



POLITECNICO  
DI TORINO

# Honors thesis

Master of Science in Architecture Construction City

*Abstract*

**THROUGH THE LIGHT OF A LIGHTHOUSE**  
**Proposal for the refurbishment of the Capo**  
**Comino**  
**lighthouse in Siniscola.**

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The project proposal object of this thesis take a cue from the initiative “Orizzonte Fari - Sardinia, developed starting from 2017 by the Agenzia del Demanio with the partnership of the Autonomous Region of Sardinia, to introduce disused assets on the real estate market through the concession instrument .

The granted buildings will be handed over to private stakeholders who, according to the lighthouse accommodation model, will transform them into accommodation facilities capable of giving an economic and tourist boost to the local level, respecting the environment and the landscape, promoting sustainable tourism.

The relevance of issues such as the enhancement of existing heritage, the conservation of architectures bearing historical and cultural values, attention to sustainability, the needs arising from the current pandemic situation, assume even more importance in this precise historical period.

Lighthouses, once indispensable elements for navigation, nowadays are very often in total abandonment, emptied of any function.

The case study addressed in this thesis is the Capo Comino lighthouse in Siniscola, included in the “Orizzonte Fari - Sardinia” call, for which an enhancement project is drawn up in line with the directives of the call, accompanied by a photogrammetric survey of the complex and a construction of a three-dimensional BIM model representing as build state.

The training received during the didactic path of the master’s degree in “Architecture and city construction” was fundamental for the construction of this thesis. By choosing the “Architecture and Structural Forms” Atelier, I interfaced for the first time with a new paradigm of mobility, soft mobility. Through my personal involvement within the MAACC student team, I was able to deepen the issues of soft mobility, cycle tourism and

environmental attention; creating a prototype of accommodation developed to meet the needs of the cycle traveler.

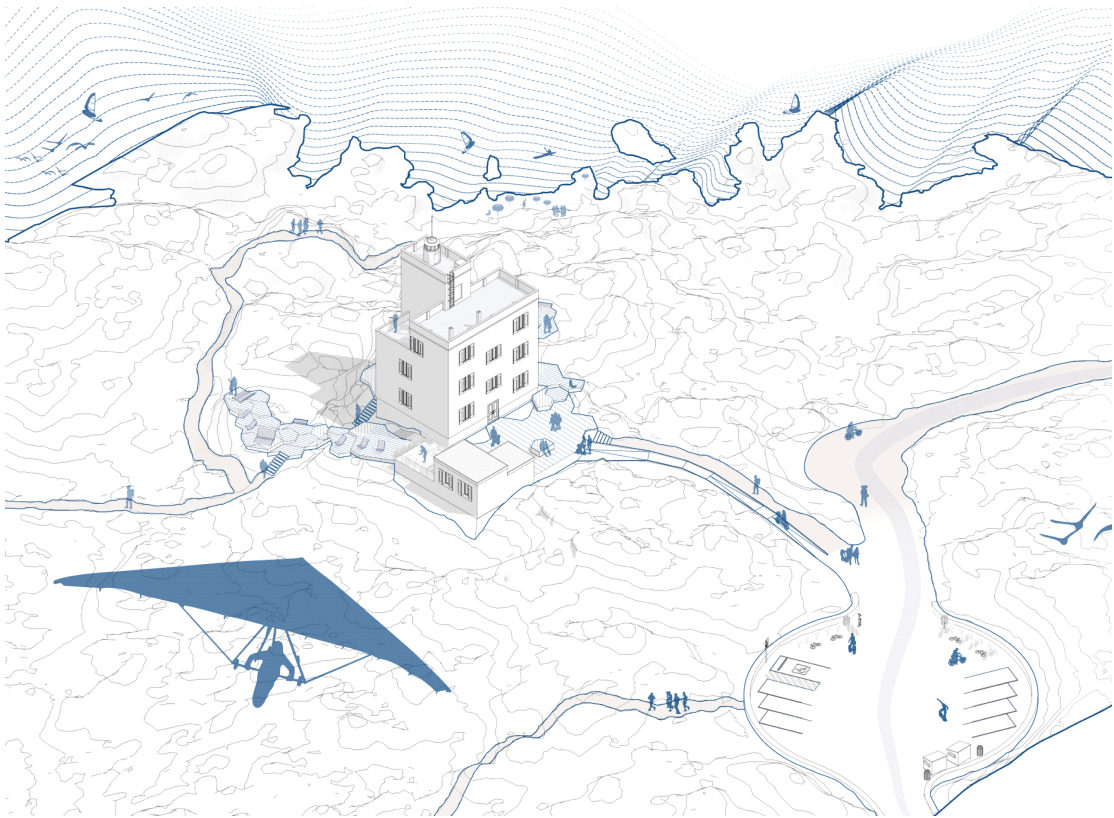
Hand in hand with my university training, I then wanted to deepen specific issues, such as that of three-dimensional modeling, photography and remotely piloted devices; through the achievement of extra-curricular courses in order to refine and expand my skills.

Having been born and raised in the plains, for me lighthouses have always represented alien architecture. For this reason it was necessary to divide the thesis into two parts: a first part, more strictly analytical, focused on Sardinian lighthouses and on re-functionalization methodologies; and a second, more operational part, which from the survey was able to develop a project hypothesis.

Thanks to a careful investigation of the site and the cycling infrastructure in the area, the project provides for the re-functionalization of the building into an accommodation facility for cycle travelers and the re design of the outdoor spaces pertaining to the lighthouse. Greater attention was paid to the usability of the goods made accessible and the preservation of the building's identity, ensuring the complete reversibility of the intervention.

The naturalistic vocation of the lighthouse area, being inserted within a site of community interest and not far from protected natural areas, can be used to make the building an ideal catalyst for the dissemination of the principles of environmental protection and education on sustainability issues, a point of reference also for the local community and not just for tourists.

The thesis ends with a reflection on the possibilities offered by the creation of a network of re-functionalized lighthouses in accommodation facilities, aids for the island's cycling tourism development, capable of encouraging territorial economic development and expanding its tourist offer.







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