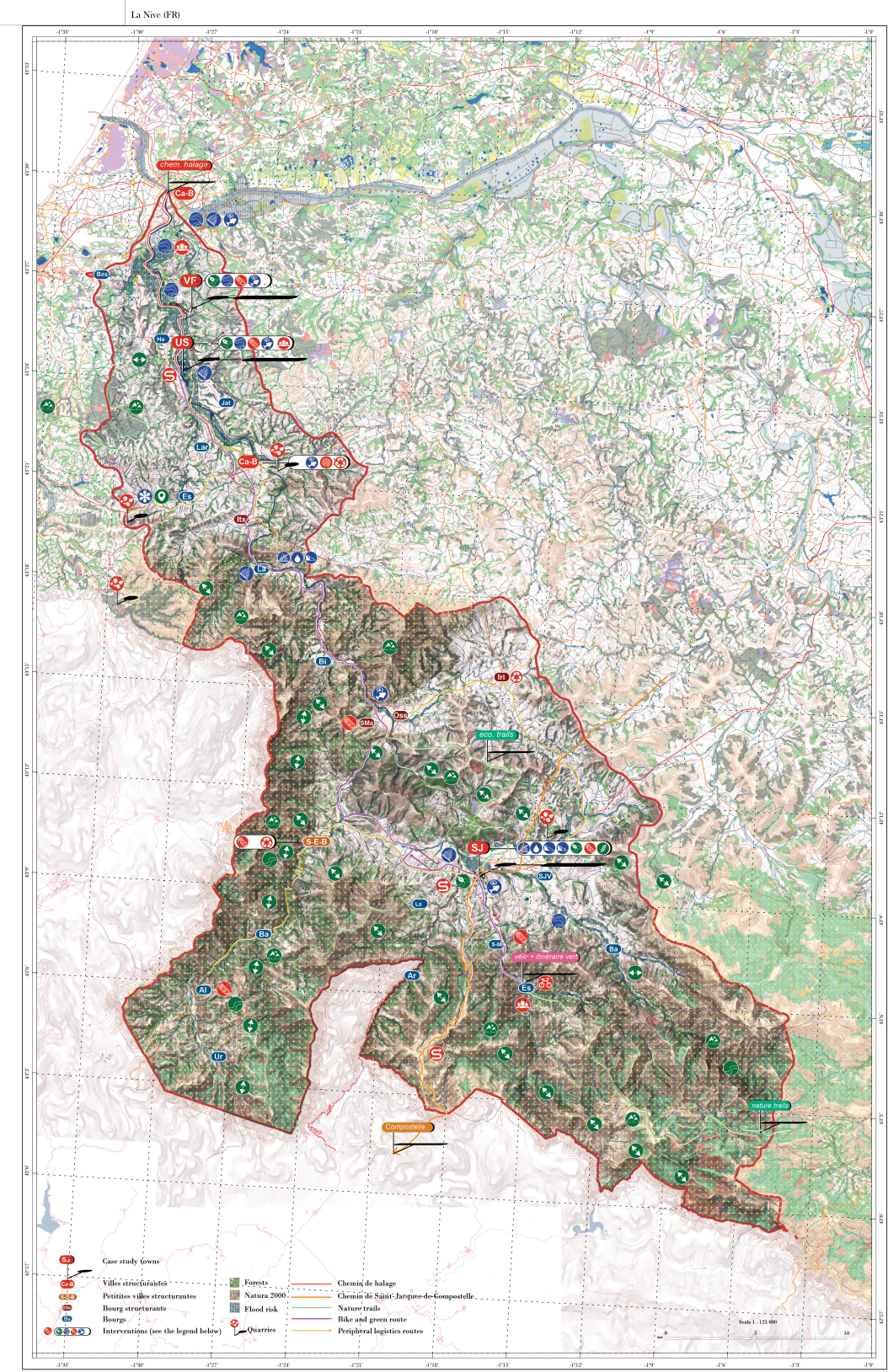
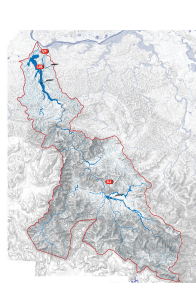
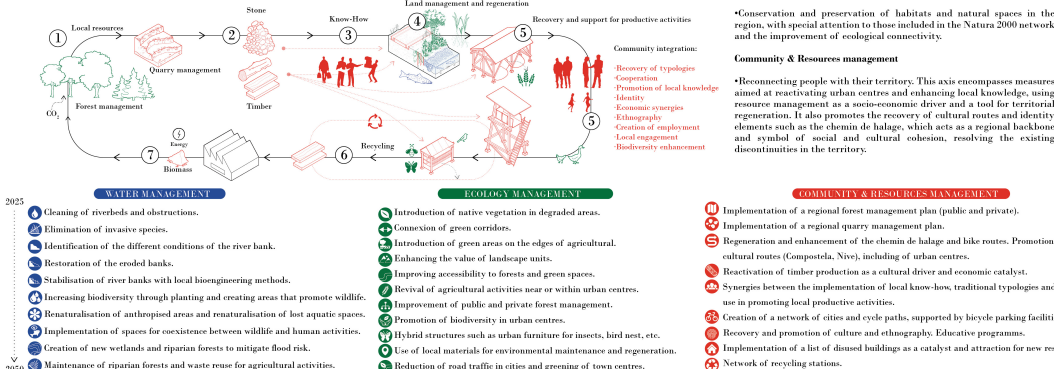


-RESSOURCES DE LA NIVE-



The Nive river basin is shaped by a fragile balance between the water, mountains, forests and agriculture, forming a rich and diverse landscape. For centuries, these ecosystems existed in harmony, but recent decades have seen this equilibrium disrupted. Climate change, along with changes in land use, tourism pressure, and soil overexploitation, have accelerated the degradation of this delicate environmental system.

The Resources de la Nive masterplan proposes to address this situation at its root by presenting a coherent strategy for territorial management based on the sustainable and conscious use of local resources. The answer to how to manage the territory is a resilient and sustainable way lies precisely in the river basin itself in its resources, in its materials.



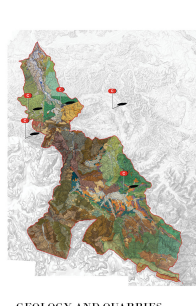
ZIP - FLOOD ZONES

The most critical flood zones are around the plains near Villefranque and Ustaritz. Techniques used in the Barthes, are noteworthy as a « energetic » solution for flooding and agriculture. In Ustaritz, as a case study, the expansion of wetlands is a buffer for flooding and mitigation of drought is proposed.



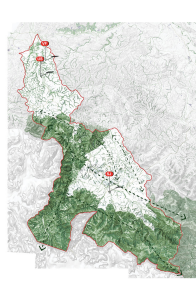
FORESTS

Forests are both a natural resource and habitat, as well as a source of timber and a solution for social, cultural and economic activities. Local woods, such as chestnut (Castanea), are a perfect solution for wet areas, and their durability makes them ideal for stabilizing river banks, slopes and reinforcing paths.



GEOLOGY AND QUARRIES

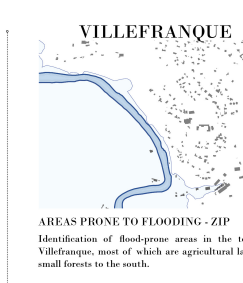
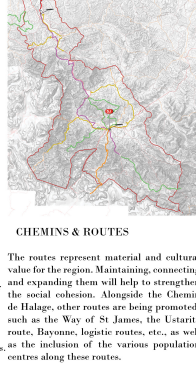
Geological resources have been and for centuries in the region. Responsible and sustainable management of active quarries must be used for local regeneration, path stabilization and riveted wetlands.



PRINCIPLES OF THE INTERVENTION AND IMPLEMENTATION

The action measures are articulated around three strategic axes:

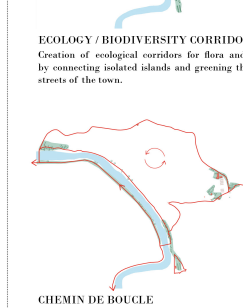
- Water management:** Regeneration and maintenance of riverbeds, with the aim of creating a resilient territory, capable of resisting floods and mitigating the effects of droughts over time. These actions seek to ensure coexistence between ecological processes and anthropic pressure.
- Ecology management:** Conservation and preservation of habitats and natural spaces in the region, with special attention to those included in the Natura 2000 network and the improvement of ecological connectivity.
- Community & Resources management:** Reconnecting people with their territory. This axis encompasses measures aimed at restoring urban centers and enhancing local knowledge, using resource management as a socio-economic driver and a tool for territorial regeneration. It also promotes the recovery of cultural routes and identity elements such as the chemin de halage, which acts as a regional backbone and reveals of social and cultural cohesion, reviving the existing discontinuities in the territory.



VILLEFRANQUE

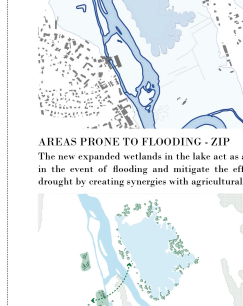
AREAS PRONE TO FLOODING - ZIP

Identification of flood-prone areas in the town of Villefranque, most of which are agricultural land and small forests to the south.



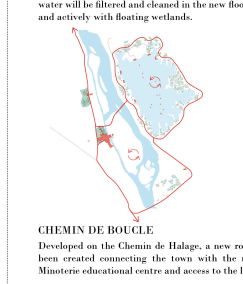
ECOLOGY / BIODIVERSITY CORRIDORS

Creation of ecological corridors for flora and fauna by connecting isolated islands and greening the main streets of the town.



CHÉMIN DE BOUCLE

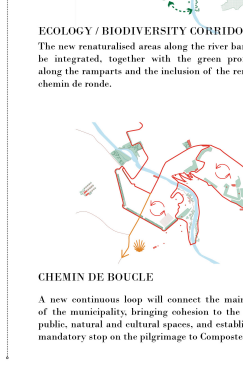
Creation of a loop trail connecting the main cultural assets and hubs of Villefranque, drawing upon the cultural and material value of the Chemin de Halage.



USTARITZ

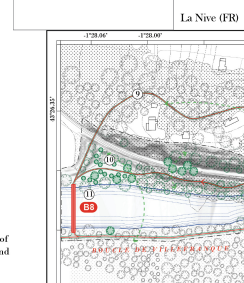
AREAS PRONE TO FLOODING - ZIP

The new expanded wetlands in the lake act as a buffer in the event of flooding and mitigate the effects of drought by creating synergies with agricultural land.



ECOLOGY / BIODIVERSITY CORRIDORS

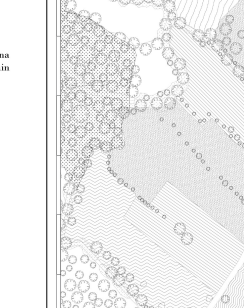
The restoration of the lake's vegetation diversity and the creation of wetlands will result in the creation of new habitats and ecological corridors. It will be necessary to clean up and remove invasive species. The water will be filtered and cleaned in the new floodplains and actively with floating wetlands.



SAINT-JEAN-PIED-de-PORT

AREAS PRONE TO FLOODING - ZIP

The old mill will be transformed into an educational, tertiary and residential complex. The main programme will be the Ecole du Bois, which revives the local working tradition and promotes Ustaritz as a link between the coast and the interior.



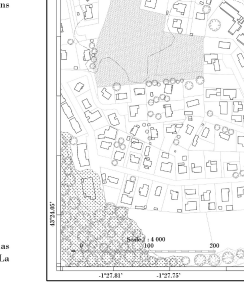
ECOLOGY / BIODIVERSITY CORRIDORS

The new interface provides access to Lac de la Gravrière.



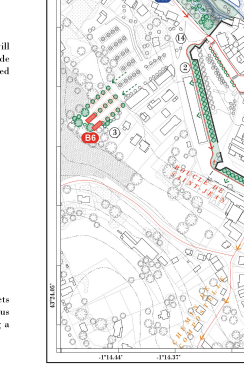
LA CROIXE

The Lac de la Gravrière serves as a key example of wetland management. Its transformation supports the creation of new habitats for aquatic species, restoring the riparian landscape and integrating multifunctional uses. These include recreational activities, fish spawning grounds, natural water filtration through vegetation and floating plant platforms, and designated fishing areas.



LA CROIXE

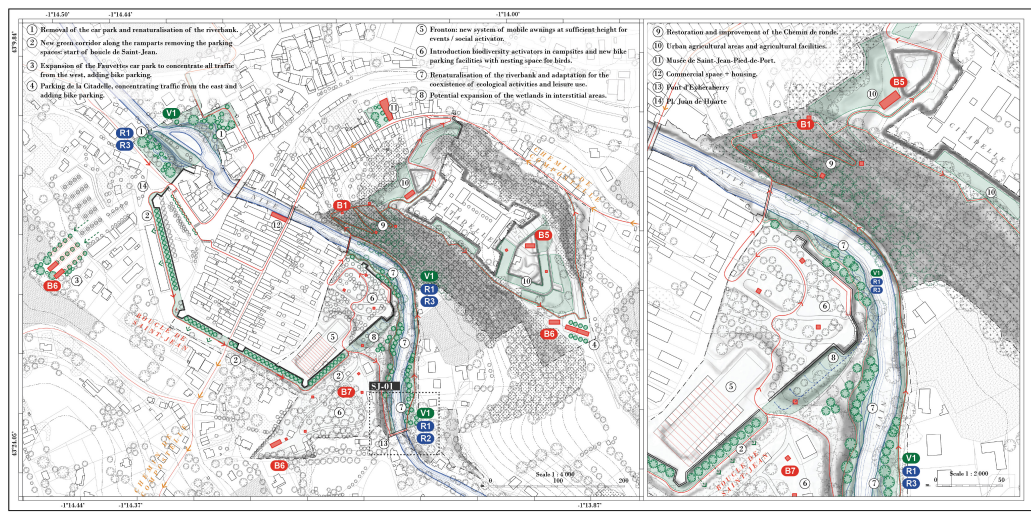
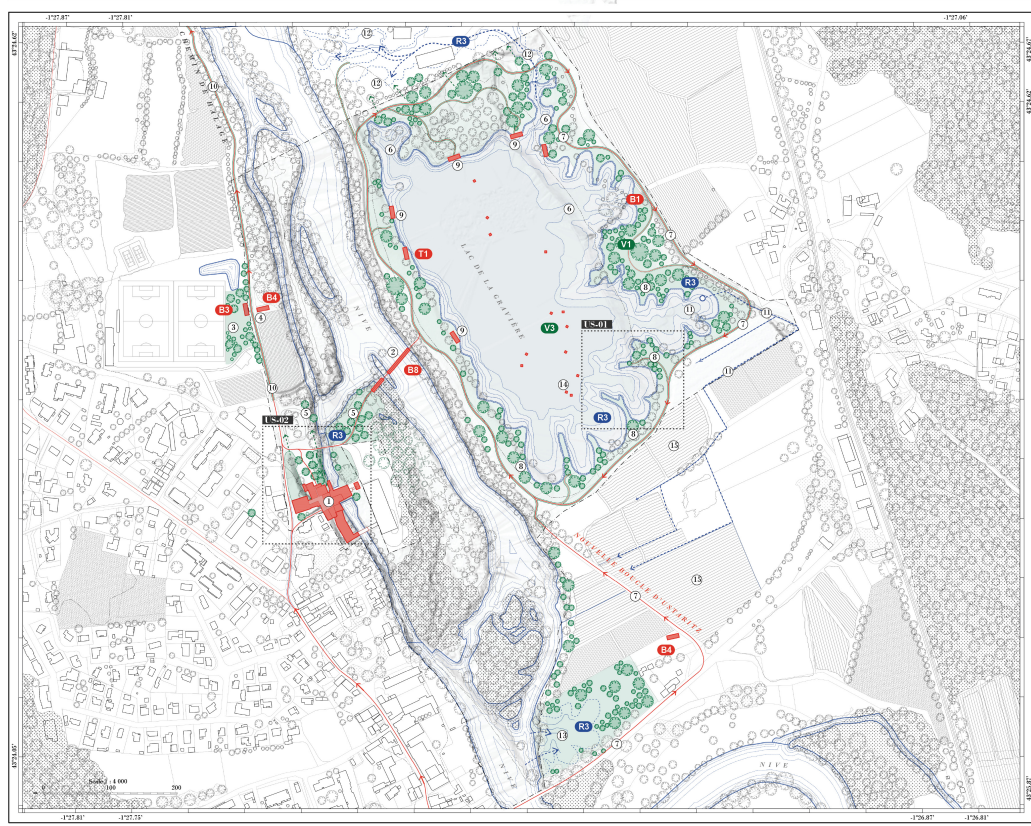
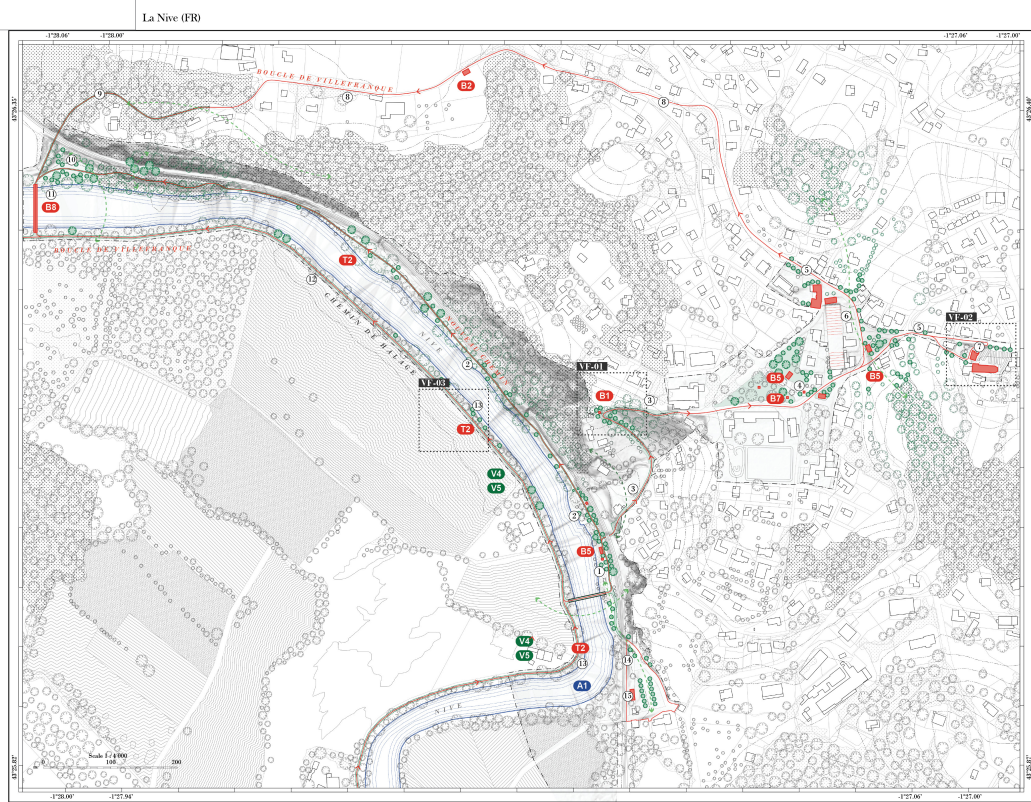
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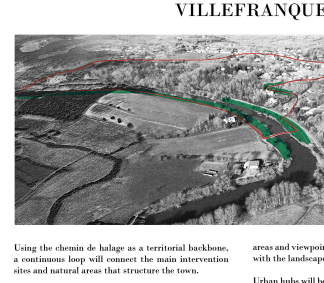
-RESSOURCES DE LA NIVE-



SAINT-JEAN-PIED-de-PORT

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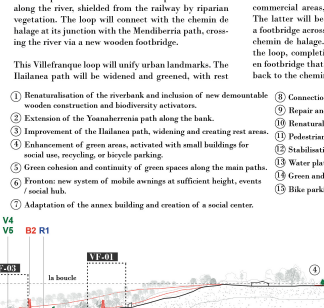
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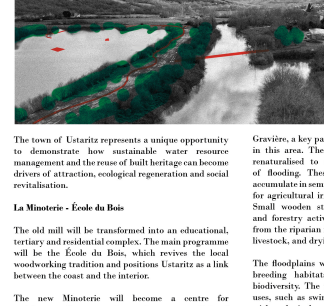
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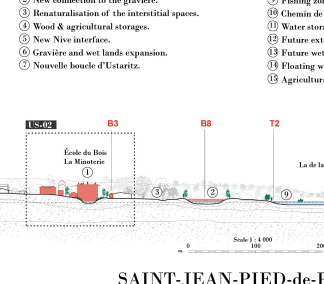
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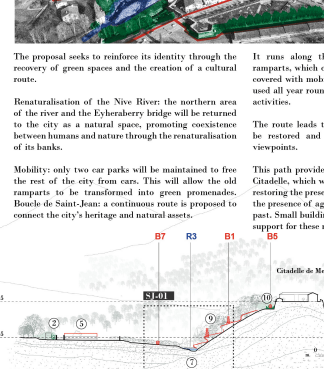
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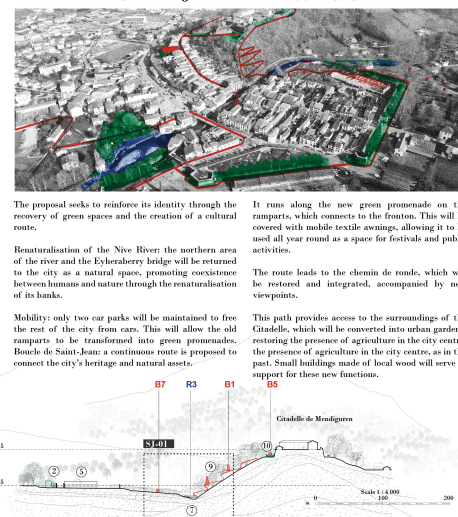
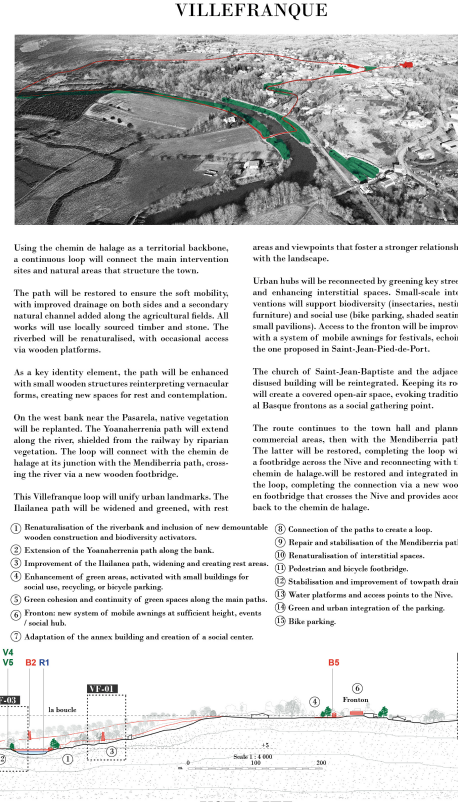
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-RESSOURCES DE LA NIVE-

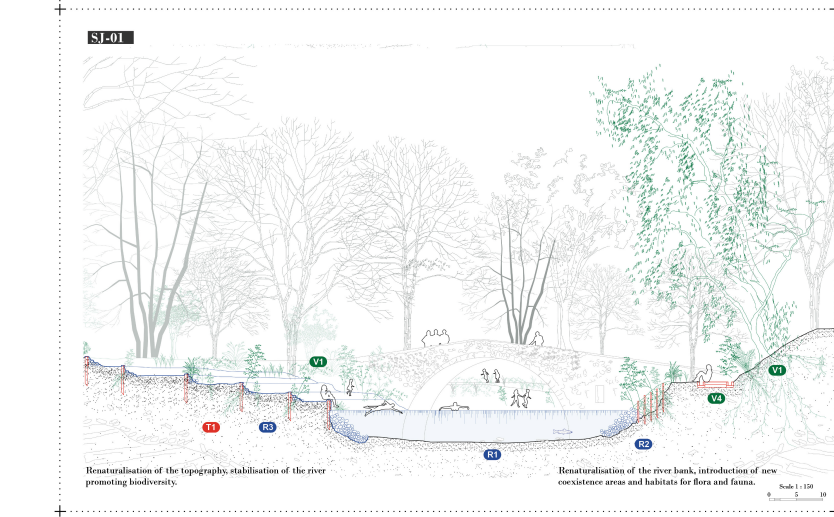
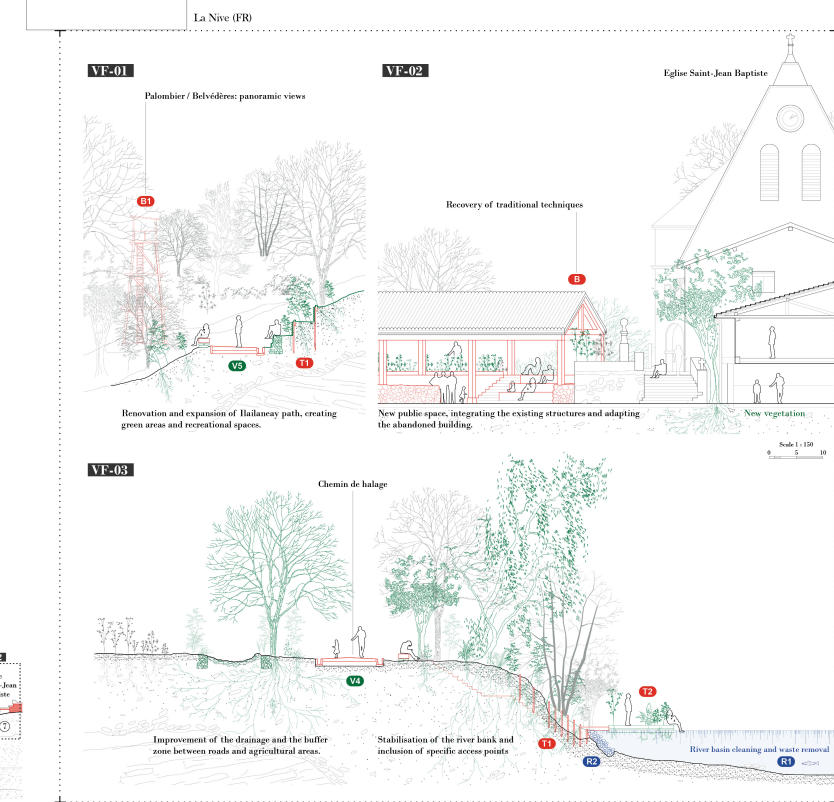


SAINT-JEAN-PIED-de-PORT

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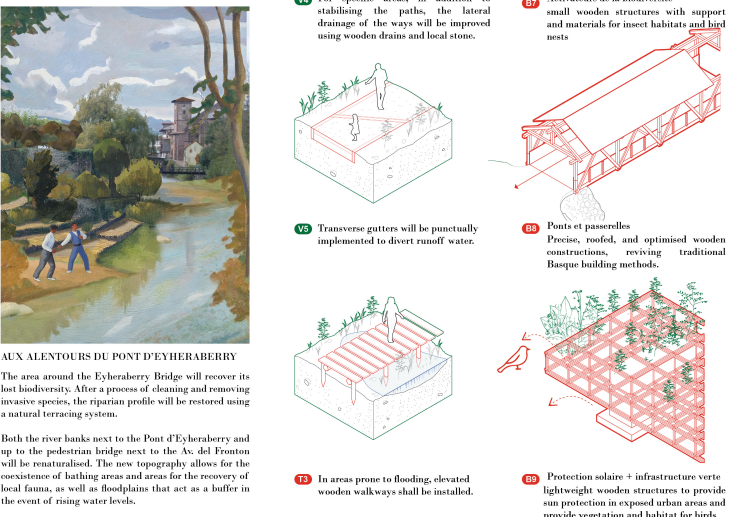
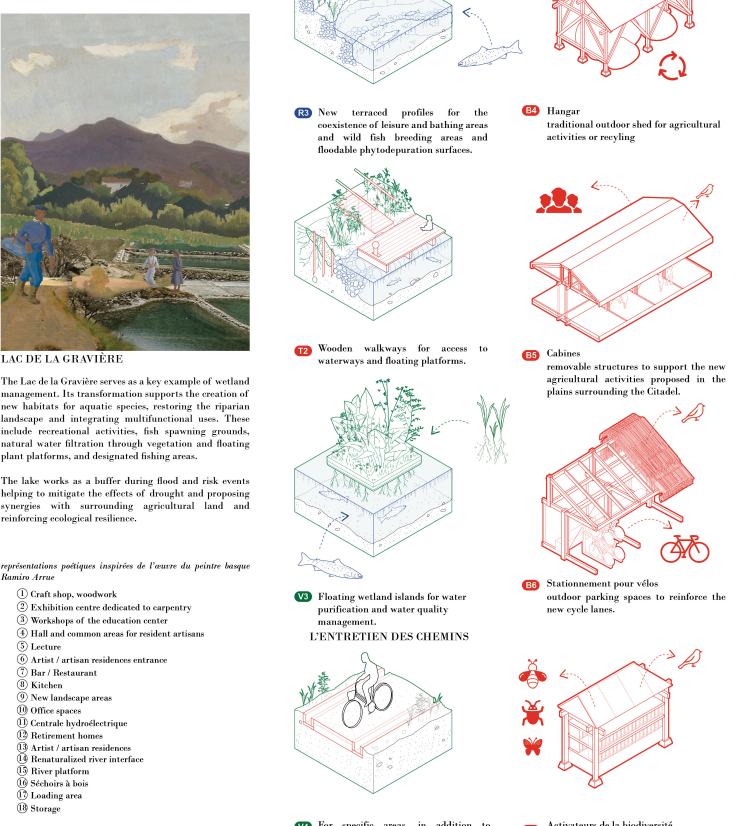
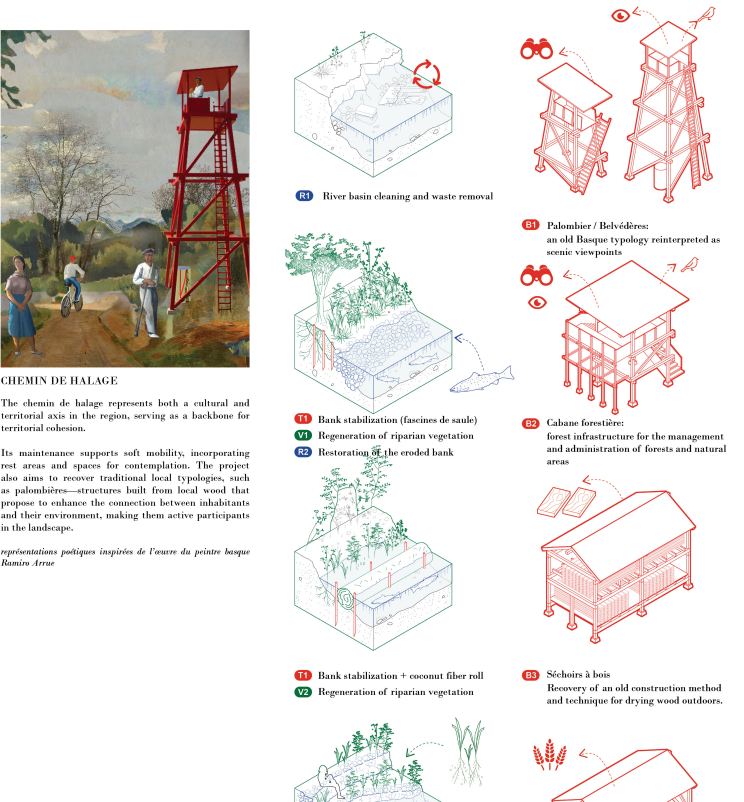
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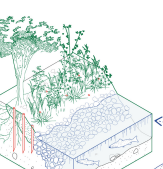
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L'ENTRETIEN DES BERGES

BOIS DE LA NIVE: TYPOLOGIES



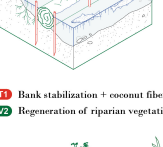
11 River bank cleaning and waste removal



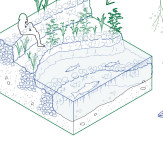
12 Bank stabilization (facies de sable)



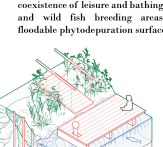
13 Regeneration of riparian vegetation



14 Restoration of the eroded bank



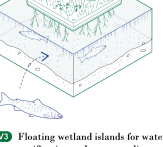
15 Bank stabilization + coconut fibre roll



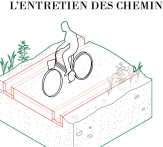
16 Regeneration of riparian vegetation



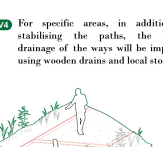
17 New terraced profiles for the coexistence of leisure and bathing areas



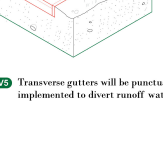
18 Wooden walkways for access to waterways and floating platforms



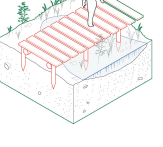
19 Floating wetland islands for water purification and water quality management



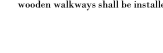
20 Transverse gullies to be punctually implemented to divert runoff water



21 In areas prone to flooding, elevated wooden walkways shall be installed



22 Protection solution + infrastructure verte



23 Lightweight wooden structures to provide sun protection in expanded urban areas and provide vegetation and habitats for birds