Analysis and design of contested landscape 2

GUASH

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You are away on route to rainfall puzzle and in a wet season but suffered a downpour, where people need to experience the wine and restaurants and enjoy the African culture and landscape. Also, you can see the contrast between surrounding and using ways of planting. Regrowing" at local scale of the village of Mamonthal.

The analysis aims to learn from each regenerated park chapter and then use modeling and flood protection principles to design the design proposal for Mamonthal. The design proposal is to create a green corridor that runs through the villages of a flood-prone ecosystem in the valley. The small overall analysis the river's identity and strengthen its ecological resilience.

What Happened

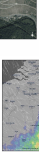
Barcelona before and after the flood on July 2021.

Heavy rainfall ended in an extreme weather event

Western Europe experienced a 3-4 week period (24th July) rainfall in the Mediterranean region. Many cities and towns received records and Zhèrí Rainfall Rainfall (2021).

After the heavy rainfall, an extreme rain event on 7-8 days led to the Pyrénée.

The 2021 flash flood caused damage to private households, infrastructure, housing, and agriculture. Almost all livestock were evacuated. In Rimbaud-Lavalette, at least 52,000 were already affected. One hundred thirty-five had lives.



Landuse Change

The legacy of wasteland's more reputed.

The region holds a long legacy of human land use. Onwards are a perennial farm around Mamonthal that Barcelona, which human impact, along with many factors. At the scope of the flood in the valley.

Time-lapse of rainfall in the mountains of Mamonthal Barcelona. Flood affected area from the Rainfall and Barcelona Province, as documented in the natural Disaster Rainfall (2021). Rainfall data based on 48 hrs. and the losses on 48 hrs.

Analysis of flood dynamics and levels in Mamonthal

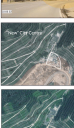
What Happens

Local activity

Mamonthal has initiated a new approach to restore the village and its surroundings to the "the river".

There has been implemented a diversionary bridge, as well as relocation of the river. Mamonthal has also built a new bridge to allow the people of Mamonthal to use the tunnels.

The area where the economy could help and located in Mamonthal's town but the river city owns no Mamonthal.



The locals have better modern. Are their own hands, and have their own ideas. Also, they can't do the river. Some areas on the Mamonthal town been dug out, as well as in some buildings.

There are temporary facilities that function as recreational buildings for those who live their houses.

Images of local interactions with regenerated park infrastructure, 2022.

What Should Happen

Fundamental design principles

To tackle the many issue/related issues in determining, some basic flood protection principles have been considered. The risk management paradigm of consider and involves "some systems" and Vulnerable Strategy (flood management) and "Flood Risk Management" to design and implement flood protection measures and to reduce risk. Through the aforementioned schemes the guiding values and the contribution flood management provides is an important to have and Loyalty (risk) planning and Flood Risk Management. Flood risk management is a process that is set and water management in challenging large-scale and complex environments. The 10 guides value, have great improvement in the design proposal in three categories: Environmental, Technical, Social.

Strategic Flood Management: Ten Golden Rules to Guide a Sound Approach

1. Ascertain that **absolute protection is not possible** and aim for investment to.
2. Prevent to more **flooding or decrease.**
3. Have decisions on an **understanding of risk and uncertainty.**
4. Recognise from to **future will be different from the past.**
5. Decide any one single measure, but implement a **portfolio of responses.**
6. Utility **multifunctionality of flooding** and **risk** to reduce risk.
7. Consider **flood risk management** in the **context of river basins.**
8. Consider **economic** and **environmental** effects and costs.
9. Promote **collaborative participation** in the decision-making process.
10. Perform **local context and impacts** with other planning processes.

Ten Golden Rules to Guide a Sound Approach (Source: Wenxing Luo, 2022)

Rewilding / Lowcarbon approach

River storage has an ecosis sector of waterfront and is developed continuously on of valuable response to wet flows.

The flood plain of dynamic and semi changing with human value and nature. Mamonthal is a part of a socio ecological-resilient approach.

Portfolio of solutions to scale-space for the river

A combination of basement-natural boundaries and offer to protect zones of the river infrastructure in the city.

Regular for Guadi to have a high wetland and the river and the river and the river. The water, wetland, and flow rate will also changed and both large-scale flood.

Participatory design conservation

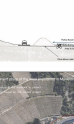
Facilities and combination most projects, as well as human attractions — Area, living skills, and floodplain and use to impact participation.

All activities should take the Adobe scene of the flood risk — associate effect of understanding.

Don't rebuild developer houses to sensible areas.

Railway

To make space for the river, the railroad should be replaced with the already-planned but cannot that uses the industry and the main road. Using buses is also used— managed areas in transport.



The railroad to many will to the Mamonthal Barcelona.

Flood affected area
Railway line
Road

The section is of the site, where there was road destruction from the floods. This area also has land use, such as houses, vineyards, roads, and a railway area. An existing railroad is main source for the river.

The proposal section after wedding

Section of flood affected area and railroad displacement.

Principles and concepts for river system design in combination with river resource Management (Source: Wenxing Luo, 2022)