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Evaluation of Urban Improvement on the Islands of the Venice Lagoon: A Spatially-Distributed Hedonic-Hierarchical Approach

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Evaluation of Urban Improvement on the Islands of the Venice Lagoon: A Spatially-Distributed Hedonic-Hierarchical Approach

Summary

This paper presents a model for the evaluation of environmental and urban improvements on the islands of the Venetian lagoon. The model simulates the changes in residential real estate values using a value function integrated in a geographical database which provides spatial distributions of values changes. The fairly weak market signals, fragmented demand and strong externalities, and the scarcity of market data available do not permit the use of econometric models for value appraisal. Appropriate hedonic-hierarchical value functions are calibrated on the basis of a *set* of indicators of the characteristics of the buildings and the location. Some applications of the model are illustrated simulating two scenarios of future interventions which are actually being discussed or realised and involving the island of Murano, Burano and S. Erasmo in the Venice Lagoon. The interventions considered are: subway beyond the lagoon connecting Murano with Venice and the mainland, and the solution of "high water" problems on Murano, Burano and S. Erasmo.

Keywords: Public work assessment, Property value, Hierarchical analysis

JEL Classification: R21, R31

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0. Introduction

The economic evaluation of the environmental and urban improvement is a topical subject and has registered an impressive number of methodological and operational contributions in the last decades. The methods proposed include some which derive a monetary value of the utility produced by public interventions from variations in the market value of private goods, especially residential properties. In fact, dwellings are complex goods, whose value depends on many factors, among which the quality of the environment and services in the area plays a fundamental role. Immobility renders the value of housing extremely sensitive to externalities (Curto, 1993; Rosato and Stellin, 2000), so the analysis of the factors influencing the value can be useful for identifying and evaluating the social appreciation of the protection of public goods and services (Garrod and Willis, 1992; Scarpa, 1995; Chattopadhyay, 1999). Modifications to property values - surveyed or estimated by a simulation of the property market - thus become an indicator for estimating the value created by urban improvement.

The model developed in this paper is the result of a collaboration between scientists of different disciplines and integrating two different approaches: a simplified procedure developed for the economic valuation of environmental improvement (Rosato et al., 2002) and an ecological evaluation model in a GIS (Geographical Information System) environment developed to analyse the relations between land use and biodiversity (Giupponi and Coletto, 2003). Two clearly very different contexts, which however present good synergies, the former in providing tools for economic analysis and valuation, and the latter in providing the methodology for setting up, interpreting and modelling functional relationships between georeferenced "events" (i.e. information about prices of residential properties) and their, current or future/possible, local context, by exploiting the spatial data processing capabilities offered by the GIS.

The idea behind this work was that of analysing how advanced methods of geographical modelling can be integrated with economic valuation methods to produce synergies that can improve and simplify the economic valuation of public investments.

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The economic model used in this paper is based on a "hybrid" value function developed using multiple criteria analysis and is sufficiently precise to evaluate the impact on property value of small variations of environmental quality.

The definition of the model requires identification of all the elements which influence the market value and their weights in the specific local situation. To identify these elements and their weights, local property market experts were asked for their opinions².

The evaluation model was encoded in a Geographical Information System (GIS) that manages the spatial relations between objects (e.g. buildings, public works, environmental goods) and a set of digital maps of the northern part of the Venice Lagoon created *ad hoc* for this purpose³. On this basis it is possible to analyse and simulate the interactions between the territorial system and market realities, i.e., in this case, to analyse the effect of environmental variations induced by public works on the value of the property stock. The integration of GIS and evaluation model is particularly useful and efficient for analysing the property market because property values depend a great deal on location.

The above described model was applied to the evaluation of some hypotheses of urban and environmental improvement works on the main inhabited islands located of the Venice Lagoon: Burano, Murano and S. Erasmo.

The paper is organized as follows. Chapter 2 gives a short overview onto the geographical context in which the model has been implemented, the major islands of the northern part of the Venetian Lagoon, Chapter. 3 is dedicated to methodological aspects of the hierarchical model, a description of the GIS model realised follows in Chapter 4, and Chapter 5 describes the simulations and the results, leading to the conclusions of Chapter 5.

1. The case study

The three islands considered within the research, Murano, Burano and S. Erasmo are situated north of the historical centre of Venice. Their local contexts within each island differ greatly in terms of position in the lagoon, property characteristics and services. Murano is very close to the city of Venice, while Burano is much further away. S. Erasmo is in an intermediate position, but is rather isolated. Access from the mainland to Murano is from Tessera, using the airport links, whereas

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² Interviews have been carried out with real estate agents operating in Venice familiar with the specific situation of the islands. The authors would like to express special gratitude to each of them, and especially to Riccardo Maione.

³ The authors are grateful to the Urban Planning Board, and the Tidal Forecast and Signalling Office of the Venice City Council, CORILA and INSULA for making their digital elaborations available.

connections to the mainland of Burano and S. Erasmo are situated on the Cavallino coast, landing at Treporti and Punta Sabbioni.

A second distinguishing element of the three islands is property characteristics and their land use. S. Erasmo is essentially a farming island with few inhabitants and most dwellings, with the typical characteristics of rural buildings, scattered between the cultivated fields. In the centre of the island there are few buildings and minimal public and private services: bank, church, one shop. For other services, the inhabitants of S. Erasmo depend on other islands and the mainland (Treporti and Cavallino). Murano bears many signs of the glass industry: there are large factories, now almost entirely abandoned, and residential buildings, few of which date back to pre-industrial times. Burano has maintained the characteristics of an old fishermen's settlement, with the traditional lagoon morphology along the canals and fields, and with fairly small buildings. The services are much more complete on Murano and Burano where daily needs, both private (shops, banks, etc.) and public (schools, primary health care, local council offices), are met.

The real estate market of Murano is in some way linked to that of the city of Venice: it follows the same trend but has lower quotations. The residential market of the island of S. Erasmo and, to a lesser degree, that of Burano is instead almost exclusively limited to the resident community. Especially on S. Erasmo, where sales are rare, the estate agents seldom learn about transactions between the islanders. However, on S. Erasmo the purchasers often come from outside the island. This demand comes mainly from residents of the historic centre of Venice searching for a second home for weekends or short holidays and for indulging in hobbies linked with nature (gardening, horticulture, small animal or fish rearing). It is particularly interesting for the present approach as it better evaluates the quality of the environment surrounding the buildings, and the market results more transparent because for these transactions professional help is frequently requested, so that real estate agents are able to depict the situation more precisely. Because it is tied to local demand, the agents declare that this market, unlike that of Murano, has not been substantially involved in the recent boom in property values that has occurred in the city of Venice.

The two types of demand consider different factors in the formation of market values. The residential demand considers the ease of reaching the island from the city of Venice and from the mainland and the location within the island, while the demand for second homes, which is less dependent on systematic transfers (work, study, etc.), gives less importance to these aspects. In contexts like S. Erasmo the availability of a private boat berth also appears to be important, as boats compensate for scarce connections of public transport and can be used for leisure trips around the lagoon. Public transport from the city of Venice connects the islands with the Fondamente Nuove area, with services varying a great deal from island to island: Murano has more than 200 daily

connections with the city of Venice, while the number drops to 43 for Burano and 26 for S. Erasmo. Travelling times are 15 min for Murano, 30 for S. Erasmo and 40 for Burano. The islands are also connected to the car-parks at Treporti (for Burano and S. Erasmo) and the International Airport (for Murano). Given the size of S. Erasmo, the centrality with respect to the island and three landing stages is of greater importance than on Burano and Murano, where distances are fairly short and all parts of the islands are within walking distance.

Another important factor indicated by the experts regards the size of the property: given that the demand on the islands does not appear to be very moneyed, the size limit of properties which are easily sold on the market are quite low^4 : the optimal size is generally around $60 - 70 \text{ m}^2$. On S. Erasmo, this arouses interest in rustic outbuildings or anyway small buildings that can be renovated for residential use. Land suitable for vegetable growing, channels for fish-farming, the proximity to hunting or natural areas also appear to be much appreciated. For Burano and Murano the historical-architectural context and open spaces that can be used as gardens or vegetable patches are more appreciated. The residential demand also assigns a lot of weight to the availability of services such as shops, banks, schools, health services, etc. Lastly, the level of exposure to high water is an important factor for residential demand, penalising buildings located in frequently flooded areas.

2. The economic valuation model

The economic valuation model developed in this work is an improvement of a prototype previously set up to evaluate ex ante the impacts of improvement works planned on the island of S. Erasmo (Rosato et al., 2003). In that case, the estimate of the value was based on a function that generates the value of the properties, using the pair wise comparison approach for determining the weights of each characteristic on the market value and subsequently calibrating the model on the local property market data. This study uses the same approach, revising the variables and parameters of value function on the basis of new and more precise information gathered from experts and in relation to the specific characteristics of the islands of Murano, Burano and S. Erasmo.

Residential property values depend on many characteristics, each of which is appreciated in a different way on the market (Rosen, 1974). Modifications of any of these characteristics produce variations of the market value. The market prices of the properties can therefore be analysed by a breakdown of the specific characteristics of each dwelling and corresponding prices. This analysis

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⁴ This is confirmed by the fact that in recent years large houses (and consequently higher priced than normal) have remained unsold.

of the "composition" of the properties and relative prices can be used to identify the marginal price corresponding to given characteristics, in this case those of the area where the dwelling is situated.

Having said that, the variation in values induced by an upgrading intervention on a given site is equal to the sum of the variations in value that have been verified for each of the buildings on that site, i.e.:

$$\Delta V = \sum_{i} \Delta V_{j} \tag{1}$$

where:

 ΔV = difference in value on the site induced by the investment;

 ΔVj = difference in value of building j before and after the work.

The difference in value of each building j can be measured in terms of value per m^2 , thus allowing a comparison with other buildings. The difference in value derives from the size and the difference between the unitary value with and without the public investment:

$$\Delta V_{j} = D_{j} \left(V_{uic} - V_{ujs} \right) \tag{2}$$

where:

 D_{j} is the size of the property unit j (m²);

 V_{ujc} represents the value per m² of property j with the investment.

 V_{uis} represents the value per m² of property j without the investment;

As mentioned above, this procedure is based on the hypothesis that the value per m² of properties can be expressed as a function of their characteristics. That is:

$$Vu_{j} = f(x_{ij}) \tag{3}$$

where:

 Vu_{j} is the estimated value of the *j*-th good;

 x_{ij} is the state of the *i*-th characteristic of the *j*-th good.

Now the basic problem is the construction of the value function $f(x_{ij})$. The approach proposed uses a multiple criteria evaluation model, fed by judgements from experts, and calibrated on the basis of available market data. The estimate of the value function requires two stages: the first estimates a cardinal indicator function, I_j , of the characteristics of the good, through which to create a *ranking* of the goods being evaluated: $I_j = g(x_{ij})$; the second estimates a function $h(I_j)$ which gives a monetary measure of the value:

$$Vu_i = h(I_i) \tag{4}$$

The cardinal indicator I_j was estimated using a procedure of hierarchical breakdown and recomposition of real estate characteristics that includes:

- 1) identification of all the i characteristics (x_{ij}) which influence the value of the j-th good considered;
- 2) classification of the characteristics and aggregation in criteria and/or families of criteria (A);
- 3) elicitation of the weights (*w*) which express the relative importance of the various characteristics at each level of hierarchical breakdown⁵.

The first two points were solved referring the literature on property valuations (Curto, 1993, 1994a), which has fixed and classified the characteristics affecting property value, especially residential. All the elements affecting the value were analysed and organised hierarchically. This approach permits the identification of relationships between the basic characteristics and the value, representing the way in which the market summarises and appreciates the various aspects of the considered goods.

The structure of the hierarchy model can thus be represented by diagram in form of a tree (see fig. 1).

⁵ The weights, in an additive multiple criteria model, represent the *trade-off* between the different evaluation parameters. In the case of models of the *weighted sum* type, in the hypothesis of independence of the preferences, the weights can be considered factors of scale (Bouyssou et al., 2000).

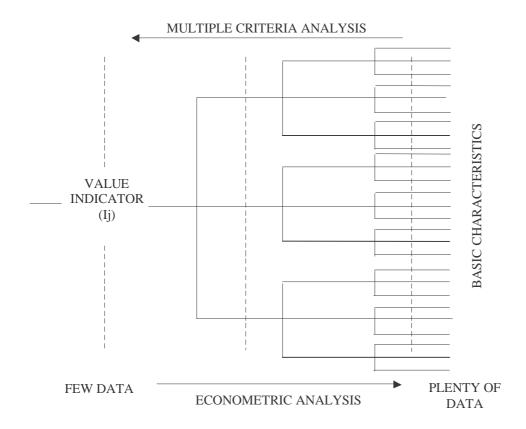


Figure 1: The structure of the value function.

The third point was solved using the pairwise comparison technique (Saaty, 1980) with the collaboration of panels of experts who expressed a judgement on the relative importance of the various elements in the hierarchy model (for details see Rosato et. al., 2003).

To gather the information necessary for organising the hierarchy model and obtain judgements on the importance of the various characteristics, some real estate agents working in Venice were contacted. An initial telephone survey to all the FIAIP⁶ affiliated agents operating in Venice allowed to select those who were familiar with the situation characterising the northern lagoon and specifically with the major inhabited islands (Murano, Burano, S. Erasmo). Semi-structured interviews were then conducted with the aim of obtaining a description of the market and the specific factors relevant to the local context.

⁶ Italian Federation of Professional Estate Agents

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On the basis of the information gleaned from the real estate agents, the characteristics influencing the value have been listed in a hierarchical way, grouping them according to the following classification: 1) location; 2) typology, 3) technical, and 4) economic.

The <u>location</u> characteristics include accessibility to the property from outside the island (distinguishing access from the mainland from that of the city of Venice) and on the island itself; the presence of both public and private services; the frequency with which the property is exposed to high water; environmental qualities, such as salubrity and landscape quality.

The typology factors include the type of building, its size, view, exposure and outbuildings.

The <u>technical</u> factors summarise the finishes and state of repair of the living area (floors, fixtures, plus heating, plumbing and lighting) and building (roof, walls, attics, foundations and common parts).

Lastly, the <u>economic</u> characteristics consider flexibility with regards to destination of use and the possibility of maintenance, restoration, renovation works etc., as laid down by the building regulations.

The result of this procedure is a value function $g(\bullet)$ which, applied to the characteristics (x_{ij}) of each property, allows the indicator I_j to be estimated for the considered good. Given the logic of the method, the value function assumes the following form:

$$I_{j} = \sum_{i=1}^{n} x_{ij} c_{i}$$

$$with$$

$$c_{i} = \prod_{k=1}^{l} w_{ki}$$
(5)

where:

k are the hierarchical levels considered in evaluating the contribution of characteristic *i* to the value:

 x_{ij} is the performance of the j^{th} good with respect to the i^{th} characteristic;

 w_{ki} is the weight of the i^{th} characteristic at the k^{th} hierarchical levels;

 c_i is the aggregate weight of the i^{th} characteristic.

The panel of experts organized during the research provided the fact-finding elements for the assignment of weights using the pairwise comparison technique, expressing the relative importance according to the Saaty scale of 9 levels (equally, moderately, strongly, very strongly, extremely more/less important; and an intermediate level between each of these values). The location

characteristics were evaluated first as these were considered central to the evaluation of modifications in the values associated with the environment changes. The weights relative to the location, typology and economic characteristics were then defined (Fig. 2)⁷.

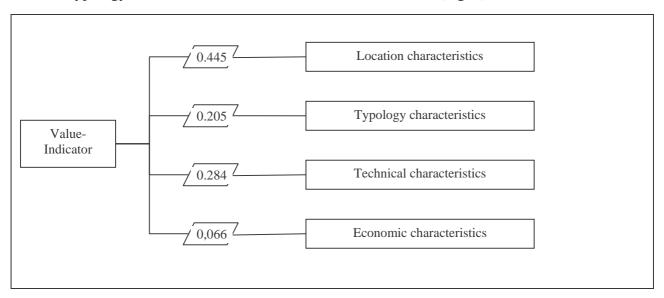


Figure 2 Hierarchy model for the estimate of value on the islands in the Venice Lagoon: main categories

The experts estimated that the location characteristics which include both elements of environmental quality and other context elements like services, accessibility and exposure to high water, contribute approx. 44.5% to the unitary value, the typology characteristics (type, aspect/exposure, size, view and outbuildings) approx. 20.5%, the technical ones 28.4%, while only 6.6% is attributed to flexibility with respect to modification of destination of use and structural interventions. Also within the typology characteristics the sub-division of weights resulted as being similar for all three contexts, with 17.3% attributed to accessibility, 2.9% to the frequency of high water, 9.7% to the availability of services and 14.5% to environmental quality.

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⁷ The initial attempt to find homogeneous value judgements for all three islands (Murano, Burano and S. Erasmo) met some resistance from the panel, who denied the possibility of reaching uniform weights for such different contexts. The preferences were therefore expressed relative to each island, leading to three separate "prototypes" of the value model. However, at the end of the evaluations it was argued that the differences between the three contexts did not translate into the weights assigned to the different categories of criteria, which resulted as being practically identical in the three models. These were therefore re-aggregated in a single hierarchy model

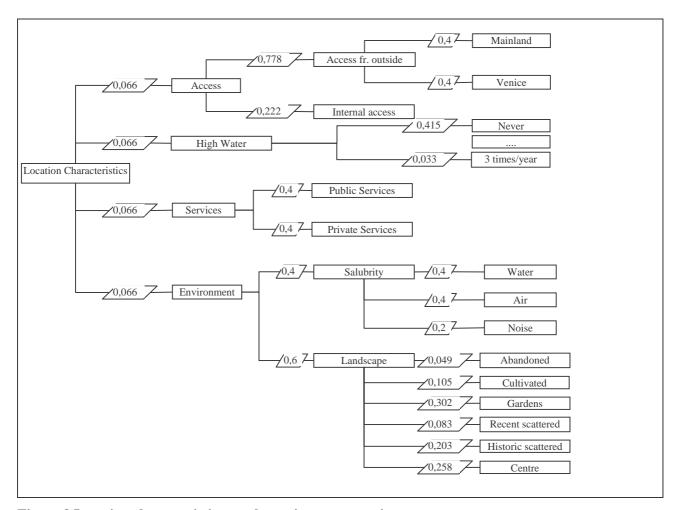


Figure 3 Location characteristics, a schematic representation

Exposure to high water assumes – as verified in a previous research on S. Erasmo alone - a relatively minor role, taking less than 3% of the total weight of the elements forming the location component of the value. Once the value indicator (I_j) has been determined for each property, its monetary equivalent is to be estimated.

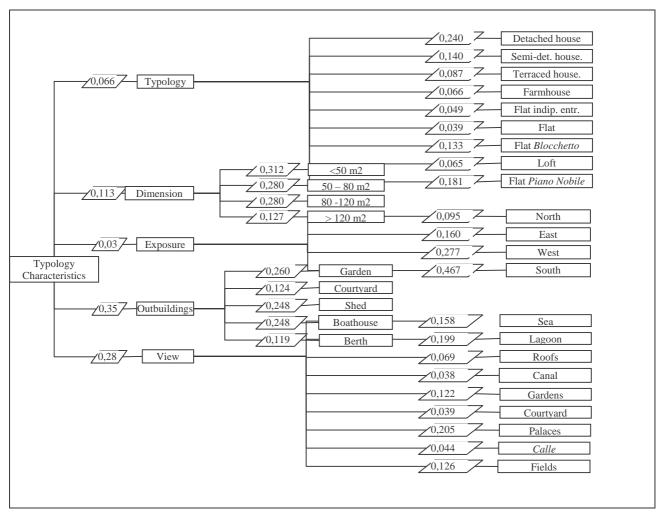


Figure 4 Typology characteristics, schematic representation

To do this it is necessary to gather market prices for some of the j^{th} goods for calibrating the function (4).

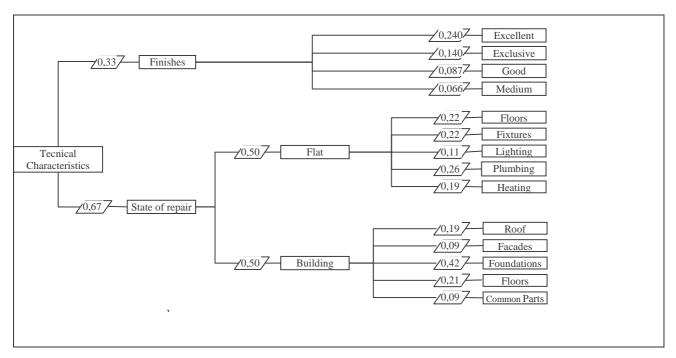


Figure 5: Scheme of the technical characteristics considered

The value function can be calibrated in different ways according to the number of known market prices: the estimate can be made by interpolation with linear or polynomial functions (e.g. *weighted sum*) or introducing function as of increasing complexity.

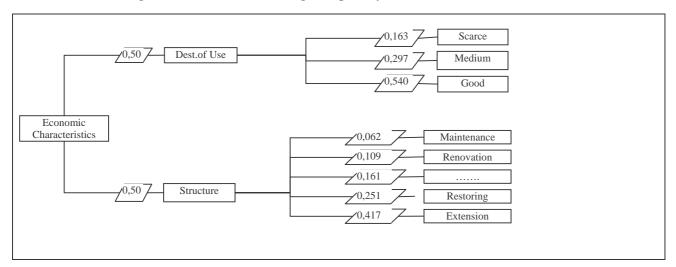


Figure 6: Scheme of the economic characteristics

The complexity of the function that transforms the value index into sums of money also depends on the number of market data available. With few data, mono-parametric procedures can be used, while multi-parametric techniques can be used when more data are available.

It should be noted that the use of multi-parametric techniques allows to shift the weights evaluation from the experts' judgement to the econometric analysis, moving from technical analysis methods towards economic analyses (see Figure 1). Therefore the more market data is available, the more aspects can be evaluated with statistical analysis. In this way a fairly flexible hybrid model was

created that can take into account aspects which would be difficult to consider in a statistical analysis and, at the same time, appropriately using the available market information.

The model calibration on the market value was carried out starting from the information (prices and descriptions) collected on the sales registered in the last year on the islands of the northern lagoon. These properties were evaluated with the hierarchical model, translating the description of their characteristics into scores using the weights given to the characteristics in the hierarchical model. In this way an overall "scoring" was estimated, which can be correlated with the price per m^2 registered in market transactions. An equation was subsequently estimated to convert the indicator of value (I_s) into values per m^2 . Given the scantiness (12) of the transactions, a simple linear interpolation of prices per m^2 and indicators calculated by the model was performed:

$$V_u = a + bI (6)$$

The parameters of the equation are reported in the following table.

Param	Coefficient	Stand. Err.	t -stat
а	375,99	145,93	2,577
b	7094,38	2002,92	3,542

Table 1: Calibration of the hierarchy model

The value function obtained provides reasonable results (see fig. 7): the market values range from $900 \text{ } \text{€/m}^2$ for properties in the hypothetically poorest condition on S. Erasmo to almost $4200 \text{ } \text{€/m}^2$ for the hypothetically best apartments on Murano (year 2003).

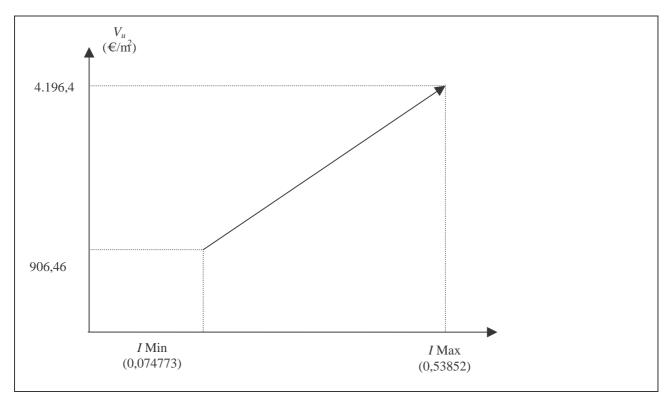


Figure 7 From value indicator to market value

Considering equation (6) the difference in overall value is equal to the product between the differences in value per m^2 of the buildings j and the relative size, i.e:

$$\Delta V = \sum_{j} D_{jc} * b \left(I_{jc} - I_{js} \right) \tag{7}$$

where:

 D_i is the size of the property j;

 I_{jc} value indicator at j with the intervention;

 I_{js} value indicator at j without the intervention.

3. The implementation of the economic model in a GIS environment

The model described in the previous chapters was implemented in a geographical information system, within which the distribution of values in the islands was mapped and the spatial distribution of variations caused by the hypothetical improvements was simulated. The GIS was used for mapping functions and, especially, for the analysis and interpretation of the data processed by the spatial model. The following functions were used:

query and filtering using Structured Query Language (SQL);

- elaboration with mathematical operators to build simple territorial models through the application of functions to the database;
- context analyses with distance operators, which generate buffer areas, least cost pathways and spatially interpolated data;
- statistical analyses for efficient processing of the input data to produce general results and concise indicators of distribution, variability, etc.

Using these procedures, the hierarchical structure of the value function was implemented into a GIS that geographically locates the relevant factors for the real estate values. The overlay of layers was implemented using the weights determined within the hierarchical model⁸.

The implementation of the evaluation model in a GIS environment faced a number of problems:

- the study, being extended to different environmental components, involved the management and processing of a large amount of data;
- the limited availability of data ready to use caused a lot of preliminary work of database construction, in order to create the missing thematic layers and to provide the interoperability necessary for spatial analysis;
- the high resolution of the maps (1 m), determined long processing times and produced large amounts of data.

The GIS evaluation procedure was organised in four basic stages: in the first the model inputs, i.e. the thematic maps of technical parameters of the evaluation, were collected,. In the second stage the evaluation procedures of the "weighted linear combination" type were structured and solved. The third stage consisted in simulating the two scenarios that represent possible future environmental changes and their effects on the property value on the three islands as a whole. In the last stage the value variations of the residential properties induced by the improvement scenarios were calculated.

The procedures were created within the *Macro Modeler* function of the GIS Idrisi Kilimanjaro software, a graphical modelling environment in which it is possible to assemble and run multi-step analyses (fig. 6). The entire logical procedure for analysing the problem and solving it can thus be visualised and edited and re-processed at any step, in a consistent and transparent way.

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⁸ To integrate the location, typology, technical and economic characteristics of the hierarchical model in the GIS model, for each island, constant average characteristics were taken for all the buildings, attributing, as a first approximation, the same values for the typology, technical and economic characteristics to all the buildings of the same island. This assumption could be refined in the future with the identification of homogeneous areas for building/urban characteristics, or by creating a detailed database for each residential building on the islands.

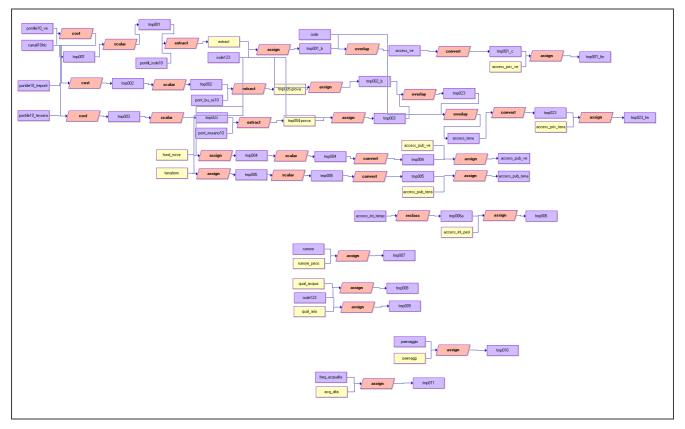


Figure 8: The Macro Model used for the creation of the maps

The first drawing-up stage of the input maps involved an onerous preliminary phase of acquisition of the basic data and data pre-processing, which led to the formation of a GIS structured according to the evaluation model.

The maps representing the location factors created were:

- 1. internal accessibility (time);
- 2. external public and private accessibility (time);
- 3. landscape (classes);
- 4. noise (classes);
- 5. air quality (classes)
- 6. water quality (classes);
- 7. frequency of high water (events per year);
- 8. availability of public and private services (dummy);

The thematic layers created for the analysis phase are:

- 1. value per m² for each island;
- 2. residential housing (binary map and map of built-up areas);
- 3. net surface area of the residential properties,

The data base was derived from existing digital maps and from direct digitalisation, as in the case of the landscape layer⁹ or from the combination of different information sources. For example, information on land heights and frequency of high water were integrated to create the layer relating to flooding frequency. The Local Council Acoustic Classification Plan¹⁰ was used for identifying and delimiting the classes of exposure to noise on S. Erasmo and Burano, while for the island of Murano, similar buffers along the main canal banks were created *ex novo* (decreasing levels of noise proceeding from the banks to the inland).

The Idrisi module "Cost Analysis" was performed to come up with accessibility maps. At first reference points for the external and internal access for each island were identified: the main landing of each island were used for this 11 purpose. Journey times from the official public transport timetables were combined in a single "travel cost" layer with journey times on foot on the island. Similarly, but with greater complexity, the maps of private internal and external accessibility were created with a model of spatial movement in terms of progress along a route taking into account journey times along the navigable canals at the speed limit of each stretch 12. External accessibility by private transport was calculated between each island and the respective destinations represented conventionally by the landing at Fondamente Nuove, as reference for the journeys to and from Venice for all three islands and, for journeys to the mainland, by the Treporti landing for S. Erasmo and Burano, and that of Marco Polo Airport at Tessera for Murano.

Direct on-site measurements and direct digitalisation were necessary in some cases, such as for surveying the presence and location of specific public and private services for Murano, Burano, and S. Erasmo.

The construction of the subject plans described in the previous section led to the drawing-up of factor maps. These maps are produced in a raster grid format with a resolution of 1 meter. As already mentioned, these maps represent the quantitative parameters referring to the current status or the possible future situations according to the different hypothesised scenarios.

In order to be used in the evaluation these maps must be re-elaborated using functions which convert the value of every parameter in each cell into the corresponding value expressed by scores

¹² The following journey speed factors were adopted: 11 km/h for private boats (average speed limit on the channels in the lagoon) and 5 km/h for journeys on foot on the islands, and 12 km/h for journeys by bicycle on S.Erasmo.

⁹ For the landscape layer aerial photographs of the lagoon provided by CORILA and the Regional Technical Numerical Map were used, digitalising to monitor the areas relative to the different landscape categories used: historical centre, recent scattered buildings, historic_scattered buildings, uncultivated, gardens and farmland.

The plan can be consulted on the Venice City Council website on http://194.243.104.176/website/rumore/viewer.htm.

¹¹ The landing of Fondamente Nuove, Murano Museo, S. Erasmo Capannone and Burano were used as references.

deriving from the economic evaluation model. For this, an approach based on the creation of look up tables was adopted, the values of which express the one-to-one relationship between the values of the factor maps and those of the evaluation criteria, in terms of scores to be assigned on the basis of continuous or discrete value functions. This approach represents a strongpoint of the methodology in terms of facilitating the simulations as the tables can be edited or substituted to simulate the effect of different scenarios, to implement any future developments in the evaluation model or to update currently available data.

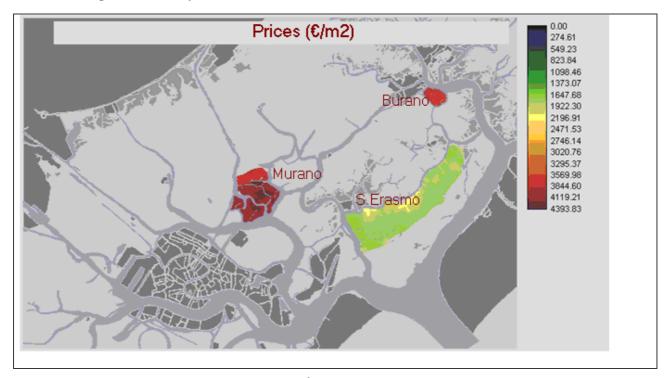


Figure 9: Map of current market values in €/m²

The hierarchical multicriteria combination of the factor maps was done, as mentioned above, with the simplest approach, i.e., the weighted sum of factor maps (criteria) on a pixel-by-pixel basis, implementing the weights determined within the economic valuation model. The global index value I was thus obtained for each cell of the analysed territory¹³, i.e., all the 1 x 1 m cells lying within residential buildings. Applying the formula of calibration (6) representing distribution of average property values per m^2 (Figure 9) The values obtained with the evaluation vary from approx 1.300 em^2 in the island of S. Erasmo to approximately 4.200 em^2 in some parts of Murano. The real estate agents operating in Venice have confirmed these values.

Average values amount to about 4.050€/m² on Murano, 3.802€/m² on Burano and 1.812 €/m² on S. Erasmo.

¹³ The Weighted Linear Combination was done using a mathematical model built with the modulus *Image Calculator* in which the summation notation operations of the products of the factor maps and relative weights were combined.

The highest value registered for the island of Murano corresponds to an inner area of the island, therefore undisturbed by water traffic, but close to the ACTV "Museo" landing stage, used as reference for evaluating the criterion of internal accessibility. The variation of the values within the island mainly reflects the different susceptibility to high water: the area with maximum values in fact corresponds to an area in which the probability of flooding is less than one event every 100 years. In the same way a second area with high values is registered, although with lower levels, to the south-west of the first area, in a relatively high part of the island (around the church of S. Pietro). For the same reason relatively high values are registered in the strip of open land to the north-west of the island (Sacca Serenella). It does not have very good internal accessibility or views, but has little exposure to high water (less than one event every 100 years).

A more homogeneous distribution of values is registered on Burano. In this case the criterion of exposure to high water did not determine any difference, in that the very few data available place the whole island below the level where at least three floods per year would be expected, thus attributing the worst value for this criterion to the whole island. The differences in values within the island are due to variations in accessibility to the ACTV landing stage, the landscape-urban characteristics and, lastly, exposure to noise, with the highest values in the western part of the island.

There is an analogous distribution, although on much lower values, on S. Erasmo. The highest values are not found in the village, but in the north-west because of the splendid view, good accessibility and height above sea level. Against this, the lowest values are registered at the northern and southern tips of the island, with the exception of the area around the Torre Massimiliana and the beach, because of the higher urban and landscape value.

Lastly, the final value map and built-up area map were combined to obtain the map of average values for each building (Figure 10) and, consequently of the building stock distribution.

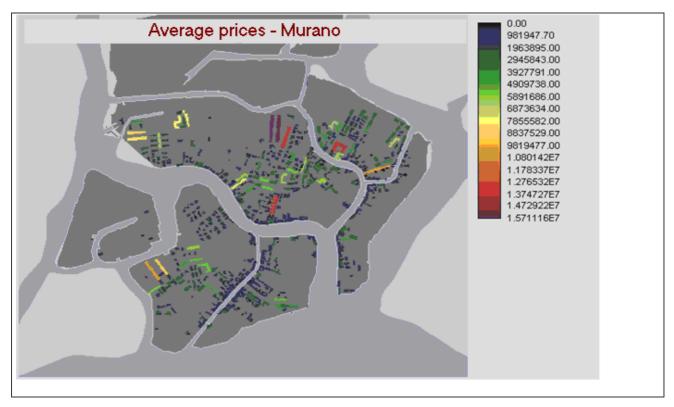


Figure 10: Map of average values of residential buildings, the example of Murano

4. The evaluation of the improvement scenarios

The model was used to estimate the effects of different public investment projects for the northern Venice Lagoon. Two scenarios of public investments which are currently under discussion or at the realisation stage and could have an impact on property values on the islands were defined: the first scenario alters modes of access to the islands through the construction of a "subway" under the Lagoon; the second eliminates the flooding problem of intermediate high water (< 120 cm), on all three islands, through widespread raising of the pavements.

The variations caused by the scenarios compared to the current situation were estimated for each indicator used for determining the value.

These changes mainly regard the location factors. Table 2 illustrates the value factors taken into consideration and the ways in which the changes foreseen in the scenarios affect the island contexts. Factors remaining unvaried are indicated with an "-", and those which slightly or significantly improve, with a "+" or a "++".

The results consist in the computation, for the whole area, of absolute values and differences of values generated by the transformations simulated. Spatial distribution of increments and decreases

as well as of absolute values can be represented in two ways: either as unitary values, or as capital values whenever the values were associated to the commercial surfaces of existing buildings.

Factors		Scenario 1 Subway under the lagoon	Scenario 2 Protection from high waters < 120 cm
	Murano	+	-
Access to Venice	Burano	-	-
	S. Erasmo	-	-
A a a a a a 41a a	Murano	++	-
Access to the mainland	Burano	-	-
	S. Erasmo	-	-
	Murano	-	+
Internal access	Burano	-	+
	S. Erasmo	-	+
Exposure to high w	vater	-	++
Public services		-	-
Private services		-	-
Air quality		+	-
Water quality		+	-
Level of noise		++	-

Table 2: Indicators considered in the outlining of the scenarios (- unvaried, + slight improvement, ++ significant improvement.)

5.1 First scenario: a subway under the Lagoon

The first scenario includes modification of the accessibility system and revival of the Arsenale area with the creation of the so-called "Città Bipolare" (bi-polar city)¹⁴. Most likely, a "subway" will connect the Arsenale with Tessera and Mestre town centre, via the Fondamente Nuove and Murano. Access to Murano would therefore be facilitated; the island would become easily and speedily reachable from the mainland and from Venice (Fondamente Nuove), and from the developing area of the Arsenale. The impacts of this new access route on the other islands of the northern lagoon could be positive and override the current access methods: integration of the point of arrival of the subway at Murano and that of the water transport system to Burano and S. Erasmo as part of a multimodal system could alter the current orientation of these islands towards the mainland of

Cavallino and make the access to Mestre town centre or Tessera more important. From the geographical modelling point of view, this scenario can be considered as the effect of a "point perturbation" on the territory, i.e. directly focussed on the access to Murano, given that external access to the island will alter significantly. Within the model of the formation of property values these transformations would regard the following criteria relative to the island of Murano¹⁵:

- Access from the mainland: the increased number of trips and shortened journey times justify
 an "optimal" judgement in place of the current "good". Access from Venice: the current
 judgement, in comparison with the other islands, is already "optimal" and would therefore
 not modify.
- Noise: the strip along the Murano Grand Canal and along the west coast of the island, which currently suffers high noise levels due to private and public transport, would obtain a better judgement, shifting from "bad" to "average".

The modifications introduced by the subway project produces a clear effect on the values on Murano due to the improvement of external accessibility. The "optimal" level is therefore reached, not only concerning the links with Venice, but also with the mainland, thanks to the more frequent and rapid connections. Estimates also increase in the strips along the major canals of the island which benefit from the reduction in water traffic in terms of reduced noise levels. The value increases generated in the first scenario, for Murano, vary from 5 to 6%, with higher values in the areas along the southern (Colonna area) and northern canals (Sacca Serenella) of the island where initial values were lower.

5.2 Second scenario: protection from intermediate high water

The second scenario hypothesises a generalised defence of the whole lagoon from high water, simulating works of raising the banks and/or defence of low-lying land on the three islands to prevent flooding were simulated with a modification of the attribute relative to the frequency with which a site is exposed to flooding. Involving the three islands, this scenario represents a general perturbation effect.

Based on projects and work underway on Murano and Burano, the effects of the interventions on areas lower than 120 cm a.s.l. were considered, while for S. Erasmo all areas lower than 160 cm

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¹⁴ The project "Città Bipolare" intends to connect the area of the Arsenale in the historic centre of Venice with the international Airport on the mainland. The connection will consist in a subway line running under the lagoon for transport of persons and goods. (http://www.comune.venezia.it/urbanistica/home.asp)

¹⁵ The effects on the other islands will not be considered because the available projects do not permit an adequate evaluation of the effective impacts.

a.s.l. were used in the simulation. On this basis, the estimate of flooding frequency reduces to once per year for Murano and Burano and once every 10 years for S. Erasmo.

The differences in values generated with this simulation are quite low for the islands of Burano and Murano: 0,1%. The effect extends uniformly over the whole island for Burano, whereas in Murano the effects are limited to some areas which lie beneath 120 cm a.s.l.. On S. Erasmo, where on the one hand the improvement is greater and, on the other, the initial values were much lower, increases vary between 5.5 and 7%, with an average of 5.9%.

The lack of incisiveness on property values estimated with the evaluation model on Murano and Burano has various causes: in first place the simulated improvement does not drastically reduce the number of floods; at 120 cm a.s.l. there is still a probability of flooding once per year. The effect is slight because the model was applied to the values of whole buildings and not just the ground floors: high water has obviously greater effect on the value of ground floor properties. Therefore higher increases would be obtained if ground floors alone would have been taken into account. Lastly, it should be remembered that this study was applied only to residential properties, so the economic effects on businesses are excluded.

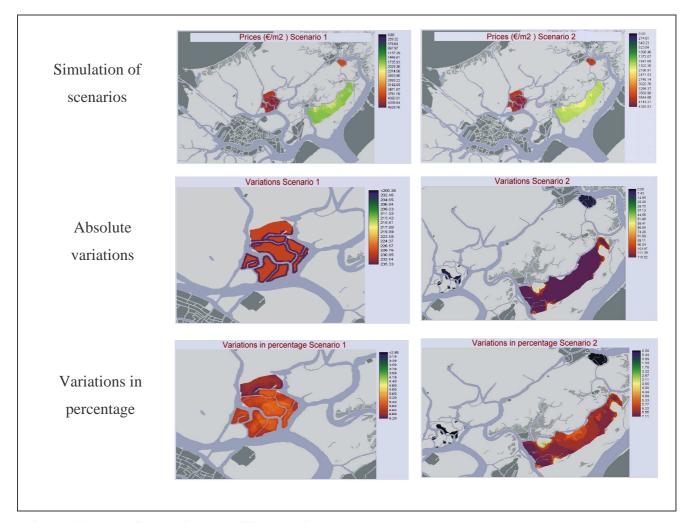


Figure 11 Maps of scenarios and differences in values generated

5. Conclusions

The evaluation model proposed for estimating property assets based on the hierarchical breakdown and recomposition of the characteristics determining the value, has provided reasonable results for the main islands of the Venice Lagoon. Although the valuations presented in the preview chapters represent a first attempt, the results can be considered encouraging for future operational application of the methodology.

The most important advantage of the model presented is the possibility to rapidly obtain evaluations of the economic effects of modifications of urban asset and showing the distributions over the territory. Actually, the integration of the economic evaluation and geographical models gave interesting synergies. The prices and their variations obtained with the application of the value function are realistic, and their spatial distribution realistically mirrors the differences observable in the island of the Venice Lagoon. Furthermore, the simulation of the interventions seems to provide realistic estimates of the economic value of the benefits produced with urban improvement interventions.

The procedure is also transparent and intuitive and fully uses all the information available, both qualitative and quantitative, and rigorously incorporates the expertise of those familiar with the socio-economic reality studied. Of particular interest is the possibility of continuously refining the hierarchical model as new market information and/or new expert judgements become available, via recalibration of the value functions and new simulations of the spatial model. At the same time, the improvement of the GIS information utilised may be realised through the integration of new databases and, where necessary, more specific surveys. The synergies between a more accurate value function and more detailed location data will definitively improve the quality of the output of the proposed procedure.

Obviously this approach has some limits which can in part be attributed to the hierarchical approach to the property evaluations, as already expressed by Rosato *et al.* (2002), i.e., its potential subjectivity which derives from the fact of being based on the judgements of experts, who, despite a careful selection of the panel, may be not entirely representative of the examined market. Regarding this point refinements of the model are to bet considered, first of all with a wider and more systematic involvement of local experts with the acquisition of more market data. This will permit a more precise estimate of the value function, moving the evaluation from the expert judgements base to the econometric one. At this regard, it must be remembered that this model cannot be considered in general as a substitute for the more accurate classic hedonic model but can provide a useful

support	when	the	low	availability	of	market	data	does	not	permit	any	other	type of	value	function
apprais	al.														

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