Business Case 3 – Demonstrator

Completed process of rehabilitation
Historical house in Porto Center

Palace of Count Bolhão
Presented by Alfredo Soeiro, U. Porto

International Project Week
Seinajoki  14 February 2012
Main Objective:

Present the procedures that can be taken on the H-Know project to develop the rehabilitation of a historic building in Porto for the headquarters of Vortal SA, demonstrating all phases of the procedure from the competition, the contract, the relationship with subcontractors and specialists and technical support for educational institutions and development.

Project: The Palace of Count Bolhão

The Palace of Count Bolhão, classified by the IGESPAR, is considered one of the most remarkable buildings of the nineteenth century civil architecture of Porto.

The purpose of this project is the completion of the work of recovery and redevelopment of the Palace of Count Bolhão in Vortal headquarters, respecting the historical character and special architectural of the space.

Used in this work are traditional construction techniques in conjunction with the most modern methods of recovery and intervention applied in heritage buildings.

Will be involved in this work several Portuguese and foreign experts in various aspects.
IMAGES OF THE BUILDING
Participants and Roles

**Vortal**, Comércio Electrónico Consultadoria e Multimédia, S.A. is a very important company in the Information and Communication Technology and is **owner of the contract**.

**FEUP** - Faculty of Engineer from Porto University is the responsible for the verification of standards and quality.

**INESC Porto** - Instituto de Engenharia de Sistemas e Computadores do Porto is a research and technological development that will be responsible for the treatment of the information.

**José Gigante**, Architect, Professor in FAUP (Faculty of Architecture, University of Porto) is the architectural design.

**SIKA** - Manufacturer of speciality chemicals for construction.

**3M2P**, Construção e Reabilitação de Edifícios, Lda, company with expertise in rehabilitation of buildings who have been awarded this contract – **Main Contractor**.

**STB** - Sociedade Técnica de Tratamento de Aços e Betões, Lda. is a Portuguese partner that is responsible for defects analyses and treating specific construction pathologies.

**TEICOS** Costruzioni s.r.l. is an Italian company that is subcontract for the application of specific old buildings tecnhics restoration.

**Teusa** - Tecpropasa Euskadi S. A. is a Spanish company that is subcontract for the application of specific old buildings tecnhics restoration.

**Teitje** - is a German company that will be responsible for the application of the new processes and materials for energy-efficient restoration.

**Andre Cottenceau** is a French company that will be responsible for the stone works.
The implementation of this objective will be achieved through the following phases:

- **Phase 1** - Vortal launches a business opportunity through a collaborative space and invite companies to be featured.

- **Phase 2**. From the acknowledgement of the existence of a business opportunity to the proposal phase

- **Phase 3**. The work is delivered to 3M2P and passes to a collaborative space where execution simulates the various stages of the contract.

- **Phase 4**. Follow-up.

- **Phase 5**. Registration and distribution of information.
Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.

José Gigante, places in the collaborative space all the drawings and specifications for completion of the project.
Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.

Is created a Forum to give clarifications to the submission of proposals
Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.

Vortal places on the platform the planning for the proposal phase.
Phase 2 - From the acknowledgement of the existence of a business opportunity to the proposal phase

- Search and selection of VortalRehab Headquarters collaborative space
- Permission to join the collaborative space
- Creation of a new collaborative space by cloning
- Content management and selection regarding STB specific needs
- New members were invited to join STB collaborite space in order to give some technical support in particular issues (STB staff, usual suppliers,...)
- Technical / commercial discussion using H-KNOW forum and meeting tools
- Proposal sending by e-mail or using H-KNOW meeting tool
Phase 2 - From the acknowledgement of the existence of a business opportunity to the proposal phase

Technical discussion using collaborative space forum.
Phase 3. The work is delivered to 3M2P and passes to a collaborative space where execution simulates the various stages of the contract.

3M2P open a new collaborative space to develop the construction phase. These new collaborative space is a clone from the one that has been created by Vortal initially to accommodate the documents in the tender phase. In this way there is no need to reenter all documents.
Now is time to invite all partners and subcontactors to join the collaborative space.

Send invitation

Email addresses or usernames:
- bpuca@3m2p.pt - Engineer
- csilva@3m2p.pt - logistic
- jfonseca@3m2p.pt - woodwork
- eveloso@3m2p.pt - equipment

Enter up to 10 email addresses or usernames. Separate multiple addresses by commas or new lines. Each person will receive an invitation message from you.

Personal message:

It was awarded to our company carrying out the work of rehabilitation of the palace of Count Bolhão.
All information design and implementation has already been introduced on the platform.
Will briefly marking a coordination meeting.

Optional. Enter a message which will become part of the invitation email.

Send invitation
Send invitation

Email addresses or usernames:

Ventimola GmbH & Co. Dämmtechnik KG (t.feischen@ventimola.de)
Teusa S.A. (lizarraoa@teusa.com)
TEICOS Costruzioni s.r.l. (g.hugony@teicosgroup.com)
SARL (cottenceau-tailledespierres@wanadoo.fr)
STIB Sociedade Técnica de Tratamento de Açoes e Betões, Lda. (jgraca@stb.pt)

Optional. Enter a message which will become part of the invitation email.

Send invitation
Is create several discussion forums to interchange with various partners.
TEL APPLICATION

➢ Guide for using TEL

➢ WiHKi

➢ Modular case

➢ Innovation material or technique

➢ Complete case
TEL APPLICATION

- Modular

- Helifix system for masonry

- Five modules (system description, documentation, techniques, specifications and case studies)

- Registration, calendar, learning objectives, tutor, documents, links
Masonry Repair using HELIFIX systems

PRESENTATION

This training module is an introduction to HELIFIX masonry reinforcement systems.

Abstract:
This course gives a comprehensive knowledge of common masonry defects and problems where Helifix repair techniques can be used to solve and repair.

Course Details:

- Explain principles of damage investigation, of cause diagnosis and design of repair scheme.
- Not intended to transform contractors into surveyors or engineers.
- In conjunction with approved Helifix installers the objective is to become the first support for clients with masonry problems.
- Providing technically sound, cost-effective solutions to the problems of masonry failure.
- Be aware about causes of the damage and that theses have been correctly diagnosed.

Course plan is composed by five modules:

**MODULE 1. Helifix & Forms of Construction**
**MODULE 2. Masonry Structural Assessment**
**MODULE 3. Principles of the Helifix System**
**MODULE 4. Helifix Repair Techniques**
**MODULE 5. Helifix Project Form & Repair Procedures**

Participation and Communication
Phase 5. Registration and distribution of information.

Advantages in the organization through collaborative spaces.
H-KNOW BC3
RELATED COLPLACES
CLONING COLPLACES

• defining relationships between colPlaces
• quickly creation of a related colPlace by cloning an existing one and customising it
BC3 partners can decide which content created in the collaborative spaces can be shared with the community.

<table>
<thead>
<tr>
<th>Content</th>
<th>Permission</th>
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</thead>
<tbody>
<tr>
<td>Blog</td>
<td>Private</td>
</tr>
<tr>
<td>Page 1</td>
<td>Private</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Document 4</td>
<td>Public</td>
</tr>
</tbody>
</table>
With the selective permission management of the colSpaces content it is possible to collect, organise and present dynamically the information and knowledge shared in all the collaborative places of the platform.
H-KNOW BC3

h-know business community

Content collection, organising, presentation

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Call for tenders

colspace

VortalRehab
HeadQuarters
Contract Execution