



REsilient REtrofitting and REuse of Water heritage and
built environments: multi-objective Optimization
for RiSk mitigation and cultural enhancement

T1.1. DEFINIZIONE E CARATTERIZZAZIONE DEL WATERBE

D.1.1.1. Review di siti a scala nazionale e internazionale

Abstract

The built environment and the industrial heritage linked to water systems are composed of complex structures and infrastructure systems, raised close to the city and developed with them. Among these systems, the Re3Work research focuses on three specific areas, characterized by processes of progressive physical and functional obsolescence due to the overcoming of the production models for which they were conceived: ports, arsenals, and river industrial settlements.

The document aims to identify sites on a national and international scale that exemplify the productive-mercantile heritage linked to specific maritime or river landscapes and to catalogue them according to the census and cataloguing methods typical of industrial archaeology.

For this purpose, an original census and cataloguing form with three cataloguing levels was developed and used, studied in line with previous national experiences but, at the same time, peculiar to respond to the specific needs of the project, and the related database was prepared on spreadsheets, for the systematic collection of data and their analysis. Data collection was conducted on multiple sources: literature review, urban planning and territorial documents, regional geo-portals, GIS (Geographic information system) cartography, web mapping platform (Google maps), cultural heritage cataloguing databases (ICCD cards, Vincoli in Rete).

The results of the work encompass:

- ❖ Ports: the census of 63 Italian and 4 international cases; It were filed: 67 Level 1 and 36 Level 2 of the cataloguing form;
- ❖ Arsenals: the census of 10 Italian and 2 international cases; It were filed: 12 Level 1 and 5 Level 2 of the cataloguing form;
- ❖ Fluvial industrial settlements: the census of 100 Italian and 6 international cases; It were filed: 106 Level 1 and 26 Level 2 of the cataloguing form.



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