Operating Within Legislative Restrictions Marketing Funds for Urban Restoration Supporting the Fight Against Aesthetic Pollution

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A novel marketing approach operating within legislative restrictions such as the prohibition of outdoor advertising in a city environment is suggested. The case examined is the city of Athens. The purpose of this study is to present a modified model of internalizing external costs caused by the operation of a manufacturing unit in conjunction with a new reality created. The model is shaped by means of marketing practices. The environment is characterized as a public good. Contingent Valuation Method and expert opinions were used to evaluate the effect of aesthetic pollution and estimate the potential of our proposal. The proposal describes an exemplary collaboration between private and public sector that brings multiple benefits without burdening any social group, on the basis of a Pigouvian subsidy scheme for renovation of city building facades, including motive to encourage advertising on the scaffoldings used for the renovation (which is allowed by law). Advertisers will place advertising screens on the scaffold while revenues from advertising will fund the renovation of the facade of the building. The suggested solution combines two seemingly competing activities of the city, outdoor advertising and the aesthetic reconstruction of building facades. Activity is transferred from micro- to macro-economic level, while at the same time Pareto criterion of optimality is met.

Keywords: marketing, aesthetic pollution, taxation

Introduction

Outdoor advertising is an activity that causes aesthetic (Flad, 1997) as well as material pollution (posters, billboards, sticker material, etc.). In Europe alone, there are between two and eight million billboards displayed at any given time and this number is constantly growing. Every two weeks, over six million square meters of poster paper are thrown out. The paper is not recycled, the ink is not eco-friendly, and the glue used is toxic (ECOBORD, 2014). Due to this, billboard advertising has a disastrous effect on the environment and this issue needs to be addressed. The negative effects are pronounced on large urban centers, such as Athens. For many years, the Greek Capital faced the problem of unrestrained advertising. The

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situation led to a legal ban and final dismantling of outdoor advertising. Businesses and advertisers no longer find legally physical space to display their products. One way out is the online advertising. The online advertising however does not fully cover the needs of the advertiser since a number of social groups (e.g., the elderly) have no—or limited at best—access to electronic technology. Consequently, the justified concern for aesthetic enhancement deprived the possibility of advertising to businesses and led to income loss for dozens of employees.

On another note and completely unrelated to the above, the aesthetic state of the city of Athens is scarred by the poor condition of the facades of a great number of private or public buildings. The dark gray and black color (literally) dominates the streets of large areas of the city, creating an atmosphere of depression. On certain streets sunlight is “stifled” between “black buildings”. Many buildings of great architectural value lay convicted under the “gray” pollution accumulated over decades. There is a strong relationship between the perceived lightness of a building and the opinion that it is dirty (Brimblecombe & Grossi, 2005). Blackening of light coloured fabric eventually reaches a point where it becomes publicly unacceptable and raises pressure for cleaning (Hamilton & Mansfield, 1992). This aesthetic, more specifically, visual pollution has an important-albeit undefined-cost to the social and financial life of the Greek capital.

A relevant subsidies program with the name “ΤΙΠΟΣΟΨΗ” (“Façade”) was put in place by the Municipality of Athens. The aim of that program was the improvement of the city’s general aesthetic. The effect of this effort was negligible, with the vast majority of the affected buildings remaining in this plight. In the mind of the public, external renovation of buildings is a difficult or even impossible goal. Planning authorities have a statutory responsibility to plan for the sustainable development of their areas, not only primarily through the development plan process but also through local area plans. Nonstatutory framework plans and site development briefs can supplement but can not replace the function of statutory plans (Government of Ireland, 2009).

Formulation of the Problem

Building darkening due to particle deposits is up to a point a negative externality, since the property owner is not responsible for the air pollution which is a major factor of the process. On the other hand, fouling due to time passing, as well as damage and corrosion has to be dealt with by the land owner. The result is an aesthetically polluted neighborhood and—by extend—city. This pollution affects the city functionally and financially, thus becoming a negative externality itself from the city’s point of view (Hochman & Ofek, 1979). Being hard, even impossible to pinpoint the responsible for this externality, the burden for its internalization is left mainly on the land owners and in many cases they are just not willing—or simply cannot afford to pay, leading to total or partial neglecting of the necessary restoration.

Outdoor advertising on streets, building walls, and terraces is prohibited by law in Greece. This caused a crucial blow to an already struggling sector, especially the last five years of recession and led to job losses and shrinkage of the industry.

Historically, the regulation of outdoor advertising has prompted a surprisingly prodigious amount of controversy and litigation. It has been challenged as a denial of free speech, due process, and equal protection. It has been upheld on nuisance and real property grounds, and sustained on the basis of public health, safety, morality, comfort and convenience, aesthetics and the right to be let alone (Sutton, 1972). The argument against outdoor advertising which appears most often focuses on billboards’ adverse visual and aesthetic impact on the

surrounding community. Advertising billboards are openly accused for “visual pollution” and how they “desecrate the landscape” (Flad, 1997).

In a study regarding the impact of billboards on real estate prices in the city of Philadelphia, USA (Snyder, 2011), it was revealed that properties purchased within a small radius of billboards have a significant decrease in sale price and the correlation is statistically significant ($p \leq 0.05$). Further, the analysis reveals a correlation between billboard density and home value. Billboards negatively impact home values.

There is compelling evidence that distraction is a major contributor to crashes (Lee, McElheny, & Gibbons, 2007; Wang, Knippling, & Goodman, 1996; Stutts, Reinfurt, Staplin, & Rodgman, 2001; Klauer, Dingus, Neale, Sudweeks, & Ramsey, 2006). The studies that have been conducted show convincingly that roadside advertising is distracting and that it may lead to poorer vehicle control. However, the evidence is presently only suggestive of, although clearly consistent with, the notion that this in turn results in crashes. Studies provide direct evidence that roadside advertising plays a significant role in distraction based crashes which are currently not available. A review by Austroads (2013) identifies the issue of distraction due to roadside advertising, but suggests that it is reasonable to conclude that far less than 1% of all crashes and near crashes involved distraction from roadside advertising.

Methodology

Contingent valuation method. In this research, the Contingent Valuation Method (CVM) was used (Carson & Mitchell, 1993). Questioners were distributed to residents of selected neighbourhoods of Athens, in order to estimate their willingness-to-pay to support restoration projects on their neighbourhood and other areas in central Athens. The questioner format aims to probe the general attitude of citizens on restoration projects and extract quantitative data in monetary units on how they value abstract ideas such as visual pollution. Additionally, it screens citizen preference on alternative strategies for urban environmental improvement. Preferences of people are examined by asking people directly their Willingness to Pay (WTP) or Willingness to Accept (WTA) a change in environmental quality.

The survey is part of an on-going wider study regarding the aesthetic pollution of the city. Since it is not formed to investigate solely the idea presented here, the quantitative data analysis is out of the scope of the present work and therefore is not presented. It presents only qualitative conclusion on “discomfort levels” due to aesthetic pollution from building facades darkening and an estimate on WTP/WTA.

Getting expert opinions. To acquire the views of experts in the fields of advertising and real estate market, telephone interviews were conducted.

Six professional advertisers were interviewed. Specific questions were addressed. Advertisers were questioned whether they would be interested to advertise on scaffolding if it is legal and if there is a relevant municipal program in place for the restoration of building facades, what would be the amount considered reasonable to allocate for the period that the restoration will last according to the size of the building and the time (for example, a seven-storey building with a width of 15-20 meters and for one month), what type of advertising they consider the most appropriate for scaffolding (general commercial or industrial), and finally asked what was their opinion on the operation of such a venture.

Eleven realtors were interviewed. They were asked on the real estate price trend on specific areas in Athens and Kozani, before and after restoration or improvement project on the area. They were asked on the importance of the facade state and how it is affected by darkening.

Towards a Solution of the Problem

Results

Regarding the CVM questioners, the answers show two seemingly contradicting trends. The majority of residents are annoyed by the visual pollution in their neighbourhood and believe that restoration programmes are the key to the solution. They seem, however, not willing to pay—or at best, willing to pay very little (around 20-30 euros each in average)—for the improvement of the aesthetic of their environment.

Also, advertisement experts, after admitting that outdoor advertisement is aesthetically unpleasant but it was (and still is in some cases albeit illegal) a substantial percentage of their income, were in general positive to the idea of scaffolding advertisement. Two of them suggested that electronic screens are the best way to go, since moving images attract more public attention. They raised concerns regarding the cost, considering that the restoration of a seven-storey building façade (working example) will last roughly a month and would cost 12,000 euros or more. They unanimously agree that the endeavour would be successful only if a relevant municipal scheme is put in place, organising the activity, offering support in the form of a subsidy, and buffering any “price war” that might arise between marketing firms, something that would cut out small firms from the deal.

Realtors unanimously verified the hypothesis that aesthetic degradation of a location leads inevitably to lower market value of the neighbourhood properties. The opposite happens when the aesthetic value of the location is improved by restoration projects, with the land property prices following an upward trend. They generally agreed that properties next to billboards or on neighbourhoods that unrestricted outdoor advertising is in practice have lower prices. They unanimously agreed in the most emphatic way on the positive correlation between the price of the property and the appearance of the building facade, especially the shading of the colour. As one realtor said: “No one will buy a flat on a dirty building”, proving that in his mind a darkened façade implies an overall unclean building.

Aesthetic Pollution and Urban Restoration

The valuation of aesthetic pollution from buildings in the centre of Athens can be made with the tools offered by the environment economics. Environmental economics, as a branch of economics, has a parallel course to the general economic theory at least since the 18th century. Each resource alone or in combination with others can be used in alternative ways. The problem that arises is how natural resources are distributed optimally on options presented. To establish a conceptual framework for our working hypothesis, it is assumed that environmental issues are basically microeconomic problems (Tye, 1985; Kinnaman, 2013). Consequently, their examination involves the use of basic concepts and analytical tools of neoclassical microeconomic theory. Any suggested plan must satisfy the principles of sustainable development: financial, social, and environmental sustainability.

The trend of area redevelopment first appeared in Western European metropolitan areas, particularly in cities with heavy urban heritage and fewer suburbanization tendencies. In the late 60s, the demand for maintaining/upgrading of the cultural heritage in cities or regions with strong historical character was vocalized. At the same time, existing models and methods of urban development were challenged (Loures, 2015). During that period the renovation of the Jordaan district in Amsterdam and Harlem and VINGO in Stockholm began. In North America, an area with lighter urban tradition, the reuse of central areas for housing occurs largely combined with the questioning of the suburban model from an economic perspective. The oil crisis made the

middle class realize the advantages of the central areas. Residential rebirth of neighborhoods developed in the 19th century, with massive renovation of old residential buildings, cannot be classified as redevelopment in the sense of total intervention in the public and private urban space, it gives however a vivid picture of the problems arising from upgrading a low-income strata residential area to a high income one (Karadimitriou, 2013). Similar cases, but in milder form, appeared in European cities, such as Maris district of Paris.

Redevelopment projects of building facades have already been completed on five locations in the city of Athens. In those cases private companies, acting as donors, played a pivotal role. Moreover, seven building blocks located at Prospsygika Dourgouti area were completely renovated with funds deriving from private sponsors and the Municipality of Athens. More specifically:

- (1) Varvakeio Market, sponsored by “LIQUIMAR TANKER MANAGEMENT SA”;
- (2) Pangratiou square, sponsored by the company “Titan AE”;
- (3) Athanasios Kanellopoulos square, sponsored by “VIOHALCO GREEK COPPER AND ALUMINIUM INDUSTRY”;
- (4) Dexamenis Square, sponsored by “TERNA TOURIST AND SHIPPING COMPANY SA”;
- (5) Madrid square, sponsored by “TOYOTA HELLAS SA”;
- (6) Dourgouti Area, sponsored by the companies “J&P Avax SA” and “ATHINEON SA”.

The Case of the Municipal Garden at Kozani

In an attempt to screen a quantitative correlation between the aesthetic upgrade of a location and the benefits acquired by the land owners, the neighbourhood, and the municipality it is relevant to refer to the positive effects by the creation of the municipal garden at the city of Kozani, effects reflected at neighbourhood as well as city level. The decision to reform the former military camp, placed within the urban area of Kozani, was a turning point for the wider upgrade of the region, from the point of utilising the existing space as well as promoting the construction of new infrastructure, leading to the redevelopment of the area and eventually the creation of a “cultural neighbourhood”, a centre for multiple activities just a short distance from the commercial centre. The construction of the garden with all its technicalities marked the beginning for the aesthetic improvement of the area as well as its enrichment with cultural and sporting activities with substantial benefits that exceeds the scale of the neighbourhood and reaches the scale of the entire municipality.

Regarding the impact of the project in financial terms, two factors should be considered: (a) the increase of the neighbourhood property values and (b) the additional municipal revenues due to the activities in the region. Following an investigation on real estate pricing from agencies activated at the city of Kozani, the years between the construction of the park and the burst of the financial crisis, the real estate values were steadily increasing for properties in the vicinity of the municipal gardens. Specifically, the average land price in the region within 2002-2004 amounted to 500 euro/sq.m. This value increased to 600 euro/sq.m. in the next few years, an increase of 20%. According to city realtors (six experts who replied anonymously to a telephone inquiry), real estate property values have trended upward, estimated that it would have risen even further if not for the financial crisis in 2009 which marked a sharp decline in construction activity and a consequent drop of commercial prices for land and buildings properties. Despite the recession though, prices have not dropped to levels below those of 2004. Further, according to the same realtors operating in the region, while rental housing prices follow the general downward trend in prices, the neighbourhood rents remain relatively high, even higher than the city’s commercial centre.

Discussion

It is obvious that the effect of the restoration of a neighbourhood, either by restoring the buildings or improving existing space is—as it was expected—positive in general, both in economic as well as environmental and aesthetic terms. Property values go up, recreational and cultural activities are boosted, the commercial activity is healthier and the satisfaction level of residents and visitors is increased. Property value and social containment are negatively affected by the “darkening” of building facades as well as outdoor advertising. The obvious course of action should be the removal of the negative factors and the promotion of the positive ones. The necessary restoration (painting and/or cleaning the facades) has a cost. Further, the ban of outdoor advertising deprives physical space from the marketing industry, leading to income loss and increased unemployment among the industry professionals. It is pivotal to emphasize that the proposal presented here is applicable only when and where there is legislative restriction to outdoor advertising.

A Pigouvian subsidy scheme can be established on the grounds that the activity would generate external benefits, or else positive externalities. The externality caused by time and pollution, affecting the property owners directly and the city indirectly (as shown above), is in turn, internalized mainly to the advertised parties. As the marketing experts pointed out, the advertised parties would be more willing to participate if they can demonstrate corporate social responsibility (CSR) (Miles & Govin, 2000). And CSR is a source of competitive advantage (Porter & Kramer, 2006). The private provision of public goods can generate value (McWilliams, 2011), and urban environment is a public good. Subsequently, the necessary investment on advertisement becomes also a tool to demonstrate CSR.

Conclusion

The present proposal describes an exemplary collaboration between private and public sector, presenting multiple benefits without burdening any social group. Energy is transferred from micro to macro level of economic activity, elevating practices from unit to the sum. According to V. Pareto condition an activity is beneficial to society when it improves the socioeconomic status of individuals, without a corresponding worsening of the socio-economic situation of others. Only thus, activities tend to maximize social welfare and the Pareto criterion is met. The activity benefits the sum of society without harming any of its parts. The case combines issues addressed by different disciplines, such as marketing, natural resources management, and public economics for reaching the socially optimal solution.

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