## Creating space for melting mountains



Country /City		
Country /City University / School		
	4	
Academic year Title of the project		
- Authors		

Switzerland / Zurich ETH Zurich 2021 - 2022 Spina Dorsela Marin Lercher, Florian Rüegg



## TECHNICAL DOSSIER

Title of the project	Spina Dorsela	
Authors	Marin Lercher, Florian Rüegg	
Title of the course	se cinétique, climate-change adaptation to natural hazards	
Academic year	2021 - 2022	
Teaching Staff	Martina Voser, Coralie Berchtold Yann Junod, Sofia Prifti	
Department / Section / Program of belongingD-ARCH Department of Architecture / Landscape Architecture / Studio Voser		

University / School ETH Zurich



" Creating space for melting mountains "

The Upper Engadin area is currently facing various challenges. On one hand, natural hazards, intensified by climate change and the thawing of permafrost, such as floods, debris flows and rockfalls. On the other hand, unplanned settlement growth, leading to spaces that are disconnected from their surroundings, and lacking urban qualities. Consequently, due to human settlements and agricultural expansion, the Engadin mountains have been detached from the river basin of the Inn, with negative consequences for both flora and fauna. "Spina Dorsela" aims to address these challenges and transform them into opportunities. The Inn river acquires a new role and becomes the backbone of the valley. Through renaturation, it can absorb large amounts of water during heavy precipitation, while creating habitats of increased ecological value. Additionally, it offers seasonal recreational spaces for residents and visitors. Perpendicular to the Inn river, forested cross ribs create a new structure in the valley that can mitigate natural hazards from the side valleys and connect the mountain to the river. This structuring of the valley provides the infrastructure for a sustainable expansion of the settlements. In the future, there may even be an alpine city that emerges, developing between and in harmony with the opposing forces of the mountain and the river.

For further information

Máster d'Arquitectura del Paisatge - UPC

Contact via email at: master.paisatge.comunicacio@gmail.com

biennal. paisatge@upc. edu

## Máster d'Arquitectura del Paisatge - UPC

Sede ETSAB - Universitat Politècnica de Catalunya

Calle Jordi Girona, 15. Edifcio Omega 1-3 08034 Barcelona - Spain

COAC - Colegi oficial d'Arquitectes de Catalunya

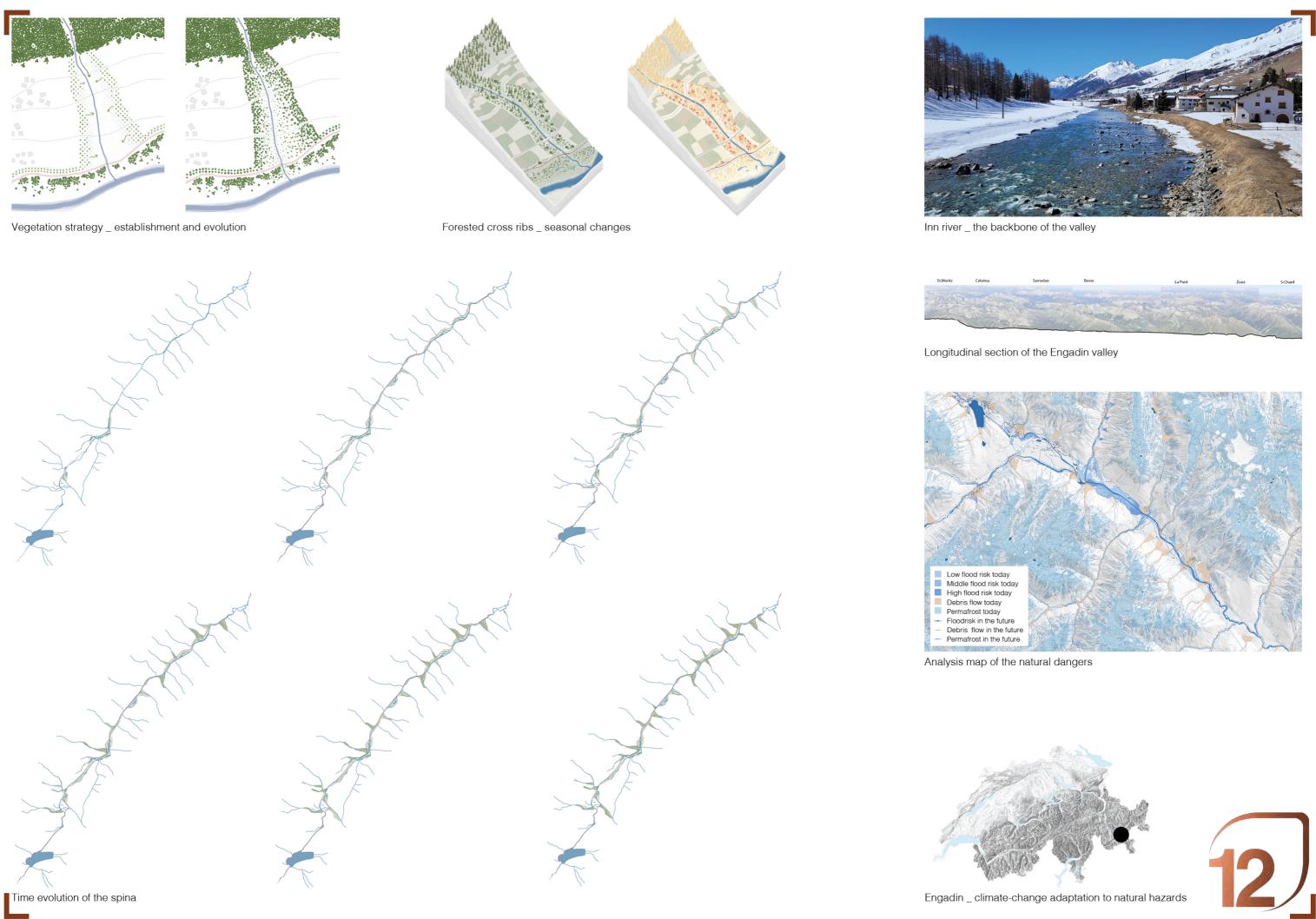
Carrer Arcs, 1-3 08002 Barcelona - Spain 12th International Biennal Landscape Barcelona

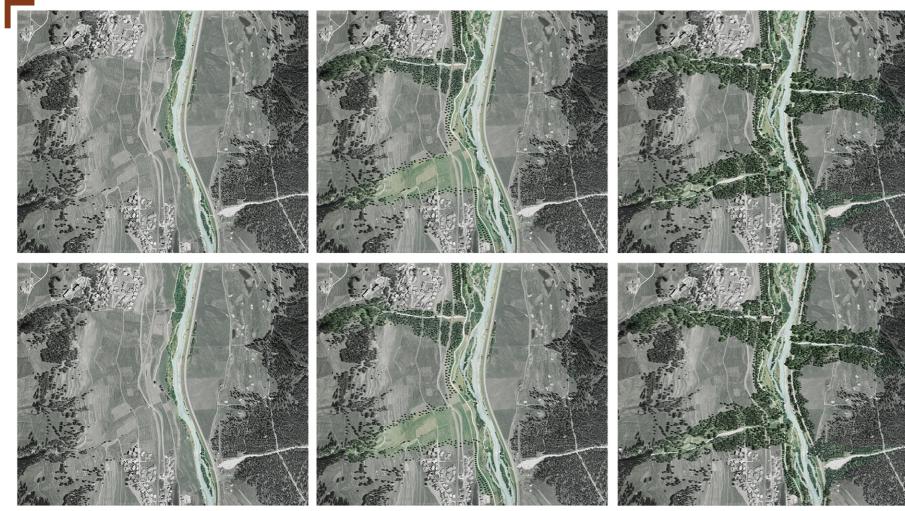
Barcelona

SCHOOL PRIZE



October 2023

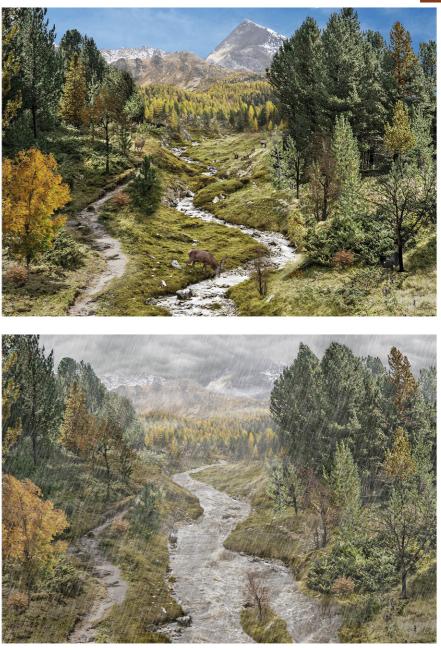


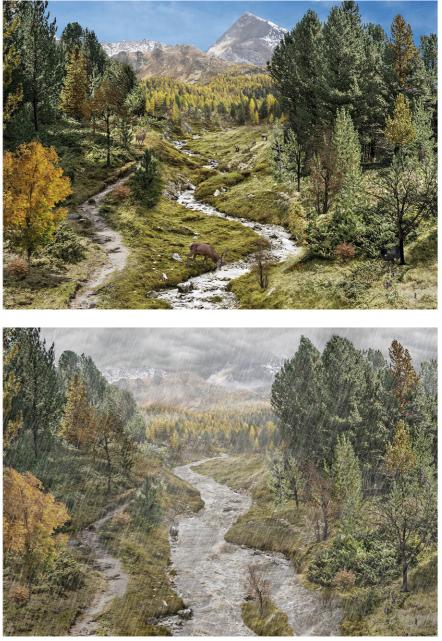


The new interventions establishing ecosystems with time



Envisioning the Engadin valley as a climate-change proof region





Adaptive landscapes to seasonal changes



