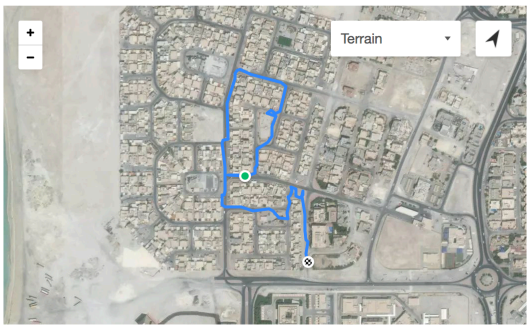




Busaiteen

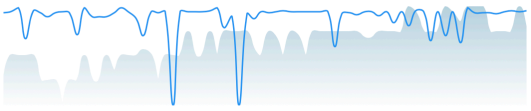
Saturday Afternoon Walk Activity

2019/4/6 2:17 PM



Distance	Duration	Calories	Steps
1.22 km	0:23:55	62	1644

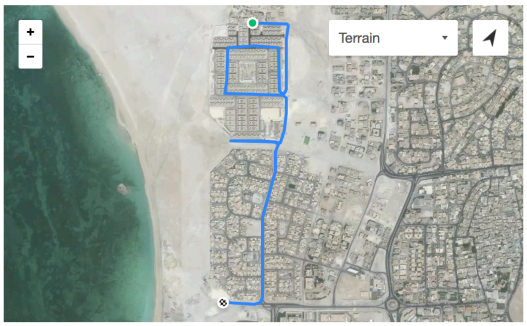
Avg.Pace	Elevation Gain
19’38”	86 ft



Pace ▲ Elevation

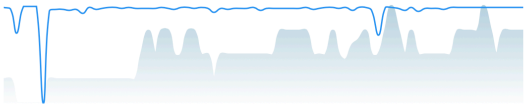
Thursday Afternoon Cycling Activity

2019/6/6 3:42 PM



Distance	Duration	Calories	Steps
2.84 km	0:10:52	68	0

Avg.Pace	Elevation Gain
03’49”	67 ft



Pace ▲ Elevation

Northern City

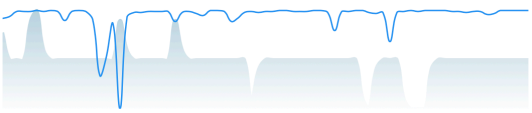
Wednesday Morning Walk Activity

2019/4/3 8:28 AM



Distance	Duration	Calories	Steps
0.41 km	0:06:22	19	492

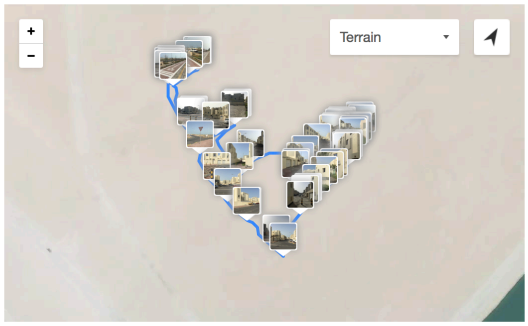
Avg.Pace	Elevation Gain
15’36”	18 ft



Pace ▲ Elevation

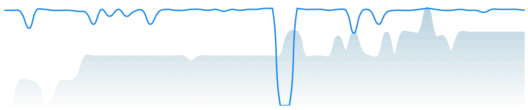
Wednesday Morning Walk Activity

2019/4/3 8:08 AM



Distance	Duration	Calories	Steps
0.90 km	0:15:39	43	1137

Avg.Pace	Elevation Gain
17’18”	46 ft

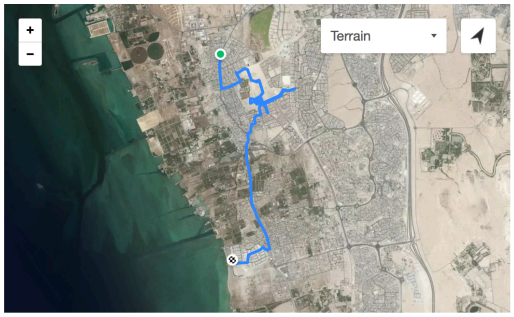


Pace ▲ Elevation

Janabiya

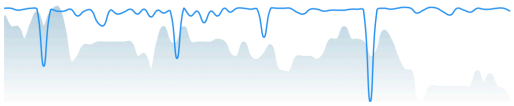
Wednesday Evening Cycling Activity

2019/4/24 8:44 PM



Distance	Duration	Calories	Steps
8.95 km	0:32:25	211	0

Avg.Pace	Elevation Gain
03’37”	189 ft

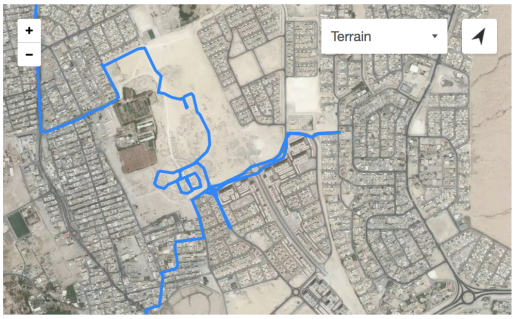


Pace ▲ Elevation

Salmabad

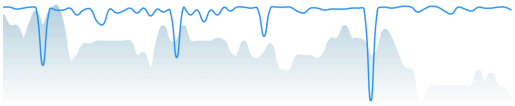
Wednesday Evening Cycling Activity

2019/4/24 8:44 PM



Distance	Duration	Calories	Steps
8.95 km	0:32:25	211	0

Avg.Pace	Elevation Gain
03’37”	189 ft

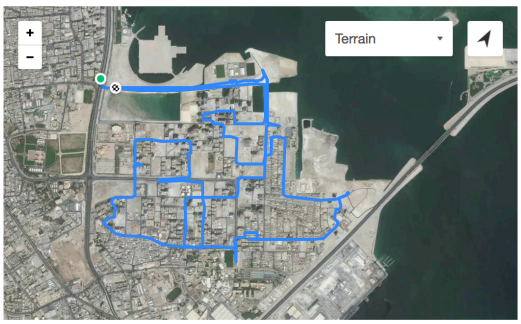


Pace ▲ Elevation

Juffair

Thursday Morning Cycling Activity

2019/5/9 9:43 AM



Distance	Duration	Calories	Steps
15.77 km	1:05:44	391	0

Avg.Pace	Elevation Gain
04’10”	458 ft

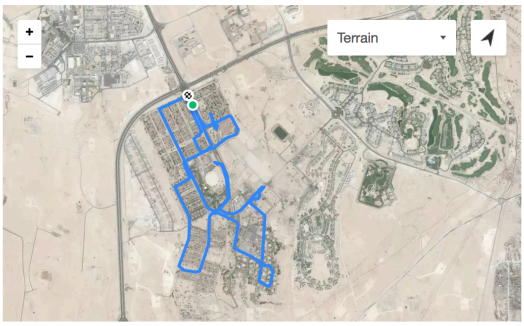


Pace ▲ Elevation

Awali

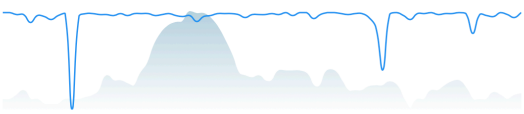
Thursday Noon Cycling Activity

2019/5/9 11:53 AM

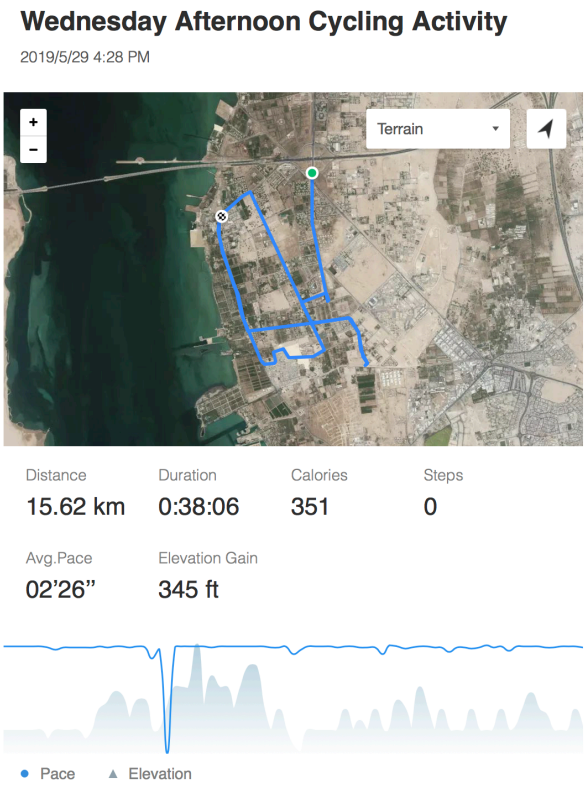


Distance	Duration	Calories	Steps
9.28 km	0:31:24	227	0

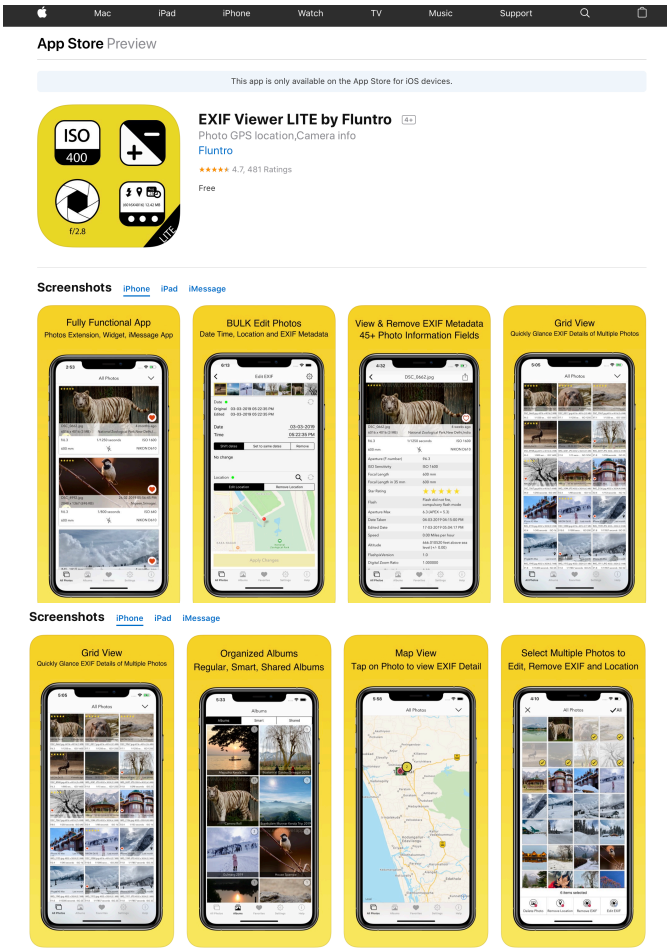
Avg.Pace	Elevation Gain
03’23”	229 ft



Pace ▲ Elevation


Wednesday Afternoon Cycling Activity
2019/5/29 4:28 PM
Terrain
Distance
15.62 km
Duration
0:38:06
Calories
351
Steps
0
Avg.Pace
02’26”
Elevation Gain
345 ft
Pace
Elevation

3. Exif Viewer lite



Exif Viewer is beautiful and well crafted app for professional photographers who are serious about their work.
This app also contain ExifViewer Photos Extension along with fully functional app. It's an universal app, buy once, use on all your iOS devices like iPhone, iPad

WHAT ARE FEATURES IN APP?
‣ App allows you to remove EXIF metadata including Photos GPS location known as Geotagging of photos.
‣ App displays EXIF metadata of any photo on your iOS device(s), Photo Stream or iCloud.
‣ Display EXIF tags like ISO,Shutter Speed,Focal length,Camera Model,Lens Model,Time stamp,Aperture,Shutter Count.
‣ Ability to Zoom in photos,even with large size like 80 MB without loosing clarity / resolution.
‣ Re-order EXIF tags in the way you prefer & ability to hide EXIF tags that you don't want to see.
‣ Select your preferred date formats (eg 1 day ago vs August 24th 2014 vs 24-08-2016 etc).
‣ You can optionally hide photos without EXIF metadata.
‣ Navigate quickly between next and previous photos in Exif detail screen by swiping right or left.
‣ App works great on landscape and portrait mode on iPads.
‣ App is optimised for all latest iOS Devices including iPhone 5SE,iPhone 8,iPhone X,iPad Mini,iPad air,iPad Pro.
‣ App also support 3D Touch on iPhone 8 and iPhone 8 Plus (or newer device with 3D Touch support). Including Appshortcut to access "Favorites","Photostreams","Albums","All photos" quickly. Also Peek and POP functionality on ExifCards and photos in grid view.
‣ Ability to share Image with or without EXIF Metadata.
‣ Copy EXIF data to Clipboard (So that you can paste & share EXIF data as text in any other app).
‣ Most Messaging and Social networking apps remove EXIF Metadata from photos you send/receive. However, sending photos using Mail/ AirDrop retains or SD Card reader/Camera connection kit etc retains EXIF metadata.

HOW TO REMOVE EXIF METADATA on iPhone or iPad using Exif Viewer app by Fluntro
You have option to remove EXIF data in two different ways
1) Overwrite newly created photo without EXIF data on original image (However other apps can revert back to original photo if needed)
2) Create duplicate copy of photo without EXIF details. (We also have option to remove original photo after duplicated copy is created)

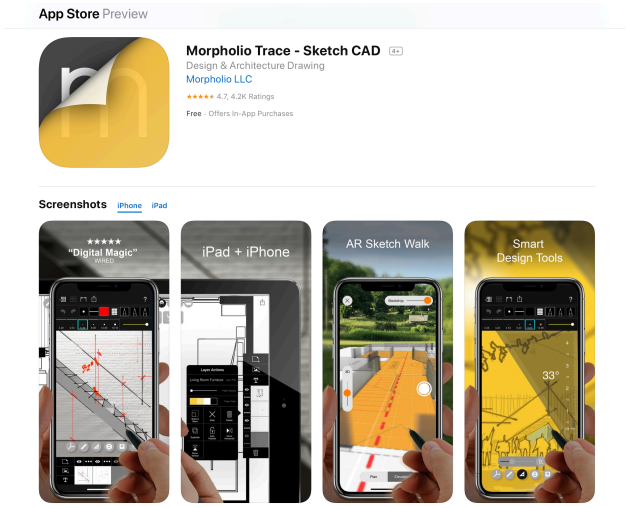
DIFFERENT TYPES OF VIEWS AVAILABLE ON EXIF VIEWER APP
1) EXIF Cards List view (as shown in screenshot), swipe to flip cards for Quick EXIF Details
2) Grid view
3) Map view shows cluster of photos on the map and view EXIF Details by tapping on photo (Satellite & Standard view)

HOW TO REORDER OR HIDE EXIF TAGS IN EXIF VIEWER APP?
Go to Settings > Manage & reorder Exif data tags.Drag and drop items you want to reorder. Turn off EXIF tags you don't want to see on EXIF Detail screen.

HOW TO VIEW EXIF DATA USING EXIF VIEWER PHOTOS EXTENSION?
1) Open Native Photos App (or any other 3rd Party apps). Select desired photo (s) and tap on Share/Action button. Select ExifViewer app extension
2) Exif Viewer App extension with all EXIF details would be displayed.
3) Share photos with or without EXIF metadata or copy EXIF details to clipboard within Photos Extension.

FAQ
Q1)What is EXIF Metadata?
EXIF “EXchangeable Image File Format”.
We quite often take pictures with our digital camera or phone. It always records and store a considerable amount of exif data within each image you take, which contains a lot information about your camera settings (ISO, aperture, focal length, image size, shutter speed, camera model, lens model, GPS) date, time, location and many more.Viewing EXIF metadata tags is important for beginners and professional photographers alike, to understand and review what camera settings or softwares were used to create and edit photo.

4. Morpholio Trace



SKETCH, DESIGN, CREATE
Trace is THE architecture and design app for EVERYONE. It's a truly unique drawing tool that allows you to easily develop ideas in layers, communicate via drawing markup, and work fluidly through ALL phases of the design process. Ideal for architects, designers, interior designers, illustrators, or members of any creative culture, it helps you create intelligent sketches and drawings to meet all your design needs. Draw on top of PDFs, maps, photos, images, drawing sets, background templates, and more with extraordinary resolution using exceptional designer tools, brushes and pens. Bring new life to your design process and transform your workflow with the ease, flexibility and the magic of digital hand sketching.

Trace has been featured by Wired, Dwell, Fast Company, ArchDaily, Cool Hunting, Dezeen, MacLife, Core77, designboom, Inhabitat, dexigner, Architectural Record, Archinect, Gizmodo and many more.

THINGS YOU CAN DO:

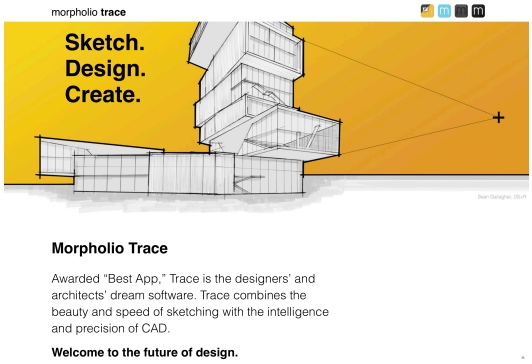
DESIGN
• Develop ideas, options & concepts
• Sketch buildings & objects
• Layout home, office & landscape renovations

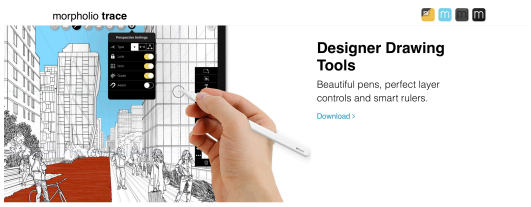
MARKUP
• Drawing sets & PDFs
• Construction site photos
• Presentations, renderings or images

DRAW
• Floor plans, sections & elevations to scale
• Site plans & landscaping
• Illustrations & presentation images

WORK
• Make & export drawing sets
• Scale & measure drawings or images
• Organize by project

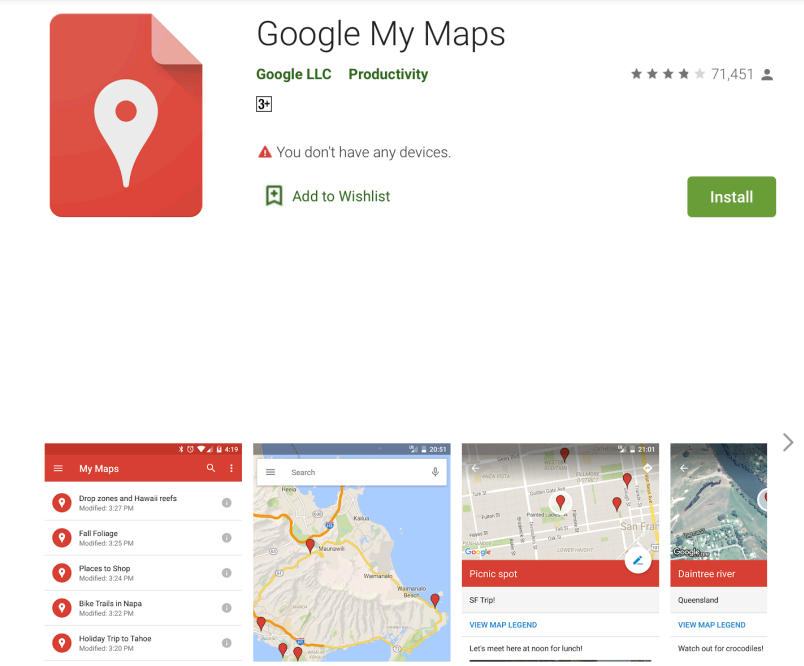
IPAD + IPHONE FEATURES INCLUDE:
• AR PERSPECTIVE FINDER: Set grids in REAL space
• SCALE: Draw and measure in metric or imperial
• MAPS: Instantly draw over any site to scale
• STENCILS: Custom entourage and more
• PERSPECTIVE GUIDE: Auto draw to vanishing points
• TOOLS: Ruler, triangle, protractor and more
• MULTIPLE PAGE PDFS: Markup, order and share
• MOVE PAPER: Moves like real trace paper
• LAYERS: Copy, mirror, lock and more
• EXPORT: Send sets, images and PDFs
• FOLDERS: Organize and save your work
• PENS AND BRUSHES: A variety of life-like options
• SCALE PEN: Smart line weights for precision drawing
• IMPORT: Access photo library, Camera, PDF, or Cloud drives







5. My Maps



Google My Maps is your way to keep track of the places that matter to you. Easily make custom maps to remember your favorite places, explore new cities, or plan great vacations.

MAKE THE MAP YOUR OWN

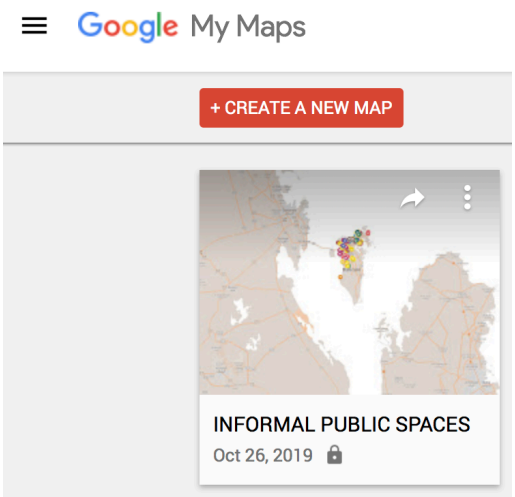
Personalize your custom maps and take them with you anywhere. Search for new places to save to the map or drop a pin right where you're standing.

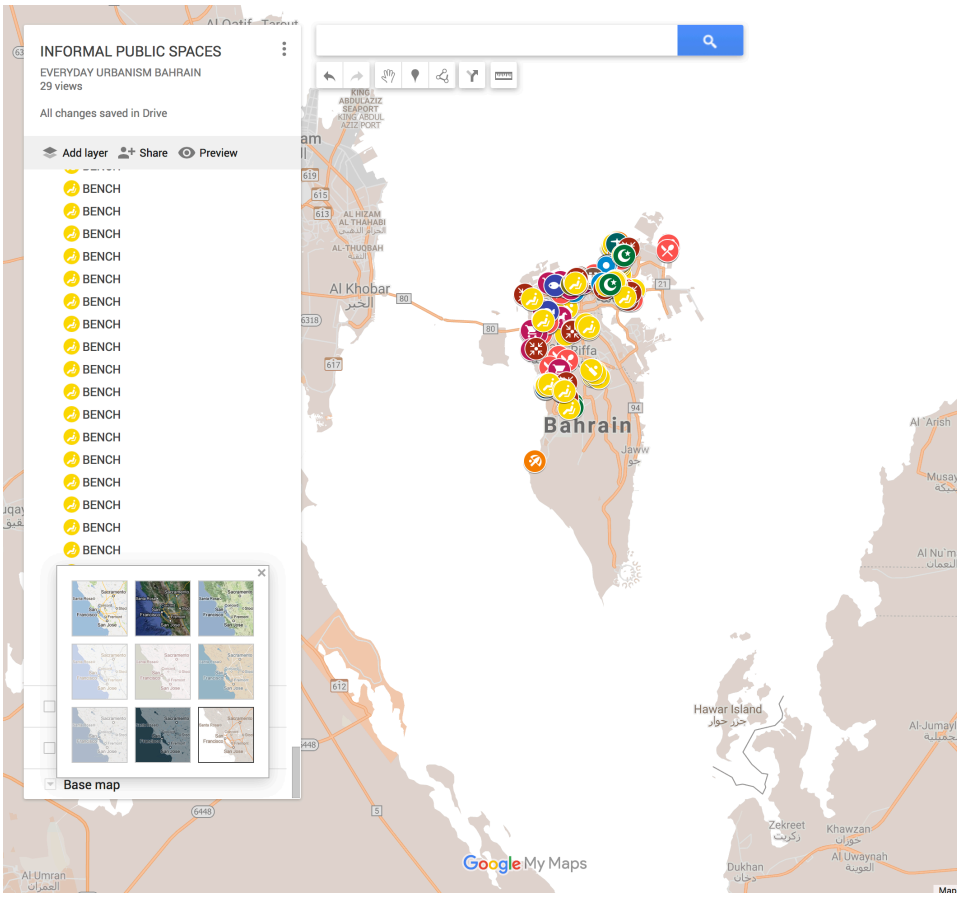
SHARE YOUR WORLD

Need a way to show your friends around town? Make a map of your favorite places and become a virtual tour guide. You can even collaborate and make great maps together.

ALL YOUR MAPS WHERE YOU NEED THEM

Start making a map on the web and keep editing it in the app - or make a new map on the go.




INFORMAL PUBLIC SPACES
EVERYDAY URBANISM BAHRAIN
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All changes saved in Drive
Add layer
Share
Preview
BENCH
Base map
Bahrain
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Riffa
Hawar Island
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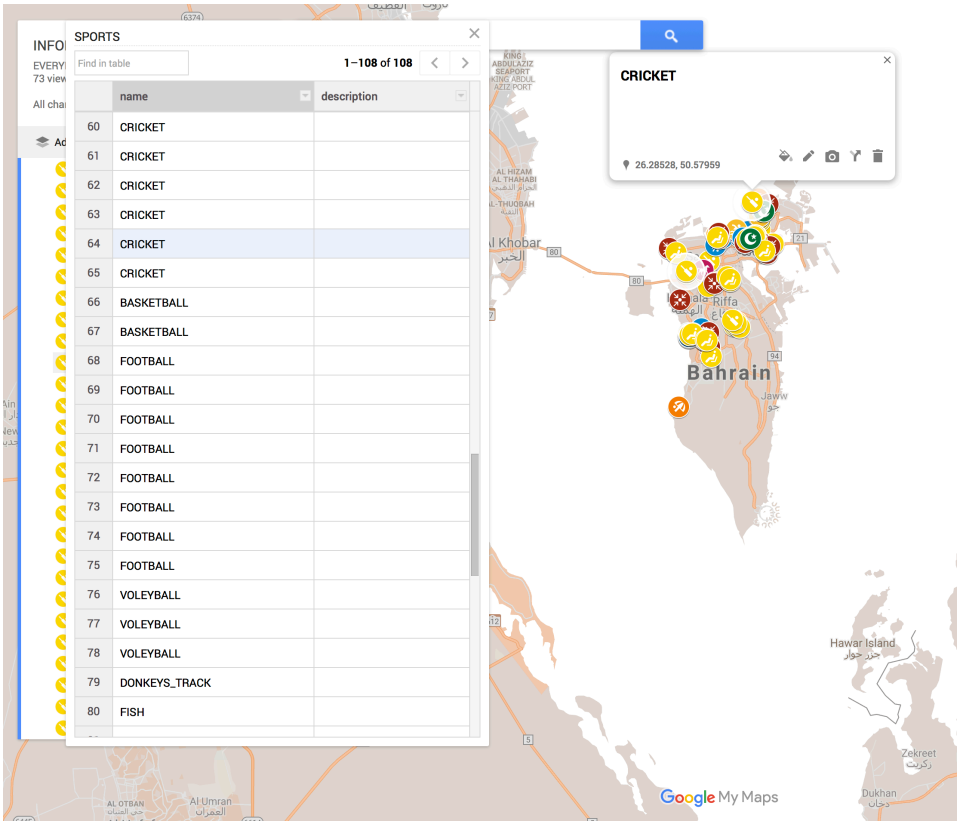
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