

## Quantitative Analysis of the Quality of Housing and Land Use in the Built-up area of Croatian Coastal City of Zadar

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**Abstract :** Housing is considered as a basic human need and important component of the quality of life (QoL) in urban areas worldwide. In contemporary housing studies, the concept of the quality of housing (QoH) is considered as a multi-dimensional and multi-disciplinary field. It emphasizes connection between various aspects of the QoL which could be measured by quantitative and qualitative indicators at different spatial levels (e.g. local, city, metropolitan, regional). The main goal of this paper is to examine the QoH and compare results of quantitative analysis with the clutter land use categories derived for selected local communities in Croatian Coastal City of Zadar. The qualitative housing analysis based on the four housing indicators (out of total 24 QoL indicators) has provided identification of the three Zadar's local communities with the highest estimated QoH ranking. Furthermore, by using GIS overlay techniques, the QoH was merged with the urban environment analysis and introduction of spatial metrics based on the three categories: the element, class and environment as a whole. In terms of semantic-content analysis, the research has also generated a set of indexes suitable for evaluation of "housing state of affairs" and future decision making aiming at improvement of the QoH in selected local communities.

**Keywords :** housing, quality, indicators, indexes, urban environment, GIS, element, class

**Conference Title :** ICHUE 2014 : International Conference on Housing and Urban Environments

**Conference Location :** Venice, Italy

**Conference Dates :** April 14-15, 2014