

POLITECNICO DI TORINO  
SECOND SCHOOL OF ARCHITECTURE  
Master of Science in Architecture for Sustainability  
***Honors theses***

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**AN APPROACH TO URBAN SUSTAINABILITY  
PROTOCOLLO ITACA'S DEPTH ANALYSIS REGARDING URBAN  
DEVELOPEMENT**

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The study and the analysis of the processes that defined urban sustainability are in the middle of the debate regarding the future and the development of a city. In construction industry there were introduced verifiable standards, which purpose is to improve energetic and environmental efficiency, while in Italy there are no national standards for urban development in this topic. The identification and the development for requirements and indicators are still in being defined.

Thesis's draft was born concurrently with *Protocollo Itaca urban* by ITACA in collaboration with iiSBE italia, an objective way to evaluate how an urban settlement is sustainable. thesis's purpose is to lay down, after depth analysis, criteria and markers for Protocollo Itaca.

This is divided in three different aspects: urban shape, environment, society and economy, all divided in eleven sectoral planning. Our research work, taking in consideration the whole Protocol, is focused mainly on the urban shape, usage of the land, mobility and bioclimate.

Thesis could be divided easily in two sections: first chapters are about historical and theoretical aspects of urban sustainability, last ones include indicators and practical application of these one in two Turin areas completely different: "Quadrilatero Romano" and "Spina3".

Research activity of this thesis could be defined as an innovative work faced to approach a change in a sustainable way of look urban planning, because nowadays these topics are in the middle on the debate regarding future and development of a city.

As conclusion of our work we can say that is important underline the need to have a national standard, based on different characteristics and necessities. actually making a comparison with other protocol is easy to see that they do not have a flexible structure.

On the contrary protocollo itaca will have adequate indicators, taking in consideration the different realities of a city.

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