A cross-country analysis of the demand for ‘art house’ vs. ‘mainstream’ cinema films

Fernando Governo

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Supervisor: Aurora A.C. Teixeira
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Abstract

Existing studies on the motion picture industry tend to explore demand for cinema films focusing only on a single country, aiming to assess the probability of a movie’s success. This means that the determinants of consumer demand, from a cross-country perspective, are relatively unknown. The international film industry, however, may be seen as offering two heterogeneous products falling into two experiential ranges, according to their artistic content, and to the intensity of their special effects. This research examines the extent to which the demand for the two given types of films, namely mainstream and art house films, are associated with individual factors (e.g., experiential motivation, consumption patterns), industrial factors (e.g., distribution concentration, marketing expenditure), and cultural-social-structural factors (e.g., education, development and technological level).

The present work contributes to the extant literature by introducing a perspective that has been relatively neglected, namely that of approaching the matter based on a cross-country, quantitative, and multivariate analysis. More specifically, a sample of thirty OECD countries serves to assess the determinants of the demand for art house versus mainstream films, based on logistic regressions (i.e., the relative demand for art house films). Estimation results indicate that cinema tastes diverge into different patterns, meaning that some countries are more exclusive in their attitudes toward entertainment films, while others look at films as art work. It was also found that larger marketing investments are a key determinant for the consumption of art house films, and that technological level/sophistication plays a significant role in creating stratified consumption.

Such findings suggest that if we want larger audiences for art house films, it is important to introduce state policies promoting the acceleration of screen digitization (which reflects technological sophistication) to ensure that there is more exhibition space for art house films. Also, filmmakers have to forge new links with the audience based on storytelling, enabling them to reach beyond the basic definitions of world cinema, art house or foreign language films as blanket genres. Filmmakers, producers and marketers should invest in marketing in order to have an understanding of the different film audiences, discover how to engage them, and how to position the film appropriately, by setting expectations in relation to its genre, style and aesthetics. It is important to connect “the right movie” to “the right moviegoer”.

Keywords: demand; films; marketing
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## Abbreviations

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<tr>
<td>ANICA</td>
<td>Associazione Nazionale Industrie Cinematografiche Audiovisive – Multimediali</td>
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<td>ARC</td>
<td>Australian Report Card</td>
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<tr>
<td>CNC</td>
<td>Centre National du Cinéma et de l’Image Animée</td>
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<tr>
<td>EAO</td>
<td>European Audiovisual Observatory</td>
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<td>ECO</td>
<td>European Cluster Observatory</td>
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<td>EIREIN</td>
<td>Motion Picture Producers Association of Japan</td>
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<td>ICA</td>
<td>Cinema and Audiovisual Institute</td>
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<td>ICAA</td>
<td>Instituto de la Cinematografía y de las Artes Audiovisuales</td>
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<td>IMBD</td>
<td>Internet Movie Database</td>
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<td>ISCED</td>
<td>International Standard Classification of Education</td>
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<td>JEEC</td>
<td>Japanese Establishment and Enterprise Census</td>
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<td>KOFIC</td>
<td>Korean Film Council</td>
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<td>KOSIS</td>
<td>Korean Statistical Information Service</td>
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<td>MPAA</td>
<td>Motion Picture of America</td>
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<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
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<tr>
<td>P&amp;A</td>
<td>Prints and Advertisement</td>
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<tr>
<td>UK</td>
<td>United Kingdom</td>
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<tr>
<td>UNESCO</td>
<td>United Nations Educational, Scientific and Cultural Organization</td>
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<td>U.S.</td>
<td>United States</td>
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<td>WIPO</td>
<td>World Intellectual Property Organization</td>
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Introduction

Cinema films are appealing to members of our culture partly by virtue of their ability to offer something to everybody or, at least, to provide different sorts of value to two very different kinds of target viewers (Holbrook and Addis, 2008). Some people consume films as part of their appreciation for the art, while others relish the big-budget, mass-marketed productions that thrill them on the big screen and send them from the movie theatre with the desire to recommend an exciting cinematic experience to others (Holbrook and Addis, 2008).

The international film industry may be seen as offering products of heterogeneous quality falling broadly into these two experiential ranges, according to their artistic content (‘art house’ films) and to the intensity of special effects (‘mainstream’ films) (Bagella and Bechetti, 1999). Typically, definitions tend to refer to the degree of ‘artistic’ versus ‘commercial’ quality (Bagella and Bechetti, 1999; Baumann, 2002), and according to several authors (e.g., Austin, 1989; Wallace et al., 1993; Holbrook, 1999; Jansen, 2002), it may be reasonable to assume that most studio-produced American films aspire to the sort of mass or mainstream appeal associated with commercial success, whereas domestic films (other than American) cater more to art house crowds or to other specialized audiences.

Understanding the determinants of the consumers’ demand for cinema films has been the object of research by many scholars in various domains (Lazersfeld, 1947; Smith and Smith, 1986; Eliashberg and Sawhney, 1994; De Vany and Walls, 1999; Baumann, 2001). Researchers on consumer behaviour (e.g., Eliashberg and Sawhney, 1994; Zufryden, 1996; Eliashberg et al., 2000), interested in the experiential aspect, attempted to understand what drives movie consumption, that is, the reasons for selecting films. Using data information, these authors developed a conceptual framework to predict aspects of movie enjoyment and market performance. Economic-related studies (e.g., Prag and Casavant, 1994; Litman and Ahn, 1998; Ravid, 1999) aggregated industry data in order to understand the influence of the films’ various attributes on their financial performance. Broadly speaking, these studies suggest a positive relation between the films’ performance and their budget, reviews and star-drawing power. In the same industry-related line, other studies (e.g., Dodds and Holbrook, 1988; Eliashberg and Shugan, 1997; De Vanny and Walls, 1999; Holbrook, 1999) include exclusively box office data to assess the power of the actors, filmmakers, critics and awards achieved in the choice of a certain type of movie. Based on...
the work of Bourdieu (1989), López-Sintas and García-Alvarez (2006) concluded that the consumption of audiovisual products is determined by a number of structural factors. Thus, the field of cultural demand, in which film consumption takes place, can be viewed through its internal structures, for which Bourdieu (1989) conceptualized a ‘habitus’ with patterns of consumption that individuals develop over time. Bourdieu (1984) claims that culture serves as an indicator of class structure internalized in people, determining cultural choices (taste) that reproduce the class structure itself, a theory which finds supported in a number of media reception studies to understand film consumption. Staiger (2005) illustrates how taste has been formed within the context of political science, as well as linguistic, social and psychological contexts, and in so doing, she distinguishes between high and low forms of culture. Social scientists have assumed that structural factors, in the broader sense, determine lifestyle behaviour (Katz-Gerro, 1999). The concept of lifestyle behaviour denotes individuality of taste and a distinctive choice of activities associated with specific groups. Common lifestyle indicators include cultural consumption, and cultural tastes related to music, reading and films (Rojek, 1985; Featherstone, 1991; DiMaggio, 1994).

A majority of the existing studies on the demand for motion pictures focus on single-country, longitudinal analyses (e.g., Bagella and Becchetti, 1999; Collins and Hand, 2005; Thurau et al., 2006), aimed at assessing the probability of a movie’s success. Therefore, viewing the demand for a given country’s cinema production as a cultural (taste) marker is challenging yet feasible, based on the type of film people like and choose (DiMaggio, 1987). Given the extent to which cultural standards underlying such tastes may diverge across countries, we hypothesize that countries with higher cultural standards tend to demand relatively more art house films in comparison to mainstream films.

Our study aims to assess which are the most important determinants of the demand for ‘art house’ versus ‘mainstream’ films from a cross-country perspective. In other words, we intend to assess which factors – ‘Individual’ (consumption patterns/experiential motivation), ‘Industrial’ (films produced, average production budget, number of screens, share of creative employment), and ‘Cultural-social-structural’ (population, income, level of education, field of graduation) – are most relevant in explaining cross-country choices of movie types.

The study presented in this dissertation is, to the best of our knowledge, the first attempt to carry out an international empirical comparison of demand patterns regarding art house
films versus mainstream movies. It is therefore a contribution to determine the extent to which cinema consumption reproduces the countries’ social structure in terms of high or low forms of culture. Moreover, it is important to underline that consumer research and marketing literature have paid little attention to the consumption of movies as artistic products (Wohlfeil and Whelan, 2008). An understanding of the demand for cinema at the international level may be considered relevant in developing marketing strategies aimed at targeting new audiences for less mainstream films.

The study is structured as follows. The first chapter provides a review of the literature on the determinants of the demand for given types of cinema films. The methodological considerations are detailed in Chapter 2, and Chapter 3 puts forward the results of our empirical analysis encompassing a cross-country sample. Finally, we address the main conclusions and highlight some of the limitations to our study, as well as the contributions our methodology brings to the literature.
Chapter 1. Determinants of the demand for cinema films. A review of the literature

1.1. Initial considerations

Our research aims to assess which are the most important determinants of the demand for a given type of cinema films, namely ‘mainstream’ versus ‘art house’ films; in other words, to determine, across countries, which factors are most relevant in explaining this choice, such as, individual (consumption patterns/experiential motivation); industry (production, distribution and marketing); and cultural-social-structural (social/cultural context, education, population dimension, per capita income, share of creative employment).

We argue that further studies are needed to understand differences in the demand and consumption of motion pictures. Our aim is therefore to understand whether cultural-social-structural factors or the “habitus”, such as level of education, field of graduation, employment area, etc., are important in the consumption of high-budget versus low-budget films, proxying, respectively, ‘mainstream’ and ‘art house’ films.

Section 1.2 puts forward a categorization of mainstream and art house films, followed by a review the literature in Section 1.3, focusing on the factors that (potentially) explain the demand for given types of movies.

1.2. ‘Mainstream’ versus ‘art house’ films

1.2.1. Conceptualizing the distinction between ‘mainstream’ versus ‘art house’ films

Artistically speaking, the ‘seventh art’ has become a feature of everyday life and the trigger of a cultural revolution worldwide. Meanwhile cinema, in its progress from silent films to talking pictures, from black and white to colour, and from negative to digital, has become an industry in its own right. But how do people see films? Mainly as ‘art’ or as ‘entertainment’?

This distinction is crucial to the present research since we aim to understand the determinants of the demand for a certain type of cinema film (‘mainstream’ versus ‘art house’ films) across countries.

The first audiences to embrace films enthusiastically were the working classes in urban centres, and then working classes in more rural areas (Cherneff, 1991). Since the early
narrative movies ran for approximately twenty minutes, it was originally entertainment for people who could not afford the tickets or the time to attend live theatre, concert, and vaudeville\(^1\) performances (Cherneff, 1991). The popularity of moving pictures spread rapidly, though, soon reaching the middle classes as well as the working classes, and movies were on their way to becoming, as Powdermaker (1950: 39) stated, the “first popular art form to become a big business with mass production and mass distribution.”

As television grew in popularity among middle- and low-income households (Boddy, 1998) and film declined in popularity, cinema audiences became less heavily working class. Sklar (1994) noted that in the late 1940s, the studios first became aware that educational attainment was positively correlated with cinema attendance, and the audiences of the 1960s, which included large numbers of college students who were “primed for artistic rebellion”, became known as the “film generation”. The broadening of education in the general population provided a larger audience for motion pictures as an art form, as more moviegoers paid greater attention to new reviews, attended newly founded festivals, and enrolled in the emerging field of film studies at universities (Baumann, 2001). It is today widely acknowledged that films can be appreciated and evaluated as a serious artistic endeavour and that filmmakers can be regarded as full-fledged artists (e.g., Quart and Auster 1984; Bordwell and Thompson, 1986; Sultanik, 1986; Basinger, 1994).

Indeed, cinema is an art because it offers filmmakers ways to design experiences for viewers, and those experiences can be valuable regardless of their “pedigree” (Bordwell, 2006). Films for audiences both small and large belong to that all-inclusive art we call cinema. Sometimes, too, people regard film as an art in opposition to film as a business. This split is related to the issue of entertainment, since entertainment generally is sold to a mass audience (Bordwell, 2006).

To explain the difference between art house and mainstream films in terms of the audience they are targeting, a distinction can be made between ‘commercial’ and ‘artistic’ qualities (Bagella and Bachetti, 1999; Baumann, 2001). Commercial qualities can be understood as trying to capture the attention of the masses, so as to maximize profits (DiMaggio, 1987). Pommerehne and Frey (1990) argued that in discussions of art and culture, films produced for the market are often pooh-poohed as “commercial” and poor taste is allegedly

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\(^1\) Vaudeville houses were mostly frequented by the middle classes, where admission costs and the length of the shows made them inaccessible to the working classes (Sklar, 1994). The working classes attended Nickelodeons, including immigrants who, although not able to speak English yet, could still enjoy silent movies (Powdermaker, 1950).
unavoidable with this form of supply. Therefore, as one of the most powerful and dynamic institutions of mass culture, the mainstream film industry strongly affects social values and culture itself (Cherneff, 1991). It is in this line of thought that, according to Holbrook (1999), many cultural commentators have posited the existence of a cultural hierarchy that extends between two poles – art/entertainment, high culture/low culture. They accordingly asserted that the commercialism associated with a market-driven economy tends to drag the aesthetic and intellectual level of the arts and entertainment down to the lower end of the cultural hierarchy, based on the assumption that popular appeal is negatively correlated with artistic integrity. Thus, in an effort to achieve greater market success, producers tend to target the lowest common denominator of mass acceptance, thereby degrading cultural products by catering to the relatively uncultivated taste of ordinary consumers. In this line of reasoning, the most significant tension is that which exists between producing movies for profit and for art (Cherneff, 1991).

We cannot, however, understand films as part of our culture unless we understand the social-psychological milieu in which they are made (Powdermaker, 1966). Mainstream motion pictures are a reflection of the values underlying the production process, which are then imposed on the viewers. Movies are a form of storytelling, and decisions about which stories are brought to the screen are influenced by those with decision-making power in the cinema industry, not the storytellers; i.e., the business entrepreneurs who run the industry seeking profit (Powdermaker, 1950; DiMaggio, 1987). Powdermaker's (1950: 3) basic premise that “the social system in which movies are made significantly influences their content and meaning”, assumed that a particular system of production and its attending values structure the popular art (Cherneff, 1991). In this profit-oriented industry, studios and executives are deeply involved in film production (Baumann, 2001), money is the most highly valued commodity (Powdermaker, 1950) and, like any business, mainstream big-screen movies exist to make money (Squire, 2004).

Therefore, the mainstream film is a high-budget product where a large contribution to productivity is given by physical infrastructures and technical machinery, and where the role of the plot (and then of the director’s skills) tends to be almost irrelevant (Bachella and Bechetti, 1999). Other definitions to distinguish mainstream from other types of films focus on their content, genre or narrative structure. As Bordwell (1979: 58) noted “… mainstream films use a clear narrative form to organize the film in a series of (...) causally related events taking place in space and time, with every scene driving towards a goal. The
plot for mainstream movies is driven by a well-defined protagonist, fleshed out with clear characters, and strengthened with (...) question-and-answer logic, problem-solving routines, (and) deadline plot structures.”

The film is then tied together with fast-paced soundtracks to cue the appropriate audience emotions, and tight, seamless editing. Mainstream films tend to use a narrow range of familiar, generic images, plots, verbal expressions, and archetypal “stock” characters, and are, therefore, not challenging or difficult – they are designed to appeal to a wide audience and easy to enjoy (Baumann, 2001). As stated earlier, it is reasonable assume that most American studio films aspire to the standing associated with commercial success (Holbrook, 1999).

In opposition to mainstream, ‘art house’ films are, in general, a low-budget, relatively more labour-intensive product in which the idea of the director (artistic merit) is the crucial productive factor (Bagella and Bachetti, 1999; Baumann, 2001). Art house films are not meant for the masses, but aimed at a specific public (Bordwell, 1979). Other differences are content, genre or narrative structure; the narrative in art house films is usually driven by two principles: realism and authorial expressivity (Bordwell, 1979). Art films deviate from the “classical” mainstream, norms of filmmaking in that they typically deal with more episodic narrative structures with a “...loosening of the chain of cause and effect” (Bordwell, 1979: 59). Additionally, art films often deal with an inner drama that takes place in a character’s psyche, such as psychological issues related with individual identity, transgressive sexual or social issues, moral dilemmas, or personal crises. Art films require effort to be appreciated and cannot be enjoyed on a superficial level (Canaday, 1980), thus, they “are aimed at a high culture audience” (Wilinsky, 2001: 14), wanting for more adult, intelligent films than those produced by the mainstream (Wilinsky, 2001). The fact that art house films are targeting specific audiences has led researchers to try to determine whether they have certain characteristics. Austin (1984), for example, found that: they are highly educated; they are more likely than other film audience samples to report movie-going as their favourite leisure activity; they are frequent moviegoers; 30% attended alone the last time they went; they are interested in learning about the films they see; and they perceive art house films as a unique alternative to commercial cinema. As stated by Baumann (2001: 421), “foreign films (non-American) are often set above the rest … [and may have] substantiated film’s artistic claims”. Indeed, non-American films such as Seven Samurais/Shichinin no Samurai (Japan, 1954); Breathless/À bout de souffle (France, 1960);
Rome Open City/Roma città aperta (Italy, 1945); The Cabinet of Dr. Caligary/Das Cabinet des Dr. Caligary (Germany, 1919); Beauty and the Beast/La Belle et la Bête (France, 1946); and Ashes of Times/Dongxie Xidu (Hong Kong, 1994), etc., have all been labelled art films (Cook, 2007).

The 1940s marked a key transition period for international art cinema, when Italian neo-realist films shot against the backdrop of World War II and its aftermath emerged. Restricted filming conditions provided a context that sustained the development of a distinctive style dominated by a “realistic” aesthetic that relied on location shootings, documentary-style, hand-held camera work and non-professional actors, and the abovementioned loosening of cause-and-effect narrative in favour of more episodic forms (Cook, 2007). It was the international success of Rome Open City in particular that signalled a shift in exhibition practices and paved the way for a niche market for international art cinema that grew in strength throughout the 1950s and 1960s. Paralleling the post-war success of the art film, André Bazin (co-founder of the French film journal Cahiers du cinéma in 1951) initiated a wave of film criticism that further institutionalized the phenomenon of international art cinema and helped to develop the politique des auteurs² (Cook 2007). Neale (2002), for example, has located art cinema historically as a specifically European strategy aimed at countering “American domination”, whereas others like Bordwell (1985) do not perceive art cinema as a strictly European phenomenon. Films such as Rashomon (Japan, 1950), Tokyo Story/Tokio Monogatary (Japan, 1953), are also viewed as examples of art house cinema (Cook, 2007).

Notwithstanding this national diversity, art house films share a common trait: in form and practice, they are often defined against the mainstream, particularly Hollywood and its standardized system of production. One of the myths about art cinema is that while Hollywood is primarily concerned with profit and “empty” entertainment, art films are free from commercial constraints and encourage creativity and intellectual engagement with deeper meaning. Thus, it is plausible to assume that the producers/directors will pursue objectives other than grossing at the box office (Jansen, 2002), and that their cultural commitments may lead them to sacrifice financial prudence to their personal preferences for film quality (Jansen, 2002).

² The Cahiers critics asserted that a true auteur was a filmmaker who used his/her unique style to transcend the oppressive industrial practices imposed by mainstream film studios. Many of the Cahiers group became filmmakers themselves; as the Nouvelle Vague, they created a new auteur-driven art cinema that offered modes of narration in opposition to classical cinema films.
In short, intellectual interest in film strengthened as art house cinemas sprang up to meet the demands of a public keen on experiencing alternatives to mainstream Hollywood cinema. These cinemas not only helped to institutionalize “the concept of foreign art film” and promote “the artistic concerns of the film culture” but were also integral in fostering emerging tastes and hierarchies that catered to a cultural and intellectual elite (Baumman, 2001; Wilinsky, 2001; Guzman, 2005). Nowadays domestic films (other than American) have a long tradition of cinema as a highbrow form rather than mass entertainment as they cater more to art house crowds or specialized audiences (Holbrook, 1999, Baumann, 2001, Wilinsky, 2001; Jansen, 2002). In effect, art house cinema is a niche within the international market whose major selling point is its status as “art” underwritten by the figure of the director (Cook, 2007).

Despite the need in any research to place boundaries, it is important to highlight that many films are not clustered around these two extremes. First, foreign art films that may appear marginal to international audiences, can often be perceived as mainstream by domestic audiences in their own countries. Second, there are low-budget films with low artistic content, and films in which directors combine high-capital intensity with relevant artistic content. Moreover, this study does not assume that film art precludes entertainment since the opposite position is not postulated either, that only mass-market Hollywood movies are worth our attention.

### 1.2.2. Establishing the distinction between ‘mainstream’ and ‘art house’ films

The distinction between the spheres of restricted and large cultural production is of particular importance to the motion picture industry (Anheier et al, 1995). Both fields differ in the extent to which economic and non-economic capital forms are dominant.

The field of restricted production is relatively autonomous from market considerations. Economic success is secondary to symbolic value, and artists compete for cultural capital in the form of recognition, reputation, and legitimacy rather than monetary rewards. In contrast, the field of large-scale cultural production is characterized by the predominance

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3 For example, the French have positioned cinema as an art form and the government, through the CNC (www.CNC.fr), administers and sustains it in extraordinary ways. For a producer, this means that private business figures are made public, including how many prints of a film were released; its dubbing costs; marketing expenditure; tickets sold; the split of revenues with cinemas. (Try getting that information from a single service anywhere else on the planet).

4 The French still care about directors more passionately than stars and a decision to see a film will usually be made more on the director’s name and review than the cast (Squire, 2004).
of economic considerations and market success. In the large-scale case, artists compete as producers in a market which seeks financial returns first and foremost (Bourdieu, 1992).

Based on this reasoning, the social topography of the cinema cultural field appears bipartite (Bourdieu, 1992). The two segments, however, seem largely unrelated: the art house film industry differs fundamentally from the U.S. film industry in that it generally serves a small domestic market, which does not allow film producers to survive economically.

Films in many countries are heavily subsidized through several organizations or programmes (e.g., tax funds or regulation by quotas) (Jansen, 2002). This type of funding scheme tends to support films that are unlikely to satisfy demand, where production companies have no motivation to perform in an entrepreneurial manner and ignore market needs (Jansen, 2002). The subsidies provide some degree of insurance to producers, which means that decisions on which film to make are influenced by non-market factors.

In summary, film producers are not organized in structures that could serve as an equivalent to the successful American “studio” system (Henning and Alpar, 2005). Thereby, it is reasonable to assume that producers will pursue objectives other than gross income at the box office, such as artistic reputation or promoting the country’s culture (Jansen, 2002). In fact, the problem facing many countries’ film industries is a combination of a lack of business acumen, the reluctance of many to watch non-Hollywood productions, and structural shortcomings (Kerrigan and Ozbilgin, 2003); many of the basic structures in place outside the Hollywood industry are disjointed and fail to provide the level of support, market information and access necessary for films to perform well commercially (Kerrigan, 2010).

For the film industry in general, and mainstream film particular, financial performance is clearly the name of the game (Vogel, 1990). Indeed, as noted by Donahue (1987: 283), “… it soon becomes very apparent that if one wants to create cinema films in ‘Hollywood’, one needs to understand and accept the fact that filmmaking is a business”. From this business-oriented perspective, it follows that the production of Hollywood films aims at pleasing the

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5 Before the politique des auteurs emerged in France in the 1950s, traditional film criticism (largely sociological) assumed that the industrial nature of film production prevented a single authorial voice from making itself heard (or seen) in film. For some critics, this meant that cinema could not be regarded as art: as a commodity product at the service of laws of the capitalist economy, it could do no more than reflect the ideology of the capitalist system. For others, cinema only achieved the status of art when a film or body of films could be seen as the expression of certain intentions carried out by an individual person, regarded as an artist by virtue of his or her struggle against the industrial system of production (Cook, 2007).

The U.S. motion picture industry is a multi-billion dollar business. Spending on cinema tickets alone was over $9 billion in the U.S. (and Canada) and around $17 billion outside the U.S. in 2007. The Hollywood film industry is among the most powerful and dynamic institutions of this mass culture, meaning that the industry is a thriving collaboration among artists, financiers and the audience (Squire, 2004). The motion picture industry employs over half a million people in the U.S. (Eliashberg et al., 2006), with flexible organizational and managerial techniques of production and access to finance, and has one of the highest shares/proportions of creative employment, among all the countries studied, which allows them to produce a globally attractive product. Motion pictures are also currently the number one export market for the U.S. (Eliashberg et al., 2006).

From the considerations put forward above, it is clear that this industry has high economic importance in the global economy. When profits rely on attracting as many people as possible (Wilinsky, 2001), questions arise as to whether it can afford to remain an alternative, or whether it needs to become part of the mainstream in order to maximize profits.

The development of a motion picture is a long succession of creative decisions with far-reaching economic implications for the different players involved and a fundamental task of a producer is to make the project as risk-averse as possible (Squire, 2004). Film producers are working within structures of power that are tied to commercial interests (Abu-Lughod, 1999; Powdermaker, 1950) and sell art for profit (DiMaggio, 1987), with the aid of advertising and market channels (DiMaggio, 1987). In other words, the mainstream industry produces films as commodities, subjecting them to the standardization and homogenization of mass production (Garthman, 1991), thus channelling the mass appeal that seems to gravitate more toward films that are accessible by virtue of their great realism in representing familiar settings and easy to assimilate (Holbrook, 1999).

Mainstream films belong to the field of large cultural production with high-budget products that are considered an important demand and quality predictor (Basuroy et al., 2003). Large budgets are expected to show a striking yet positive correlation with film success (Prag and Casavant, 1994) because they translate into lavish sets and costumes,

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expensive digital manipulations, and special effects that lead to heightened attractiveness for film viewers (Basuroy et al., 2003).

Often this huge disparity reflects on quality (Hennig and Alpar, 2005). Non-American films generally lack elaborate special effects, expensively built sets and extras – in other words, the visual richness of American films (Henning and Alpar, 2005). Even domestic films reflecting the cultural particularities of a country can hardly compete with the multi-million-dollar American productions (Henning and Alpar, 2005).

Thus, we expect the budget of a film to have a positive effect on its performance. This assumption seems tenable since motion pictures with larger budgets tend to reach more viewers. The mainstream industry has resources to finance high-quality inputs for technical equipment and other “below the line” inputs, as well as buy creative “above the line” inputs such as actors (Prag and Casavant, 1994). In fact, there appears to be a positive relationship between cost and the presence of a “star” in the film (Basuroy et al., 2003). This is expected since major (stars) actors’ salaries raise the cost of production.

The mainstream star system is a business strategy to generate large audiences (Kindem, 1982) and whereas nearly everybody knows the names and faces of mainstream industry actors (e.g., Julia Roberts, Angelina Jolie, George Clooney or Brad Pitt), few people can actually name any domestic stars who draw an audience (Henning and Alpar, 2005). Very often consumers watch a movie simply because their favourite actor or actress stars in it, which is the only thing they really know (Levin et al., 1997; Schroeder, 2005). As such, the presence of popular actors in a film is likely to generate interest among their fans (Prag and Casavant, 1994).

Once a project has completed production, it is ready for the next stage – distribution. The major American studios control the worldwide distribution networks and have a prevailing foothold in the exhibition sector – they produce, finance, and distribute their own films (Eliashberg et al., 2006). By maintaining this control, they retain their hold over the worldwide film industry. The distribution sector is undoubtedly the most instrumental element in a film reaching its audience (Kerrigan, 2010).

Through vertically integrated companies, with a stake in worldwide production, distribution and exhibition, the American mainstream industry can exercise considerable power in selecting the content they choose to distribute and market (Henning and Alpar, 2005), overcoming uncertainty. As the exhibition sector is the most profitable element in
the supply chain, if this chain is fully integrated, this will reduce the desire of the exhibitors to take risks on challenging films, like art house films (Kerrigan, 2010). Given a possible reduction in their profit, exhibitors grant few such films access to the broader market (Zuckerman and Kim, 2003).

Because of the high production costs and uncertainty of success, it is the demand that adapts to the supply and not the other way around (Moreau and Peltier, 2004). Thus, demand for film could end up being stifled by standardized supply (Moreau and Peltier, 2004), which means that film consumption and choice are culturally bounded (Kerrigan, 2010).

Major distributors with high market power have a competitive advantage over other competitors in terms of securing and maintaining a larger number of screens, forcing cinema exhibitors to engage in a higher level of marketing for their films (Chang and Ki, 2008). Thus, it is reasonable to predict that films released on a greater number of screens should enjoy higher box office revenues. Several researchers (e.g., Eliashberg and Shugan, 1997; Litman and Kohl, 1989; Sochay, 1994; Elberse and Eliashberg, 2003) found that the number of screens was a significant predictor of box office success: the higher the number, the greater the chances at the outset that each film will be widely available and seen (Moreau and Peltier, 2004).

This suggests that the number of viewers of mainstream film should, on average, be higher than that of an art house film. The rationale behind this distinction is that a distributor’s range is linked to the film’s marketing costs, its potential market size and the presence of a major (star) actor. In opposition, independent distributors typically focus on niche markets with art house films featuring unknown actors, so release by independent distributors show on a low number of screens.

In summary, the average cost of film production and the top ten box office admissions can be used to predict the countries’ ‘preferences’ for production and demand of mainstream films or art house films.

1.3. Theoretical determinants of the demand for given cinema films

The level of uncertainty over any film’s success is well known. Many researchers (e.g., Albert, 1998; De Vanny and Walls, 1999; Ravid, 1999) developed empirical models relating a film’s attributes to the likelihood of consumer demand. Despite the difficult
endeavour it represents, knowing which factors and conditions affect the demand for cinema films is of great value for the international motion picture industry. In the following sections, we detail the determinants of the demand for films categorized into three factors – individual factors (consumption patterns/experiential motivation); industry-related factors (production and distribution and marketing); and cultural-social-structural factors (social/cultural context, education, population dimension, per capita income, share of creative employment). This categorization will support our modelling effort involving the cross-country analysis of the demand for ‘art house’ versus ‘mainstream’ films.

1.3.1. Individual factors: consumption patterns/experiential motivation

Cinema films are experiential goods (Cooper-Martin, 1991, 1992) that consumers engage in for fun, enjoyment and leisure (Holbrook and Hirschman, 1982; Eliashberg and Sawhney, 1994), which means that hedonic value (e.g., pleasure, thrill) is the main motive for the film experience, whereas utilitarian motives (e.g., killing time - Austin, 1989) play an ancillary role (Cooper-Martin, 1991; Holbrook and Hirschman, 1982). Thus, an active audience consumes films for goal-directed purposes (Katz et al., 1974).

This approach suggests that the consumer’s experiential “needs”, such as emotional arousal, result in motivations for film demand (Holbrook and Hirschman, 1982; Austin, 1989), and that consumption and needs are associated with perceptions concerning gratifications provided by the cinema (Lichetenstein and Rosenfeld, 1983).

Wozniacki (1977) reported that motives for cinema demand included entertainment and relaxation, learning and gaining new experiences, and a desire to admire art. O’Brien (1977) indicated that film demand served creative and self-fulfilling needs and met social and entertainment goals. Austin’s (1989) findings suggested that demand is positively associated with an enjoyable and pleasant activity, followed by relaxation, arousal/excitement and social activity, and that frequent cinema-goers reported a greater level of identification with these motives than occasional or infrequent ones.

For some people, motion pictures are more than just another form of entertainment through which one can spend some quality time alone or in the company of friends (Wohfeil and Whelan, 2008). For frequent cinema-goers or fans, fascination with movies meets pretty much Bloch’s (1986: 539) definition of product enthusiasm where the product (in this case cinema films) plays an important role and is a source of excitement and pleasure along sensory and aesthetic dimensions in a consumer’s life (Wohfeil and Whelan, 2008).
To sum up and as stated earlier, some consider films as part of their appreciation for the finer things in life, regarding film as art (Bourdieu, 1984; Baumman, 2001; Holbrook and Addis, 2005), while others relish big-budget movies that have been overtly designed to entertain and reflect the popular tastes of mass audiences (Holbrook and Addis, 2005). But ultimately, what really counts for the consumer is the enjoyment of film as a holistic experience in its entirety (Wohfeil and Whelan, 2008). Whatever the motivations, in the present dissertation, we assume that all cinema-goers are looking for quality (Holbrook, 1999) and satisfaction in the films they choose.

When dealing with products whose quality is difficult to ascertain prior to purchase, one may expect a greater reliance on attributes that help consumers in their selection process. Mass communication researchers emphasized the importance of a film’s genre as an attribute that influences cinema attendance (Austin and Gordon 1987), meaning that an individual’s preference for a given type of film may be used as a predictor of their enjoyment (Eliashberg and Sawhney, 1994). Since film type and content are not independent, the ultimate choice is based on the expectations raised by each alternative (mainstream versus art house film) to best gratify the individual’s needs (Lichetenstein and Rosenfeld, 1983). In this vein, the following question can be put forward: ‘Are the viewers in a given country more driven to see a film as entertainment or art?’

Elements such as the market share of U.S. and domestic films, the top ten box-office admissions and the per capita admissions may provide us with an overall picture of the individuals’ preferences in the demand for a given type of film.

H1: The higher the market share of U.S. films in terms of the top ten box-office admissions (or per capita admissions), the lower the demand for art house films across countries (i.e., the share of domestic films released in a given country).

1.3.2. Industry-related factors: production, distribution and marketing

Production quality

The market success of motion pictures can be expected to be influenced by the consumers’ assessment of a movie’s quality (Prag and Casavant, 1994). Quality, however, is difficult to ascertain prior to viewing, thus, audiences can interpret production budgets as signals of a movie’s high quality, i.e., professionalism of concept and execution.

Distribution concentration


Increased concentration leads to market power (Hergott, 2004) and, according to Chrzanowsky (1974), economic development has brought an extension of concentration to almost every field of economy, including film production and distribution. The word “concentration”, now used widely as “integration”, depends on various factors, such as the degree of concentration in the industry, the capital intensity of investment and the risk of losses (Chrzanowsky, 1974). The degree of concentration arises from high-capital intensity and motion pictures rely heavily on capital assets due to expensive special effects and digital production, strongly increasing salaries for actors and large marketing campaigns (Gupta et al., 2006).

U.S. film producers were the first to sink endogenous costs into large-scale marketing and distribution which meant that Hollywood became and has remained comparatively more efficient at serving mass markets (Bakker, 2005) than film clusters in other large film-producing countries. It was also Hollywood companies that went furthest in integrating production, marketing, distribution and exhibition into Chandlerian corporations (Hoskins et al., 1997). They were thus able to overcome liabilities of foreignness by participating in local distribution and locally adapted marketing campaigns in a high number of export markets, by dubbing films, and, in some export markets, creating cultural preferences for Hollywood-style aesthetics and narrative, as well as English-language films rather than other domestic/foreign films (Hoskins and Mirus, 1988; Hoskins et al., 1997; Papandrea, 1998; Elberse and Eliashberg, 2003). The film industry is prone to domination by major companies (Breton, 2000) which tend to control other industrial firms with the aim of integrating the entire value chain (Chrzanowsky, 1974). In practice, it is impossible to separate distribution and production revenues, because functions, not to mention accounting, are intertwined (Noam, 2009). Distribution is key to the film industry. For producers, it provides the only means by which their products reach an audience. For exhibitors, it means dealing with a more or less risky supply of films to screen (White Book, 1994), thus, financing is less problematic if producers are affiliated with a studio. It increases their chances of securing bank loans or tapping into the studio’s own capital, thus securing favourable distribution and exhibition (Eliashberg et al., 2006). Relationships between distributors and exhibitors change over time to reflect the considerable degree of mutual advantage that is to be gained by minimizing the risks that are intrinsic to the film industry (White Book, 1994).
Taking the above aspects into account and considering the weight of the market share of the most important distributors in each country, it is possible to assess the extent of concentration in the film industry.

H2: The higher the degree of market concentration, the lower the demand for art house (versus mainstream) films across countries.

**Marketing investments**

Generally speaking, an aspect that remains unchanged is the acceptance of the notion that value can only be created and acknowledged by the consumer in the act of consumption. It is in the act of consumption that value is recognized and embodied. Value can only be evaluated in terms of the consumption experience (Kerrigan, 2010), and even though information about a film is available (e.g. word-of-mouth, reviews, trailers) prior to purchase, the quality of movies can be assessed by consumers only when watching them (Hennig-Thurau et al., 2006), because it is hard to judge prior to viewing (Sawhney and Eliashberg, 1996).

While box-office figures respond to a variety of stimuli and wider publicity, we also need to understand the selection of a certain film over another. For experiential products, such as cinema films, consumers search for two types of information sources: experiential and non-experiential sources. Previews, television and internet advertisement are experiential sources: they provide a chance to try the film. Friends who have seen the film can describe it and are hence another experiential source. The same applies to reviews. Non-experiential sources such as printed and radio advertising, are less useful because they do not illustrate or mimic consumption (Cooper and Martin, 1991). Thus, experiential sources are particularly valuable to consumers for information on subjective features, those characteristics which reflect the personal nature of consumption, for example, what it is like to see or hear a film (Cooper and Martin, 1991).

Motion picture demand appears to be heavily influenced by the opinions and choices of others. “Others” could refer to friends and acquaintances, critics, and other opinion leaders, as well as the market as a whole (Eliashberg et al., 2006). That is why film marketers have pioneered “buzz marketing”, by giving opinion leaders free access to previews, with a view to stimulating positive word-of-mouth so as to sustain the film in the market. If a film does not succeed, it is usually forced out by a new product coming in behind it (Squire,
Film marketing professionals believe that word-of-mouth is central to the success or failure of a film (Kerrigan, 2010).

Marketing expenditure is itself determined by production cost, the presence of a star, and film genre (Prag and Casavant, 1994). This makes sense since, when a major actor is cast, filmmakers are likely counting on the star’s drawing power to attract cinema-goers. Informing people about the star’s presence in the film through advertising is one way to make use of that.

A similar argument could be made about expensive productions (Prag and Casavant, 1994), since they are more appealing and a demand predictor (Basuoy et al., 2003). Usually, motion pictures with higher production budgets also receive a high marketing budget (Eliashberg, 2006), in order to raise the consumers’ awareness of the film’s quality and to influence their attitude toward it (Hennig-Thurau et al., 2006). A movie’s heavy up-front investment and short life means that it has to be strongly promoted to capture audience interest prior to release, taking maximum advantage of the “buzz” surrounding its opening. Studies have established a link between marketing expenditure and box-office revenue (Prag and Casavant, 1994; Zufryden, 1996, 2000).

Film consumption is characterized by network externalities arising from phenomena of mimicry and social infectiousness. To reduce their uncertainty about the quality of films, most consumers tend to consume films they have heard about (from friends, press, publicity) or which achieve the most commercial success (Moreau and Peltier, 2004). In this line of reasoning, marketing expenditure associated with films may influence the demand for them.

In summary, film consumption seems to be heightened by investments in publicity and by the power of distributors resulting in a concentration of admissions to a limited number of films. We can conclude that a marketing strategy embodies a higher or lower level of marketing effort and can be measured by the size of its production budget and by the intensity of screen distribution – representing a film’s position as mainstream with a high budget and opening on numerous screens, as opposed to an art house film with a small budget and restricted opening on a few screens.

To assess this assumption we analyze the weight of marketing expenditure on high-budget (mainstream) and low-budget (domestic) films in the top ten box-office admissions per country.
H3: The higher the investment in the marketing of low-budget films, the higher the demand for art house films across countries (i.e., the share of domestic films released in a given country).

1.3.3. Cultural-social-structural factors

Education, occupation and social/cultural status

Researchers in stratification (Bourdieu, 1984; DiMaggio, 1994; Katz-Gerro, 1999) pointed out the relatively close connection between various social status indices and cultural consumption. According to Bourdieu (1989) and Ritzer (1992), cinema consumption and orientation is not objectively determined, nor is it the outcome of free will, but rather the result of the dialectical relationship between action and structure and the outcome of this dialectical discourse is the “habitus”. Bourdieu (1989) defines habitus as consisting of resources or capital derived from one’s socialization in society. It composes the individual’s personal cultural baggage and taste in such things as music and film which reflect objective divisions in the class structure.

Drawing on the work of Bourdieu (1989), López-Sintas and García-Alvarez (2006) examined the link between social class and types of audiovisual consumption, and their findings demonstrated that it is easier to find film and audiovisual fans in higher classes than in any other category. Still pursuing the descriptive side of film research, this link between class status and the cultural hierarchy has received attention in numerous empirical studies. Collectively, such studies have established a clear and pervasive connection between education and an appreciation for high culture (Gans, 1974; DiMaggio et al, 1978). Bourdieu (1984) presented empirical research to suggest that viewing art films, as opposed to mainstream films, was associated with different levels of education.

It seems that people’s interests, developed in connection with education, have a decisive influence on the development of a cumulative pattern of film demand (Augedal, 1972; DiMaggio, 1994). Education leads individuals to be more interested in more aspects of their environment, and they will try to get in contact with these elements. As Bourdieu (1984: 2) asserts “a work of art has meaning and interest only for someone who possesses the cultural competence, that is, the code, into which it is encoded”, thus, higher education increases the cultural capital which is a function of the cultural competency to fully appreciate any cultural artwork (Bourdieu, 1984).
It has also been suggested that people with a high educational level have a relatively higher income (Auggedal, 1972) and the probability of going to the cinema rises with income, which contradicts the theory of “escapism for the masses” (Collins and Hand, 2005).

A strong tradition in sociology emphasizes the link between cultural lifestyle behaviour and class standing. Members of a given social class are characterized by a lifestyle-shaping “generative principle” that governs the disposition to prefer certain cultural objects whose appreciation helps to confer class-based distinctions (Bourdieu, 1984; Bourdieu and Wacquant, 1992). Individuals in higher social strata are those who prefer and predominantly consume high culture, and individuals in lower social strata are those who prefer and predominantly consume mass or low culture. In the case of films, Bourdieu (1984) also emphasizes the oppositions found in the field of cinema where he concludes that professional occupations with more cultural capital than economic capital, generally prefer art films “that demand large cultural investment”, whereas business occupations, possessing more economic capital than cultural capital, tend to prefer mainstream films, defined as those “spectacular feature films, overtly designed to entertain”.

There exists a community of interests, habits and tastes within occupational classes, which is considerably different from those of other classes (Katz-Gerro, 1999) and film consumption serves as an indicator of class structure that reproduces the class structure itself (Bourdieu, 1984).

Indeed, film-viewing practices provide an excellent arena for examining the relationship between social class, cultural repertoires, and popular culture. Films are considered to be a form of popular culture, but they are also considered to be an important form of art (Barnett and Allen, 2000). As matter of fact, cinema film is a medium whose content can span the spectrum from introspective art to mass entertainment, but perceptions of what is art are directly affected by the status of audience members (DiMaggio, 1982; Levine, 1988). A cultural product’s association with a high status audience can help to legitimate the product as art (DiMaggio, 1982).

With respect to our conceptualization of cinema demand, we rely on the general proposition that low cultural capital consumers prefer entertainment that is less demanding in the difficulties it poses, whereas the taste of consumers with higher cultural capital gravitate more toward challenging art house films of higher complexity and difficulty which are more intellectually demanding.
Finally, recent technological advances in the film industry, as well as in related industries, have revolutionized the industry’s production processes, distribution channels, and consumption trends. The rise of digital film production with new methods, more creative contents, and the rapidly increasing digitization of cinemas is creating a window of opportunity for international cinema, with centres of innovation in permanent change (Cousins, 2004). Thus, it is likely that differences in the countries’ technological level will lead to differences in film consumption patterns.

Social-structural factors such as income, education, and occupation/field of graduation, are likely to constitute important 'predictors' of the demand for a certain type of cinema films, namely mainstream versus art house.

H4: The higher the social and cultural status of a population (proxied by the level of income per capita/formal education/share of creative occupations/R&D intensity in a given country), the higher the demand for art house films across countries (i.e., the share of domestic films released in a given country).

Summarizing, our ‘theoretical’ model is:

\[
\text{Demand for 'arthouse' vs mainstream films} = f \left( \frac{\text{Individual factors}}{\text{Industry factors}} \right)
\]

\[
= f \left( \frac{\text{Experiential motivation; consumption patterns;}}{\text{Production quality; Distribution concentration; Marketing;}} \right)
\]

\[
= f \left( \frac{\text{Social-structural factors}}{\text{Education level/type; Creative occupations; Development level; Technological level}} \right)
\]

The next chapter details the methodological issues related to our empirical work and Chapter 3 presents the empirical results of the cross-country demand for mainstream versus art house films.
Chapter 2. Determinants of the demand for given types of cinema films. Methodological underpinnings

2.1. Initial considerations

Our analysis aims to test which are, at cross-country level, the determinants of the demand for mainstream versus art house films. More specifically, whether individual factors (e.g., experiential motivation and consumption patterns), industry factors (namely production and marketing investments), and cultural-social-structural country factors (e.g., education, occupational profiles, per capita income) are critical in explaining the demand for art house versus mainstream films.

The present chapter details the data set used, the proxies for the variables of the model and the methodology used to estimate such a model. The next section (Section 2.2) recalls the research question and puts forward the model specification. Section 2.3 describes the data source used and Section 2.4 details the construction of the proxies for the relevant variables.

2.2. Research question and model specification

The present study provides an empirical analysis focusing on how different factors – individual, industrial and social-cultural-structural, influence or are most relevant in explaining cross-country choices of cinema films, namely between ‘art house’ versus ‘mainstream’ films.

Our ‘theoretical model’ is:

\[
\text{Demand for 'arthouse' vs mainstream films} =
\]

\[
= f \left( \text{Production quality; Distribution concentration; Marketing;} \right)
\]

\[
\cup \left( \text{Experiential motivation; consumption patterns;} \right)
\]

\[
\cup \left( \text{Education level / type; Creative occupations; Development level; Technological level} \right)
\]

\[
\text{Industry factors}
\]

\[
\text{Social-structural factors}
\]
Our dependent variable ‘Demand for art house versus mainstream film’ is taken as a
dummy-variable which assumes the value of 1 when the market share of art house films is
below a given threshold (20%; 15% or 10%).

The aim here is to assess which are the main determinants of the propensity of the demand
for art house films in comparison to mainstream ones. The nature of the data observed
regarding the dependent variable ['Demand for art house films at a given threshold (10%;
15% and 20%) (dummy=1 if Yes and 0 if No] dictates the choice of the estimation model.
Conventional estimation techniques (e.g., multiple regression analysis), in the context of a
discrete dependent variable, are not a valid option. Firstly, the assumptions needed for
hypothesis testing in conventional regression analysis are necessarily violated – it is
unreasonable to assume, for instance, that the distribution of errors is normal. Secondly, in
multiple regression analysis the predicted values cannot be interpreted as probabilities –
they are not constrained to fall in the interval between 0 and 1. The approach used,
therefore, involves analyzing each situation in the general framework of probabilistic
models.

In the model of ‘propensity’ of demand for art house film’, it is believed (cf. Chapter 1)
that a set of factors, such as individual factors (e.g., experiential motivation and
consumption patterns), industry factors (namely production and marketing investments),
and cultural-social-structural country factors (e.g., education, occupational profiles, per
capita income), are likely to influence individuals in a given country in their demand for art
house films. These ‘explanatory’ variables are gathered in a vector $X$, which explains the
outcome, so that:

\[
\Pr(Y = 1) = F(X; \beta) \quad \text{and} \quad \Pr(Y = 0) = 1 - F(X; \beta) .
\]

The set of parameters $\beta$ reflects the impact of changes in $X$ on the likelihood of ‘demand
for art house films’.

The empirical assessment of the propensity of the demand for art house films is based on
the estimation of the following general logistic regression:

---

7 The logistic regression model is also preferred to another conventional estimation technique, discriminant
analysis. According to Hosmer and Lemeshow (1989), even when assumptions required for discriminant
analysis are satisfied, logistic regression still performs well.
In order to obtain a more straightforward interpretation of the logistic coefficients, the logistic model can be rewritten in terms of the odds of an event occurring - the logit model becomes:

\[
\log \left( \frac{\text{Prob(art - house)}}{\text{Prob(mainstream)}} \right) = \beta_0 + \beta_1 \text{Experiential motivation} + \beta_2 \text{Consumption patterns} + \\
\beta_3 \text{Production concentration} + \beta_4 \text{Distribution concentration} + \beta_5 \text{Marketing Investment} + \\
\beta_6 \text{Education} + \beta_7 \text{Occupations} + \beta_8 \text{Per capita income} + \epsilon_i
\]

The logistic coefficient can be interpreted as the change in the log odds associated with a one-unit change in the independent variable. Then \( e \) raised to the power \( \beta_i \) is the factor by which the odds change when the \( i^{th} \) independent variable increases by one unit. If \( \beta_i \) is positive, this factor will be greater than 1, which means that the odds are increased; if \( \beta_i \) is negative, the factor will be less than one, which means that the odds are decreased. When \( \beta_i \) is 0, the factor equals 1, which leaves the odds unchanged.

We estimated three models, depending on the threshold considered for the proxy of the dependent variable: market share of domestic films (proxy for art house films) below 10%, 15% or 20%.

### 2.3. Some considerations on the data and data sources used

To measure the cross-country demand for art house versus mainstream motion pictures, the reference year of 2007 was used, the most recent year for which we were able to obtain statistical information. We built our framework using the 30 OECD countries, both because of the ease of data gathering and, most importantly, because of the composition of this sample. Indeed, OECD membership includes not only European countries but also
Canada, Mexico, Australia, New Zealand, Japan, Korea, and the United States, which expresses different realities in the cultural field of cinema.

The film industry of the European OECD countries is worthy of study for a number of reasons: first, European filmmakers and policy-makers have been defending the right to protect their film industries and to develop policies in support of these industries in light of criticism from the Motion Picture Association of America over what they consider to be protectionism (Kerrigan, 2010). Second, the European Commission has recognized the need to develop policies in support of the film industry from both industrial and cultural perspectives (Article 128 of the Treaty of European Union, 1993), having launched several aid programmes (e.g., MEDIA 2007, MEDIA MUNDUS). Third, European countries also have access to state funds in order to protect and develop national industries, which can be considered to be in conflict with free market principles (Breton, 2000; Kerrigan, 2010).

Other countries have specific characteristics that make them interesting from a research perspective. South Korea is interesting from the outset because of its film quota system. Together with Japan, it is as culturally distant from the U.S. as it is from Europe. Mexico and Canada are geographically close to the U.S., therefore, it could be assumed that they are more culturally influenced by the latter. New Zealand is the second most popular location for offshore American film production after Canada, thanks to tax incentives and an impressive combination of technical and production infrastructure (Squire, 2004). Iceland is extremely important since its 311,396 citizens have the world’s highest per-capita cinema attendance.

We did not consider the important film industries of countries such as India and Nigeria, which may be considered a limitation to this study, due to a lack of statistical data (macro and industry). Although the number of films produced in India and Nigeria are greater than in the U.S., these figures do not correlate to the level of international exposure. The Nigerian film industry is also more focused on video distribution and films are watched either at home or in video parlours, places where communities come together to watch films (Kerrigan, 2010).

As detailed next, our measures of the constructs (proxies) were derived from a number of different sources available. The data was gathered from various organizations and was based on the analysis of the countries’ macro statistics, provided mainly by the OECD, EU,
the countries’ official government sources, and cinema statistics systems in place in the selected countries.

When available, we preferred to gather data from the European Audiovisual Observatory because it provides a greater guarantee of homogeneity among the data from the different countries in the sample.

To build our framework we also used the International Standard Classification of Education (ISCED, 1997) from UNESCO. ISCED provides an integrated and consistent statistical framework for the collection and reporting of internationally comparable education statistics, and a methodology that translates national educational programmes into an internationally comparable set of categories for (i) the levels of education; and (ii) the fields of education. Our focus was the Tertiary-type A and advanced research programmes. ISCED level 5A programmes are tertiary programmes that are largely theoretically-based and are intended to provide sufficient qualifications to gain entry into advanced research programmes and professions with high-skills requirements (level 6). Level 6 is reserved for tertiary programmes which lead to the award of an advanced research qualification. We have also established seven groups of fields of education: humanities, arts, behavioural social sciences, journalism and information, business, computing, and engineering.

2.4. Construction of the proxies and data sources

2.4.1. Proxy and data source for the dependent variable

With reference to cinema films, various scholars (Baumann, 2001; Bordwell, 2006) have emphasized the contrast between mainstream and art house films. In this connection, numerous studies (Bagella and Bachetti, 1999; Holbrook and Addis, 2008) have tested the widespread assumption that high-budget productions are more connected to the mainstream, and low-budgets are more related to art house films. On the matter of country of origin, and according to the literature, we have set mainstream films as American films and art house films as domestic films (other than American).

To clarify the procedure, we have discussed that, in general, most studio-produced American films are viewed as a collectively shared form of entertainment that tends to direct cultural production to the lowbrow standards of mass tastes, and thus, they serve as a proxy for mainstream films. With regard to domestic films (non-American) or from other
countries beside the U.S., they cater more to art house crowds or to other more specialized audiences (Austin, 1989; Nichols, 1976; Wallace et al., 1993), who see cinema as an individual experience. In this vein, domestic films are used as a proxy for art house films. The share (percentage) of domestic/art house films released in the overall country market is used as an indicator for our dependent variable.

In testing our hypothesis, quantitative data are particular useful to discover forms of behaviour among groups (countries), and cultural consumption such as cinema films has been empirically analyzed, mostly in the form of patterns. The patterns are “regularities” in consumer behaviour that can be influenced by several factors. The following individual, industrial, and cultural-social-structural measures are used as explanatory, independent variables in the analyses of this study.

All the aforementioned aspects have gained some support in the literature and in the various assumptions and explanations given with regard to demand in terms of film preferences. It is important to bear in mind that quantitative research designs are characterized by the assumption that human behaviour can be explained by what may be termed as “social facts” (Horna, 1994). Thus, in the first part, the individual factor is portrayed by the distribution of titles seen in relation to national categories, which expresses the films the audience has the possibility of seeing, but does not to the same extent reveal their priority in cinemas and attendance. Gross box-office figures or audience figures show the types of films which attract an audience.

With regard to the second factor, some supply industry measures are provided in order to facilitate comparisons. But, when film supply is considered, the density of admissions must also be taken into account because it plays a role in shaping consumer patterns, since economies of scale are more efficiently reached in large nations. The second part will already provide some tentative conclusions regarding film consumption patterns both at national and cross-country level.

The third and more substantial part addresses, more specifically and thoroughly, the film consumption patterns that are constructed based on the cultural-social-structural factor. For example, few factors stand out as being the most valid and most fitting to understand the taste formation process and the reasons underlying the demand for film as art. Those mentioned relatively often in the research on the field are resources stemming from education (see, for e.g., Bourdieu, 1984; DiMaggio and Useem, 1978; Katz-Gerro, 2000;
López-Sintas, 2006). Education has proven to be one of the most central variables affecting the patterns of cultural consumption, as educational credentials are regarded as a reflection of the amount of cultural capital one possesses (Bourdieu, 1984). In short, the aim is to find the factors that are associated with the stratification of film consumption patterns.

To establish a causal relationship between our factor analyses, a comparison is undertaken using macro and industry statistical data, from a sample of 30 countries. As mentioned previously, the composition of the sample expresses different realities. Indeed, the countries are not equal and cinema film consumption is facilitated by the national characteristics within which demand occurs. The countries’ film demand was examined on the basis of a quantitative data set taken from the OECD statistical database, the countries’ statistical sites, from publications provided by several film organizations (EAO, Media Salles, Imdb, Box Office Mojo, national film distributors, etc.), and the national film institutions (CNC, UK Film Council, ICAA, ICA, ANICA, SCREEN Australia, etc.). The inclusion of a different source of information should not be seen as problematic, because, although quality and availability varies immensely in each case, we were able to construct a reliable framework.

2.4.2. Proxy and data source for the explanatory variables

Individual factors

1. Experiential motivation

Experiential motivation suggests that consumption and needs are associated with perceptions, and that the individuals’ choice is based on the attributes of each film that best gratify their needs. The judgment, and hence the market value, of a film is related to the degree by which the aesthetics and narrative of its content are differentiated (Burke 1996) from incumbent films on the market. To have experience value, a film needs to differentiate its content in terms of both narrative and aesthetics. If cinema-goers place high value on the film they want to see, it is believed they will engage in behaviour to demand for it.

There has been a reasoned debate on whether cultural (cinema) consumption patterns were to be measured as taste or whether realized consumption practices should be applied. On the other hand, there are studies that emphasize action or behaviour, that is, they measure realized consumption. According to Van Rees and colleagues (1999), to analyze the
predominant trends or tendencies in cultural (cinema) consumption, cultural practices and preferences must be broadly covered, which means that items such as film attendance must be included. Looking at the distribution of admissions over the total number of released films seems a proper indicator of consumed diversity that makes it possible to assess whether consumers tend to go to the same films or, on the contrary, each film obtains a similar audience.

Given that it was impossible to obtain the complete set of data on the distribution of admissions by film as it is unavailable for most countries, we calculated the domestic/mainstream film market share in the top ten box-office admissions by country of origin. This provides a proxy measure for assessing the individual’s behaviour. Assessment of behaviour stands as a proxy for experiential motivation to see a mainstream or art house film.

2. Consumption patterns

The assessment of different patterns of film consumption should rely on both types of supplied and demanded cinema films. The variety supplied is measured by the number of produced and released films in a given country over the year 2007, and by the number of available screens.

To determine the proportion of the films released in countries where data was unavailable (released films by origin) we requested a list of all films released in 2007 from the countries’ film institutions. After receiving the lists, we searched each movie, one by one, on the Internet Movie Database (IMBD) site, to ascertain the geographic origin of production. This task gained an important dimension in this research study for two reasons: first, because without this exhaustive effort we would not have been able to build our framework, and secondly, due to increasing international co-production arrangements. Today, nations often band together, either to pool funds or creative resources and the supra-national identities of these films often raise difficulties in the concept of national cinema. For example, the controversy surrounding the national identity of the film A Very Long Engagement/Un long dimanche de fiançailles (Jean-Pierre Jeunet, 2004), which prevented it from competing at both the Academy Awards and Cannes, hinged on the film’s financing from a French subsidiary of Warner Bros (Cook, 2007). Despite the legitimate problems in attempting to attribute the national identities to certain films, the

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IMBD provided valuable information which, in cases of doubt, enabled decisions with high levels of accuracy in relation to our framework. In the German case, the list of released films used was taken from the Box Office Mojo International at www.boxofficemojo.com.

On the consumption side, an intense level of demand is a necessary condition for the consumption of the two different types of film. Intense demand maximizes the chance that each film supplied will be consumed. The variety consumed is thus evaluated on the basis of average admissions per capita.

Industry factors

3. Production quality

As mentioned earlier, the market success of motion pictures can be expected to be influenced by the consumers’ assessment of a film’s quality. Quality, however, is difficult to ascertain prior to viewing, thus, audiences can interpret production budgets as signals of a film’s high quality, i.e., professionalism of concept and execution.

Accordingly to Prag and Casavant (1994), the production budget is an indicator of a film’s quality because rational producers/directors will plan for a big-budget film only if they have reason to expect the film to be well received. Accordingly, we assume that the larger the domestic budget in a film’s production, the more likely it is better perform in the market (Chang and Ki, 2005). Thus, the average budget of domestic films is used as a proxy for the production quality of domestic films.

4. Distribution concentration

Film demand and supply are highly interrelated within and across countries. That is, film performance in the market depends, among other factors, on the extent to which distributors make the product available to consumers. The classic concern is that distributors of cinema films, who are also producers, favour their own movies, that vertical integration may become the norm in the industry, making it difficult for non-integrated producers to survive, and thus the choice of a given type of film (namely art house) becomes very limited given the supply ‘constraints’.

The degree of concentration is a measure that addresses the inequality dimension, by stressing the relative position of the largest firms. This ratio shows the percentage of total market share to which the largest firms contribute. The concentration ratio is effective in showing the dominance of the top firms and, from this perspective, industrial concentration
can be measured using the distributors’ market share and the possible impact on the consumer’s choice across countries, since exhibitors also receive a constant proportion of domestic box office revenue.

5. Marketing investments

As a reflection of budget characteristics, the marketing strategy for motion pictures also embodies a higher or lower level of marketing clout. That is, the film’s degree of marketing effort – as manifested by the size of its production budget and by the intensity of its cinema distribution – represents its position as a proxy for mainstream film. By contrast, a small budget with lower marketing clout and weak distribution represents its position as an art house film, since they serve, generally, the domestic market.

It is important to note that our variable ‘average film marketing investments’ includes P&A (prints and advertisement). Prints are the actual physical films that are shown in cinemas. Each cinema needs at least one print and possibly more depending on how many screens the film is playing on. The advertising part of the P&A budget is the amount spent on just that, advertising (TV, newspapers, magazines, internet, cinema advertising).

When distributors (responsible for the film’s marketing campaign) are confident that a film will perform well and they have invested in a costly marketing campaign, they generally opt for wide release (Kerrigan, 2010). Much research, specifically that undertaken by Elberse and Eliashberg (2003) and Elberse (1999), has indicated that wide release is the most beneficial strategy for distributors as it means that they can take advantage of a publicity blitz. According to Fellman (2006), a wide release in the U.S. would see a film opening on 700 to 3000 screens, a limited release sees a film opening on between 50 and 700 screens, and the platform or exclusive strategy that is usually reserved for art house films has such films opening on a very small number of specialized screens (Fellman 2006).

Furthermore, another proper measure to assess marketing investments is the number of copies released per film. This would enable us to measure the degree of inequality in competition among different films. Unfortunately, this data is not available for all the different countries in the sample. Thus we adopted the approach of Zuckerman and Kim (2003), who suggested a two-tiered market structure in which the market share is mirrored and, indeed largely determined, by a corresponding inequality in the number of screens allocated to the film type (Zuckerman and Kim, 2003).
Although this approach can be used in our framework, it is fair to say that not all art house films are premiered only on specialized screens. Norway, for example, does not have a divided system, given Norway’s municipal system, where the majority of cinemas are publically owned. The cinema enterprise in Norway is a cultural-political affair, where municipals cinemas have the responsibility in providing cultural diversity when it comes to showing films (Rodsand, 2009). However, recent changes in municipal legislation made it possible to organize cinema as more of a business enterprise and some municipal theatres have been transformed into joint stock companies. The municipality still sits as owner, but is less able to interfere. Although the joint stock companies are not allowed to make any profit, they do need the income of mainstream films to make the company “even out” (Rodsand, 2009). Now, two cinema types are considered typical for Norwegian cinemas, even though not representative in a statistical way, they can be seen as representing (Rodsand, 2009) bigger cinemas in the 3-4 cities that generally carry a high number of American titles (Asbjornsen and Solum, 2003), and the smaller theatres which stick to the more traditional cinema activity under the “umbrella” organization of Film and Cinema. For cinema activity as a whole, this means a kind of hybrid form of cultural organization, which develops both commercial aspects of cinema and traditional commitment to local communities (Rodsand, 2009). The Norwegian reality is important to illustrate that even for markets for which we were unable to collect figures on art cinema screens, these markets are structured in terms of an opposition between market identities.

As indicators, we use the average film marketing expenditure in the overall production budget and the available screens for each type of film. As detailed next, the data described above was derived from a number of different industry sources, some available on EAO, others in Media Salles, and in the annual reports by the countries’ film institutions. With regard to the average marketing cost per film (P&A), and since this data is not available (with some residual exceptions), first, we contacted the film institutions, which were in a few cases able to provide this information. In a second stage, an email was sent requesting the figures on the average marketing cost per film (P&A), and we contacted (274) film distributors that had distributed a domestic film in 2007 or in an adjacent year, in order to collect the missing data. This attempt was not very fruitful because many refused to give “confidential” and “market sensitive” information. In the subsequent contacts made, we stated that the data was confidential and for academic purposes only.
Although the collected data is reliable and provided by direct sources, it is important to note that most distributors were reluctant to share these figures and did not want to be quoted; therefore, they cannot be used as ‘official’ sources.

**Cultural-social-structural country factors**

6. **Education levels**

We argued above that the broadening of education has provided larger audiences for film as art, thus, probably the most important factor explaining consumption of cinema films as art are levels of education. High education is likely to be a good proxy determinant of artistic taste.

In order to test this hypothesis we use the number of graduates from Tertiary-type A and advanced research programmes in each country. A positive correlation is expected between the number of graduates and the market share of domestic/art house films.

7. **Field of graduation**

Consumption of cinema films is reinforced during the process of education; therefore, it is more likely that people with similar education backgrounds will resemble each other in leisure habits (Katz-Gerro, 1999). From our data sources we were able to construct seven groups by field of graduation. 4 groups were used (humanities, arts, behavioural and social sciences, journalism and information) to reflect ‘cultural’ capital and 3 groups (business, engineering, computing) for the variable ‘economic’ capital. Our assumption is: a higher number of graduates in the cultural group implies a higher demand for domestic/art house films.

8. **Occupational classes**

Bourdieu (1991) views the world as a multidimensional space, differentiated into relatively autonomous fields. Within each of these fields, individuals occupy positions determined by the quantities of different types of capital they possess. “Classes are sets of agents who occupy similar positions and who, being placed in similar conditions and submitted to similar types of conditioning, have every chance of having similar dispositions and interests, and thus of producing similar practices and adopting similar stances” (Bourdieu 1991: 231). Therefore, cultural production and cultural consumption are intimately related aspects of a cultural system (Dimaggio and Useem, 1978). Since exposure to cultural
capital is, to a considerable extent, a function of occupational class, cultural capital is also likely to contribute to the class differentiation of arts consumption.

We assume that within each country, the higher the cultural occupational class (defined by the percentage of creative and cultural employment in the overall employment), the higher the consumption of domestic films.

The first step in assessing the occupational classes in the creative and cultural industries is the need to define corresponding sectors and activities. This is no easy task given the divergence of national and international approaches, the problem with the comparability of definitions, statistical frameworks, data and indicators (KEA, 2006). What is striking when investigating the economy of culture is the variety of terminologies used beyond the core art field (“artistic activities in the strict sense”). These include, for example: “cultural industries”, “copyright industries”, “content industries”, “experience economy”, “creative business sector”, “art-centric businesses”, “cultural and communication industries”, “media industries” and “knowledge economy” (KEA, 2006). Although the debate goes far beyond the scope of this study, it should be noted that the methodology we propose remains workable regardless of the scope of “creative and cultural industries”.

This study does not try to summarize or repeat these debates. There is extensive literature providing more detailed accounts of the various terms and debates related to creative and cultural industries (Caves, 2000; Scott, 2000; Hesmondhalgh, 2002; Power, 2002; Power and Scott, 2004; Pratt, 2005; Fleming, 2007; Galloway and Dunlop, 2007; Kolmodin et al., 2008; Nielsen, 2008; Jeffcutt and Pratt, 2009; Mato, 2009; Miller, 2009; Power, 2009). However, even though each term has a separate heritage and legacy, they have much in common. In industrial policy and analysis both these terms share a common concern with industries that have often been marginalized from economic and industrial analysis and policy. In particular, both terms share a focus on industries such as film, art, design, music, etc., that have largely been treated as issues for cultural policy and debate but are now recognized as important economic fields in their own right (Power and Nielsen, 2010). The terms have been used in many ways but are usually thought to signify industries that deal with the following areas of activity: advertising, architecture, broadcasting media, design-fashion, graphic design, interior design, product design, film, the “finer arts” – literary, visual and performance arts, libraries, museums, heritage, music, photography, print media, object d’art-crafts. Moreover, these industries, rightly or wrongly, are suggested to
share something that makes treating them as interlinked or similar meaningful and worthwhile.

For the purposes of this study, we use the following definition of creative and cultural industries: those concerned with the creation and provision of marketable outputs (goods, services and activities) that depend on creative and cultural inputs for their value (Power and Nielsen, 2010). The cultural and creative employment data was gathered from the European Cluster Observatory, the Australian Report Card, WIPO Survey 2003 and 2004, Nzier Report, 2006 Japanese Establishment and Enterprise Census, and KOSIS.

9. Development/Income level

Economic theory would suggest that income-related variables should be present in any demand function (Collins and Hand, 2005; Bohme and Muller, 2009). We assume that consumption of cinema films is correlated with income per capita and differences among selected countries will affect the number of movie-going experiences. Still, and according to the literature, people with a high educational level have, on average, a relatively higher income/development (Lazersfel, 1947; Augedal, 1972). Thus, it is expected that the differences in income per capita (proxy for ‘status’) between countries will result in distinct audience statuses, and therefore, in distinct types of film consumption.

10. Technological level

Recent technological advances in the film industry, as well as in related industries, have revolutionized the industry’s production processes, distribution channels, and consumption trends.

The rise in digital film production with new methods, more creative contents, and the rapidly increasing digitization of cinemas is creating a window of opportunity for international cinema, with centres of innovation in permanent change (Cousins, 2004). Today, we are witnessing a technological revolution, whose result will be the democratization of filmmaking (Cousins, 2004). In this line of thought, it is likely that differences in the countries’ technological level will lead to differences in film consumption patterns.

The percentage of a country’s GDP allocated to R&D activities is used as a proxy to assess the impact of the film industry’s technological level. It is expected that the most technologically developed countries are likely to attract more audiences to its films as
filmmaking practices become more innovative, given their high level of technological sophistication.
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description of the indicator/proxy</th>
<th>Proxies</th>
<th>Data source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dependent variable</strong></td>
<td>Demand for art house vs. mainstream films</td>
<td></td>
<td>European Audiovisual Observatory; cineuropa.org; cultural policies.net; Media Salles; Reports by film institutions.</td>
</tr>
<tr>
<td>1. Experiential motivation</td>
<td>Choice behaviour as proxy for experiential motivation</td>
<td>Market share in the top ten box office admissions by films’ country of origin</td>
<td>European Audiovisual Observatory; Reports by film institutions.</td>
</tr>
<tr>
<td>2. Consumption patterns</td>
<td>The assessment of different patterns of film consumption should rely on both types of supplied and consumed films.</td>
<td>Number of domestic films released; Number of available screens for domestic films; Average admissions per capita</td>
<td>European Audiovisual Observatory; Reports by film institutions.</td>
</tr>
<tr>
<td>3. Production quality</td>
<td>Quality is assessed by the size of the budget in film production.</td>
<td>Average budget of domestic films</td>
<td>European Audiovisual Observatory; Screen Australia; Reports by films institutions.</td>
</tr>
<tr>
<td><strong>Industry factors</strong></td>
<td>The degree of concentration is a measure that addresses the inequality dimension. The concentration ratio is effective in showing the dominance of the top firms.</td>
<td>Market share of top distributors</td>
<td>European Audiovisual Observatory; Reports by film institutions.</td>
</tr>
<tr>
<td>5. Marketing investments</td>
<td>Share of marketing expenditure in production budget</td>
<td>Marketing expenditure in overall production budget</td>
<td>Reports by film institutions; collected data from distributors for each country.</td>
</tr>
<tr>
<td>6. Education levels</td>
<td>High education as proxy for artistic taste.</td>
<td>% graduates from Tertiary-type A and advanced research programmes in total population</td>
<td>OECD</td>
</tr>
<tr>
<td>7. Field of graduation</td>
<td>Graduation groups reflecting ‘cultural’ capital and graduation groups for the variable ‘economic’ capital.</td>
<td>Number of graduates by field of graduation in total graduates</td>
<td>OECD</td>
</tr>
<tr>
<td>8. Occupational class</td>
<td>Creative employment as proxy for occupational class</td>
<td>Creative employment in total employment</td>
<td>Nzier Report; Kosis; WIPO; ECO; JEEC; ARC.</td>
</tr>
<tr>
<td>9. Income</td>
<td>Income</td>
<td>GDP per Capita</td>
<td>OECD</td>
</tr>
<tr>
<td>10. Technological sophistication</td>
<td>Degree of technological development of countries</td>
<td>Ratio of Research and Development (R&amp;D) in GDP</td>
<td>OECD</td>
</tr>
</tbody>
</table>
Chapter 3. Determinants of the demand for given types of cinema films. Empirical results

3.1. Initial considerations

This chapter details the analysis of the results of the estimation of the econometric regressions used to infer the determinants of the demand for art house versus mainstream motion pictures across the selected sample of countries.

We gathered data based on the analysis of the countries’ macro statistics, film industry statistics and from the ISCED, and built a framework to assess whether individual factors (e.g., experiential motivation and consumption patterns), industry factors (namely, production quality and marketing investments), and cultural-social-structural country factors (e.g., education, occupational profiles, per capita income, and technological sophistication) were critical in explaining the demand for art house versus mainstream films.

The descriptive statistics, as well as a brief exploratory data analysis based on the Kruskal-Wallis non-parametric test of differences in means, are reported and detailed in Section 3.2. The following section (Section 3.3) presents and discusses the results of the estimation of the regression, integrating them, whenever possible, with previous results found in the existing literature.

3.2. Descriptive statistics

About sixty per cent of the (30) countries in our sample present an average ratio of art house (domestic) films to people attending mainstream (U.S.) films above 10 per cent. If the threshold is set at 20%, the percentage rises to 36.7% among countries. This latter group includes countries such as Sweden, Poland, Denmark, United Kingdom, Italy, Czech Republic, Turkey, France, Japan, South Korea, and the United States. Beside the countries mentioned, Hungary, Spain, The Netherlands, Norway, Germany, Finland, and Greece are also place above 10 per cent.9

A descriptive analysis of our data (cf. Table 2) indicates that the average cinema attendance per citizen in 2007 was 2.2 times, and that 80% of all the cinema-goers in the

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9 Countries that present a ratio art-house versus mainstream films below 10% include (by increasing order of the ratio) Luxembourg, Slovak Republic, Austria, New Zealand, Portugal, Canada, Australia, Ireland, Switzerland, Belgium, Mexico, and Iceland.
The top ten box-office by admissions went to see a mainstream film. These 80% represent, on average, 33% of the overall market by admissions in the countries of our sample. The average domestic film budget varies from 0.61 million to 22.4 million dollars with a mean of 4.3 million dollars.

On average, the amount spent on marketing by domestic film released represents 13% of its production budget. The distribution is fairly concentrated with the top 3 distributors representing on average a share of 56%, from the lowest in France at 33% to a highest in Portugal at 88%.

With regard to the Tertiary-type A level and field of education in the countries selected, on average, 7% of the total population possessed (in the reference year of 2007) a tertiary degree, with 17.8% of those graduates coming from the Business and Administration field; 12.2% from Engineering, Manufacturing and Construction, and less than 1% from the Social and Behavioural Science.

The weight of the creative industries in the sample is similar in terms of both employment and gross domestic product, reaching a figure of around 3%.

The sample of countries considered is also widely differentiated according to the level of development (measured by the GDP per capita) and technological sophistication (proxied by the R&D/GDP ratio). Indeed, it includes low-income countries such as Turkey, Mexico, Poland, or Hungary, and high-income countries such as the United States, Norway, or Luxembourg. In terms of technological sophistication, our sample includes technological frontier countries (with a R&D/GDP ratio well above 3%), such as Japan, Finland and Sweden, and technological laggards (R&D intensity below 0.5% of the GDP), such as Mexico and the Slovak Republic. On average, the R&D intensity ratio sits at 1.8% of the GDP.

It is important at this stage to assess in an exploratory fashion whether sample means of the relevant variables (categorized into the individual, industrial, and cultural-socio-structural factors) are (statistically) different according to the two groupings of countries considered: those with a art house/mainstream film ratio above 10% (20%) and the remaining. For the exploratory test of the differences in means, the non-parametric Kruskal-Wallis test is used\textsuperscript{10}, which serves to assess whether there is evidence of statistically significant

\textsuperscript{10} The Kruskall Wallis tests the null hypothesis that the median of the population will be equal (Sheskin, 2007).
differences in the mean values of countries with a ratio of art house films below and above 10% (20%) in the different categories of the relevant variables (cf. Table 3).
Table 2: Descriptive Statistics

<table>
<thead>
<tr>
<th>Groups of Factors</th>
<th>Group of variables</th>
<th>Variables</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dependent variable</td>
<td>Demand for art house vs. mainstream films</td>
<td>Art house vs. mainstream film ratio above 10%</td>
<td>0.000</td>
<td>1.000</td>
<td>0.600</td>
<td>0.498</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art house vs. mainstream film ratio above 20%</td>
<td>0.000</td>
<td>1.000</td>
<td>0.367</td>
<td>0.490</td>
</tr>
<tr>
<td>Individual factors</td>
<td>Experiential motivation</td>
<td>Market share in top ten box-office admissions by films’ country of origin</td>
<td>0.380</td>
<td>1.000</td>
<td>0.803</td>
<td>0.179</td>
</tr>
<tr>
<td></td>
<td>Consumption patterns</td>
<td>Number of domestic films released</td>
<td>4</td>
<td>470</td>
<td>79</td>
<td>114.301</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of available screens for domestic films</td>
<td>7155</td>
<td>50461</td>
<td>18826</td>
<td>10502.68</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Average admissions per capita</td>
<td>0.430</td>
<td>4.800</td>
<td>2.206</td>
<td>1.183</td>
</tr>
<tr>
<td>Industry factors</td>
<td>Production quality</td>
<td>Average budget of domestic films</td>
<td>0.610</td>
<td>22.400</td>
<td>4.312</td>
<td>4.616</td>
</tr>
<tr>
<td></td>
<td>Distribution concentration</td>
<td>Top distributors’ market share</td>
<td>0.330</td>
<td>0.884</td>
<td>0.561</td>
<td>0.144</td>
</tr>
<tr>
<td></td>
<td>Marketing investments</td>
<td>Marketing expenditures in overall production budget</td>
<td>0.010</td>
<td>0.500</td>
<td>0.130</td>
<td>0.128</td>
</tr>
<tr>
<td>Social-structural factors</td>
<td>Education level</td>
<td>% graduates from Tertiary-type A and advanced research programmes in total population</td>
<td>0.034</td>
<td>0.138</td>
<td>0.070</td>
<td>0.025</td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
<td>0.008</td>
<td>0.080</td>
<td>0.039</td>
<td>0.019</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
<td>0.014</td>
<td>0.167</td>
<td>0.082</td>
<td>0.038</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioural Science</td>
<td></td>
<td>0.037</td>
<td>0.151</td>
<td>0.090</td>
<td>0.032</td>
</tr>
<tr>
<td></td>
<td>Journalism/Information</td>
<td></td>
<td>0.004</td>
<td>0.045</td>
<td>0.020</td>
<td>0.010</td>
</tr>
<tr>
<td></td>
<td>Business/Administration</td>
<td></td>
<td>0.091</td>
<td>0.304</td>
<td>0.178</td>
<td>0.052</td>
</tr>
<tr>
<td></td>
<td>Computing</td>
<td></td>
<td>0.011</td>
<td>0.087</td>
<td>0.040</td>
<td>0.017</td>
</tr>
<tr>
<td></td>
<td>Engineering/Manufacturing/Construction</td>
<td></td>
<td>0.054</td>
<td>0.250</td>
<td>0.122</td>
<td>0.052</td>
</tr>
<tr>
<td>Occupational classes</td>
<td>Weight of Creative industries in total (in terms of GDP)</td>
<td></td>
<td>0.006</td>
<td>0.085</td>
<td>0.027</td>
<td>0.017</td>
</tr>
<tr>
<td></td>
<td>Weight of Creative industries in total (in terms of Employment)</td>
<td></td>
<td>0.007</td>
<td>0.110</td>
<td>0.033</td>
<td>0.018</td>
</tr>
<tr>
<td>Development/Income level</td>
<td>Gross Domestic Product (GDP) per capita</td>
<td></td>
<td>12993</td>
<td>79793</td>
<td>33444</td>
<td>12940.11</td>
</tr>
<tr>
<td>Technological level</td>
<td>Ratio of Research and Development (R&amp;D) in GDP</td>
<td></td>
<td>0.005</td>
<td>0.036</td>
<td>0.018</td>
<td>0.009</td>
</tr>
</tbody>
</table>
Table 3: Demand for art house vs. mainstream films - exploratory tests (Kruskal-Wallis non-parametric test of differences in means)

<table>
<thead>
<tr>
<th>Individual factors</th>
<th>Experiential motivation</th>
<th>Consumption patterns</th>
<th>Industry factors</th>
<th>Production quality</th>
<th>Distribution concentration</th>
<th>Marketing investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art house vs. mainstream film ratio above 10%</td>
<td>Kruskal Wallis Test</td>
<td>Art house vs. mainstream film ratio above 20%</td>
<td>Kruskal Wallis Test</td>
<td></td>
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<tr>
<td>Below 10% (mean values)</td>
<td>Above 10% (mean values)</td>
<td>Chi-Square</td>
<td>Asymp. Sig.</td>
<td>Below 20% (mean values)</td>
<td>Above 20% (mean values)</td>
<td>Chi-Square</td>
</tr>
<tr>
<td>Market share in top ten box-office admissions by films’ country of origin</td>
<td>0.927</td>
<td>0.720</td>
<td>11.475</td>
<td>0.001</td>
<td>0.875</td>
<td>0.678</td>
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<tr>
<td>Number of domestic films released</td>
<td>29.667</td>
<td>112.389</td>
<td>4.572</td>
<td>0.032</td>
<td>40.421</td>
<td>146.455</td>
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<tr>
<td>Number of available screens for domestic films</td>
<td>15556</td>
<td>21006</td>
<td>0.717</td>
<td>0.397</td>
<td>17091</td>
<td>21823</td>
</tr>
<tr>
<td>Average admissions per capita</td>
<td>2.657</td>
<td>1.906</td>
<td>2.867</td>
<td>0.090</td>
<td>2.277</td>
<td>2.085</td>
</tr>
<tr>
<td>Average budget of domestic films</td>
<td>3.568</td>
<td>4.809</td>
<td>0.870</td>
<td>0.351</td>
<td>3.340</td>
<td>5.992</td>
</tr>
<tr>
<td>Top distributors’ market share</td>
<td>0.568</td>
<td>0.556</td>
<td>0.101</td>
<td>0.751</td>
<td>0.587</td>
<td>0.517</td>
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<td>Marketing expenditure in overall production budget</td>
<td>0.073</td>
<td>0.168</td>
<td>5.257</td>
<td>0.022</td>
<td>0.085</td>
<td>0.208</td>
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<tr>
<td>% graduates from Tertiary-type A and advanced research programmes in total population</td>
<td>0.074</td>
<td>0.067</td>
<td>0.303</td>
<td>0.582</td>
<td>0.068</td>
<td>0.072</td>
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<tr>
<td>Arts</td>
<td>0.042</td>
<td>0.037</td>
<td>0.868</td>
<td>0.352</td>
<td>0.040</td>
<td>0.038</td>
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<tr>
<td>Humanities</td>
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<td>2.727</td>
<td>0.099</td>
<td>0.075</td>
<td>0.095</td>
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<tr>
<td>Social and Behavioural Science</td>
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<td>Journalism/Information</td>
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<td>0.352</td>
<td>0.553</td>
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<td>0.020</td>
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<tr>
<td>Business/Administration</td>
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<td>2.073</td>
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<td>0.180</td>
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<td>0.036</td>
<td>0.459</td>
<td>0.498</td>
<td>0.045</td>
<td>0.031</td>
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<tr>
<td>Engineering/Manufacturing/Construction</td>
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<td>0.129</td>
<td>0.868</td>
<td>0.352</td>
<td>0.114</td>
<td>0.137</td>
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<tr>
<td>Weight of Creative industries in total (in terms of GDP)</td>
<td>0.025</td>
<td>0.029</td>
<td>0.198</td>
<td>0.656</td>
<td>0.024</td>
<td>0.033</td>
</tr>
<tr>
<td>Weight of Creative industries in total (in terms of Employment)</td>
<td>0.040</td>
<td>0.028</td>
<td>1.667</td>
<td>0.197</td>
<td>0.036</td>
<td>0.027</td>
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<tr>
<td>Gross Domestic Product (GDP) per capita</td>
<td>36209</td>
<td>31600</td>
<td>1.032</td>
<td>0.310</td>
<td>35531</td>
<td>29839</td>
</tr>
<tr>
<td>Ratio of Research and Development (R&amp;D) in GDP</td>
<td>0.017</td>
<td>0.020</td>
<td>0.303</td>
<td>0.582</td>
<td>0.017</td>
<td>0.021</td>
</tr>
</tbody>
</table>
Based on the Kruskal-Wallis test for the 10% and 20% threshold (Table 3), we conclude that differences exist mainly regarding the individual factors, more specifically in experiential motivation and consumption patterns. In effect, it can be seen that countries possessing a ratio of art house vs. mainstream films above 10% (or 20%) tend to present a lower mean for the variables ‘Market share in top ten box-office admissions by films’ country of origin’ and (only for the 10% threshold) ‘Average admissions per capita’, and a higher mean of domestic films released (112 versus 30 in the case of the 10% threshold and 40 versus 146 films in the case of the 20% threshold).

Evidence thus seems to suggest here that the higher the proportion of top ten box-office admissions in mainstream films, the lower the art house film market share. Additionally, the higher the number of domestic films released, the higher the likelihood of demand for art house films. In other words, the performance (“demand”) and availability (“supply”) of art house films seems to be highly interrelated across countries – data seem to indicate that the demand for art house films depends, among other factors, on the extent to which the film is available to consumers.

The only industry factor which shows statistically a difference in means is the domestic films’ ratio of marketing expenditure in total production budget. On average, in countries with a ratio of art house vs. mainstream films above 10% (20%), domestic films spent almost 17% (21%) of their total production budget on marketing, whereas for the remaining countries, the figure is around 7% (9%).

Education levels, occupational classes, development and technological levels fail to emerge with statistically distinct means in terms of the art house/mainstream film ratio (both for the 10% and 20% threshold). Only the type of education shows some distinct patterns among countries. Indeed, the Kruskal-Wallis test reveals that the mean value for the percentage of graduates from the Humanities is quite different among countries with an art house/mainstream film ratio above 10% in comparison to its below 10% counterparts. In effect, the first group of countries presents a mean of 9.3% against 6.5% for the second group. In the case of the 20% threshold, the type of education continues to be the only social-structural variable which presents statistically significant differences but this time in computing with countries with an art house/mainstream film ratio above 20% evincing a share of computed graduates (3.1%) below that (4.5%) associated with countries with an art house/mainstream film ratio below 20%.
Such results indicate that the number of graduates from the Humanities may be associated with a higher demand for art house films. The Humanities involve the study of society, ideas, and the arts, integrating understandings of aesthetic, intellectual, and moral value that are inherent to the works of human culture. Thereby, audiences from the Humanities field may acquire knowledge and incorporate more cultural capital (highbrow tastes), and demonstrate more familiarity with the art house type of films.

An analysis of the correlation matrix among the relevant variables (Table 4) complements the Kruskal-Wallis tests performed above. We observe that the estimates of the Pearson coefficient are positively and significant correlated between our dependent variable (art house/mainstream film ratio at the 10% and 20% thresholds) and the number of domestic films released, average domestic film budget (proxy for domestic film quality) (only for the 20% threshold), and proportion of marketing expenditure in total budget. This indicates that, on average and in a bivariate perspective, the demand for art house films is positively associated with the supply of domestic films, their quality and marketing investments.

In contrast, and as expected, the demand for art house films is significantly and negatively correlated with the share of U.S. (mainstream) films in the top ten box office admissions. Quite awkwardly, there is some evidence (but only for the 10% threshold) that countries with a large weight of employment in creative industries are those experiencing lower (relative) demand for art house films (as indicated by the Pearson estimate of 0.348 in Table 4).

The correlation analysis corroborates to a large extent the outcomes of the Kruskal-Wallis tests. Nevertheless, as mentioned earlier, these are statistical exploratory analyses. In order to effectively and rigorously analyze the determinants of the (relative) demand for art house films (proxied by the 10% or 20% threshold variable for the art house vs. mainstream film ratio), a multivariable analysis is required, where all potential determinants are simultaneously taken into account. Before performing this task, it is advisable to analyze potential problems of multicollinearity by studying the correlations among the relevant proxies for the independent variables. Aiming to avoid multicollinearity problems, but guaranteeing that a variable proxy is added for each group of factors/determinants of the relative demand for art house films, we decided to remove some variables, which present very high correlation coefficients (above 0.50), from the logistic model presented in Table 5.
Table 4: Correlation matrix

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<tr>
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<th>1</th>
<th>2</th>
<th>3</th>
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<td>1</td>
<td>1</td>
<td>0.621***</td>
<td>-0.577***</td>
<td>0.361**</td>
<td>0.259</td>
<td>-0.042</td>
<td>0.737**</td>
<td>-0.137</td>
<td>0.133</td>
<td>-0.348*</td>
<td>-0.177</td>
<td>0.138</td>
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</tr>
<tr>
<td></td>
<td>Sig. (2-tailed)</td>
<td>0.000</td>
<td>0.001</td>
<td>0.050</td>
<td>0.168</td>
<td>0.089</td>
<td>0.245</td>
<td>0.825</td>
<td>0.042</td>
<td>0.470</td>
<td>0.482</td>
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<td>2</td>
<td>1</td>
<td>0.211</td>
<td>0.55**</td>
<td>0.221</td>
<td>-0.080</td>
<td>0.323*</td>
<td>-0.236</td>
<td>0.473***</td>
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<td>-0.265</td>
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<td>0.012</td>
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<td>0.676</td>
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<td>0.208</td>
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<td>0.474***</td>
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<td>-0.316*</td>
<td>-0.665</td>
<td>0.023</td>
<td>0.153</td>
<td>0.276</td>
<td>0.458**</td>
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<td>0.003</td>
<td>0.008</td>
<td>0.295</td>
<td>0.089</td>
<td>0.731</td>
<td>0.902</td>
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<td>-0.192</td>
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<td>0.000</td>
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<td>0.000</td>
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</tbody>
</table>

Key: ***|**|* significant at 1%(5%)[10%]
Note: The variables referring to education type (field of graduation) were omitted for the sake of space.
3.3. Determinants of the demand for art house versus mainstream films: results from the estimation of the logistic model

Recalling the theoretical model (cf. Chapter 1), our main purpose here is to assess, through the estimation of an econometric model (more specifically a logistic regression, cf. detailed in Chapter 2), the determinants of the demand for art house versus mainstream cinema films (i.e., the relative demand for art house films) across the selected sample of countries. In particular, the theoretical framework allows us to assess whether individual factors (e.g., experiential motivation and consumption patterns), industry factors (namely, production quality and marketing investments), and cultural-social-structural country factors (e.g., education, occupational profiles, per capita income, and technological sophistication) are critical in explaining the demand for art house versus mainstream films. The hypotheses we aim to test are:

H1: The higher the market share of U.S. films in terms of top ten box-office admissions, the lower the relative demand for art house films across countries.

H2: The higher the degree of market concentration, the lower the relative demand for art house films across countries.

H3: The higher the investment in the marketing of domestic films, the higher the relative demand for art house films across countries.

H4: The higher the social, cultural and technological status of a population (proxied by the level of income per capita/formal education/share of creative occupations/R&D intensity in a given country), the higher the relative demand for art house films across countries.

The results of the estimation for the two thresholds considered – above vs. below 10% and above vs. below 20% – are presented in Table 5. The Hosmer and Lemeshow test indicates that the two models estimated represent ‘reality’ well, that is, there is a reasonable goodness of fit. Moreover, more that 86% of the estimated values of the dependent variable are correctly predicted by the model.

11 Hosmer and Lemeshow (1989) proposed a statistic that they show, through simulation, is distributed as chi-square when there is no replication in any of the subpopulations. This test is only available for binary response models. The Hosmer and Lemeshow Test table provides a formal test for whether the predicted probabilities for a covariate match the observed probabilities - a large p-value indicates a good match. A small p-value indicates a poor match, which means that alternative ways should be found to describe the
Measuring taste by consumption performance, we found support for the general principle that cinema tastes are likely to diverge into different patterns across-countries. Our results reveal mixed support for H1. Indeed, in the case of the model at the 10% threshold (but not the 20% threshold), the estimates for the coefficients of our individual factor show that the higher the proportion of admissions to U.S. films in the top ten box office admissions, and the higher the average admissions per capita, when controlled and keeping the other variables constant, the lower the relative demand for art house films.

In terms of industry factors, our predictions for production quality (i.e., H2) are also corroborated, but this time only in the case of the 20% threshold. In other words, when we consider as the dependent variable the dummy variable that assumes the value of 1 when the ratio of art house versus mainstream films is above 20%, there is enough statistical evidence to state that, other factors remaining constant, the larger the domestic production budget, or the higher the domestic film quality, the higher the relative demand for art house films. This finding is consistent with most previous studies which consider that the production budget is an important indicator of a movie’s quality (Prag and Casavant, 1994), and is thus a good predictor of movie attendance (Basuroy et al., 2003). Also, the empirical findings of Hennig-Thurau et al. (2006a) sustain the important impact of a film’s production quality on consumer word-of-mouth, which is a key determinant of long-run box office success.

H3 is unambiguously proven by our estimations. We found that, regardless of the dependent variable used, marketing investments emerge as a key determinant in the consumption of art house films. In other words, the higher the investments in marketing, on average, the higher the demand for art house films, keeping other variables constant. Thus, there is a high likelihood that the relative demand for art house films be predicted from the amount invested (from the total production budget) in marketing. These results are in line with findings in existing literature. For instance, Prag and Casavant (1994) highlighted the importance of marketing expenditure in determining a film’s demand and performance at the box office.

Finally, in what concerns the social-structural factors, the estimation results yielded mixed support of our hypothesis (H4). Education- and occupation-related variables failed to emerge as statistically significant, which means that for the sample of countries considered relationship between this covariate and the outcome variable. Regarding the logit model, the Hosmer and Lemeshow test as a null hypothesis corroborates the statement that the model represents reality well.
here we do not possess sufficient evidence, other factors remaining constant, that could distinguish countries according to their relative demand for art house films based on their education and occupation profiles.

Table 5: Determinants of the demand for art house vs. mainstream films – estimation results

<table>
<thead>
<tr>
<th></th>
<th>Art house vs. mainstream film ratio above 10%</th>
<th>Art house vs. mainstream film ratio above 20%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>beta est</td>
<td>p-value</td>
</tr>
<tr>
<td>Individual Experiential motivation</td>
<td>Market share in top ten box-office admissions by films’ country of origin</td>
<td>-24.551</td>
</tr>
<tr>
<td>Consumption patterns</td>
<td>Average admissions per capita</td>
<td>-2.891</td>
</tr>
<tr>
<td>Industry Production quality</td>
<td>Average budget of domestic films</td>
<td>1.464</td>
</tr>
<tr>
<td>Distribution concentration</td>
<td>Top distributors’ market share</td>
<td>3.005</td>
</tr>
<tr>
<td>Marketing</td>
<td>Marketing expenditure in overall production budget</td>
<td>50.041</td>
</tr>
<tr>
<td>Structural Field of graduation (Graduates by field of graduation in total graduates)</td>
<td>Arts</td>
<td>-159.140</td>
</tr>
<tr>
<td>Occupational classes</td>
<td>Weight of Creative industries in total (in terms of GDP)</td>
<td>-59.475</td>
</tr>
<tr>
<td>Development/Income level</td>
<td>Gross Domestic Product (GDP) per capita</td>
<td>-3.319</td>
</tr>
<tr>
<td>Technological level</td>
<td>Ratio of Research and Development (R&amp;D) in GDP</td>
<td>236.846</td>
</tr>
<tr>
<td>Constant</td>
<td></td>
<td>48,614</td>
</tr>
<tr>
<td>Observations</td>
<td>N</td>
<td>30</td>
</tr>
<tr>
<td>Countries with the domestic/U.S. firm ratio &gt; 20%</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Goodness of fit</td>
<td>% correctly predicted</td>
<td>86.7</td>
</tr>
<tr>
<td></td>
<td>Hosmer and Lemeshow Test (p-value)</td>
<td>1.511 (0.933)</td>
</tr>
</tbody>
</table>

Unexpectedly, when we control for other factors likely to influence the relative demand for art house films, the countries’ level of development emerges significantly and negatively related with that demand (although only in the case of the 20% threshold). Although
contradicting in part the idea of ‘status’ associated with higher income (or development) levels, such results may be consistent with other findings in the literature. For example, Peterson and Kern (1996) found that members of the upper-middle class have become less “snobbish” and more “omnivorous” in their tastes in recent years, which means that one of the cultural characteristics of the upper-middle class is “an openness to appreciating everything” (Peterson and Kern, 1996: 904). The omnivore’s cultural repertoire cuts across the aesthetics spectrum as their taste is developed in an open and welcoming direction (Peterson and Kern, 1996).

More in line with the predictions, the results obtained relative to the technological level indicate that, on average and other factors remaining constant, countries with a higher level of technological sophistication tend to have a higher demand for art house films.
Conclusions

The purpose of this study was to analyze the determinants of the demand for art house versus mainstream films (i.e., the relative demand for art house films) at the theoretical and empirical levels. We did so based on a rather neglected perspective, by exploring the matter from a cross-country angle.

The present study bridges previous literature on cultural consumption with the economic determinants of demand, by taking into account individual factors, such as experiential motivation and taste, with industry and social-structural factors. We thus contribute to a deeper understanding of the phenomenon of film demand, especially as an art form.

Support was found for the general principle that cinema tastes can diverge into different patterns across countries. Thus, the film patterns constructed here can be regarded as carrying certain elements of social reproduction, which means that some countries are more exclusive in their attitude toward mainstream films, while others look at films as art work.

However, in most modern societies, no art floats free of economic ties and regardless of the motivation to see a movie, all cinema-goers are looking for quality (Holbrook, 1999). Accordingly to our research, the higher quality of domestic films (proxied by the films’ average budgets) is positively associated with the relative demand for such films.

Cinema films are experience goods, and this “art” or “entertainment” experience is more marketing-driven than manufactured goods. Thus, if we want larger audiences for art house films, filmmakers have to forge new links with the audience based on storytelling, enabling them to reach beyond the basic definitions of world cinema, art house or foreign language films as blanket genres. Filmmakers, producers and marketers must have an understanding of the different film audiences, must discover how to engage them, and how to position the film appropriately by setting expectations in relation to its genre, style and aesthetics. It is important to connect “the right movie” to “the right moviegoer”.

Steeply rising costs in film production mean that even domestic films that hinge on state subsidies must be able to attract an audience of a certain size to survive (Squire, 2004), and as in most industries, selling a film without marketing is a difficult if not impossible task. Indeed, in our study, marketing investments emerged as a key determinant for the consumption of art house films. This means that larger marketing budgets positively
contribute to domestic film performance. Existing disparate evidence shows (e.g., Reinstein and Sneyder, 2005) that strong marketing campaigns are absolutely essential because consumers may seek signs of quality in advance of attending, such as good critical reviews, or other signs contained in advance publicity, marketing, word-of-mouth from others who have already seen the movie, etc. Therefore, some argue, to achieve that standing, the marketing process should begin as early as possible.

Our findings further suggest that structural factors, namely technological levels, play a significant role in creating stratified film consumption. As argued by Peterson and Berger (1975), cultural market cycles of innovation create an opportunity for competition and creativity when institutional barriers are lifted, and the global motion picture industry faces a revolution in the way films are conceived, produced and distributed. The advent of the digital era affects almost all sectors of the global value chain. The existing literature argues that access to screens for domestic films is a key problem, underlining the importance of forging state policies promoting more rapid screen digitization so as to ensure that there is a space for less commercial productions (i.e., art house films). In this line of reasoning, technological sophistication and relative demand for art house films emerge as intimately related.

Notwithstanding some contributions to the existing literature that the present study has provided – cross-country, quantitative and multivariable analysis of the relative demand for art house films – it does have several limitations and caveats. First, we acknowledge some degree of arbitrariness when setting the threshold reference ratio for the dependent (dummy) variable. However, we try to mitigate this potential pitfall by considering two different thresholds (10% and 20%). Secondly, our framework did not test for the importance of screens by type of film. Although we made every effort to find this information, there is presently a lack of data for eight countries in our sample, which hampered the inclusion of this variable in the multivariate estimation. Thirdly, interesting film industries in countries such as India and Nigeria had be excluded from this study as it was very difficult to obtain reliable and comprehensive industrial data.

To sum up, all the caveats and limitations pointed out above reinforce the need for additional and comprehensive research regarding the demand for art house versus mainstream films based on data from multiple periods, multiple countries, and multiple ways of operating the key constructs of interest.
Rigorous studies and comparisons of domestic film industries spanning the commercial to the state-subsidized, the small-scale to the large-scale, and the integrated to the disintegrated, are in demand. In order to begin to understand global linkages between people and places, and the emergence of new, global practices and networks that may ultimately change the known patterns of specialization and organization of the film industry, it is necessary to take the growing global diversity of countries within the film industry seriously.
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