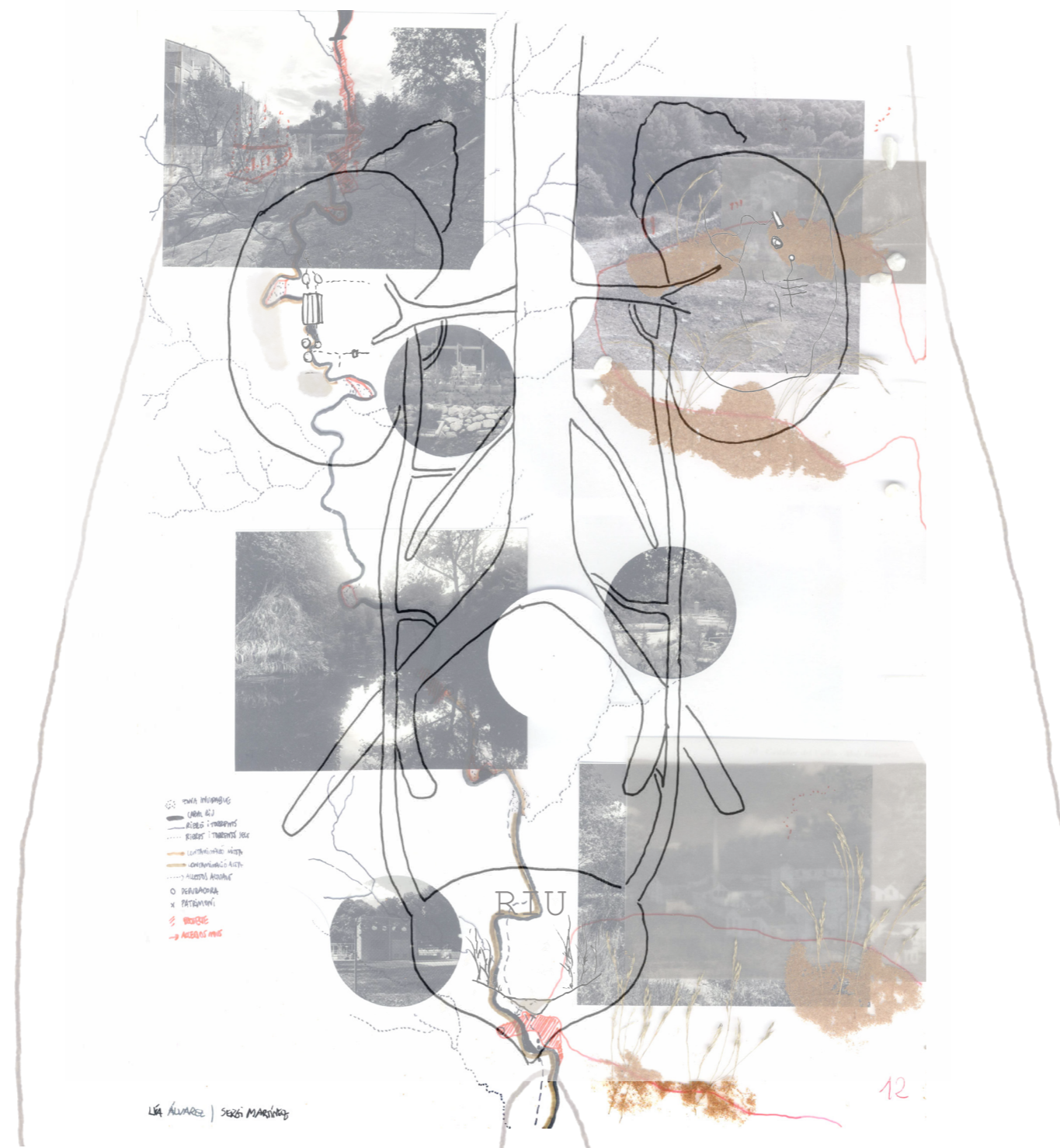


EDAR

cat. Estació Depuradora d'Aigües Residuals
Eng. Sewage treatment plant

PDAR

cat. PARC Depurador d'Aigües Residuals
Eng. Sewage treatment PARC



Country / City Spain / Sant Cugat del Vallés

University / School UPC / ETSAV. Escola Tècnica Superior d'Arquitectura del Vallès.=

Academic year Master Eniversitari en Arquitectura

Title of the project P.arcs del D.A.R.rere. Of EDAR environments as new spaces of hydro forest gestion for the fluvial restauration.=

Authors Sergi Martínez Migens | Lúa Álvarez Domínguez

TECHNICAL DOSSIER

Title of the project	P.arcs del D.A.R.rere. Of EDAR environments as new spaces of hydro forest gestion for the fluvial restauration
Authors	Lúa Álvarez Domínguez Sergi Martínez Migens
Title of the course	Rethinking the Upper Ripoll River basin
Academic year	Master Universitari en Arquitectura
Teaching Staff	Josep Ricart Xavier Gimferrer
Department / Section / Program of belonging	Projects / Final project Master Degree
University / School	UPC / ETSAB. Escola Tècnica Superior d'Arquitectura del Vallès.=



Written statement, short description of the project in English, no more than 250 words

PROBLEM. Water is an increasingly scarce resource. Due to climate change, there will be less and less water in our rivers. This results in worse water quality, especially in the case of stationary rivers where the natural flow is minimal. In our case study, Ripoll river, 70% of its flow is **sewage**.

Currently, 58% of Catalan rivers are not in good condition despite the implementation of the EDARs (Sewage treatment plants), which have a positive impact yet a limited effect. In addition, these infrastructures and their **water cycle are invisible** to the citizenship, which explains the limited awareness of its environmental relevance.

MECHANISEM. Knowing the aim is to improve water quality and the way in which we manage the resource, empowering **EDAR environments as nodes for river restoration** and expanding its role may be the method to achieve it.

At the same time, these peripheral spaces characterized by the presence of **vacant lots and old abandoned factories** are in being colonized by the **third landscape**; optimal context for rethinking new natural areas and binding them with the population who has always lived behind them, in the **backyard of the city**.

For further information

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COAC - Colegi oficial d'Arquitectes de Catalunya

Carrer Arcs, 1-3
08002 Barcelona - Spain

12th International Biennial Landscape Barcelona

Barcelona October 2023

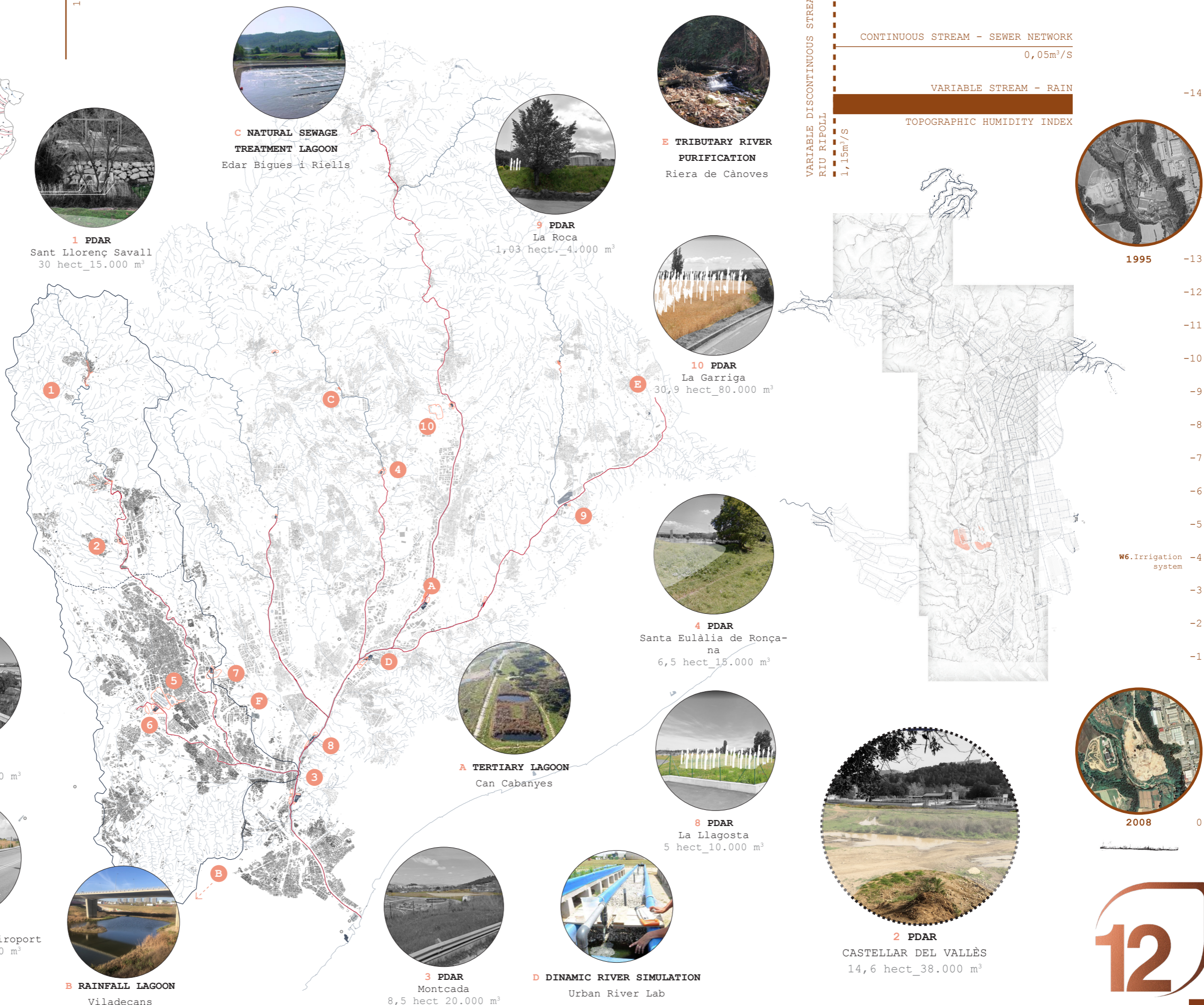
SCHOOL PRIZE



100 km

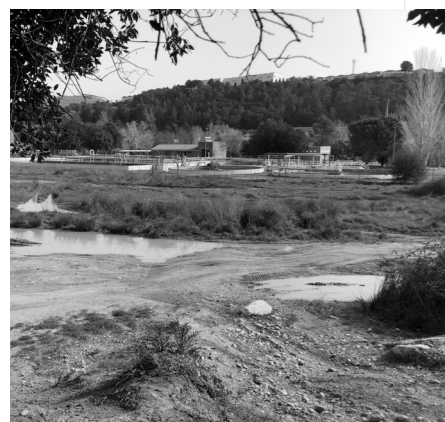
1 km

500 m

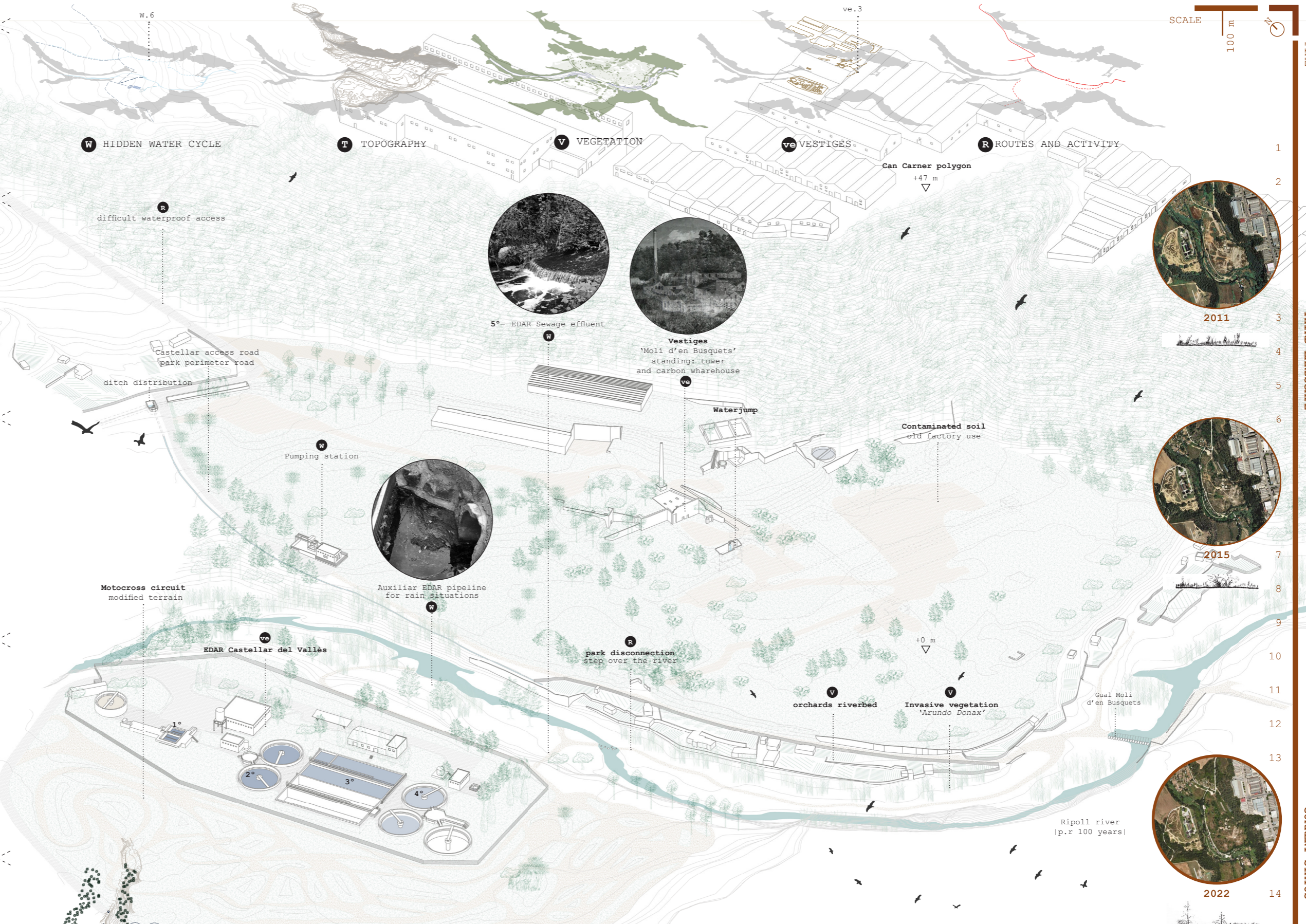


IMPLEMENTATION

The project "P.arcs del D.A.R.rriere" develops this thesis in the upper Ripoll River basin. Along its route, it proposes a series of intervention strategies that materialize in three hydroforestry management parks with a key role in improving this tributary of Besòs River. At the same time, they become connection points with the river for the municipalities of Sant Llorenç Savall and Castellar del Vallès, making visible the cycle of the water that starts when tap water is used or a drop of rain falls on asphalt.

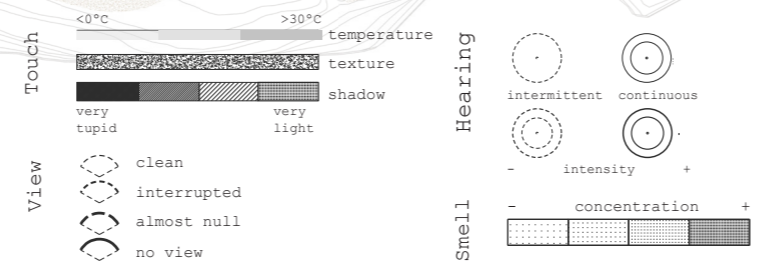


1 Third landscape
2 Carbon Warehouse vestiges
3 degraded riverbed
4 EDAR and motocross circuit
5 Third landscape



TIME
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CURRENT STATUS

PARADIGM_2008/2048

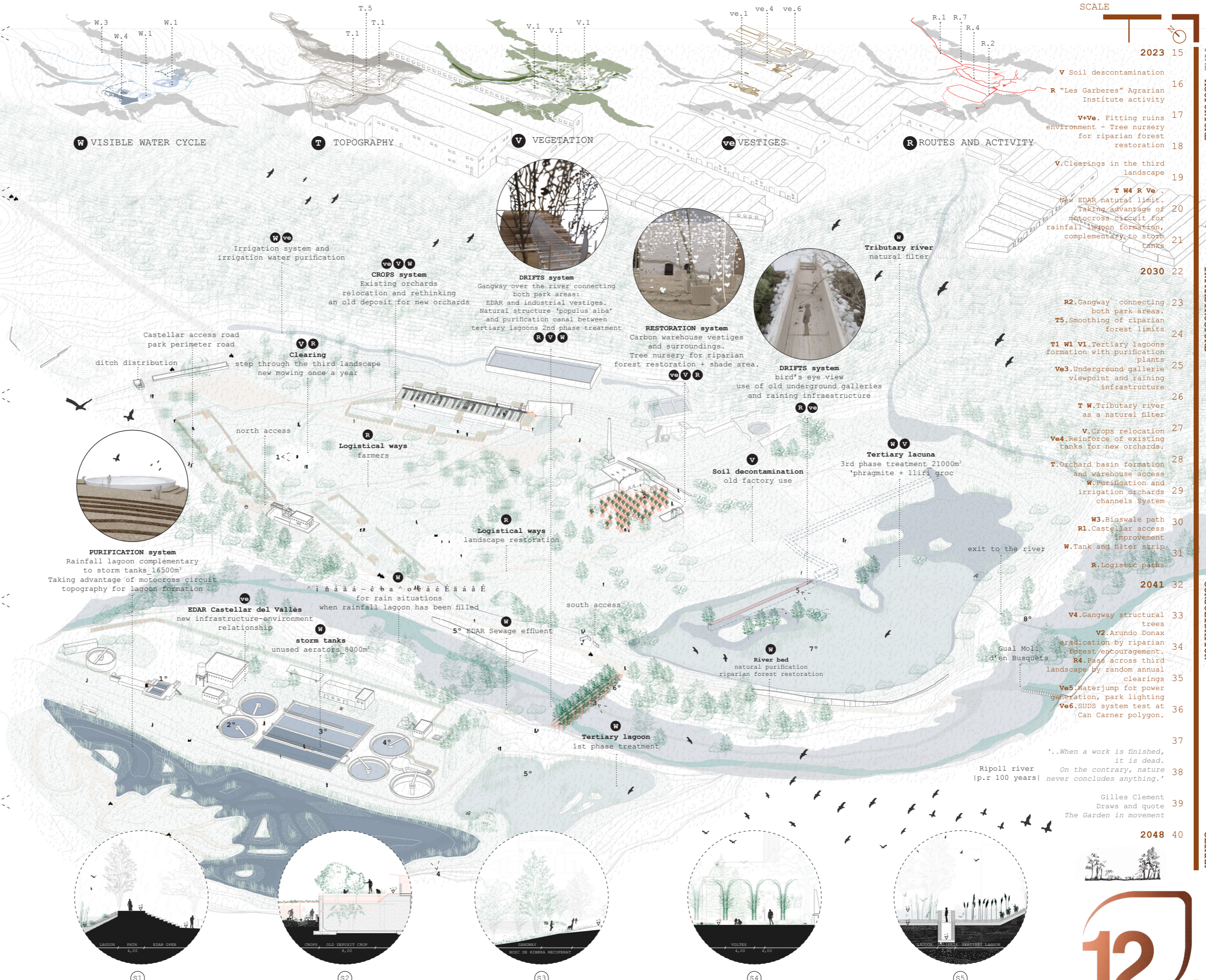


The PDAR of Castellar del Vallés is a paradigm for the design of these river restoration nodes. Using **sensory and analytic** reading of the **layers** that make up the space (water, topography, vegetation, vestiges and routes), the systems that compose its latent

metabolism are rethought (purification, crops, restoration and drifts) in order to answer its incipient needs employing localized architectural interventions contextualized in each moment of time and subordinated to the **future of the natural environment**.



1 Clearing
2 Experimental carbon warehouse
3 Gangway over the river
4 Rainfall lagoon
5 Tertiary lagoon viewpoint



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TIME ACUPNTURE

INFRASTRUCTURE

CONSOLIDATION

CLIMAX

S1 EDAR and rainfall lagoon relation. New natural limit. EDAR Workers + visitors | Aquatic fauna and purification flora

S2 Paths between crops. Rethinking an old deposit for new orchards. Farmers and students | Crop Fauna and flora

S3 Gangway connecting EDAR and industrial vestiges. River restoration + time. Visitors | Riparian flora and fauna

S4 Carbon warehouse vestiges and surroundings. Tree nursery for riparian forest restoration + shade area. Students + visitors | Terrestrial fauna and flora

S5 Tertiary lagoon viewpoint. Taking advantage of existing underground galleries. Visitors | Migration fauna migrant and purification flora.