

**PROCEEDINGS**  
of the  
**INTERNATIONAL CONFERENCE**  
on  
**CHANGING CITIES V**  
*Spatial, Design, Landscape, Heritage & Socio-economic Dimensions*



Changing Cities V, Corfu, 20-25 June 2022

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*Corfu Island, Greece, June 20-25, 2022*

**Organised by**  
Department of Planning and Regional Development, University of Thessaly  
Laboraty of Urban Morphology and Design

**in collaboration with**  
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## OPENING CEREMONY

# CHANGING CITIES



Changing Cities V, Corfu, 20-25 June 2022

# Brownfields and disused factories: analysis and digital cataloguing platforms

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## Abstract

Brownfields, abandoned land that may be contaminated, are the result of the XX century's industrial economic policies and may be a useful resource to reduce the environmental costs in our cities nowadays. We need to study how the brownfields could be part of a new sustainable urban ecosystem, where the brownfields and the disused factories, which no longer have their original productive function, can have a new meaning for the urban palimpsest: they can become “nutrients” used to produce secondary raw materials and recycled building components to be reintroduced into the living chain of the urban metabolism. To meet this circular point of view, it could be useful to design practices and a technological tools able to transform the chain of recycled materials through a usable and comprehensible approach. For this reason, it is important to catalog brownfields and disused factories to analyze and model them through algorithmic tools. The paper will describe the criteria and digital tools developed to map the brownfields and the disused factories located in the industrial East area of Naples, a very polluted site, where in the last century there was an intense industrial production.

*Keywords: End of waste, industrial area, database, secondary raw materials, digital tool*

## 1. INTRODUCTION

Brownfields, abandoned land that may be contaminated, are the result of the XX century's industrial economic policies and may be a useful resource to reduce the environmental costs in our cities nowadays. First of all, we need to study how the brownfields could be part of a new sustainable urban ecosystem, where we can plan strategies to prevent land consumption, according to the principles of circular economy and based on an extended idea of urban mining. The brownfields and the disused factories, which no longer have their original productive function, can have a new meaning for the urban palimpsest: they can become “nutrients” used to produce secondary raw materials and recycled building components to be reintroduced into the living chain of the urban metabolism. Indeed, the waste resulting from the demolition of disused factories can be reintroduced into the market for construction products bringing the life cycle of buildings back to a truly circular dimension. This approach addresses the challenges of the New European Green Deal, it aims to produce and consume secondary raw materials and to reduce the consumption of land and natural resources. However, in the construction Italian sector, the end-of-waste concerning the C&D waste is struggling to take off. To meet this circular point of view, we need to design practices and a technological tools able to transform the chain of recycled materials through a usable and comprehensible approach. For this reason, it is important to catalog brownfields and disused factories to analyze and model them through algorithmic tools. We can design digital models useful to understand the consumption trends concerning the recycled components and the secondary raw materials in the construction market. We have developed a database useful to catalog brownfields and disused factories based on these considerations.