

National Recovery and Resilience Plan (NRRP) - Mission 4 “Education and Research” - Component 2 “From Research to Business”
- Investment 1.2 “Funding projects presented by young researchers” and the European Union - NextGenerationEU — Land-In-Pro |
Landscapes of Industrial Production - Documenting and Assessing 20th Century (post)Industrial Landscapes as Resources– 100027-
2022-FP-PNRR-YR_MSCA_0000005 - CUP No. D33C22001630001 – M3 – WP3



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DAD DIPARTIMENTO
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Land-In-Pro webGIS

Project Acronym:

Land-In-Pro

Project Title:

**- Landscapes of Industrial Production –
Documenting and Assessing 20th century (post)Industrial Landscapes as Resources**



100027-2022-FP-PNRR-YR_MSCA_0000005

This milestone is part of the project that has received funding from the Ministry of University and Research
General Directorate for Internationalisation and Communication – National Recovery and Resilience Plan (NRRP) - Mission 4
“Education and Research” - Component 2 “From Research to Business” - Investment 1.2 “Funding projects presented by young
researchers” and the European Union - NextGenerationEU
Project no. 100027-2022-FP-PNRR-YR_MSCA_0000005
CUP No. D33C22001630001

Start date of the project:

December 20, 2022

Duration:

36 months

Authors:

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Dr Sara Mauri, Postdoctoral Researcher

Dissemination Level:

PU – Public



Funded by
the European Union
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Milestone M3 – WP3

Authors: Dr Federica Pompejano, RTD-A (Principal Investigator); Dr Sara Mauri, Postdoctoral Researcher



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Document track details

PROJECT DATA SUMMARY			
Project title and acronym	Landscapes of Industrial Production: Documenting and Assessing 20 th Century (post)Industrial Landscapes as Resources (Land-In-Pro)		
Call reference:	Next Generation EU - NRRP - Mission 4 “Education and Research” - Component 2 “From Research to Business” - Investment 1.2 “Funding projects presented by young researchers” – MUR Public notice no. 247,19 August 2022		
Project’s code no.:	100027-2022-FP-PNRR-YR_MSCA_0000005		
Associated CUP No.:	D33C22001630001		
Project website:	landinpro.unige.it		
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Host Institution:	University of Genoa Department of Architecture and Design – DAD Stradone Sant’Agostino 37 16123 Genova (GE) Tel: +39 010 209 5904.		
Start Date:	December 20, 2022	End date:	December 19, 2025

DELIVERABLE INFORMATION	
Milestone title:	Land-In-Pro webGIS
Milestone No.:	M3
Milestone nature:	Report – Open Access
Dissemination level	PU - Public
Work Package No.:	WP3
Author(s)	Federica Pompejano (Principal Investigator) – FP Sara Mauri (Postdoctoral Researcher) – SM
Due date:	October 2025
Actual submission date:	No submission required – to be kept on file by the PI
Brief description	This report is a formal output of the Land-In-Pro project and constitutes a technical-scientific document that describes the two Land-In-Pro webGIS projects. It includes original unpublished work except where clearly indicated otherwise. Previously published material and the contributions of others have been duly recognised through suitable citation, quotation, or both.
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Milestone M3 – WP3

Authors: Dr Federica Pompejano, RTD-A (Principal Investigator); Dr Sara Mauri, Postdoctoral Researcher



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Acknowledgement	The Land-In-Pro webGIS is an outcome of a project that has been funded with support from the European Union Next Generation EU and the Italian National Recovery and Recovery and Resilience Plan (NRRP) - Mission 4 “Education and Research” - Component 2 “From Research to Business” - Investment 1.2 “Funding projects presented by young researchers” – Ministry of University and Research - MUR (Project no. 100027-2022-FP-PNRR-YR_MSCA_0000005).
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Milestone M3 – WP3

Authors: Dr Federica Pompejano, RTD-A (Principal Investigator); Dr Sara Mauri, Postdoctoral Researcher

1. Introduction

This technical-scientific report meets the requirements set out in Public Notice no. 247 of 19 August 2022, Art. 13, comma 3, letter f), which promotes the exploitation of research results and ensures wide open access to research outputs and related data, in line with the principles of “Open Science” and “FAIR Data”. It presents the main outcome of Work Package 3 (WP3): an open-access webGIS platform composed of two projects, designed to provide easy access to the quantitative and qualitative data produced and processed in the other Work Packages (WPs) of the Land-In-Pro project, and to enable their interactive map-based visualisation. Focusing on the partially decommissioned industrial site of Ferrania, located in the Municipality of Cairo Montenotte (Savona), within the broader territorial context of the Bormida Valley, the report describes the structure and use of the two webGIS projects, which offer an integrated representation of the pilot site at both landscape and architectural scales and document the traces of industrialisation and deindustrialisation processes. Section 3 adopts a bilingual (English-Italian) structure to facilitate the use of webGIS by local, non-specialist and non-English-speaking users.

2. Land-In-Pro webGIS

The Land-In-Pro project is committed to identifying, investigating, interpreting, and assessing (post)industrial landscapes and heritage as resources, critically unfolding new perspectives on conservation and reuse strategies. The two webGIS projects are formal outputs of the research activities envisaged in *Work Package 3 – Processing and harmonisation of collected data: webGIS and GIS project*¹ (WP3), and build on data collected in WP1, WP2, and WP4.

The first webGIS project, *Land-In-Pro | Ferrania Industrial Heritage (Cairo Montenotte)*, represents the online version of the GIS/DBMS developed for the pilot case study. It integrates the spatial data, photo survey, and documentation collected during the pilot site mapping activities carried out in WP2², the archival and bibliographical research results assembled in WP1³, together with a summary of the ethnographic campaigns conducted in WP4⁴.

The second webGIS project, *Land-In-Pro | Pilot-Site Historic Industrial Landscape Classification*, results from the spatial and landscape analysis activities conducted in WP3 and applied to the wider Ferrania pilot site context. It identifies and classifies, for three selected time thresholds (1944, 1974, 2024), the components of the Historic Industrial Settlement System. The resulting Land-In-Pro Historic Industrial Landscape Classification (HILC) maps the Ferrania area as a historic industrial landscape and provides a context-scale framework for reading its transformations over time.

The research activities that led to the development of the two webGIS projects were carried out in collaboration with the MARSC Lab (UniGe)⁵ for the first project and with the Geomatics Lab (DICCA, UniGe)⁶ for the second.

2.1. Purposes of the webGIS

The objective of the Land-In-Pro webGIS projects is to provide open-access digital environments that host structured and critically processed data, organising and making readable the complex set of information produced during the research project. Focusing on the partially decommissioned industrial site of Ferrania,

¹ Details on WP3 research activities are contained in the deliverables D3.1, D3.2 and D3.3.

² *Work Package 2 – In-depth investigation in a representative (pilot) case study.*

³ *Work Package 1 – Inventorying the tangible: investigating, identifying and mapping.*

⁴ *Work Package 4 – Interpretation and evaluation: development of the Assessment Tool.*

⁵ See the webpage: <https://architettura.unige.it/LabMARSC> (accessed, October 2025).

⁶ The spatial and landscape analysis is developed with the support of and in collaboration with Dr. Paola Salmona (DICCA, UniGe) and Dr. Ilaria Ferrando (DICCA, UniGe) and co-supervised by Prof. Bianca Federici.

selected as the pilot case study, the webGIS projects translate heterogeneous sources into an integrated spatial framework that functions as a scientific instrument for researchers, scholars (at different levels) and students, as well as a reference resource for a wider audience, including local institutions, cultural organisations, professionals and citizens interested in understanding the historical evolution and current condition of the (post)industrial landscape of Ferrania.

The main characteristics of the Land-In-Pro webGIS projects are the following:

- They **represent one of the main outcomes of the Land-In-Pro project**, translating the data produced in the previous WPs into an open-access spatial platform.
- The first project offers an **integrated and comprehensive representation of the pilot site**, documenting the tangible and intangible aspects of industrialisation and deindustrialisation processes and enabling diachronic comparisons across different phases of transformation.
- The second project **experimentally applies the Land-In-Pro Historic Industrial Landscape Classification (HILC)** for the characterisation and critical interpretation of historic industrial landscapes, providing a scalable and potentially replicable procedure for other contexts.
- They are conceived as **accessible resources for external stakeholders**, addressed not only to researchers and scholars but also to local institutions, cultural organisations, and the wider public in general. The webGIS projects are published on the Land-In-Pro website⁷, where it can be freely consulted.

2.2. Methodology

The methodological approach adopted for the development of the Land-In-Pro webGIS projects is based on the integration, processing and harmonisation of multi-source data collected across the different WPs, with the objective of enabling a comprehensive reading of the Ferrania pilot site and its broader context as a historic industrial landscape.

The workflow began with the collection of a consistent corpus of spatial and descriptive data derived from fieldwork campaigns, surveys and on-site GIS mapping activities. These activities were carried out using an open-source and interoperable system combining QGIS and its mobile extension QField, ensuring continuity between data acquisition in the field and subsequent processing in the desktop environment. Photographic and video documentation supported the interpretation of the built fabric and spatial configurations, enabling the identification and georeferencing of building typologies, architectural features and spatial components across the Ferrania district, which approximately corresponds to the urban expansion that followed the establishment of the industrial complex. This spatial dataset was complemented by bibliographical research, summarised in the “Land-In-Pro Literature Collection”⁸ (Milestone 1 – M1), and archival research conducted in WP1, which provided the historical framework necessary to contextualise the spatial evidence and to support the diachronic interpretation of the site. Together, these materials led to the creation of the GIS project titled “Land-In-Pro Pilot Site Mapping”⁹ (Milestone 2 – M2).

In parallel with the consolidation of the site-based dataset, a spatial and landscape analysis was conducted in WP3, leading to the definition of the Land-In-Pro Historic Industrial Landscape Classification (HILC). A corpus of aerial imagery and orthophotos belonging to three temporal thresholds (1944, 1974, 2024) was selected according to its relevance to key phases of industrialisation and deindustrialisation of the Ferrania

⁷ See the Land-In-Pro website: <https://landinpro.unige.it/webgis>

⁸ The dataset “Land-In-Pro Literature Collection” (Milestone 1 – M1) is available on Zenodo at [10.5281/zenodo.10600177](https://zenodo.org/record/10600177) (accessed, October 2025). More information on “Land-In-Pro Literature Collection” can be accessed here: <https://landinpro.unige.it/literaturecollection> (accessed, October 2025).

⁹ The dataset “WP2-M2_PilotSiteMapping” (Milestone 2 – M2) is available on Zenodo at [10.5281/zenodo.17194981](https://zenodo.org/record/17194981) (accessed, October 2025).

site. Through orthorectification (for aerial imagery only), georeferencing and semi-automated supervised classification in GRASS GIS, refined in QGIS, these images were processed to derive land-cover/land-use vector layers organised into a limited number of macro-classes, which formed the basis for the application of the Land-In-Pro HILC. Before defining and assigning the Land-In-Pro classes, the spatial extent for applying the HILC was delimited through a visibility analysis on the Liguria Region 1 m Digital Surface Model (DSM), calculating and combining viewsheds from selected viewpoints derived from historical photographs and field surveys. This process resulted in a buffer zone within which the components of the Historic Industrial Settlement System were mapped and classified with the defined HILC classes for each of the three reference years.

Alongside these processes, qualitative data deriving from the ethnographic campaigns conducted between WP2 and WP4, as part of the critical-interpretative analysis, contributed to integrating intangible dimensions into the spatial framework. Semi-structured static and go-along interviews were designed following an initial Grounded Theory analysis of existing interviews¹⁰ and were subsequently conducted with selected community members (workers and non-workers)¹¹ with the aim of exploring lived experiences, perceptions and meanings associated with the Ferrania industrial landscape¹².

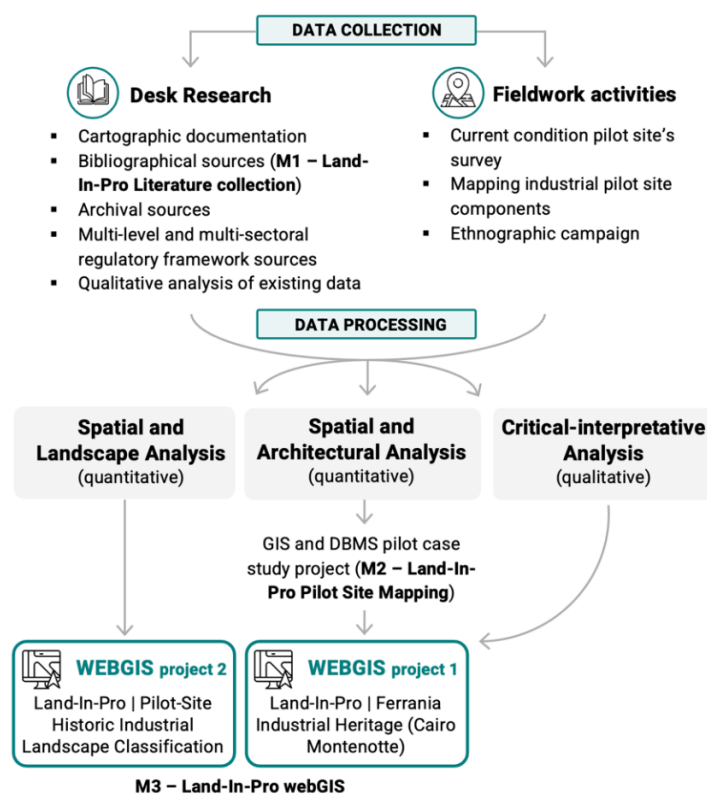


Figure 1 - Land-In-Pro webGIS projects workflow © Land-In-Pro, 2022-2025.

¹⁰ The “Ferrania a Memoria” project consisted of interviews collected in 2017 by the Department of Educational Sciences (DISFOR) and the Buster Keaton Laboratory. These materials are publicly available on YouTube at: https://www.youtube.com/playlist?list=PL7Dgn_AvzqnB4QTsMv_WQUfl2ieu59c6k (accessed, May 2024).

¹¹ All participants had been enrolled on a voluntary basis and information sheets, and informed consent forms were provided, co-signed and collected to be kept on file by the PI. Ethnographic research activities had been approved in May 2024 by the University of Genoa Research Ethics Committee (Opinion No. 2024/49).

¹² Details on the ethnographic campaign are detailed in deliverable D4.1.

As a final output of WP3, these heterogeneous datasets were harmonised and translated into two webGIS platforms operating at different scales.

The first webGIS, *Land-In-Pro | Ferrania Industrial Heritage (Cairo Montenotte)*, focuses on the architectural and site scale. Its structure is based on the M2 GIS project and includes layers related to existing and demolished buildings, the areas in which these buildings are located within the Ferrania district, and a layer dedicated to viewpoints. A second group of layers is dedicated to the ethnographic component and includes points and lines corresponding to interviews, enriched with summaries and selected quotations linked to specific components of the landscape.

The second webGIS, *Land-In-Pro | Pilot-Site Historic Industrial Landscape Classification*, presents the results of the application of the spatial and landscape analysis procedure to the wider Ferrania pilot-site context, identifying and classifying, for the three reference years (1944, 1974, 2024), the components of the Historic Industrial Settlement System through the Land-In-Pro HILC.

2.3. Tools

The Land-In-Pro webGIS projects were developed using an open-source GIS environment, in continuity with the tools adopted in the previous phases of the project. A spatial database implemented in PostgreSQL¹³ was used to store and manage spatial data and structured descriptive datasets, including tabular information originally generated in spreadsheet format and subsequently normalised within the database environment. QGIS¹⁴ (v.3.34 Prizren) was used as the desktop client to connect to the database, configure layer groups and symbologies, and define the attribute tables and contents of the two projects. Both QGIS projects were set in the Roma40 reference system and Gauss-Boaga cartographic projection (EPSG:3003).

The online publication of the projects was implemented by G.ter¹⁵ through the open-source Lizmap Web Client¹⁶, which serves the QGIS projects as interactive web applications on a dedicated GIS hosting service, retaining the original layer structure and most of the cartographic settings defined in QGIS.

The use of open-source tools reinforces the project’s commitment to open science and the FAIR principles. The webGIS projects are openly accessible on the Land-In-Pro website, where they can be freely consulted.

Finally, the following Section 3 adopts a bilingual (English-Italian) structure to facilitate the use of webGIS by local, non-specialist and non-English-speaking users.

3. Description of the webGIS projects / Descrizione dei progetti webGIS

EN	IT
The two Land-In-Pro webGIS projects, described in Sections 3.1 and 3.2, share a common structure and technical configuration conceived to ensure coherence, usability and accessibility. All contents are provided in Italian and English, thus enabling consultation by both national and international audiences.	I due webGIS Land-In-Pro, descritti nelle Sezioni 3.1 e 3.2, condividono una struttura e una configurazione tecnica comuni, pensate per garantire coerenza, facilità d’uso e accessibilità. I contenuti sono disponibili sia in italiano sia in inglese, così da permetterne la consultazione da parte di un pubblico nazionale e internazionale.

¹³ More information on PostgreSQL can be accessed here: <https://www.postgresql.org> (accessed, October 2025).

¹⁴ More information on QGIS can be accessed here: <https://qgis.org/it/site/> (accessed, October 2025).

¹⁵ More information on G.ter can be accessed here: <https://www.gter.it/> (accessed, October 2025).

¹⁶ More information on Lizmap can be accessed here: <https://www.lizmap.com/en/> (accessed, October 2025).



Upon loading, each webGIS project displays the CartoDB “Positron” light-grey basemap, selected for its neutral visual character, which supports the legibility of thematic layers without introducing visual noise. Users may alternatively activate the 2022 colour orthophoto (1:5,000 scale) provided by Liguria Region through an open WMS service, enabling a more detailed and realistic reading of the territorial context.

All’apertura di ciascun progetto viene visualizzata, come sfondo, la base cartografica “Positron” di CartoDB, caratterizzata da una tonalità grigio chiara e scelta per il suo aspetto neutro, che facilita la lettura dei layer tematici senza generare disturbo visivo. In alternativa, l’utente può attivare l’ortofoto a colori 2022 in scala 1:5.000, fornita dalla Regione Liguria tramite un servizio WMS open, ottenendo una rappresentazione più dettagliata e realistica del contesto territoriale.

3.1. Land-In-Pro | Ferrania Industrial Heritage (Cairo Montenotte) / Land-In-Pro | Il patrimonio industriale di Ferrania (Cairo Montenotte)

EN	IT
The first webGIS, “Land-In-Pro Ferrania Industrial Heritage (Cairo Montenotte)”¹⁷, focuses on the architectural and site scale of the Ferrania complex. It is structured into three main groups of information (layer groups): <i>Pilot Site Mapping</i>, which contains the site- and building-scale spatial layers; <i>Pilot Site Interviews</i>, which gathers points, routes and related quotations from the ethnographic campaign; and <i>Evolution of the Pilot Site</i>, dedicated to the diachronic reading of the site. To preserve legibility at first access, only the <i>Pilot Site Mapping</i> group is visible by default, while <i>Pilot Site Interviews</i> and <i>Evolution of the Pilot Site</i> can be activated by the user through the layer panel. Within this panel, an eye-shaped icon allows for a quick thematic selection: the three groups are listed, and clicking on one of them displays only that group on the map, automatically switching off the others.	Il primo webGIS, “Land-In-Pro Il patrimonio industriale di Ferrania (Cairo Montenotte)”¹⁸, offre una lettura del complesso di Ferrania alla scala architettonica e di sito. La sua struttura è organizzata in tre principali gruppi di layer: <i>Mappatura del sito pilota</i>, che raccoglie i layer spaziali relativi al sito e agli edifici; <i>Interviste nel sito pilota</i>, che integra le informazioni acquisite durante la campagna etnografica; <i>Evoluzione del sito pilota</i>, dedicato alla lettura diacronica delle trasformazioni del sito. Per garantire una visualizzazione chiara al primo accesso, solo il gruppo <i>Mappatura del sito pilota</i> è attivo di default, mentre <i>Interviste nel sito pilota</i> ed <i>Evoluzione del sito pilota</i> possono essere attivati dall’utente tramite il pannello dei layer. All’interno di questo pannello, un’icona a forma di occhio consente una selezione tematica rapida: i tre gruppi compaiono in elenco e, cliccando su uno di essi, viene visualizzato esclusivamente quel gruppo sulla mappa, disattivando automaticamente gli altri.

3.1.1. Pilot Site Mapping / Mappatura del sito pilota

EN	IT
The <i>Pilot Site Mapping</i> layer group in the “Land-In-Pro Ferrania Industrial Heritage (Cairo Montenotte)” webGIS brings together four layers – <i>Areas</i>, <i>Existing Buildings</i>, <i>Demolished Buildings</i>, and <i>Views</i> – which provide a coherent representation	Il gruppo di layer <i>Mappatura del sito pilota</i> del webGIS “Land-In-Pro Il patrimonio industriale di Ferrania (Cairo Montenotte)” riunisce quattro layer – <i>Aree</i>, <i>Edifici esistenti</i>, <i>Edifici demoliti</i> e <i>Panoramiche</i> – che restituiscono una

¹⁷ See the webpage: https://landinpro.gishosting.eu/index.php/view/map?repository=landinpro&project=WP3-M3_Land-In-Pro_webGIS (accessed, October 2025).

¹⁸ Si veda la pagina web: https://landinpro.gishosting.eu/index.php/view/map?repository=landinpro&project=WP3-M3_Land-In-Pro_webGIS (consultazione: Ottobre 2025).





of the Ferrania (post)industrial site and its surroundings.

When the project is opened, the *Areas* layer gives an immediate overview of the structure of the pilot site context. The areas have been defined through the combined analysis of regulatory plans and historical maps. At more general zoom levels (approximately 1:5,000 and smaller), the polygons are filled, and their labels display the area names directly on the map, making them easy to read at a glance. As users zoom in beyond the 1:5,000 threshold, labels are automatically hidden and the symbology changes to perimeter outlines. This scale-dependent behaviour avoids visual clutter at large scales: the information that previously appeared as a label can then be accessed by clicking on the area, which opens an information window in the side panel (popup).

The *Existing Buildings* layer contains polygons representing the mapped components of the pilot site (e.g. factory buildings, housing and recreational facilities and infrastructures). By clicking on any building, the side panel displays a structured set of information organised into six tabs:

- *Survey and Mapping Data* and *Survey and Mapping Dataset Information and Management* provide information on the fieldwork, mapping activities and data management procedures.
- *Land-In-Pro Photo Survey* presents the photographic documentation produced during fieldwork campaigns, allowing users to visually relate the mapped geometry to its current condition.
- *AFFM 1996 Industrial Buildings Inventory* and *AFFM Technical Documentation* give access to selected data derived from archival materials preserved at the Archive of the Ferrania Film Museum (AFFM), linking the mapped buildings to historical technical records and inventories.
- *AFFM Photo Collection* provides historical photographs drawn from the Ferrania Film Museum's phototheque, accompanied by the main inventory fields taken from the Museum's cataloguing system.

The *Demolished Buildings* layer also consists of polygons and follows the same information structure as the *Existing Buildings* layer, with five tabs. The *Land-In-Pro Photo Survey* tab is, by definition,

rappresentazione quanto più possibile completa del sito (post)industriale di Ferrania e del suo contesto.

All'apertura del progetto, il layer *Aree* offre una panoramica dell'organizzazione generale del sito pilota. Le aree sono state definite attraverso l'analisi congiunta di strumenti urbanistici e cartografie storiche. Ai livelli di zoom più ampi (circa 1:5.000 e inferiori), i poligoni sono pieni e accompagnati da etichette con il nome dell'area, leggibili direttamente in mappa. Avvicinandosi oltre la soglia di 1:5.000, le etichette vengono nascoste e la simbologia passa ai soli perimetri. Le informazioni precedentemente visibili come etichetta possono comunque essere consultate cliccando sull'area, aprendo la relativa scheda informativa nel pannello laterale.

Il layer *Edifici esistenti* comprende i poligoni che rappresentano i diversi elementi mappati del sito pilota, come edifici produttivi, residenze, strutture ricreative, infrastrutture. Selezionando un edificio, nel pannello laterale compare un set di informazioni articolato in sei schede:

- *Dati della mappatura e del rilievo fotografico e Informazioni e gestione dei dati di mappatura e rilievo fotografico*, che riassumono i dati raccolti durante i sopralluoghi e le attività di rilievo e mappatura in loco, oltre a fornire informazioni sulle modalità di gestione del dataset.
- *Documentazione fotografica Land-In-Pro*, che presenta le immagini prodotte durante le campagne fotografiche, permettendo di collegare la geometria mappata allo stato attuale dell'edificio.
- *AFFM Inventario immobilizzazioni stabili industriali al 1996* e *AFFM documentazione tecnica*, che riportano i riferimenti dei materiali d'archivio conservati presso l'Archivio del Ferrania Film Museum (AFFM) associati all'edificio selezionato.
- *AFFM fototeca*, che raccoglie le fotografie storiche provenienti dalla Fototeca del Ferrania Film Museum, accompagnate dai principali dati descrittivi presenti nell'elenco di consistenza redatto da Museo.

Il layer *Edifici demoliti* è organizzato come il layer precedente, ma è composto da cinque schede anziché da sei: la scheda *Documentazione fotografica Land-In-Pro* è assente poiché gli edifici non sono più



absent, as these components no longer exist on site. Finally, the *Views* layer records selected viewpoints, each corresponding to a specific observation position within the Ferrania district and is associated with a brief description and photographic documentation.

esistenti.

Infine, il layer *Panoramiche* raccoglie una serie di punti di osservazione all'interno della località Ferrania, ciascuno accompagnato da una descrizione e dalla relativa documentazione fotografica.



Figure 2 – EN: Opening view of the webGIS with the “Pilot site mapping” layer group visible (default) / IT: Schermata iniziale del webGIS con il gruppo di layer “Mappatura del sito pilota” attivo (impostazione predefinita).

3.1.2. Pilot Site Interviews / Interviste nel sito pilota

EN	IT
The <i>Pilot Site Interviews</i> layer group in the “Land-In-Pro Ferrania Industrial Heritage (Cairo Montenotte)” webGIS brings together three layers – <i>Interview Citations</i>, <i>Interview Points</i>, and <i>Interview Paths</i> – which provide qualitative data produced during the ethnographic campaign. The <i>Interview Citations</i> layer uses a speech-bubble symbol positioned close to the architectural or landscape elements to which each quotation refers. By clicking on a citation, the side panel opens with two tabs: ▪ <i>Narratives and Memories</i> provides the excerpt, the reference to the (anonimised) interview ID and a linked photograph. ▪ <i>Interview Technical Information</i> contains contextual metadata (e.g. basic information on the interview, copyright references, data category and conservation, disclaimer). The <i>Interview Points</i> and <i>Interview Paths</i> layers reflect the dual structure of most interview sessions, which combined static conversations with go-along	Il gruppo di layer <i>Interviste nel sito pilota</i> del webGIS “Land-In-Pro Il patrimonio industriale di Ferrania (Cairo Montenotte)” riunisce tre layer – <i>Citazioni interviste</i>, <i>Punto intervista</i> e <i>Percorso intervista</i> – che restituiscono i dati qualitativi prodotti durante la campagna etnografica. Il layer <i>Citazioni interviste</i> è rappresentato da un'icona a forma di fumetto collocata in prossimità degli elementi architettonici e paesaggistici a cui ciascuna citazione si riferisce. Cliccando sulla citazione, nel pannello laterale si aprono due schede: ▪ <i>Narrazioni e memorie</i>, che riporta l'estratto della citazione, l'ID anonimizzato dell'intervista e una fotografia associata. ▪ <i>Informazioni tecniche sull'intervista</i>, che riporta i principali metadati (informazioni generali sull'intervista, riferimenti al copyright, categoria e conservazione del dato, disclaimer). I layer <i>Punto intervista</i> e <i>Percorso intervista</i> rappresentano le due modalità con cui si sono svolte le sessioni della campagna etnografica: i punti

moments in the field. Points and lines that belong to the same interview share the same colour, allowing users to visually follow each session on the map. When a point or a path is selected, the side panel displays two tabs:

- *Interview Content and Photo*, which summarises the main topics addressed, provides a short description of the interview session and shows a representative field photograph;
- *Interview Technical Information*, which presents the same type of contextual metadata used for the *Interview Citations* layer.

In this way, the *Pilot Site Interviews* group makes it possible to explore how memories, perceptions and lived experiences are distributed and articulated across the Ferrania (post)industrial landscape.

indicano i momenti di intervista statica, mentre i percorsi tracciano gli spostamenti delle interviste in movimento (go-along). Punti e percorsi appartenenti alla stessa intervista condividono lo stesso colore, facilitando la lettura del tracciato della sessione sulla mappa. Quando si seleziona un punto o un percorso, il pannello laterale mostra due schede:

- *Contenuto e foto dell'intervista*, che sintetizza i temi trattati, descrive brevemente la sessione e include una fotografia rappresentativa.
- *Informazioni tecniche sull'intervista*, che restituisce la stessa tipologia di metadati prevista per il layer *Citazioni interviste*.

Nel complesso, il gruppo di layer *Interviste nel sito pilota* consente di osservare come memorie, percezioni ed esperienze individuali si distribuiscono nello spazio e contribuiscono a definire il paesaggio (post)industriale di Ferrania.

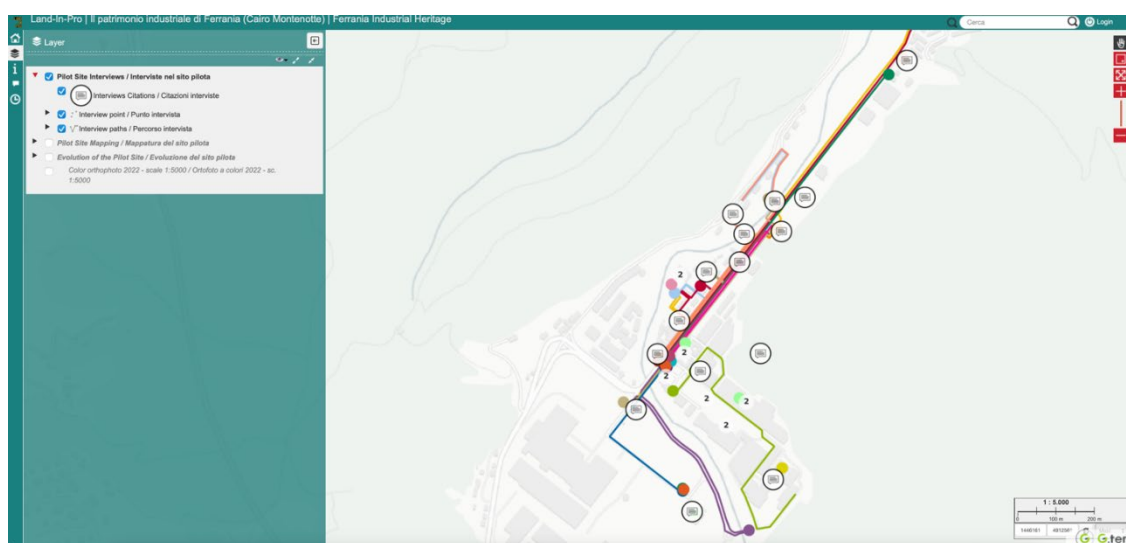


Figure 3 – EN: View of the webGIS with the “Pilot site interviews” layer group visible / IT: Vista del webGIS con il gruppo di layer “Interviste nel sito pilota” attivo.

3.1.3. Evolution of the Pilot Site / Evoluzione del sito pilota

EN	IT
The <i>Evolution of the Pilot Site</i> layer group in the “Land-In-Pro Ferrania Industrial Heritage (Cairo Montenotte)” webGIS provides a diachronic visualisation of site transformations and is specifically configured to work with the <i>Time Manager</i> tool available in the side panel, which allows users to display the map at different years and animate changes over time. It includes a	Il gruppo di layer <i>Evoluzione del sito pilota</i> del webGIS “Land-In-Pro Il patrimonio industriale di Ferrania (Cairo Montenotte)” offre una visualizzazione diacronica delle trasformazioni del sito ed è configurato per funzionare con lo strumento <i>Time Manager</i> , disponibile nel pannello laterale. Questo strumento permette di scorrere la mappa lungo una timeline continua (1900-2025) e di

homonymous layer that brings together both existing and demolished buildings in a single geometry set, which is used to drive the temporal animation. Within this layer, two colour classes convey the availability of chronological information: red highlights buildings for which the year of construction and demolition is known (*Information on the year of construction/demolition available*), while grey indicates buildings with unknown dates (*No information on the year of construction/demolition*).

When the layer group is selected and the *Time Manager* is activated, a timeline appears ranging from 1900 to 2025. At the 1900 mark, the map displays in red all buildings constructed before 1900 and in grey those for which no chronological information is available. The animation can run automatically using the Play button, or advance step by step using the “Zoom precedente” and “Zoom successivo” buttons. In this way, users can follow the evolution of the site layout – through phases of industrialisation, de-industrialisation and re-industrialisation – as buildings appear and disappear on the map, leading up to the current configuration (2025).

visualizzare in forma animata le trasformazioni del sito nel corso del tempo. Il gruppo comprende un layer omonimo che riunisce, in un'unica serie di geometrie, sia gli edifici esistenti sia quelli demoliti, utilizzati per generare l'animazione temporale. Due classi cromatiche indicano la disponibilità delle informazioni cronologiche: il rosso evidenzia gli edifici per i quali sono note le date di costruzione e demolizione (*Presenza informazioni sull'anno di costruzione/demolizione*), mentre il grigio contrassegna quelli privi di riferimenti temporali (*Nessuna informazione sull'anno di costruzione/demolizione*).

Quando il gruppo di layer è attivato e si avvia il *Time Manager* compare una timeline che copre l'intervallo 1900-2025. Al punto iniziale della timeline (1900) vengono mostrati in rosso tutti gli edifici già esistenti prima di tale anno e in grigio quelli privi di informazioni cronologiche. L'animazione può essere avviata automaticamente tramite il pulsante Play, oppure è possibile procedere gradualmente attraverso i comandi “Zoom precedente” e “Zoom successivo”.

In questo modo è possibile seguire l'evoluzione della configurazione del sito – attraverso le diverse fasi di industrializzazione, deindustrializzazione e reindustrializzazione – osservando l'apparire e lo scomparire degli edifici sulla mappa.

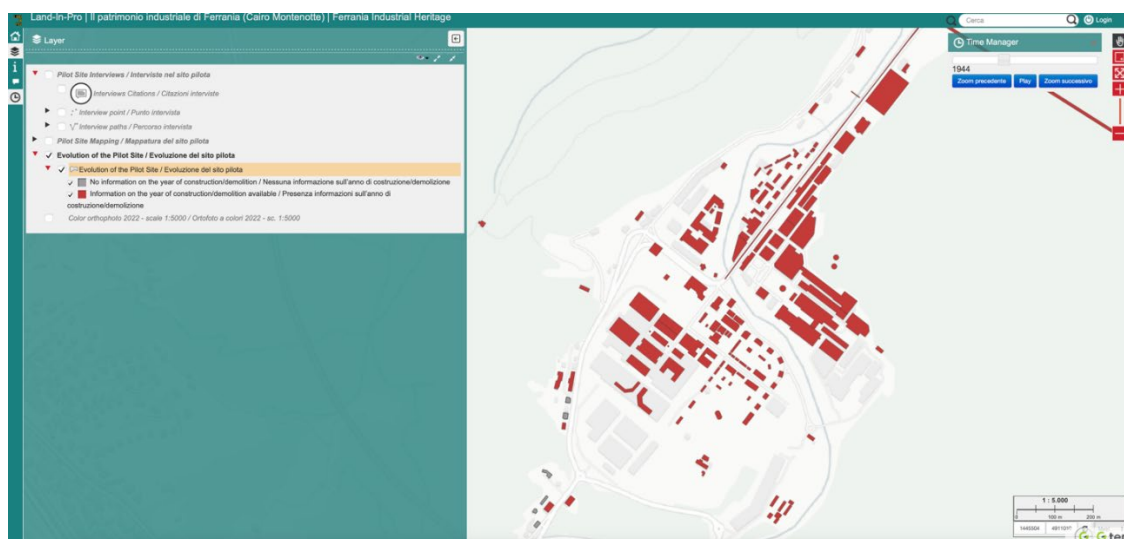


Figure 4 – EN: View of the webGIS with the Time Manager set to 1944 and the “Evolution of the Pilot Site” layer visible / IT: Vista del webGIS con il Time Manager impostato al 1944 e il gruppo di layer “Evoluzione del sito pilota” attivo.



3.2. Land-In-Pro | Pilot Site Historical Industrial Landscape Classification / Classificazione Land-In-Pro per la caratterizzazione del paesaggio industriale storico

EN	IT
The second webGIS, “Land-In-Pro Pilot Site Historical Industrial Landscape Classification”¹⁹, is dedicated to mapping Ferrania at a landscape scale using the Land-In-Pro Historical Industrial Landscape Classification (HILC). Its structure is organised around a single main layer group that brings together the results of the diachronic classification for the three selected reference years (1944, 1974, 2024), allowing users to explore and compare the evolution of the historic industrial landscape of Ferrania over time. The layer group includes the <i>Pilot Site Buffer Zone</i> and three <i>Land-In-Pro HILC</i> layers, each corresponding to one reference year. Each <i>Land-In-Pro HILC</i> layer maps and classifies the components of the Historical Industrial Settlement System according to the Land-In-Pro classes. Within the same spatial extent, all remaining areas that do not show a direct historical or functional continuity with the industrial settlement are classified using the closest matching categories of Corine Land Cover 2018 (CLC 2018). By expanding each <i>Land-In-Pro HILC</i> layer in the layer panel, users can visualise all 36 classes identified within the classification system, each represented by a specific colour and label. Although only the class names are visible within the webGIS interface, their detailed descriptions are provided in Table 1 to support interpretation and facilitate a correct reading of the map. From the side panel, the magnifying-glass icon activates the filter function, which enables users to select one of the three reference years and query the map by any of the 36 classes. This tool allows for targeted thematic exploration and cross-comparison between different phases of the site’s evolution, supporting both analytical readings and comparative assessments of landscape transformations.	Il secondo webGIS, “Classificazione Land-In-Pro per la caratterizzazione del paesaggio industriale storico”²⁰, è dedicato alla mappatura del territorio di Ferrania alla scala del paesaggio attraverso la Classificazione Land-In-Pro per la caratterizzazione del paesaggio industriale storico (HILC). La sua struttura si articola in un unico gruppo principale di layer, che riunisce i risultati della classificazione per i tre anni di riferimento selezionati (1944, 1974, 2024), consentendo di esplorare e confrontare nel tempo l’evoluzione del paesaggio industriale storico di Ferrania. Il gruppo di layer comprende la <i>Buffer zone del sito pilota</i> e tre layer <i>Land-In-Pro HILC</i>, ciascuno relativo a uno dei tre anni considerati. Ogni layer <i>Land-In-Pro HILC</i> mappa e classifica i componenti del Sistema insediativo industriale storico secondo le classi definite da Land-In-Pro. All’interno della buffer zone, tutte le superfici che non presentano una continuità storica o funzionale con l’insediamento industriale sono invece classificate attraverso le categorie più affini della Corine Land Cover 2018 (CLC 2018). Espandendo ciascun layer <i>Land-In-Pro HILC</i> nel pannello laterale, è possibile visualizzare tutte le 36 classi individuate dal sistema di classificazione, ognuna rappresentata da un colore e da una specifica etichetta. Sebbene l’interfaccia del webGIS riporti soltanto i nomi delle classi, la Tabella 1 fornisce per ciascuna una descrizione sintetica, utile per supportare l’interpretazione e una corretta lettura della mappa. Dal pannello laterale, l’icona a forma di lente permette di attivare la funzione di filtro, grazie alla quale è possibile selezionare uno dei tre anni di riferimento e interrogare la mappa in base a una delle 36 classi. Questo strumento facilita analisi tematiche mirate e confronti tra periodi diversi, sostenendo sia letture analitiche sia valutazioni comparative delle trasformazioni del paesaggio.

¹⁹ See the webpage: https://landinpro.gishosting.eu/index.php/view/map?repository=landinpro&project=WP3-M3_PilotSiteHistoricalIndustrialLandscapeClassification (accessed, October 2025).

²⁰ Si veda la pagina web: https://landinpro.gishosting.eu/index.php/view/map?repository=landinpro&project=WP3-M3_PilotSiteHistoricalIndustrialLandscapeClassification (consultazione: Ottobre 2025).





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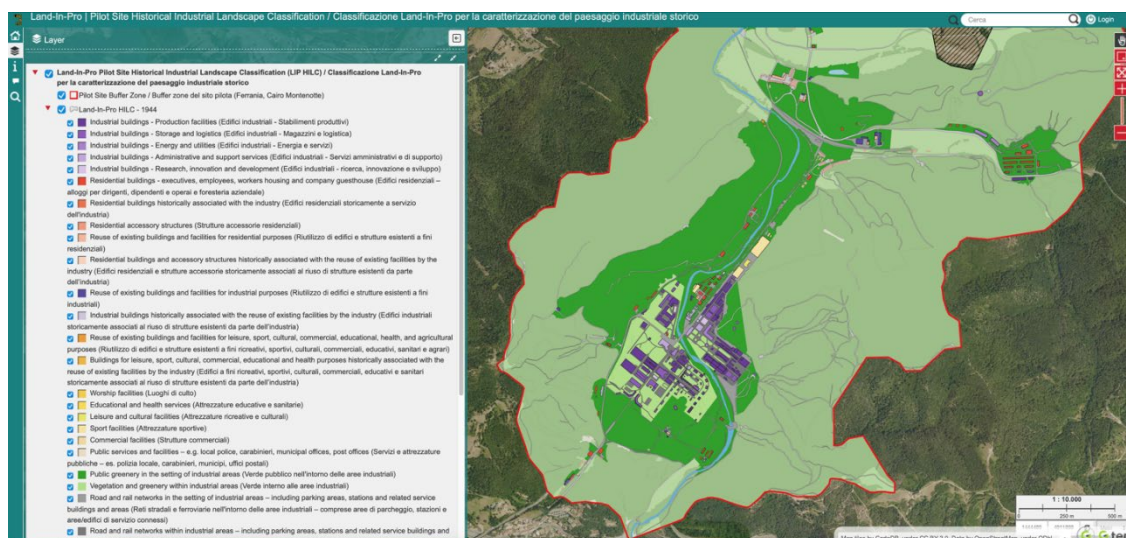


Figure 5 – EN: View of the webGIS with the Land-In-pro HILC – 1944 layer visible and the 2022 colour orthophoto activated /
 IT: Vista del webGIS con il layer “Land-In-Pro HILC – 1944” e l’ortofoto a colori 2022 attivati.

LAND-IN-PRO CLASS / CLASSE LAND-IN-PRO	DESCRIPTION / DESCRIZIONE	LAND-IN-PRO CODE / CODICE CLASSE LAND-IN-PRO	LAND-IN-PRO CLASS NAME / DENOMINAZIONE CLASSE LAND-IN-PRO	CLC 2018
EN: Industrial buildings - Production facilities IT: Edifici industriali – Stabilimenti produttivi	EN: Buildings and structures originally designed and primarily used for industrial production processes (manufacturing, transformation, assembly or treatment of materials and products). Includes main production halls, workshops and directly attached technical volumes housing machinery, processing lines or control spaces physically integrated with the production areas. IT: Edifici e strutture originariamente progettati e utilizzati per processi di produzione industriale (manifattura, trasformazione, assemblaggio o trattamento di materiali e prodotti). La classe include i capannoni produttivi, le officine e i volumi tecnici direttamente annessi che ospitano macchinari, linee di lavorazione o spazi di controllo fisicamente integrati con le aree di produzione.	1	LIP.C1	-



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EN: Industrial buildings - Storage and logistics IT: Edifici industriali – Magazzini e logistica	EN: Buildings and structures primarily used for the storage, handling and internal distribution of raw materials, semi-finished or finished products within the industrial system. Includes warehouses, silos, tanks, depots, covered loading bays and logistics hubs directly related to the industrial site. IT: Edifici e strutture utilizzati principalmente per lo stoccaggio, la movimentazione e la distribuzione di materie prime, semilavorati o prodotti finiti all'interno del sistema industriale. La classe comprende magazzini, silos, serbatoi, depositi, aree di carico coperte e hub logistici direttamente collegati al sito industriale.	2	LIP.C2	-
EN: Industrial buildings - Energy and utilities IT: Edifici industriali – Energia e servizi	EN: Buildings and structures dedicated to the generation, transformation, distribution or control of energy and technical utilities serving the industrial system. Includes power plants, boiler houses, substations, compressor rooms, water treatment plants, pumping stations and similar service facilities. Excludes rooms within production buildings where energy transformation is part of the main manufacturing process and small technical rooms embedded in other building types. IT: Edifici e strutture destinati alla produzione, trasformazione, distribuzione o controllo dell'energia e dei servizi tecnici a supporto del sistema industriale. La classe comprende centrali elettriche, sale caldaie, sottostazioni, sale compressori, impianti di trattamento delle acque, stazioni di pompaggio e strutture di servizio analoghe. Sono esclusi locali interni ad edifici produttivi in cui la trasformazione dell'energia costituisce parte integrante del processo manifatturiero e i locali tecnici di	3	LIP.C3	-



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	piccole dimensioni incorporati in altri tipi di edifici.			
EN: Industrial buildings - Administrative and support services IT: Edifici industriali – Servizi amministrativi e di supporto	EN: Buildings primarily used for management, coordination and support of industrial activities, without direct production, storage or energy functions. Includes offices, gatehouses, staff facilities (canteens, changing rooms, infirmaries), company shops, and representative buildings linked to the industrial company. IT: Edifici utilizzati principalmente per la gestione, il coordinamento e il supporto delle attività industriali, senza funzioni dirette di produzione, stoccaggio o legate ai servizi energetici. La classe comprende uffici, portinerie, servizi per il personale (mense, spogliatoi, infermerie), negozi aziendali ed edifici di rappresentanza collegati all'impresa.	4	LIP.C4	-
EN: Industrial buildings - Research, innovation, and development IT: Edifici industriali – Ricerca, innovazione, sviluppo	EN: Buildings and structures dedicated mainly to research, testing, prototyping and innovation activities connected to the industrial system. Includes laboratories, test facilities, pilot plants, experimental workshops and similar spaces where the primary function is knowledge production and technological development. IT: Edifici e strutture destinati principalmente ad attività di ricerca, sperimentazione, prototipazione e innovazione collegate al sistema industriale. La classe comprende laboratori, strutture di prova, impianti pilota, officine sperimentali e spazi analoghi in cui la funzione principale è la produzione di nuove conoscenze e lo sviluppo tecnologico.	5	LIP.C5	-
EN: Residential buildings - executives, employees, workers	EN: Residential buildings purpose-built by an industrial company to accommodate its staff at different hierarchical levels (executives,	6	LIP.C6	-



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housing and company guesthouse IT: Edifici residenziali – Alloggi per dirigenti, dipendenti e operai e foresteria aziendale	employees, workers) and company guests. Includes workers' village houses, employees' houses, executives' villas, dormitories and guesthouses specifically designated for company personnel. IT: Edifici residenziali realizzati da un'impresa per ospitare il proprio personale a diversi livelli gerarchici (dirigenti, impiegati, operai) e i suoi ospiti. La classe comprende abitazioni dei villaggi operai, case per impiegati, ville per dirigenti, dormitori e foresterie specificamente destinate al personale aziendale.			
EN: Residential buildings historically associated with the industry IT: Edifici residenziali storicamente a servizio dell'industria	EN: Residential buildings purpose-built by an industrial company to accommodate its staff, but which today function as ordinary housing with no specific functional dependency on the industrial company. They may include former workers' village houses, employees' houses, executives' villas, dormitories and guesthouses now integrated into the residential fabric, where the industrial legacy is mainly expressed through architectural typology, settlement morphology or toponymy based on historical evidence. IT: Edifici residenziali realizzati originariamente da un'impresa per ospitare il proprio personale, ma che oggi funzionano come abitazioni private, senza più alcun legame funzionale con l'impresa. Possono comprendere ex abitazioni dei villaggi operai, case per impiegati, ville per dirigenti, dormitori e foresterie ormai integrate nel tessuto residenziale, in cui l'eredità industriale si riconosce principalmente nella tipologia architettonica, nella morfologia insediativa o nella toponomastica, secondo quanto documentato dalle fonti storiche.	7	LIP.C7	-



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EN: Residential accessory structures IT: Strutture accessorie residenziali	EN: Small buildings and structures functionally linked to residential use and serving domestic needs as ancillary spaces. Includes garages, huts/tool sheds, small storage buildings, laundry blocks, shelters and similar outbuildings located within residential areas or immediately adjacent to residential buildings. IT: Piccoli edifici e strutture funzionalmente collegati all'uso residenziale e destinati a soddisfare esigenze domestiche come spazi accessori. La classe comprende garages, rimesse, casotti/pertinenze, piccoli edifici adibiti a deposito, locali lavanderia, tettoie e altre dipendenze simili situate all'interno delle aree residenziali o in adiacenza diretta agli edifici abitativi.	8	LIP.C8	-
EN: Reuse of existing buildings and facilities for residential purposes IT: Riutilizzo di edifici e strutture esistenti a fini residenziali	EN: Residential buildings resulting from the reuse or adaptation, by an industrial company, of pre-existing buildings or facilities within the industrial settlement area, in order to accommodate company-related households. Includes pre-existing buildings and facilities converted to residential use for executives, employees, workers or company guests. IT: Edifici residenziali derivanti dal riuso o dall'adattamento, da parte di un'impresa, di edifici o strutture preesistenti all'interno dell'area dell'insediamento industriale, destinati a ospitare nuclei familiari legati all'impresa. La classe comprende edifici e strutture preesistenti riconvertiti a uso residenziale per dirigenti, impiegati, operai o ospiti dell'impresa.	9	LIP.C9	-
EN: Residential buildings and accessory structures	EN: Buildings and facilities with residential function, pre-existing the industrial settlement and historically	10	LIP.C10	-



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historically associated with the reuse of existing facilities by the industry IT: Edifici residenziali e strutture accessorie storicamente associati al riuso di strutture esistenti da parte dell'industria	reused by the industrial company which today function as ordinary housing with no specific functional dependency on the industry. IT: Edifici e strutture a funzione residenziale, preesistenti all'insediamento industriale e storicamente riutilizzati da un'impresa, che oggi funzionano come abitazioni private senza alcun legame funzionale con l'industria.			
EN: Reuse of existing buildings and facilities for industrial purposes IT: Riutilizzo di edifici e strutture esistenti a fini industriali	EN: Industrial buildings resulting from the reuse or adaptation, by an industrial company, of pre-existing buildings or facilities within the industrial settlement area, in order to host industrial activities. Includes pre-existing buildings and facilities converted to accommodate production, storage and logistics, energy and utilities, administrative and support services, or research and innovation functions. IT: Edifici industriali derivanti dal riuso o dall'adattamento, da parte di un'impresa, di edifici o strutture preesistenti all'interno dell'area dell'insediamento industriale, destinati a ospitare attività industriali. La classe comprende edifici e strutture preesistenti riconvertiti per funzioni produttive, di stoccaggio e logistica, energia e servizi tecnici, amministrazione e servizi di supporto, oppure ricerca e innovazione.	11	LIP.C11	-
EN: Industrial buildings historically associated with the reuse of existing facilities by the industry IT: Edifici industriali storicamente associati al riuso di strutture	EN: Buildings and facilities with industrial function, pre-existing the industrial settlement, later reused by the industrial company, which still perform industrial functions (e.g. production, storage and logistics, energy and utilities, administrative services or research), but are no longer functionally tied to the company that originally reused them.	12	LIP.C12	-



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esistenti da parte dell'industria	IT: Edifici e strutture a funzione industriale, preesistenti all'insediamento industriale e successivamente riutilizzati da un'impresa, che oggi svolgono funzioni quali produzione, stoccaggio e logistica, energia e servizi tecnici, servizi amministrativi o ricerca, ma che non sono più legati funzionalmente all'impresa che ne aveva promosso il riuso.			
EN: Reuse of existing buildings and facilities for leisure, sport, cultural, commercial, educational, health, and agricultural purposes IT: Riutilizzo di edifici e strutture esistenti a fini ricreativi, sportivi, culturali, commerciali, educativi, sanitari e agrari	EN: Buildings and facilities resulting from the reuse or adaptation, by an industrial company, of pre-existing structures within the industrial settlement area, in order to host leisure, sport, cultural, commercial, educational, health or agricultural activities connected to the industrial system. Includes pre-existing buildings and facilities converted into recreational and sports amenities, cultural venues, shops and services, training and educational spaces, health-related facilities or agricultural structures. IT: Edifici e strutture preesistenti all'interno dell'area dell'insediamento industriale, riutilizzati o adattati da un'impresa per ospitare attività ricreative, sportive, culturali, commerciali, educative, sanitarie o agricole collegate al sistema industriale. La classe comprende edifici e strutture preesistenti riconvertiti in attrezzature per il tempo libero e lo sport, spazi culturali, negozi e servizi, ambienti di formazione e istruzione, strutture sanitarie o edifici a uso agricolo.	13	LIP.C13	-
EN: Buildings for leisure, sport, cultural, commercial, educational and health purposes historically associated with the	EN: Buildings for leisure, sport, cultural, commercial, educational or health purposes pre-existing the industrial settlement and historically reused or adapted by the industrial company which today function as	14	LIP.C14	-



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LAND-IN-PRO CLASS / CLASSE LAND-IN-PRO	DESCRIPTION / DESCRIZIONE	LAND-IN-PRO CLASS CODE / CODICE CLASSE LAND-IN-PRO	LAND-IN-PRO CLASS NAME / DENOMINAZIONE CLASSE LAND-IN-PRO	CLC 2018
reuse of existing facilities by the industry IT: Edifici a fini ricreativi, sportivi, culturali, commerciali, educativi e sanitari storicamente associati al riuso di strutture esistenti da parte dell'industria	ordinary facilities with no specific functional dependency on the industry. IT: Edifici destinati a funzioni ricreative, sportive, culturali, commerciali, educative o sanitarie, preesistenti all'insediamento industriale e storicamente riutilizzati o adattati da un'impresa, che oggi operano come strutture ordinarie senza alcun legame funzionale con l'industria.			
EN: Worship facilities IT: Luoghi di culto	EN: Buildings and facilities purpose-built by an industrial company to provide spaces for worship and religious life for workers and local community. Includes churches, chapels, oratories, parish halls and similar premises financed or promoted by the company. IT: Edifici e strutture realizzati da un'impresa per offrire spazi dedicati al culto e alla vita religiosa dei lavoratori e della comunità locale. La classe comprende chiese, cappelle, oratori, sale parrocchiali e altri spazi analoghi finanziati o promossi dall'impresa.	15	LIP.C15	-
EN: Educational and health services IT: Attrezzature educative e sanitarie	EN: Buildings and facilities purpose-built by an industrial company to provide educational and health services for workers and local community. Includes schools, kindergartens, vocational training centres, clinics and small hospitals. IT: Edifici e strutture realizzati da un'impresa per offrire servizi educativi e sanitari ai lavoratori e alla comunità locale. La classe comprende scuole, asili, centri di formazione professionale, ambulatori e piccoli ospedali.	16	LIP.C16	-
EN: Leisure and cultural facilities IT: Attrezzature ricreative e culturali	EN: Buildings and facilities purpose-built by an industrial company to host leisure and cultural activities for workers and local community. Includes social clubs, community halls, theatres,	17	LIP.C17	-



Milestone M3 – WP3

Authors: Dr Federica Pompejano, RTD-A (Principal Investigator); Dr Sara Mauri, Postdoctoral Researcher



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LAND-IN-PRO CLASS / CLASSE LAND-IN-PRO	DESCRIPTION / DESCRIZIONE	LAND-IN-PRO CLASS CODE / CODICE CLASSE LAND-IN-PRO	LAND-IN-PRO CLASS NAME / DENOMINAZIONE CLASSE LAND-IN-PRO	CLC 2018
	cinemas, libraries and similar cultural or recreational venues. IT: Edifici e strutture realizzati da un'impresa per ospitare attività ricreative e culturali destinate ai lavoratori e alla comunità locale. La classe comprende circoli e dopolavoro, teatri, cinema, biblioteche e altri spazi culturali o ricreativi analoghi.			
EN: Sport facilities IT: Attrezzature sportive	EN: Buildings, facilities and areas purpose-built by an industrial company to host outdoor or indoor sports activities for workers and local community. Includes sports fields, playgrounds, gyms, sports halls, swimming pools and similar structures dedicated to sports. IT: Edifici, strutture e aree realizzati da un'impresa per ospitare attività sportive, all'aperto o al chiuso, destinate ai lavoratori e alla comunità locale. La classe comprende campi sportivi, palestre, palazzetti, piscine e altre strutture analoghe dedicate allo sport.	18	LIP.C18	-
EN: Commercial facilities IT: Strutture commerciali	EN: Buildings and facilities purpose-built by an industrial company to provide commercial services for workers and local community. Includes food and general stores and similar retail or service premises. IT: Edifici e strutture realizzati da un'impresa per offrire servizi commerciali ai lavoratori e alla comunità locale. La classe comprende negozi alimentari e di generi vari e altri spazi analoghi destinati alla vendita o all'erogazione di servizi.	19	LIP.C19	-
EN: Public services and facilities – e.g. local police, carabinieri, municipal offices, post offices	EN: Buildings and facilities purpose-built or promoted by an industrial company to host public or collective services supporting the industrial settlement and its surroundings. Includes premises used as local police	20	LIP.C20	-



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DAD DIPARTIMENTO
ARCHITETTURA E DESIGN

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IT: Servizi e attrezzature pubbliche – es. polizia locale, carabinieri, municipi, uffici postali	or carabinieri stations, municipal offices, postal offices and similar service facilities. IT: Edifici e strutture realizzati o promossi da un'impresa per ospitare servizi pubblici o collettivi a supporto dell'insediamento industriale e del suo intorno. La classe comprende sedi utilizzate come stazioni di polizia locale o carabinieri, uffici comunali, uffici postali e altre strutture di servizio analoghe.			
EN: Public greenery in the setting of industrial areas IT: Verde pubblico nell'intorno delle aree industriali	EN: Green areas and vegetation located outside the fenced industrial premises, providing a landscaped setting for residential buildings, leisure and cultural facilities and the other Land-In-Pro classes. Includes public or semi-public gardens, small parks, planted strips, tree belts and wider green spaces associated with the spatial structure of the industrial settlement. In the Land-In-Pro HILC, these areas are identified by combining regulatory plans and historical maps with current cartographic and aerial imagery. IT: Aree verdi situate al di fuori degli spazi industriali recintati, che costituiscono il contesto paesaggistico degli edifici residenziali, delle strutture ricreative e culturali e delle altre classi Land-In-Pro. La classe comprende giardini pubblici o semi-pubblici, piccoli parchi, fasce verdi alberate, filari e spazi verdi più ampi associati alla struttura spaziale dell'insediamento industriale. Nell'ambito della Land-In-Pro HILC, tali aree sono individuate attraverso la combinazione di strumenti urbanistici e cartografie/foto aree storiche e attuali.	21	LIP.C21	-
EN: Vegetation and greenery within industrial areas	EN: Green spaces located within the enclosure of industrial sites and directly associated with industrial buildings and	22	LIP.C22	-



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IT: Verde interno alle aree industriali	facilities. Includes lawns, tree rows, planted strips, ornamental gardens, small internal parks, courtyards with vegetation and similar designed green areas managed as part of the industrial premises. IT: Aree verdi situate all'interno del perimetro del sito industriale e direttamente associate agli edifici e alle strutture produttive. La classe comprende prati, filari alberati, fasce piantumate, giardini ornamentali, piccoli parchi interni, cortili con vegetazione e altre aree verdi progettate e gestite come parte integrante del complesso industriale.			
EN: Road and rail networks in the setting of industrial areas – including parking areas, stations and related service buildings and areas IT: Reti stradali e ferroviarie nell'intorno delle aree industriali – comprese aree di parcheggio, stazioni e aree/edifici di servizio connessi	EN: Road and rail infrastructures located outside the fenced industrial premises but developed in connection with the growth of the industrial settlement, serving workers and local community. Includes local roads and streets, junctions, parking areas, railway lines and sidings, stations, stops, yards and related service buildings and areas that provide access to and circulation within the wider industrial settlement. IT: Infrastrutture stradali e ferroviarie situate al di fuori degli spazi industriali recintati, ma sviluppate in relazione alla crescita dell'insediamento industriale e al servizio dei lavoratori e della comunità locale. La classe comprende strade e viabilità locale, incroci, aree di parcheggio, linee ferroviarie e raccordi, stazioni, fermate, scali e gli edifici e spazi di servizio connessi, che garantiscono l'accesso e la circolazione all'interno del più ampio insediamento industriale.	23	LIP.C23	-
EN: Road and rail networks within industrial areas – including parking	EN: Road and rail infrastructures located within the enclosure of industrial sites and directly serving industrial buildings and facilities.	24	LIP.C24	-



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areas, stations and related service buildings and areas IT: Reti stradali e ferroviarie interne alle aree industriali – comprese aree di parcheggio, stazioni e aree/edifici di servizio connessi	Includes internal roads and service lanes, loading and manoeuvring areas, parking spaces, rail sidings, industrial stations or stops, yards and related service buildings and areas managed as part of the industrial premises. IT: Infrastrutture stradali e ferroviarie situate all'interno del perimetro del sito industriale e direttamente al servizio degli edifici e delle strutture produttive. La classe comprende viabilità interna, aree di carico e manovra, parcheggi, raccordi ferroviari, stazioni o fermate interne, scali e gli edifici e spazi di servizio connessi, gestiti come parte integrante del complesso industriale.			
EN: Forest IT: Boschi	EN: See the Corine Land Cover (CLC) nomenclature guidelines at: https://land.copernicus.eu/content/corine-land-cover-nomenclature-guidelines/html/ IT: Si veda la traduzione in italiano delle voci della Corine Land Cover (CLC) disponibile alla seguente pagina web: https://www.isprambiente.gov.it/files/legendacorine.pdf	25	-	3.1 C2
EN: Shrub and/or herbaceous vegetation associations IT: Ambienti con vegetazione arbustiva e/o erbacea		26	-	3.2 C2
EN: Open spaces with little or no vegetation IT: Spazi aperti con/senza vegetazione		27	-	3.3 C2
EN: Road and rail networks and associated land IT: Reti stradali e ferroviarie e spazi accessori		28	-	1.2.2 C3
EN: Industrial or commercial units IT: Aree industriali o commerciali		29	-	1.2.1 C3
EN: Discontinuous urban fabric IT: Tessuto urbano discontinuo		30	-	1.1.2 C3



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EN: Green urban areas IT: Aree Verdi urbane		31	-	1.4.1 C3
EN: Sport and leisure facilities IT: Aree sportive e ricreative		32	-	1.4.2 C3
EN: Water courses IT: Corsi d'acqua		33	-	5.1.1 C3
EN: Water bodies IT: Bacini d'acqua		34	-	5.1.2 C3
EN: Dump sites IT: Discariche		35	-	1.3.2 C3
EN: Unclassified IT: Non classificato	EN: Areas for which no Land-In-Pro HILC classes could be assigned because of insufficient, inconsistent or missing data. Includes zones where land use and function cannot be reliably interpreted from available sources, where information is too fragmented, or where no information is available to support attribution to a specific class. IT: Aree per le quali non è stato possibile attribuire una classe Land-In-Pro HILC a causa di dati insufficienti, incongruenti o mancanti. La classe comprende zone in cui l'uso del suolo o la funzione non possono essere interpretati con affidabilità dalle fonti disponibili, dove le informazioni risultano troppo frammentarie oppure totalmente assenti per consentire l'assegnazione a una classe specifica.	36	LIP.C36	-

Table 1 – EN: Classes of the Land-In-Pro Historical Industrial Landscape Classification (HILC) / IT: Classi della Land-In-Pro Historical Industrial Landscape Classification (HILC).



Milestone M3 – WP3

Authors: Dr Federica Pompejano, RTD-A (Principal Investigator); Dr Sara Mauri, Postdoctoral Researcher

4. Land-In-Pro webGIS dataset information

Land-In-Pro project pursues a FAIR (findable, accessible, interoperable, and reusable) management of data following EU guidelines.

The following tables describe the information compiled for the datasets of the two Land-In-Pro webGIS, which originate from two QGIS projects deposited in the Land-In-Pro’s Zenodo Community²¹ and identified by DOI 10.5281/zenodo.17803085.

Dataset identifier title	1100027-2022-FP-PNRR-YR_MSCA_0000005_Land-In-Pro_WP3-M3_Land-In-Pro_PilotSite 1.0
DOI	10.5281/zenodo.17803085
Dataset name	WP3-M3_Land-In-Pro_PilotSite
Dataset description	This dataset contains a set of data related to processed information deriving from fieldwork activities, elaboration of archival information and literature (v. Cat 3, Cat 4, Cat 6 Deliverable D6.2, DMP) collected, accessed, and consulted during WP1 and WP2 research activities, as well as from the elaboration of ethnographic data through Qualitative Analysis software (v. Cat 3, Cat 4, Cat 5 Deliverable D6.2, DMP) collected during WP2 research activities. Interviews have been carried out by Federica Pompejano (Università di Genova) and Dr. Sara Rocco and recorded by Marta Casanova (Università di Genova, Lab. MARSC) and Sara Mauri (Università di Genova). It constitutes a fundamental part that supports both the Land-In-Pro spatial and territorial analysis in WP3 and the critical and interpretative analysis in WP4. These activities inform the development of the Land-In-Pro webGIS, which visualises tangible and intangible aspects characterising the pilot site, including the transformations the selected context has undergone over time as well as past and present narratives and future aspirations, thus contributing to the definition of indicators and heritage values for the Land-In-Pro Assessment Tool. The Land-In-Pro webGIS is developed based on this QGIS project that has been structured to ensure usability for both expert GIS users and non-specialist audiences. The project has been set up using the open-source mobile application QField (v.3.4) during fieldwork and QGIS (v.3.34 Prizren) during the data processing phase. Set in the Roma40 reference system and Gauss–Boaga cartographic projection (EPSG:3003), it is organised into six main vectorial layers (WP3_M3_zoning; WP3_M3_demolished; WP3_M3_buildings; interview_points; interview_paths; interview_citation) containing information available in both Italian and English languages, as well as eight table layers (affm_h_photo_collection; affm_h_photo_fer; affm_inv_imm; land-in-pro_c_photo; affm_tab_dec_dt; affm_fondo_dt; Land-In-Pro_Interviews_Citations; Interview_Data_Collection). This dataset has been curated by Dr Federica Pompejano, Dr Sara Mauri and Dr Marta Casanova. It relates to: ▪ WP2, WP3, WP4 ▪ Version 1.0; created on October 2, 2023; published on November 15, 2025. ▪ Federica Pompejano, Principal Investigator, RTD-A, Department Architecture and Design (DAD), Università di Genova (UniGe), federica.pompejano@unige.it (creator and depositor).

²¹ See: <https://zenodo.org/communities/landinpro-unige?q=&l=list&p=1&s=10&sort=newest>

	▪ Sara Mauri, Postdoctoral researcher, Department Architecture and Design (DAD), Università di Genova (UniGe), sara.mauri@edu.unige.it (creator and depositor) ▪ Marta Casanova, RTD-B, Department Architecture and Design (DAD), Università di Genova (UniGe), marta.casanova@unige.it (depositor). ▪ Data originates from the collection of spatial data and ethnographic qualitative data acquired during fieldwork activities carried out during WP2, consultation of archival sources and literature collected during WP1, processing of WP2-M2_PilotSiteMapping dataset and of ethnographic data carried out during WP4. ▪ Keywords: NextGenerationEU, NextGenEu, Ministero dell'Università e della Ricerca, MUR, PNRR, UniGe, DAD, MSCA_0000005, Land-In-Pro, Post-industrial landscape, Industrial heritage, Landscape studies, Architectural conservation, Heritage studies, Fieldwork, Photo survey, Data processing, Architetture, Strutture, Paesaggio, Architecture, Landscape, Structures, Ethnographic data, Semi-structured Interviews, Go-along, Memories, Narratives, Mapping. ▪ Link: https://landinpro.unige.it/webgis ▪ This dataset is part of the Land-In-Pro project, which has received funding from the Ministry of University and Research, General Directorate for Internationalisation and Communication – National Recovery and Resilience Plan (PNRR) - Mission 4 “Education and Research” - Component 2 “From Research to Business” - Investment 1.2 “Funding projects presented by young researchers” and the European Union – Next Generation EU. ▪ The content of this database reflects only the authors’ views. The authors, Host Institution, Ministry of University and Research and the European Commission are not responsible for any use that may be made of the information it contains.
Metadata	The metadata are contained in a markdown README file (.txt). Metadata are compiled using the online tool DataCite Metadata Generator - Kernel 4.4 provided by DataCite Metadata Working Group. (2021). DataCite Metadata Schema Documentation for the Publication and Citation of Research Data and Other Research Outputs. Version 4.4. DataCite e.V. https://doi.org/10.14454/3w3z-sa82 .
File format(s)	This dataset contains a QGIS project (.qgs) along with supporting images (.jpg), text (.txt), XML metadata (.xml), and QGIS geopackages (.qpkg).
Data sharing	WP3-M3_Land-In-Pro_PilotSite and Land-In-Pro webGIS © 2025 by Land-In-Pro Project - Federica Pompejano and Sara Mauri, Department Architecture and Design (DAD), Università di Genova (UniGe) is licensed under Attribution-NonCommercial 4.0 International (CC BY-NC 4.0). If not otherwise indicated, images were acquired by researchers during fieldwork activities conducted under the Land-In-Pro research project's WP2 and WP3 within the territorial context of the pilot site (Ferrania, Cairo Montenotte, Savona, Italy). The information contained in each form is the result of a combined processing of raw fieldwork data, the elaboration of ethnographic qualitative data, and the analysis of heterogeneous historical sources, including: archival materials (currently under inventory process) from the Ferrania Film Museum in Cairo Montenotte (SV); municipal building

	records (Municipal Archive of Building Practices, Municipality of Cairo Montenotte, Savona); and historical cadastral maps (Cadastral Map Collection, State Archives of Savona). All consultation permits were previously acquired. Consulted archive materials are available for on site consultation under each archive's rules and conditions. Interviews' summaries and quotations are provided exclusively for research and study purposes and any editorial changes are limited to clarity and text length without altering the meaning of the statements or the content. Participants are anonymised and consent for sharing audio-visual materials has been granted. The content included herein is the result of original work carried out by the Federica Pompejano and Sara Mauri, Università di Genova.
Archiving and Preservation	The storage and preservation of data contained in this dataset is ensured and guarantee during and after the project implementation by the server facility provided by the Lab. MARSC at the Department of Architecture and Design (DAD), University of Genoa and in the PI's institutional external SSD. A copy is stored in the Open Access repository Zenodo, Land-In-Pro Community: https://zenodo.org/communities/landinpro-unige?q=&l=list&p=1&s=10&sort=newest

Table 3 – webGIS project “Land-In-Pro | Ferrania Industrial Heritage (Cairo Montenotte)” - Dataset description template

Dataset identifier title	100027-2022-FP-PNRR-YR_MSCA_0000005_Land-In-Pro_WP3-M3_Land-In-Pro_HILC 1.0
DOI	10.5281/zenodo.17803085
Dataset name	WP3-M3_HILC
Dataset description	This dataset documents the historical industrial landscape of the Land-In-Pro project's pilot site, Ferrania (Cairo Montenotte, Savona), and was developed as part of the WP3 research activities. It constitutes a central part of the project supporting the Land-In-Pro Assessment Tool (WP4), offering a comparative analysis of landscape components changes across three time-slices (1944, 1974, and 2024) and providing the basis for defining key indicators for the Assessment Tool. The development of the Land-In-Pro Pilot Site Historical Industrial Landscape Classification followed six main phases: 1) data collection; 2) georeferencing; 3) semi-automatic photo-interpretation using GRASS GIS, followed by manual refinement in QGIS informed by CORINE Land Cover and Land Use classes; 4) landscape visibility analysis to delineate the buffer zone for the Land-In-Pro Classification; 5) definition of Land-In-Pro Classes for the Historical Industrial Landscape Classification; 6) identification of landscape indicators to support the Land-In-Pro Assessment Tool. The project has been set up by using the open-source Grass-GISS (v.8.3) and QGIS (v.3.34 Prizren). Set in the Roma40 reference system and Gauss–Boaga cartographic projection (EPSG:3003), it is organised into four main layers (pilot_site_buffer_zone, land-in-pro_hilc_1944, land-in-pro_hilc_1974, land-in-pro_hilc_2024) with attribute tables containing information on the Land-In-Pro Classes in English and Italian. This dataset has been curated by Dr Federica Pompejano and Dr Sara Mauri. It relates to: ▪ WP3 ▪ Version 1.0; created on May, 5 2025; published on Novembre 15, 2025.

	▪ Federica Pompejano, Principal Investigator, RTD-A, Department Architecture and Design (DAD), Università di Genova (UniGe), federica.pompejano@unige.it (creator and depositor). ▪ Sara Mauri, Postdoctoral researcher, Department Architecture and Design (DAD), Università di Genova (UniGe), sara.mauri@edu.unige.it (creator and depositor) ▪ Marta Casanova, RTD-B researcher, Department Architecture and Design (DAD), Università di Genova (UniGe), marta.casanova@unige.it (depositor) ▪ Dataset originate from the analysis and processing of cartographic archival sources (British RAF Flight from 1944, ICCD, F. "Seconda guerra mondiale"; Flight 1, Alto Copertura Regionale, 1973/1974, Regione Liguria; Bing Orthophoto, 2024) consulted and elaborated with the support of Bianca Federici, Ilaria Ferrando, and Paola Salmona (Geomatic Lab, UniGe-DICCA) as well as from original work carried out by Dr Federica Pompejano and Sara Mauri that allowed them to identify and define the Land-In-Pro HILC and the Land-In-Pro classes. ▪ Keywords: NextGenerationEU, NextGenEu, Ministero dell'Università e della Ricerca, MUR, PNRR, UniGe, DAD, MSCA_0000005, Land-In-Pro, Post-industrial landscape, Industrial heritage, Landscape studies, Architectural conservation, Heritage studies, Fieldwork, Photo survey, Data processing, Architetture, Strutture, Paesaggio, Architecture, Landscape, Structures, Land-In-Pro Classes, Historic Industrial landscape Classification ▪ Link: https://landinpro.unige.it/webgis ▪ This dataset is part of the Land-In-Pro project, which has received funding from the Ministry of University and Research, General Directorate for Internationalisation and Communication – National Recovery and Resilience Plan (PNRR) - Mission 4 “Education and Research” - Component 2 “From Research to Business” - Investment 1.2 “Funding projects presented by young researchers” and the European Union – Next Generation EU. ▪ The content of this database reflects only the authors’ views. The authors, Host Institution, Ministry of University and Research and the European Commission are not responsible for any use that may be made of the information it contains.
Metadata	The metadata are contained in a markdown README file (.txt). Metadata are compiled using the online tool DataCite Metadata Generator - Kernel 4.4 provided by DataCite Metadata Working Group. (2021). DataCite Metadata Schema Documentation for the Publication and Citation of Research Data and Other Research Outputs. Version 4.4. DataCite e.V. https://doi.org/10.14454/3w3z-sa82 .
File format(s)	This dataset contains a QGIS project (.qgz) along with supporting files including QGIS geopackages (.qpkg) and text (.txt), XML metadata (.xml).
Data sharing	Land-In-Pro Pilot Site Historical Industrial Landscape Classification (HILC) and Land-In-Pro webGIS © 2025 by Land-In-Pro Project - Federica Pompejano and Sara Mauri, Department Architecture and Design (DAD), Università di Genova (UniGe) is licensed under Attribution-NonCommercial 4.0 International (CC BY-

	NC 4.0). The content included herein is the result of original work carried out by the Federica Pompejano and Sara Mauri, Università di Genova.
Archiving and Preservation	The storage and preservation of data contained in this dataset is ensured and guarantee during and after the project implementation by the server facility provided by the Lab. MARSC at the Department of Architecture and Design (DAD), University of Genoa and in the PI's institutional external SSD. A copy is stored in the Open Access repository Zenodo, Land-In-Pro Community: https://zenodo.org/communities/landinpro-unige?q=&l=list&p=1&s=10&sort=newest

Table 4 – webGIS project “Land-In-Pro | Pilot Site Historical Industrial Landscape Classification” - Dataset description template

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