

# Water & Soil Regenerative Design for Territo- rial Transition

Master Entwerfenmodul

WiSe 2022/23

Matthias Armengaud,  
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[stdb.tugraz.at](http://stdb.tugraz.at)

**“We have to think of the transition as a project that will address environmental and socio-economic vulnerabilities.”**

**Berrizbeitia, Anita**

**Towards Territorial Transition (2022)**

# Water&Soil

## Regenerative Design for Territo- rial Transition

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# Introduction and Context

Matthias Armengaud, Radosława Radulova-Stahmer

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Water and soil are the fundamental resources on which all life on the planet is grounded. It spans a relationship of territory and resources and puts them in a systemic context. The design studio substantially questions the current production of space that planning practice creates with today's fuel-based paradigms in favor of a carbon-neutral regenerative spatial and systemic design that focuses on the value and care of resources.

In the studio we will explore water bodies, infrastructures, ecosystems, but also their protocols, processes and architectural form in order to balance the needs of different territorial agents guiding us to design and use the fundamental tools of the architect, such as model, section, or axonometry to not only improve but regenerate specific systems on site.

We invite students to tackle wicked problems in the building sector by investigating the existing systems and developing a critical position by physical commitment and explorative perception of a specific site along water bodies. After an initial territorial atlas, we will conceptualize a site journey – as investigative walk with open senses (day or night) – to follow the traces of eco-systemic dynamics and

metabolic flows, which we will then translate into architecture, addressing the critical contexts of Territorial Transition. The aim is to design a build identity, an architectural project as strategic icon for the site which will bring added value not only for the neighborhood but will be able to profoundly redefine the territory.

## Context



[01]



[02]



[03]



[04]



[05]



[06]



[07]

[07] Relation between resources and objects  
Anna Positano





[08]



[09]

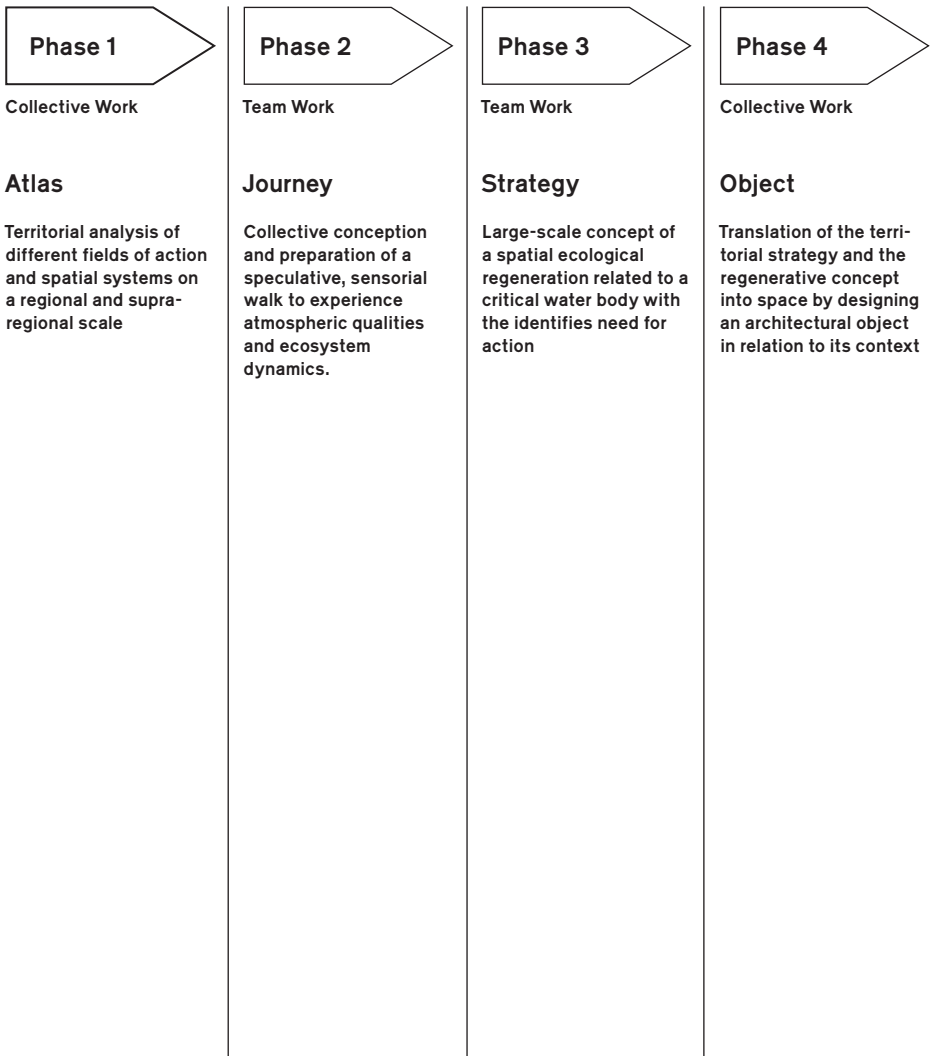
[08 - 09] Water identities  
Anna Positano



[10]

[10] Water in the anthropocene  
Anna Positano

# Design Process





[11]

### AMBITION

The semester objective is to develop a robust design strategy and a regenerative architecture for a selected water body. Students learn to understand territorial relationships between different systems and to identify and design for different qualities at different scales. You learn to identify needs for action, read large-scale systemic relationships, and set measures for territorial transition.

You acquire the ability to define requirements of an inclusive habitat into spatial objectives, to design processes and to translate territorial carbon-neutrality in spaces and architectures. You will comprehensively consider different types of water bodies, such as retention areas, groundwater, sewers, rivers, lakes, etc., in their systemic effects and create a contribution to regeneration through an architectural setting.

You will develop individual strategies as a team, which will finally converge into a synthesis to create a territorial vision. Graphic representation, presentation and communication of concept and vision, and reflection on the impact of the plan including the design (spatial, functional and social impact) are learned and practiced.

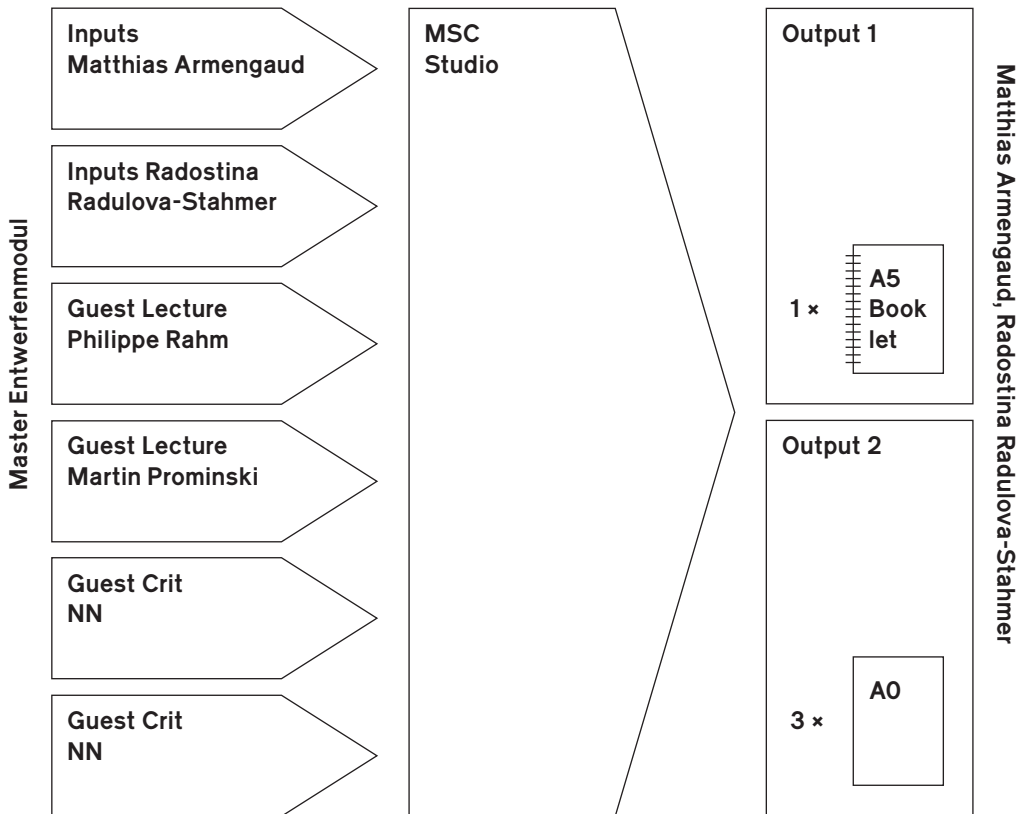
### MEETINGS

The processing of the task takes place in teams and in collective work. Table discussions and feedback will be provided in small group sessions, both in the studio space and online on Wednesdays mornings, from 10am to 1 pm. In case of an absence or illness we ask for a short notification by email.

## Design Process

October	November	December	January
<p>Meeting 1 <b>Wed. 5.10.22</b></p> <p>Introduction Studio, Atlas and Glossary</p>	<p>Meeting 5 <b>Thu. 03.11.22</b></p> <p>Guest Lecture, Territorial Strategy</p>	<p>Meeting 10 <b>Wed. 07.12.22</b></p> <p>Architectural Object</p>	<p>No Meeting <b>Wed. 4.1.23</b></p> <p>New Year</p>
<p>Meeting 2 <b>Wed. 12.10.22</b></p> <p>Atlas and Glossary, Preparation Walk</p>	<p>Meeting 6 <b>Wed. 09.11.22</b></p> <p>Territorial Strategy</p>	<p>Meeting 11 <b>Wed. 14.12.22</b></p> <p>Architectural Object</p>	<p>Meeting 12 <b>Wed. 11.1.23</b></p> <p>Territorial Vision</p>
<p>Meeting 3 <b>Wed. 19.10.22</b> <b>Thu. 20.10.22</b></p> <p>Walk</p>	<p>Meeting 7 <b>Wed. 16.11.22</b></p> <p>Architectural Object</p>	<p>No Meeting <b>Wed. 21.12.22</b></p> <p>Christmas</p>	<p>Meeting 13 <b>Wed. 18.1.23</b></p> <p>Pin-Up Discussion, Preview</p>
<p>Meeting 4 <b>Thu. 27.10.22</b></p> <p>Pin-Up Atlas, Discussion Design Strategy</p>	<p>Meeting 8 <b>Wed. 23.11.22</b></p> <p>Mid-Term</p>	<p>No Meeting <b>Wed. 28.12.22</b></p> <p>Christmas</p>	<p>Meeting 15 <b>Wed. 25.1.23</b></p> <p>Finals</p>
	<p>Meeting 9 <b>Wed. 30.11.22</b></p> <p>Architectural Object</p>		

# Input und Output



## Impressum

### COURSE

Master Studio Water & Soil, WiSe  
2022/23

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