Scenario & forecasting

27.11.2023
16 00 – 17 30 CET

LE:NOTRE *Institute*
Linking Landscape Education, Research and Innovative Practice

ULB Faculté d'Architecture La Cambre Horta

Sapienza Università di Roma

Politechnika Gdańska

Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen

Adeniz University

Co-funded by the Erasmus+ Programme of the European Union

Scenario & forecasting

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Thinking landscape through economy
Thinking economy through landscape

Our TELOS pathway so far

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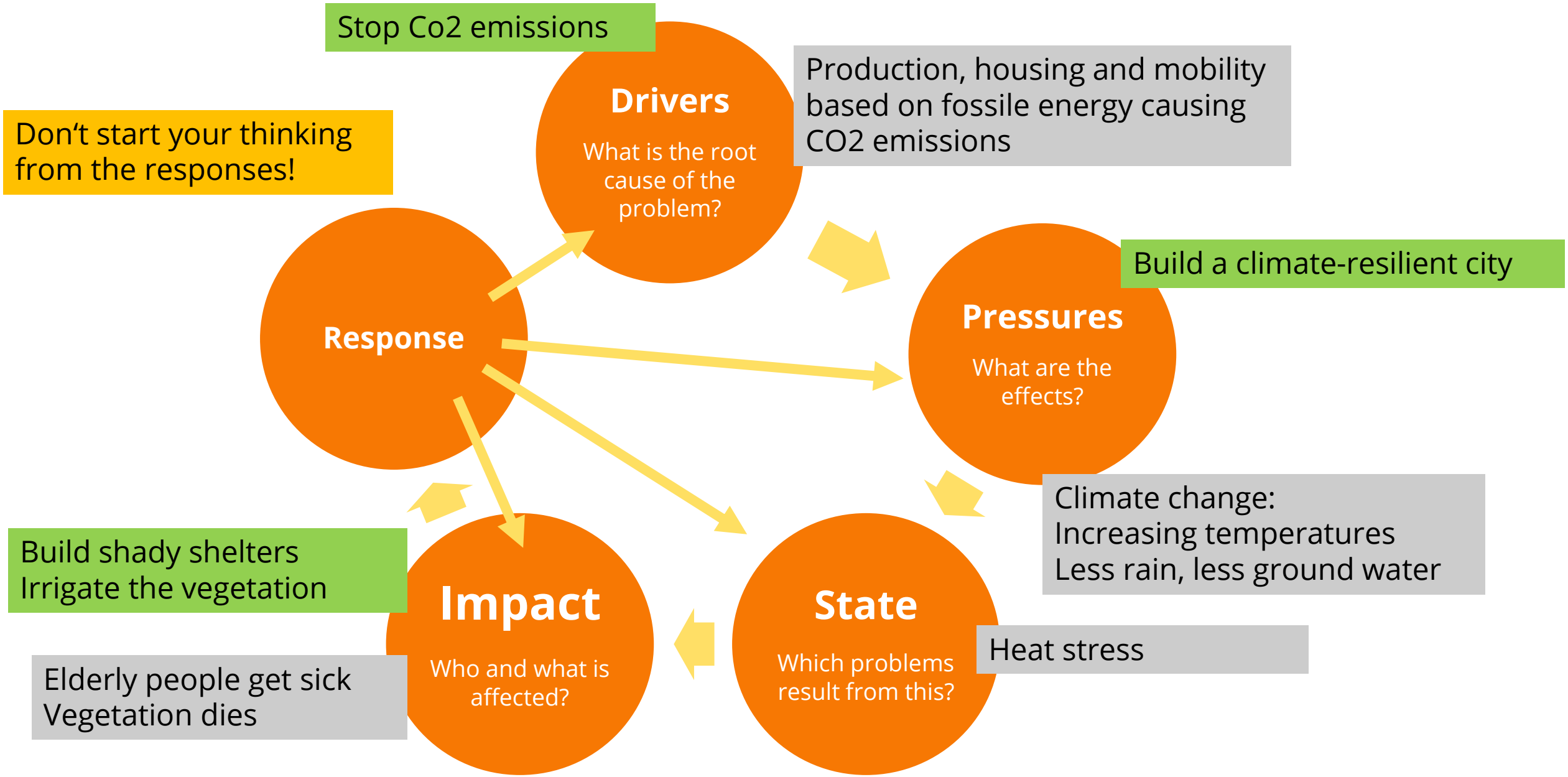
System Context: DPSIR Analysis



Why using DPSIR?

DPSIR (Drivers, Pressures, States, Impacts, Responses) is a framework in which you can look at and analyse the important and **interlinked relationship** between social and environmental factors.

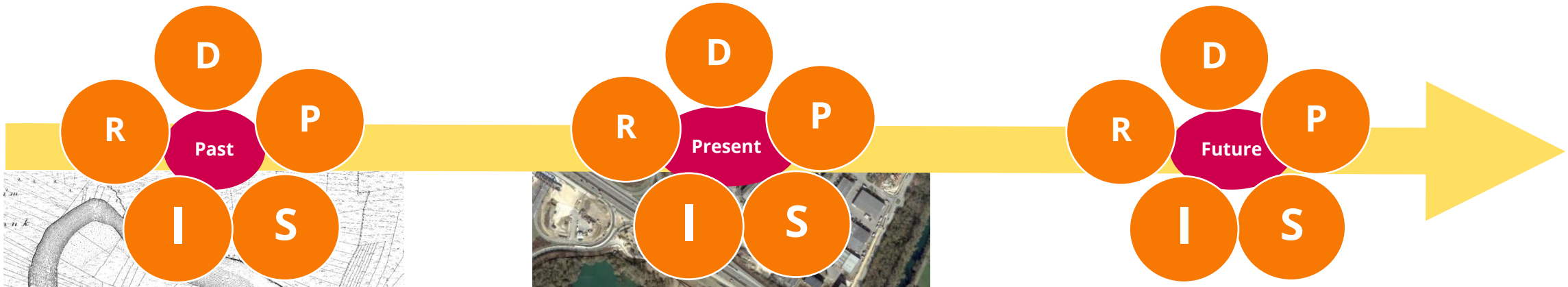
It is a well received popular framework internationally.

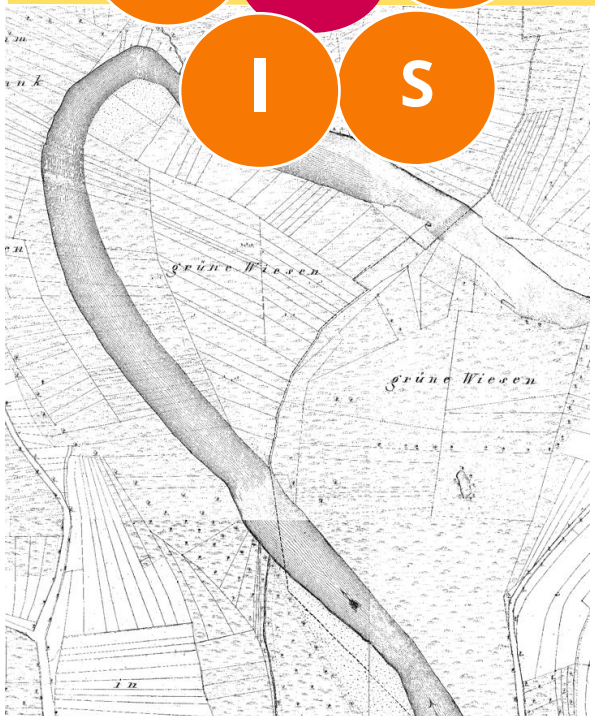
The DPSIR model is a good analytical framework for assessing complex natural resource issues.

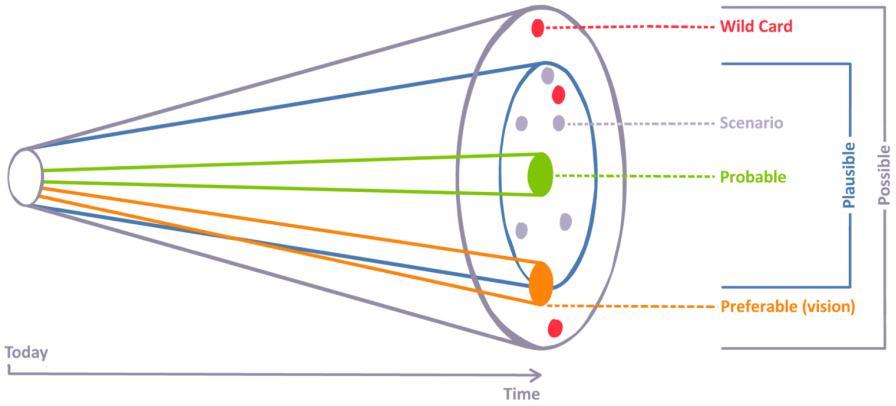
https://learningforsustainability.net/mwa/dpsir/

DPSIR can help you understand past, present and possible future transformation

How <u>was</u> it and why? **How <u>is</u> it and why?** **How <u>will</u> it be and why?**







Let’s brainstorm!

Divers, Pressures, State, Impacts for our area of study

We can practice a bit on our MURAL board

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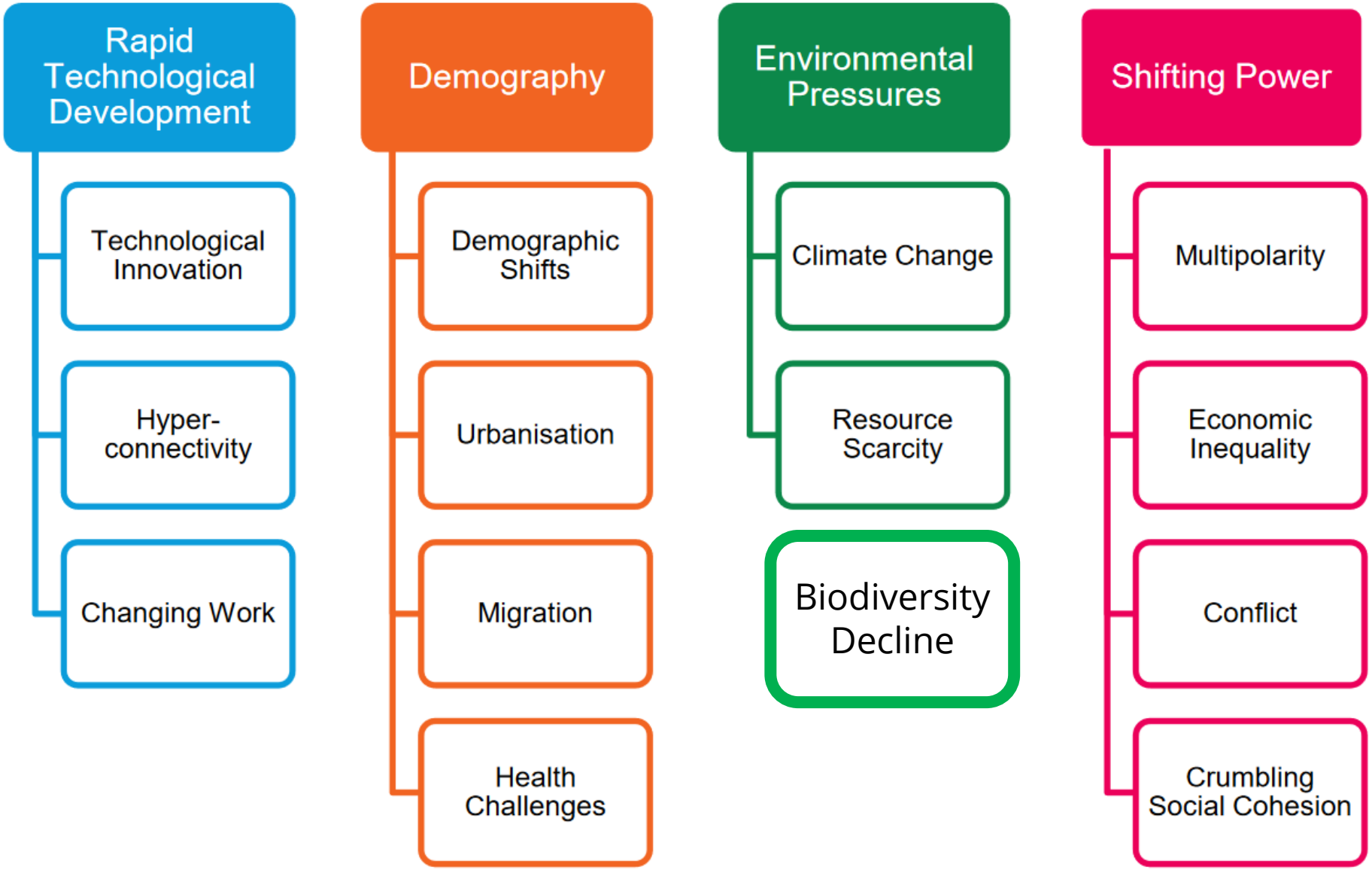
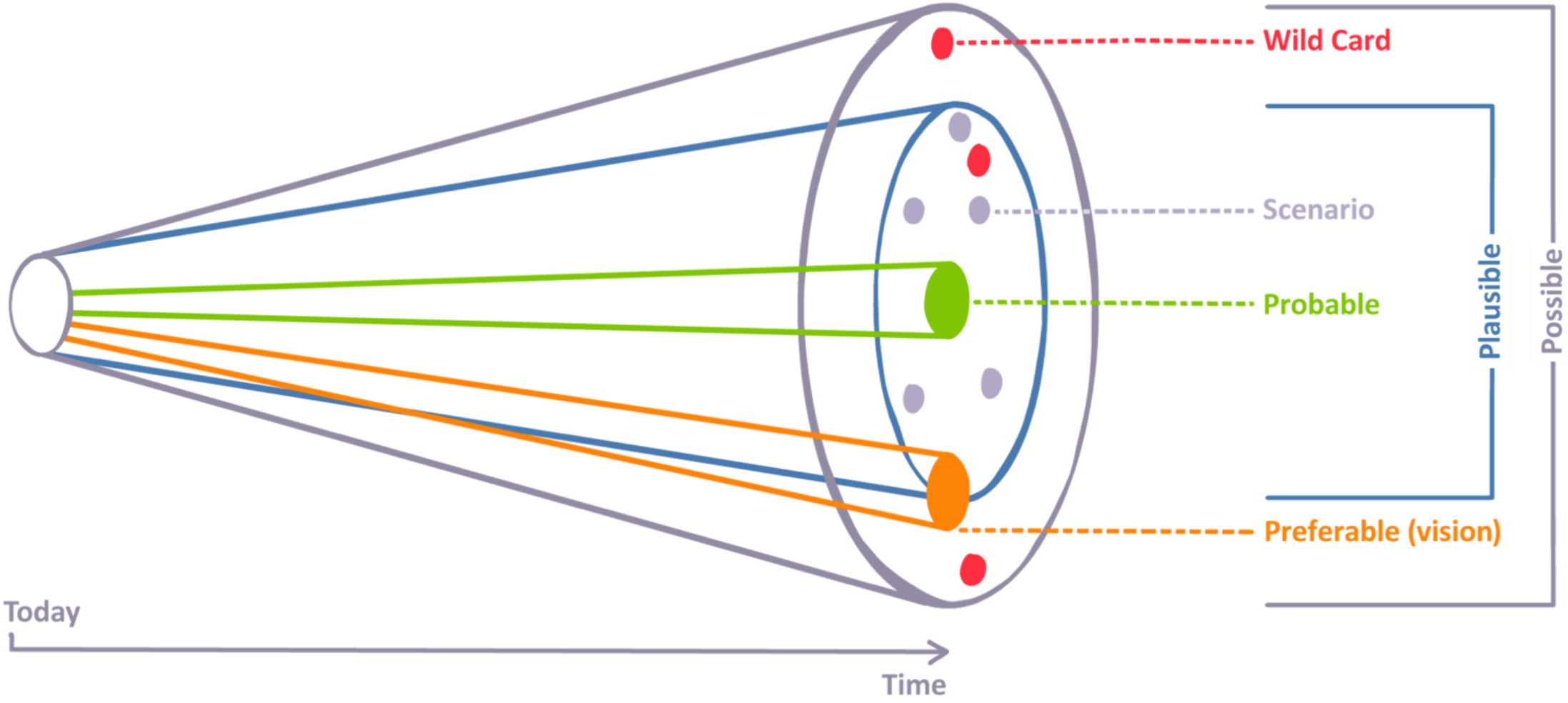
https://app.mural.co/t/ellensroom0969/m/ellensroom0969/1701094746118/238d00e531ecd3f18d5a13b0acac607a3ba5c65b?sender=uf0d0317c21c100e921666205

Keeping the global megatrends in mind: The four clusters



Oxfam Discussion Papers (2020): Global Megatrends. Mapping the forces that affect us all.

You have to inticipate:
What if....? How will it be? Who wins? Who loses?



https://studentsatthecenterhub.org/resource/tool-exploring-plausible-probable-possible-preferred-futures/

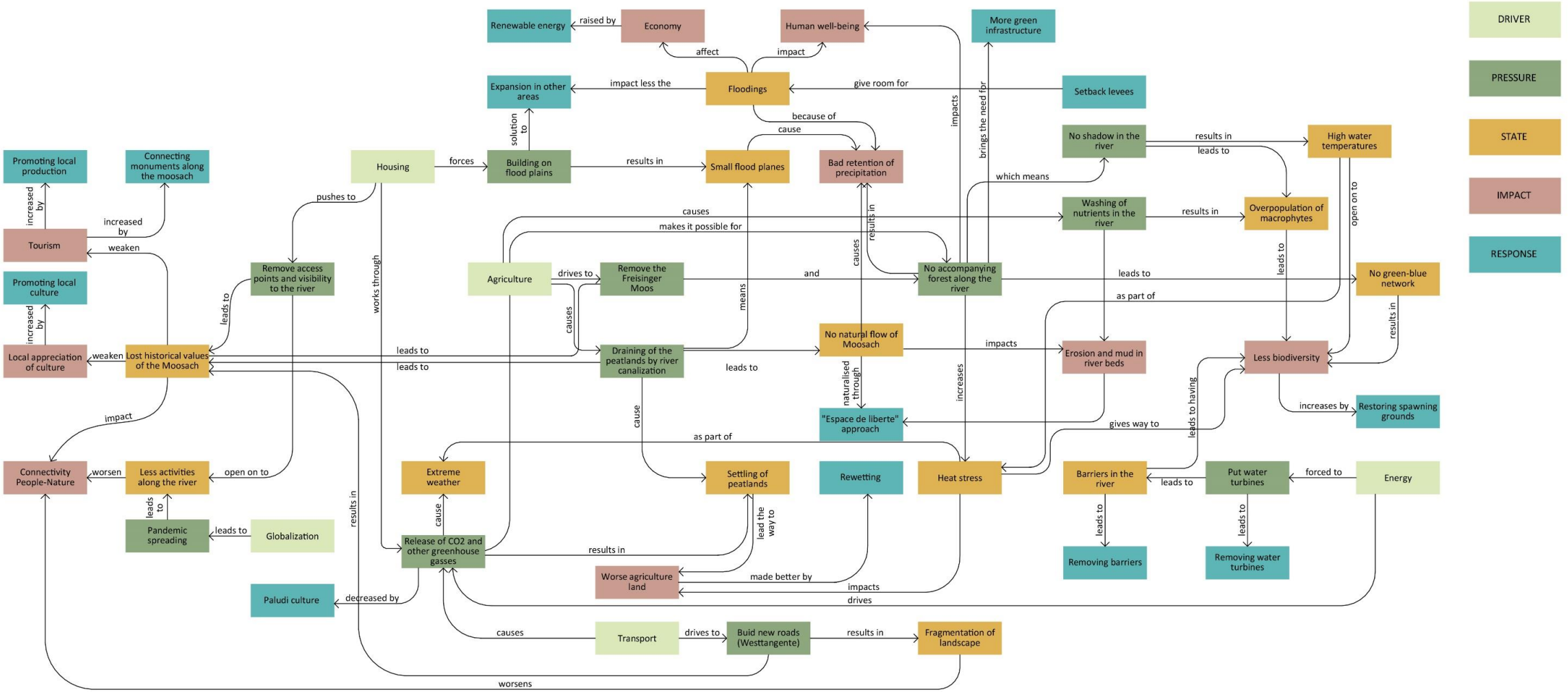
How to forecast? Try to get an understanding of the landscape system

Driving Forces	Trends	Pressures	State	Impact
Political	liberal trend	land as opportunity	Fragmentation sealing	Less space
Economic	growth	land take	Fragmentation sealing	for ecosystem services
Social	individualisation	No advocacy for the common good	Communities are not resilient	Open spaces are not used
Technological	digitalisation	Professions and Services disappear	Jobs + identities change	People need orientation
Legal	New Green Deal	Support climate resilience	New opportunities	Action for resilience
Environmental	climate change	Changing water Cycle and system	Water scarcity + flashfloods	People + goods at risk

PESTLE

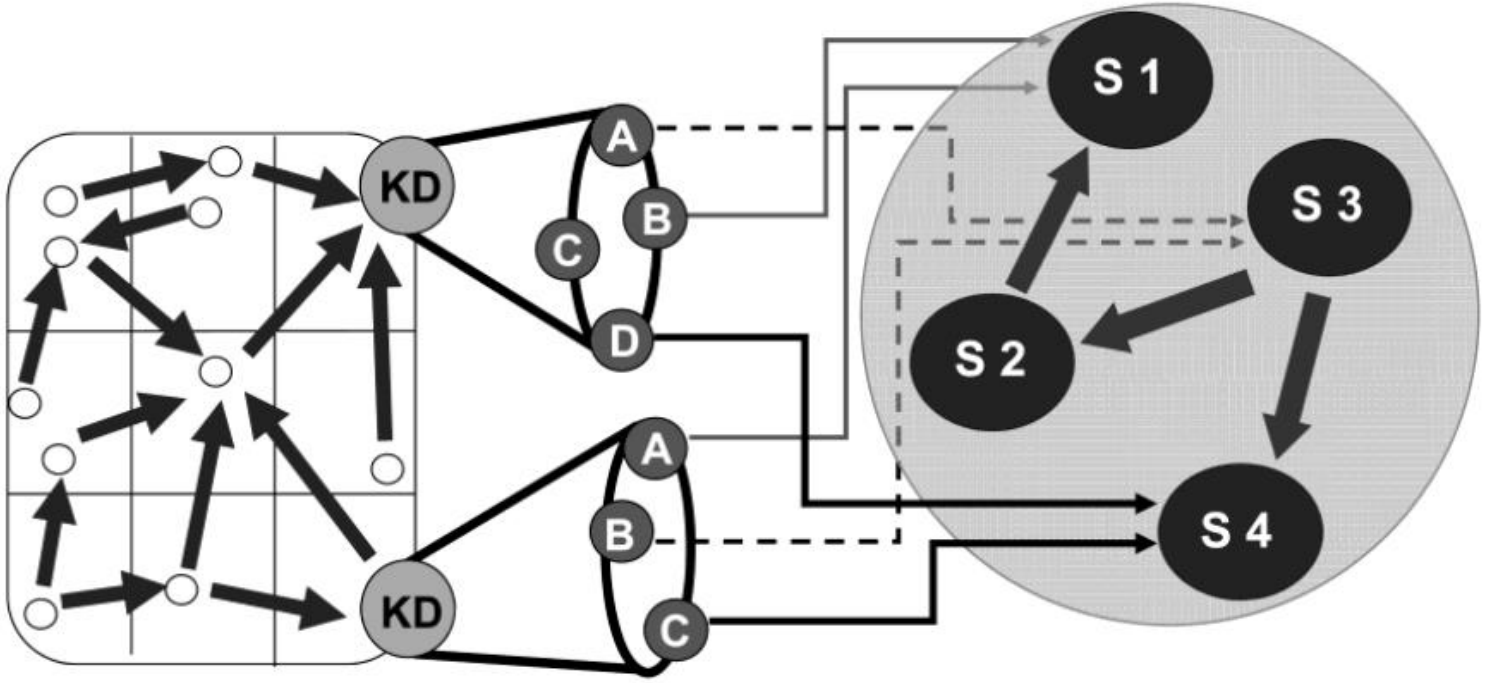
Spectrum of Responses

Don‘t think linear. Build a multi-nodal concept map of vour svstem.



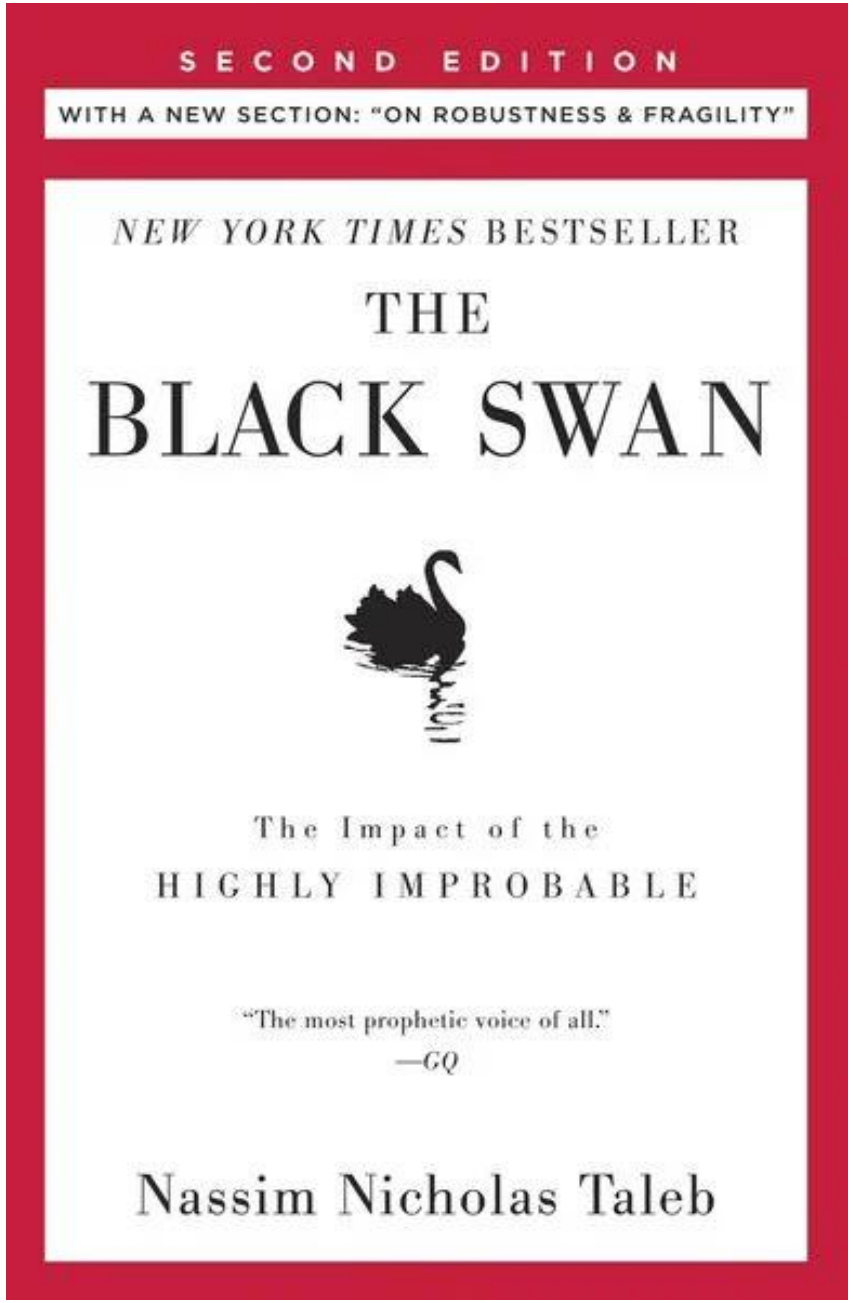
IMLA first semester summer 2022, Main Project Freising waterscapes:
Fabrizio Albion, Nóra Buffham, Delaram Kouhestani, Kees van Roon, Gentiane Thaci

Scenario-based analysis at a glance



Preparation and setting up core question	What are the drivers? ①	How could key drivers develop in future? ②	What future developments are thinkable? ③	How can the future space be described and what does it imply? ④
	System analyses Identification of key drivers	Alternative Projections Uncertainties	Consistency Analysis Computing of Scenarios and Clustering	Discussion and Description Strategic Implications and Options

Steps of scenario analysis (adapted from Fink et al. 2004),
in: Burandt (2011) Szenarioanalyse als Lernsetting für eine nachhaltige Entwicklung



Use Scenarios to broaden your imagination

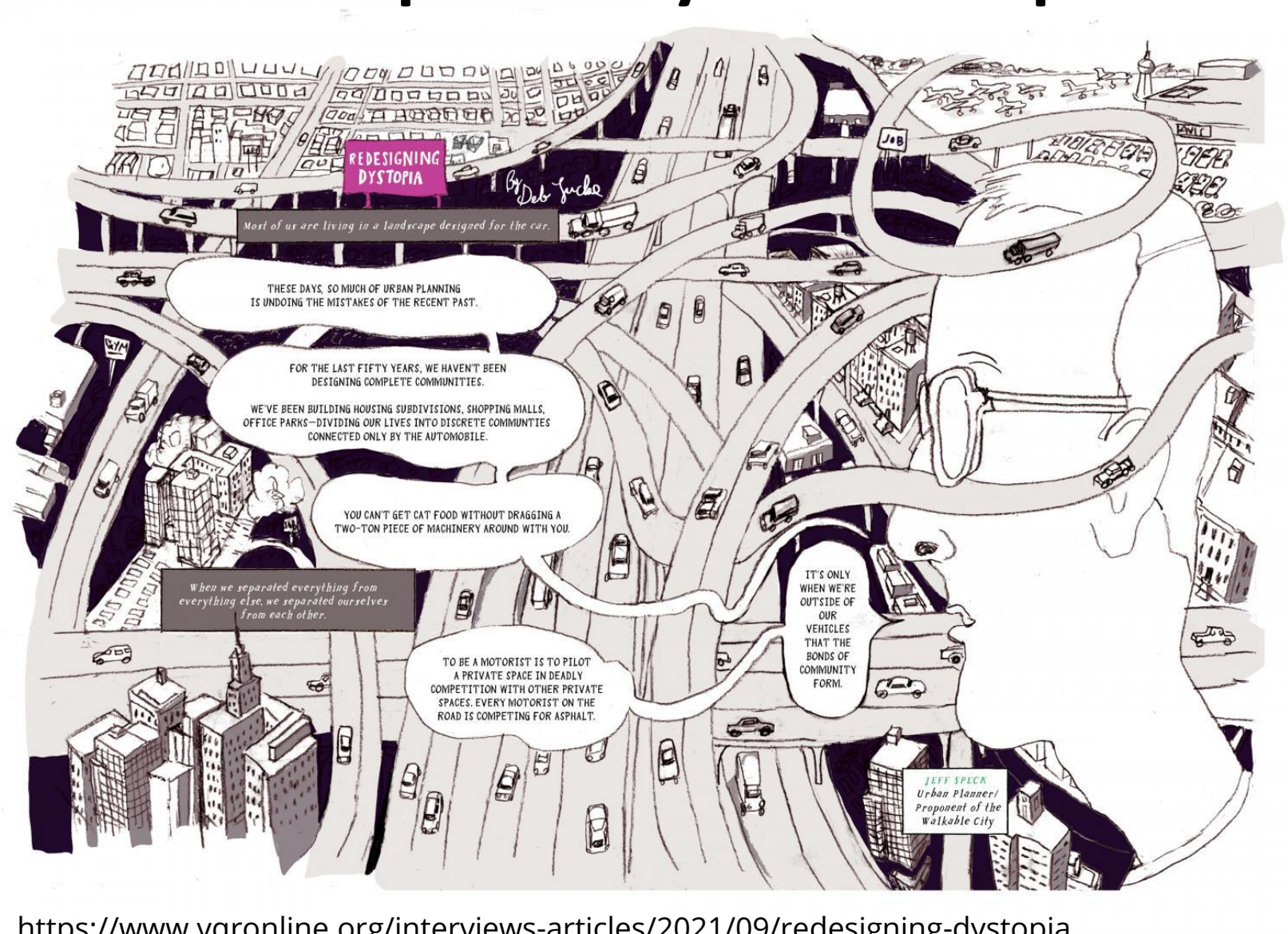
Explore all possible futures
Include the unthinkable into your scenario

Black Swan Events
or
‚Wild Cards‘

Visualise alternative futures.
Make them specific to your landscape.

IMLA Studio Tiefenbach Valley, Summer 2023

Visualise alternative futures.
Make them specific to your landscape.

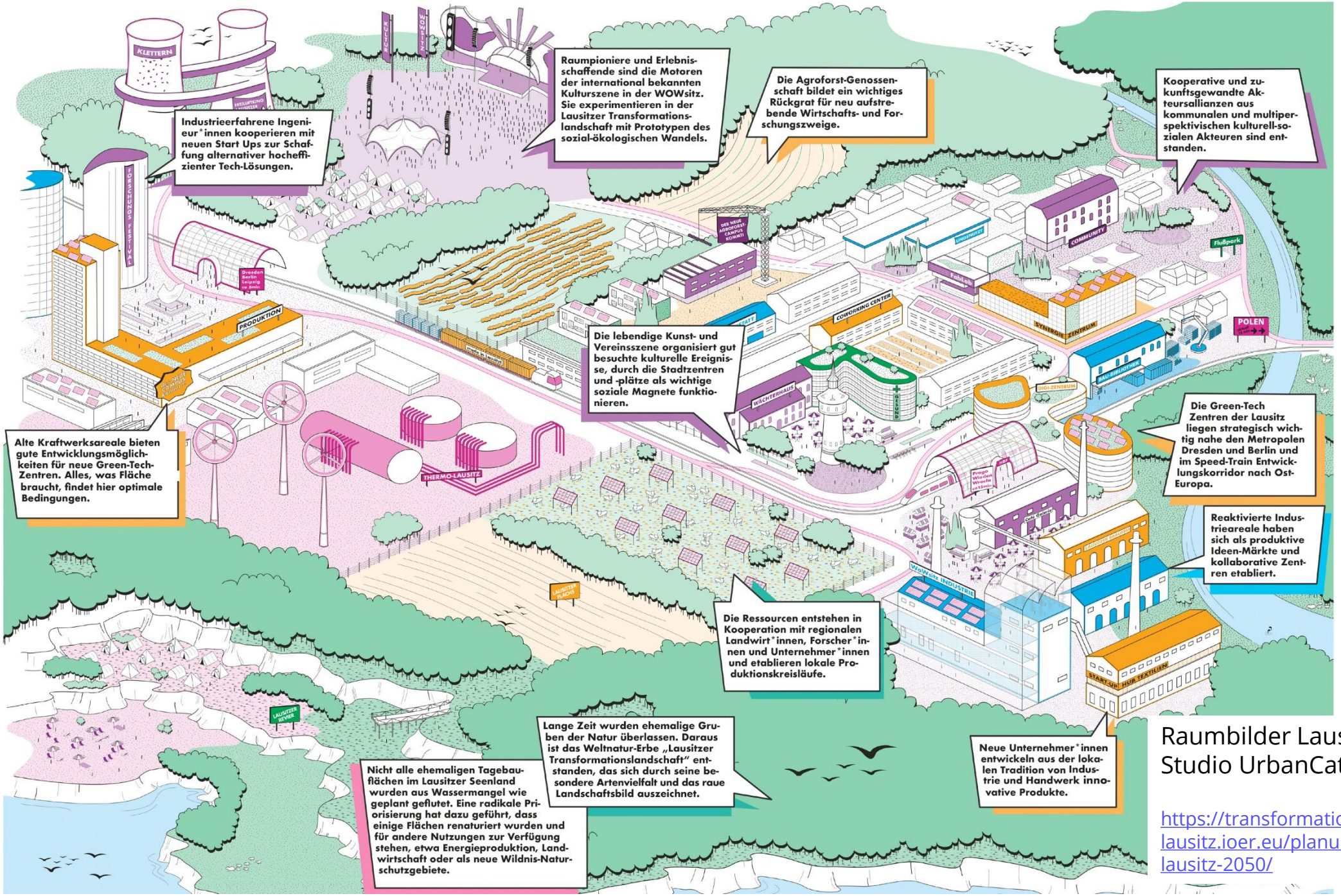


https://www.vqronline.org/interviews-articles/2021/09/redesigning-dystopia

In you teams, co-design new narratives. Who are the actors? What is the plot? Any new protagonists?

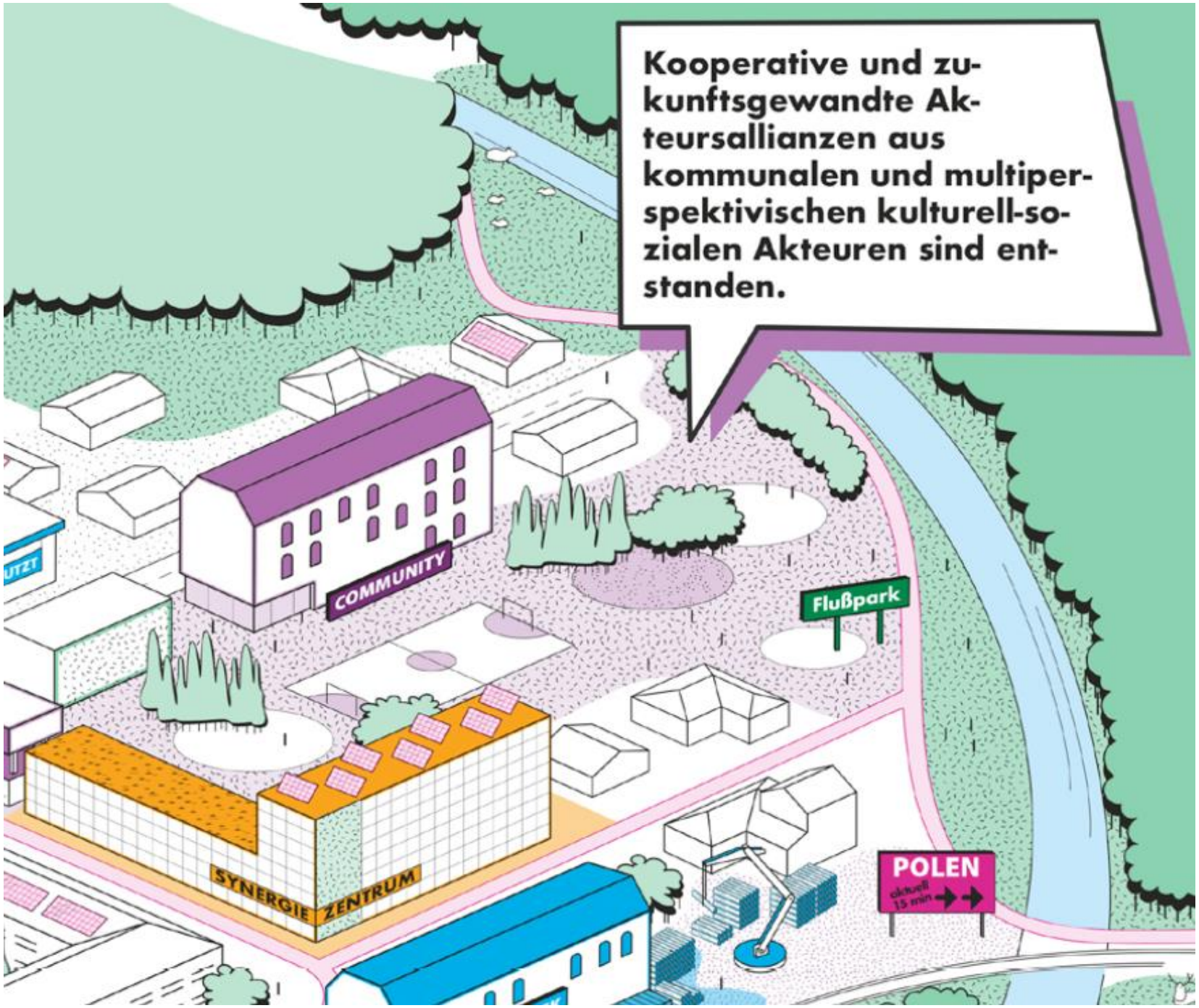
Visualise alternative futures. Make them specific to your landscape.

Example: Berlin Strategy 2030 / Stadtentwicklungskonzept Berlin 2030 (StEK 2030)
Source: Urban Catalyst, https://www.urbancatalyst.de/de/projekte/berlin-strategie-2030.html



Raumbilder Lausitz 2050
Studio UrbanCatalyst, Berlin

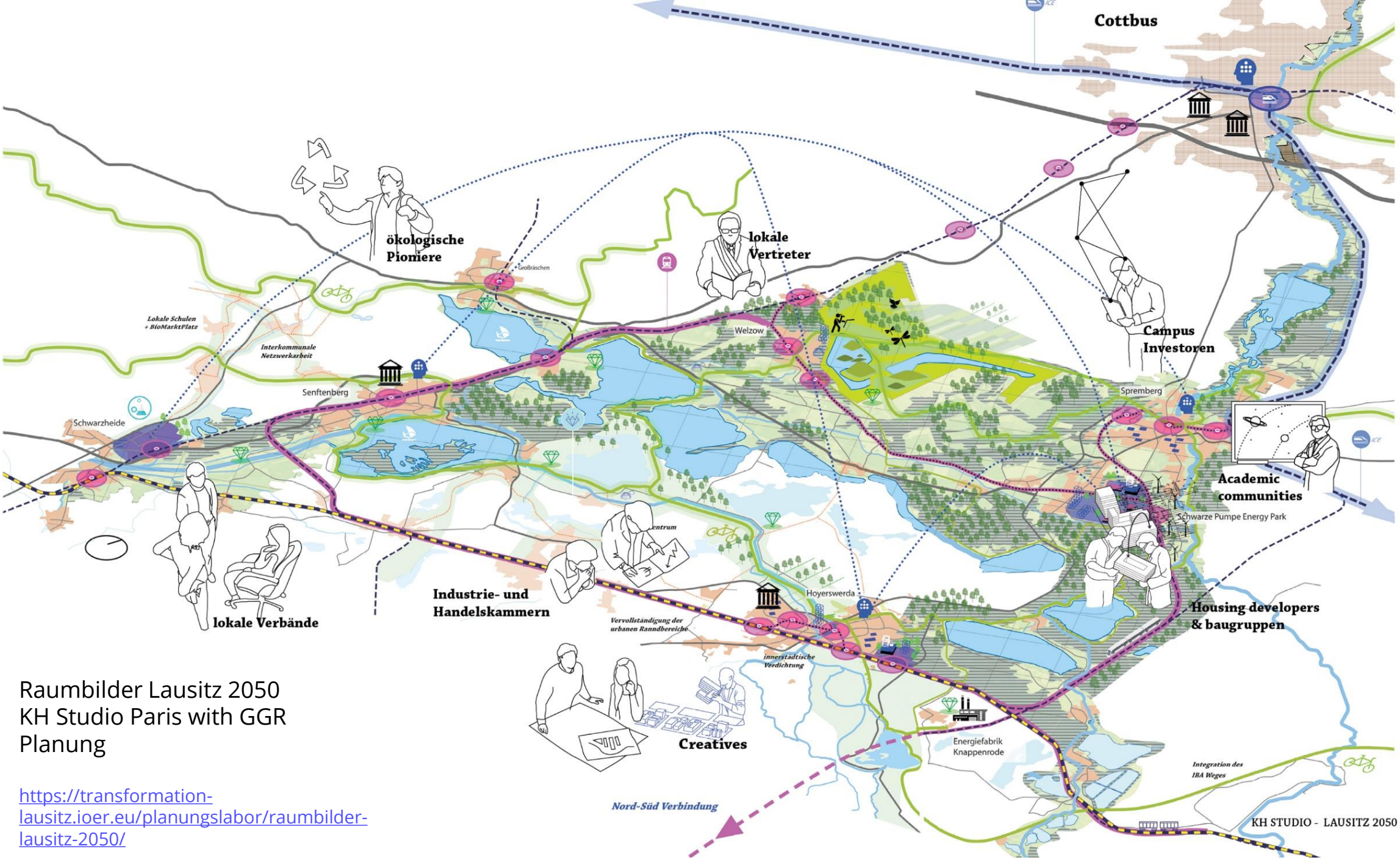
https://transformation-lausitz.ioer.eu/planungslabor/raumbilder-lausitz-2050/



Zoom in

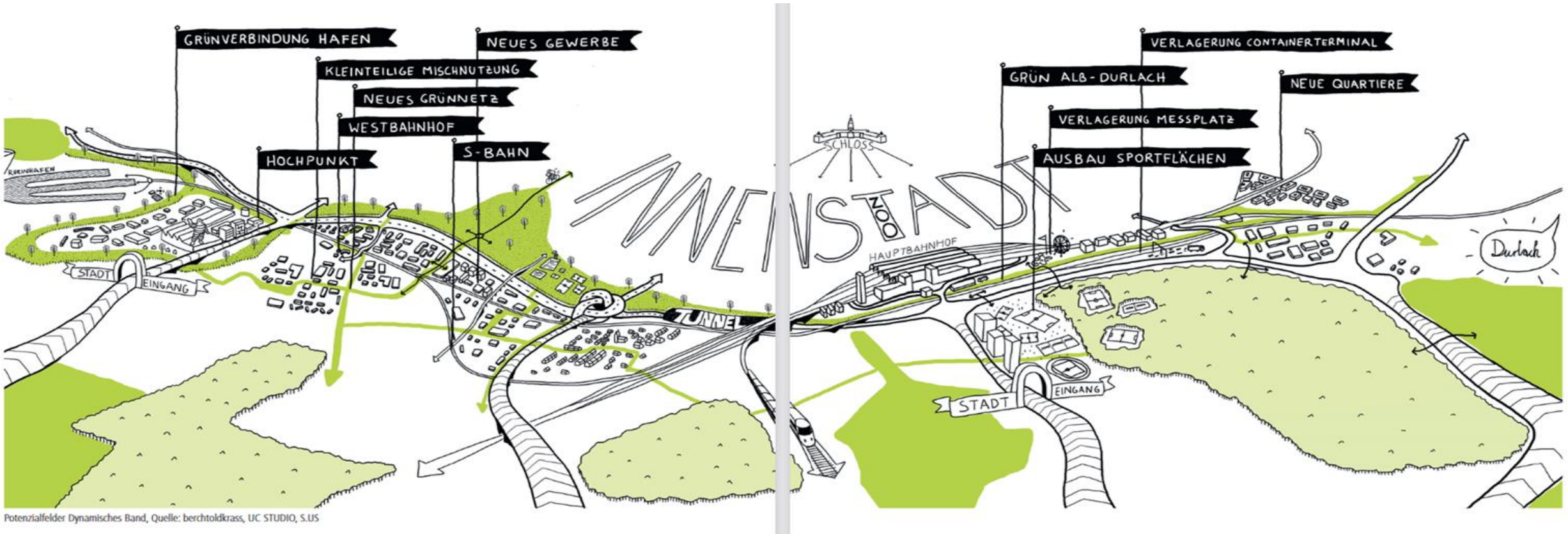
Raumbilder Lausitz 2050
Studio UrbanCatalyst, Berlin

https://transformation-lausitz.ioer.eu/planungslabor/raumbilder-lausitz-2050/



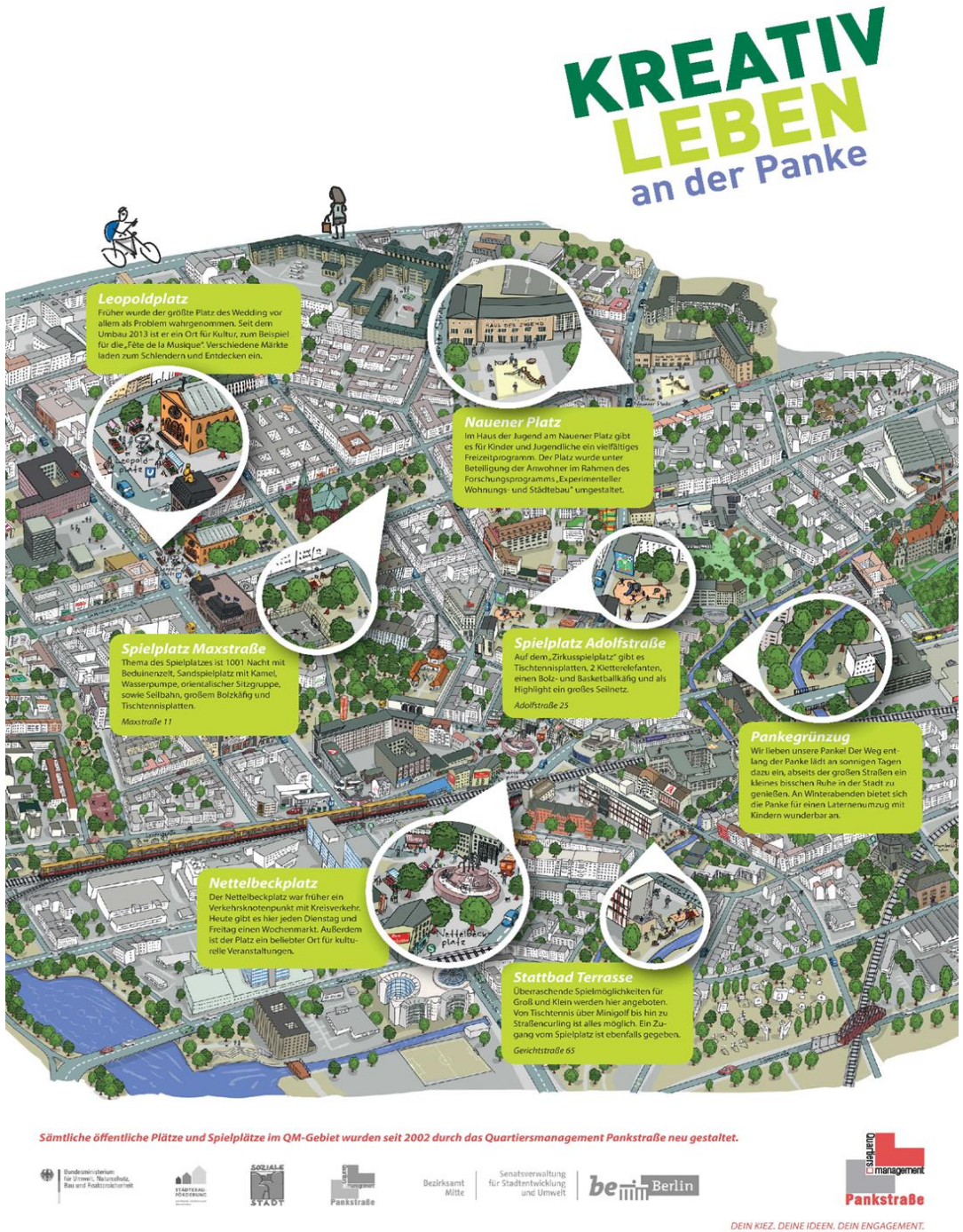
Raumbilder Lausitz 2050
KH Studio Paris with GGR Planung

https://transformation-lausitz.ioer.eu/planungslabor/raumbilder-lausitz-2050/

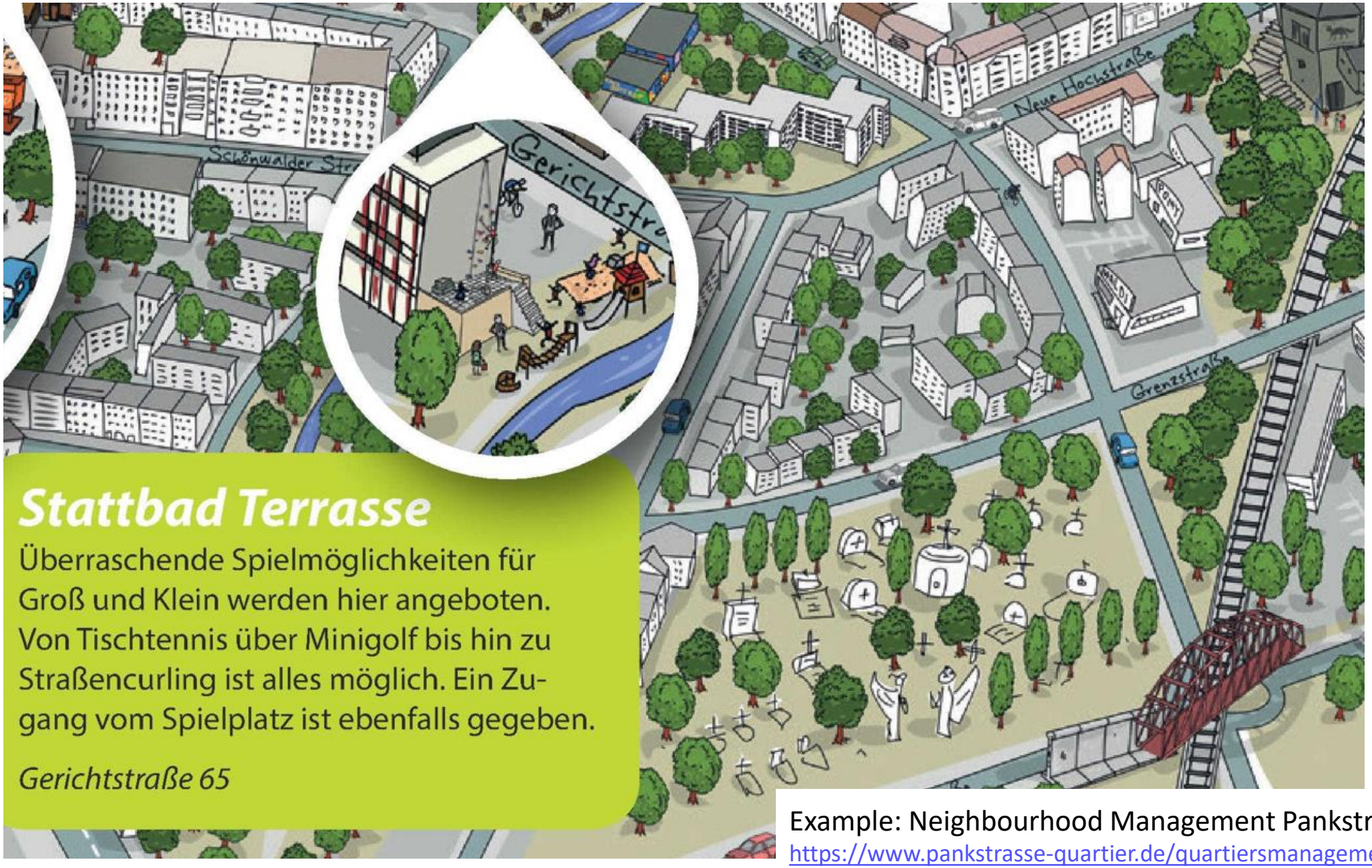


Potenzialfelder Dynamisches Band, Quelle: berchtoldkrass, UC STUDIO, S.US

Example: Potenzialfelder Dynamisches Band, Quelle: berchtoldkrass, UC STUDIO, S https://www.karlsruhe.de/b3/bauen/publikationen/leitbild/HF_sections/content/ZZnP1xobDqKxo8/ZZnP1ARzVCkfnh/R%C3%A4umliches%20Leitbild%20-%20Kurzfassung%20Teil%202%20Seiten%2017-32.pdf

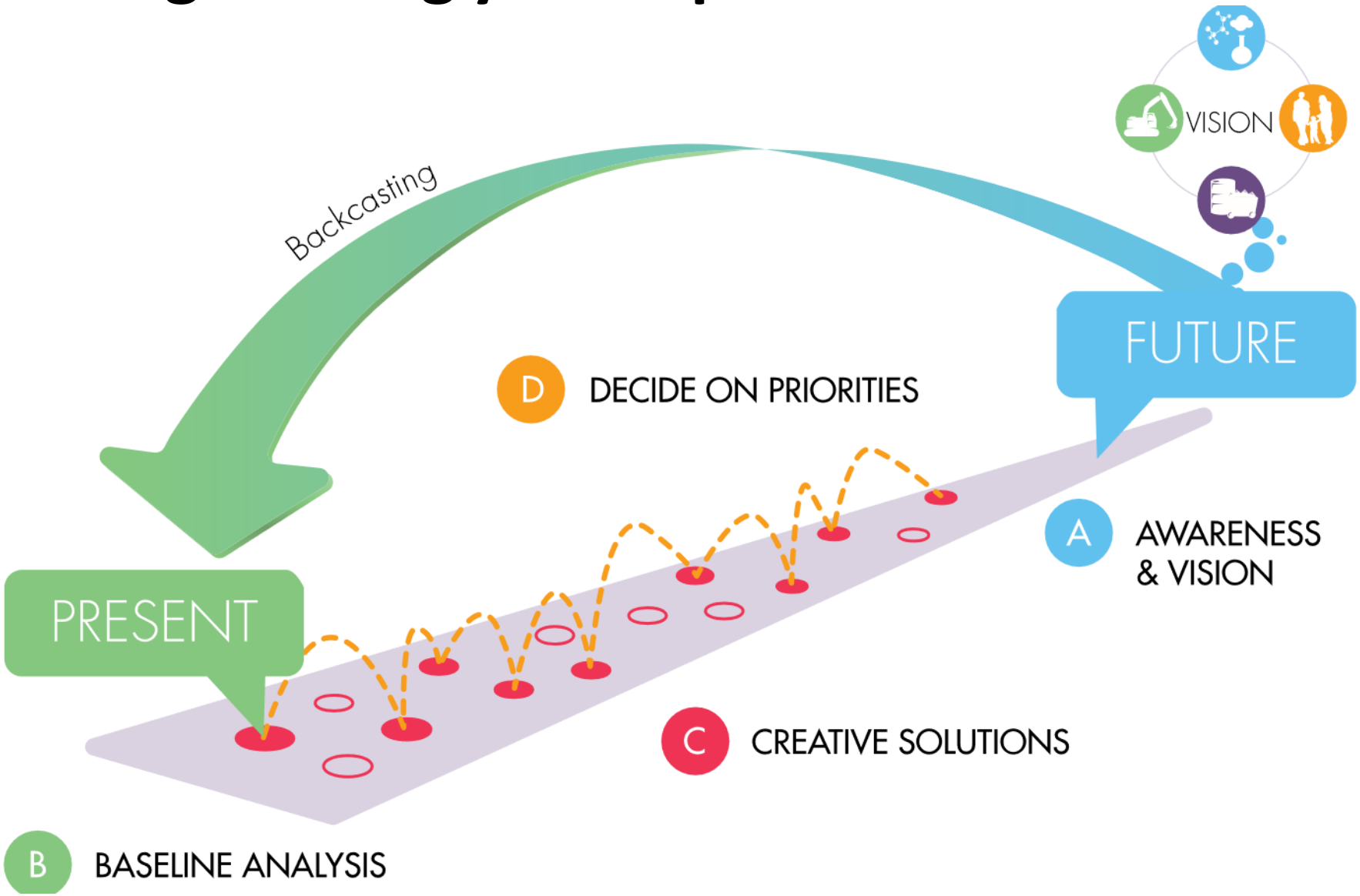


Example: Neighbourhood Management Pankstraße, Berlin-Mitte
https://www.pankstrasse-quartier.de/quartiersmanagement/aufgabenziele



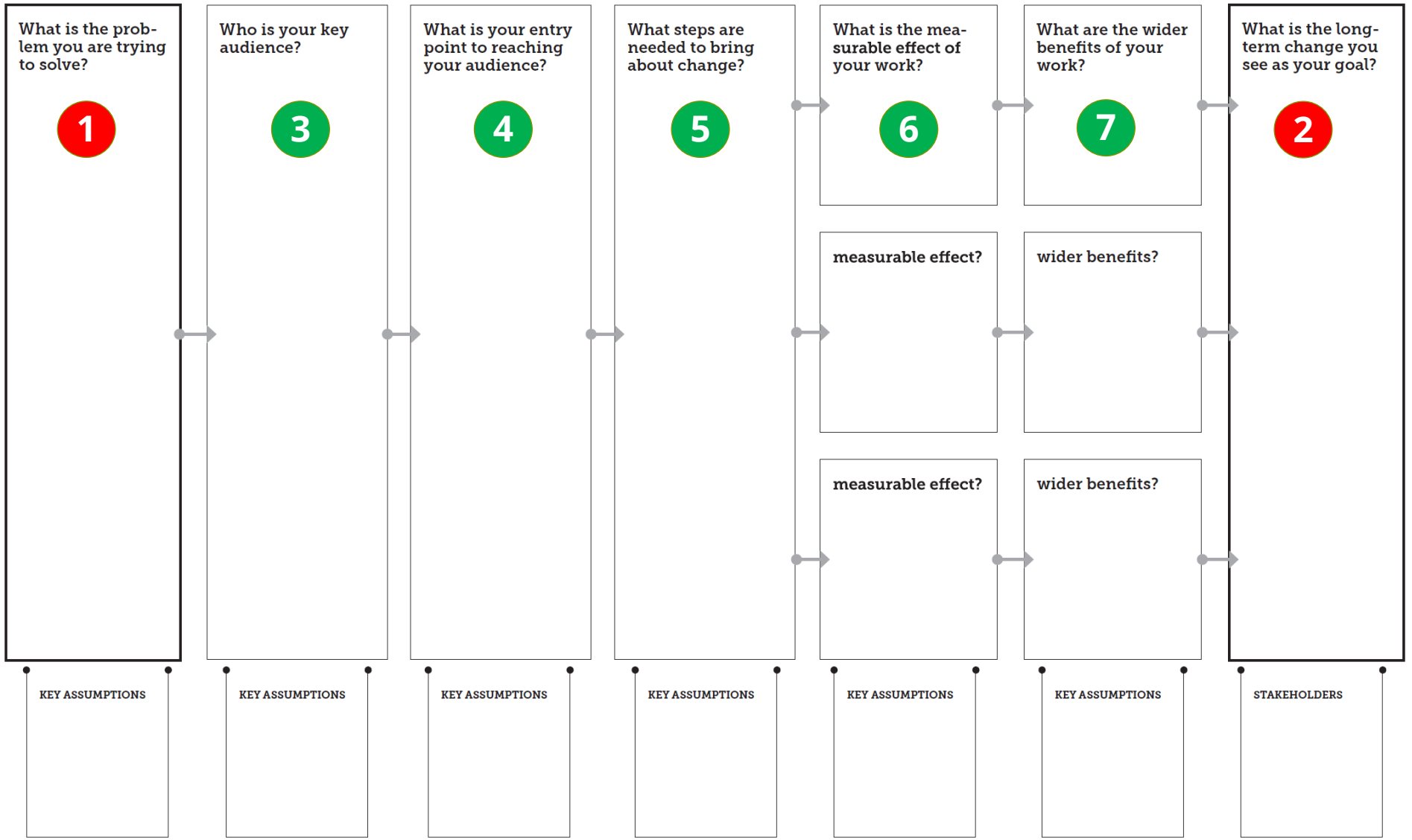
Example: Neighbourhood Management Pankstraße, Berlin-Mitte
https://www.pankstrasse-quartier.de/quartiersmanagement/aufgabenziele

Backcasting: Building your steps to the Future



https://www.thenaturalstep.de/solution/abcd-process/

Stategy Building with the Theory of Change Canvas

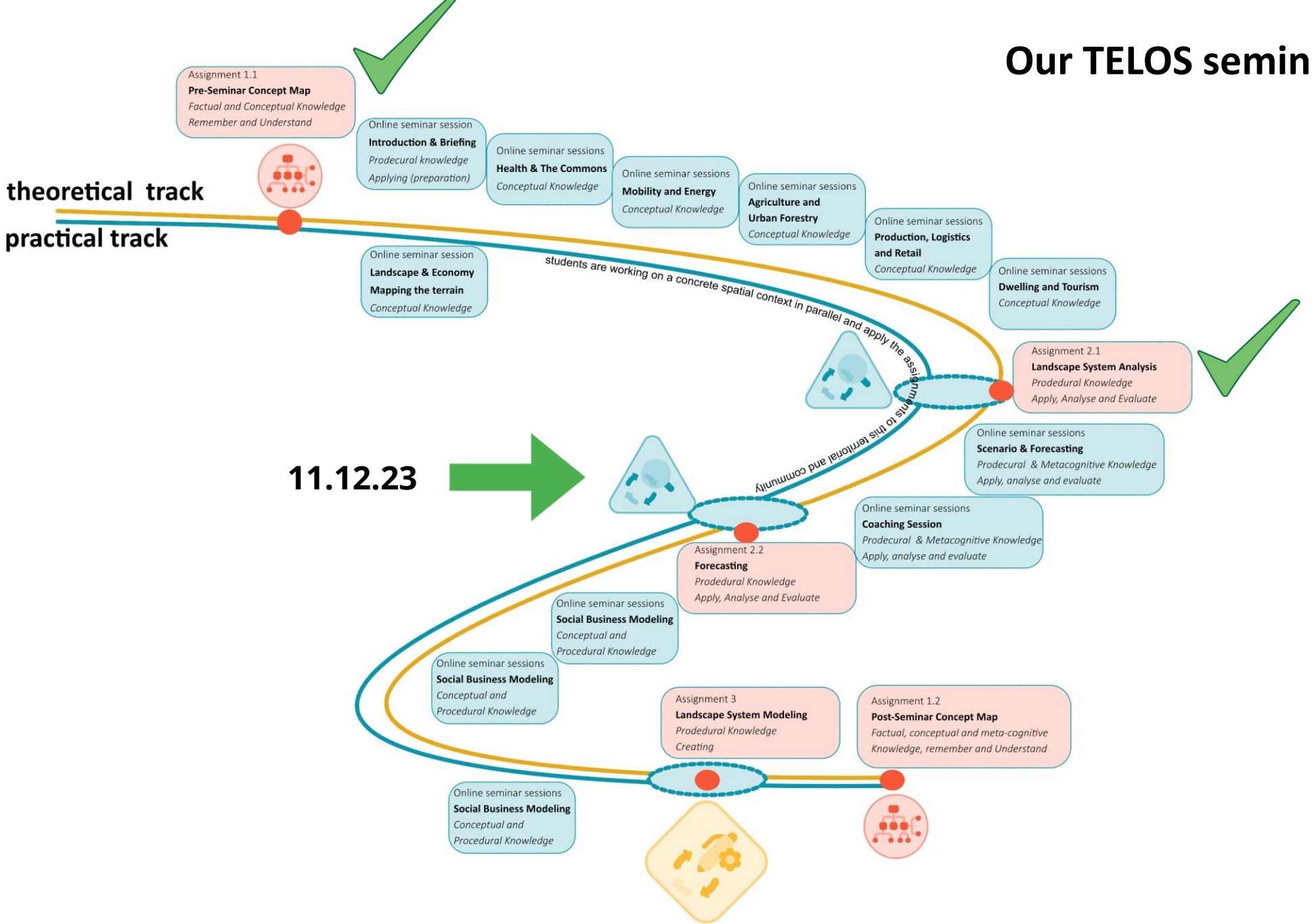


Here you will map your social innovation idea.

How will your landscape work?

https://diytoolkit.org/media/Theory-of-Change-Size-A4.pdf

Our TELOS seminar model



The TELOS seminar assignments: #2.2

Landscape System Analysis: Forecasting

Some guiding questions – but feel free to develop your own approach:

- Which developments might impact your landscape **over the coming 50 years**? Try to integrate local and global developments and multiple sectors, based on your knowledge from the TELOS lectures.

- Reflect on the **future cause-effect relationships**: Which pressures on your landscape are plausible? Who and what in your landscape will be impacted in the future?

- Try to **forecast** different variants, ranging from extreme to plausible, and visualise them with narratives that are taking the specifics of your local landscape into account.

- **Evaluate these futures**, for example in relation to the UN Sustainable Development Goals. Which future needs to be avoided and why? And which future should we build and why?

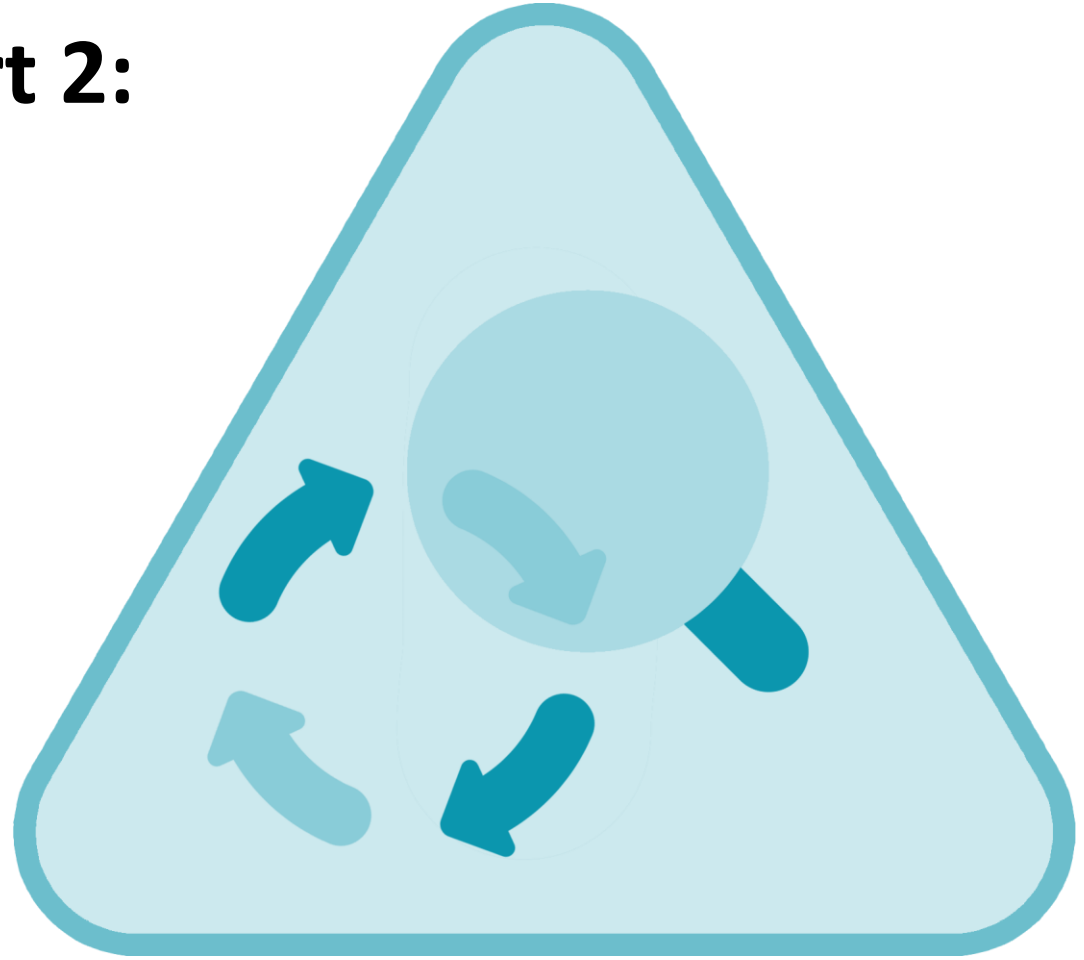
- Make sure that your assumptions are rooted in **locally relevant landscape knowledge** and **plausible data** gathered during your analysis.

- Make sure that **you identify a sustainability challenge** in your landscape that you want to address further

Digital submission on ILIAS: https://ilias.hfwu.de/goto.php?target=exc_42232&client_id=hfwu
All assignment details: https://telos.hfwu.de/index.php?title=TELOS_Assignment_2:_Landscape_System_Analysis_(2023-24)

The TELOS seminar assignments: #2.2

Landscape System Analysis Part 2: Forecasting alternative futures



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Group assignment

Start: November 20, 2023

Presentation: December 11, 2023

Submission: December 11, 2023 (together with part 1)

Digital submission on ILIAS: https://ilias.hfwu.de/goto.php?target=exc_42232&client_id=hfwu

All assignment details: https://telos.hfwu.de/index.php?title=TELOS_Assignment_2:_Landscape_System_Analysis_(2023-24)

Thinking landscape through economy
Thinking economy through landscape

The TELOS seminar process

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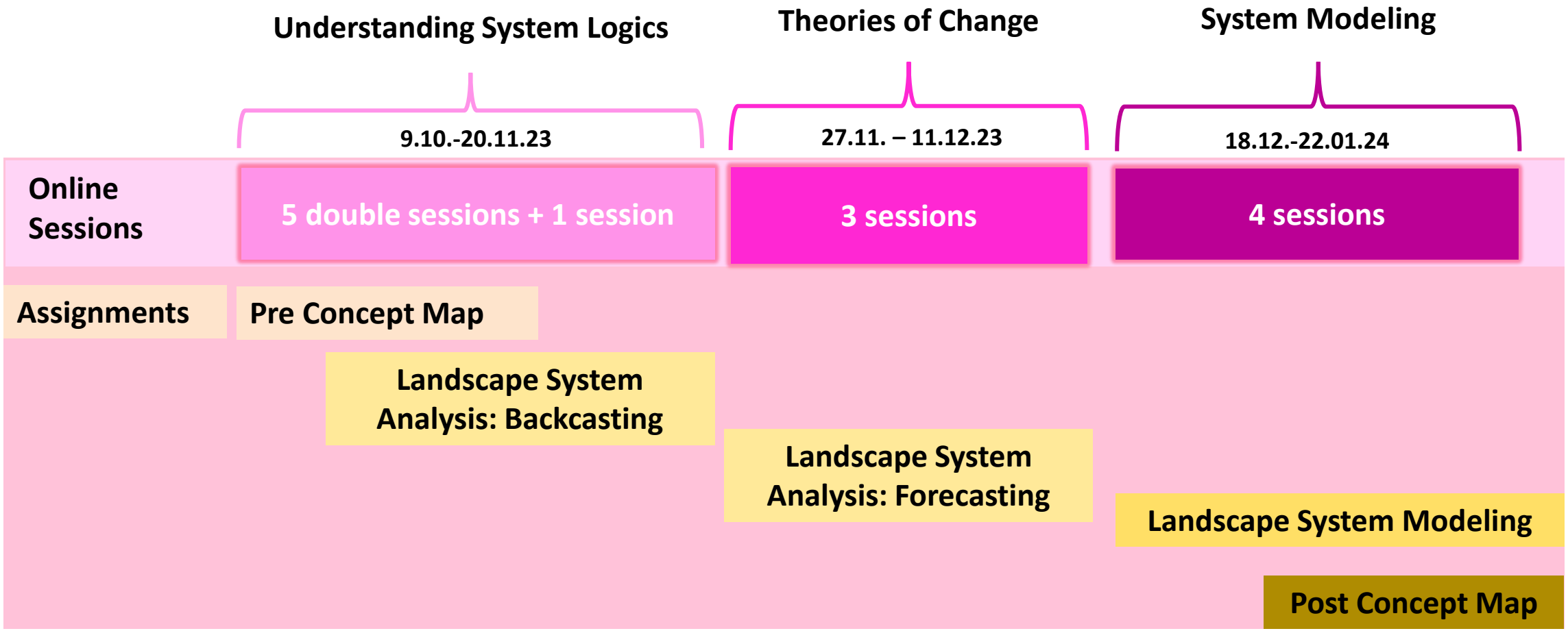


The **online plenary** meets on **Mondays** from **16 00 - 17 30 CET**
Attention: the first five sessions are double lenght: 16 00 - 17 15, 17 30 - 18 45

The TELOS seminar assignments

5 ECTS Model

This model assumes that you are not working on a local project context. This context is needed if you want to work on assignments 2 & 3. This model is a flexibel way of participating actively in the TELOS seminar if your schedule does not allow for more engagement.

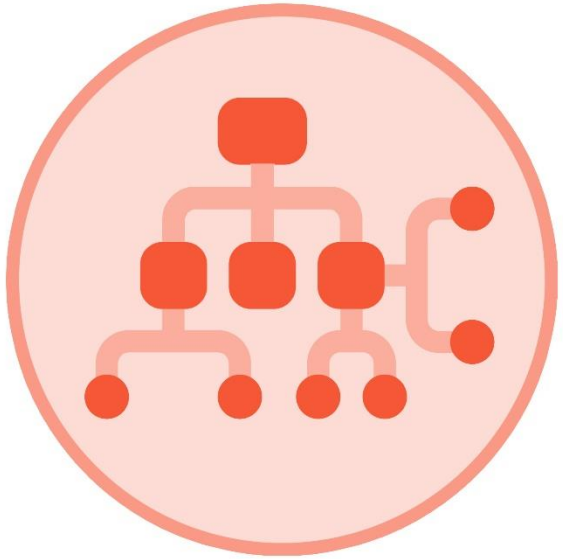
Nr	Assignment	presented on	Submission	Working Mode	Assessment
1.1	Pre-Seminar Concept Map	submission of PDF version	16.10.2023	individual	not graded but compulsory
4	Field Research on Good Practices	Online in the plenary on 11.12.2023	11.12.2023	individual product	Grade 100%
1.2	Post-Seminar Concept Map	submission of PDF version	06.02.2024	individual	not graded but compulsory

10 ECTS Model (recommended)

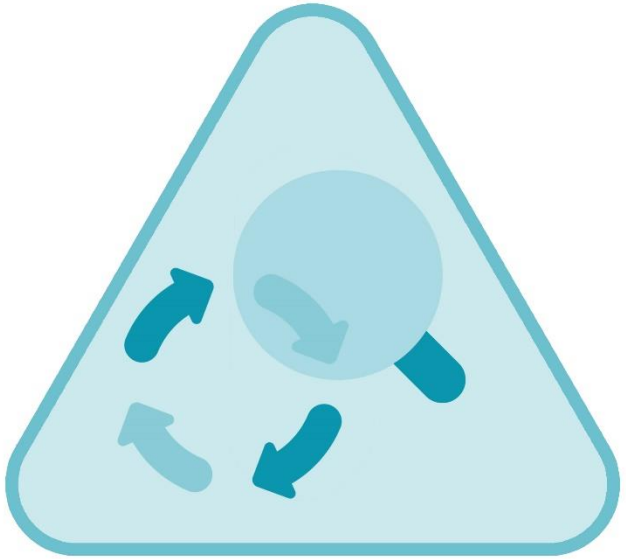
This model requires that you are working on a spatial context, which might typically be your studio project area. You may ask your local supervisors if you can combine the TELOS approach with your studio project activities.

Nr	Assignment	presented on	Submission	Working Mode	Assessment
1.1	Pre-Seminar Concept Map	submission of PDF version	16.10.2023	individual	not graded but compulsory
2.1	Landscape System Analysis: Understanding the story so far	Online in the plenary on 20.11.2023	11.12.2023	Team Product	40% of total grade (including 2.2)
2.2	Landscape System Analysis: Forecasting	Online in the plenary on 11.12.2023	11.12.2023	Team Product	40% of total grade (including 2.1)
3	Landscape Systems Modeling	Online in the plenary on 22.01.2024	22.01.2024	Team Product	60% of total grade
1.2	Post-Seminar Concept Map	submission of PDF version	06.02.2024	individual	not graded but compulsory

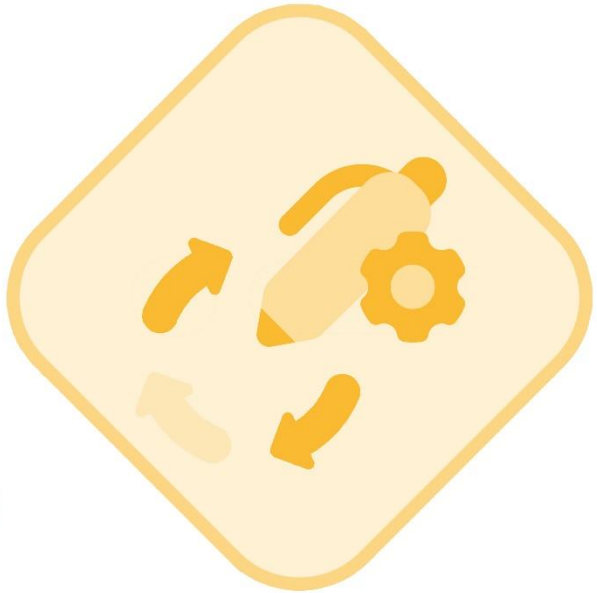
The TELOS seminar assignments



Pre- + Post
Seminar Concept Map



Landscape System Analysis



Landscape System Design

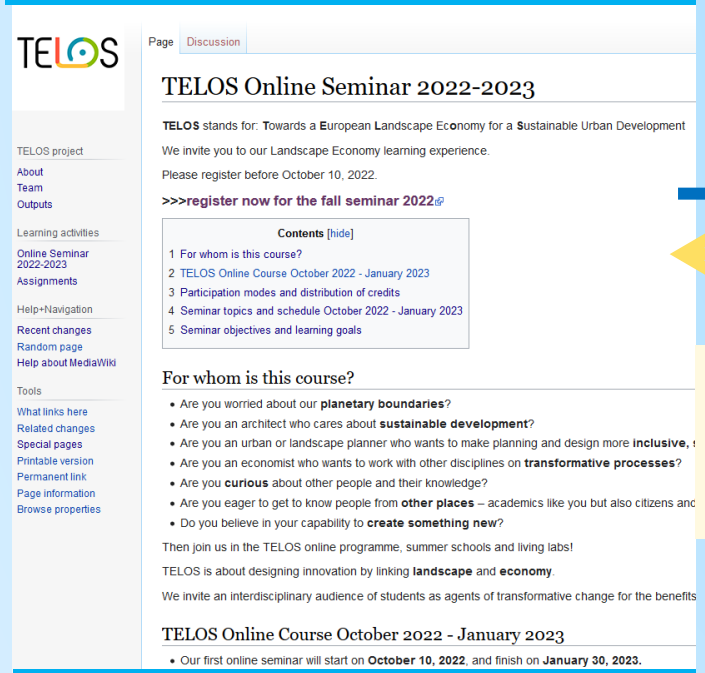
Case Study Assignment

All details: https://telos.hfwu.de/index.php?title=TELOS_Assignments_2023-2024

TELOS Seminar Media Landscape

Next steps

Seminar WIKI
https://telos.hfwu.de



- Assignment Outlines
- References

Direct links

Direct emails coordinator -> participants

ILIAS
http://ilias.hfwu.de

- Recordings
- Lecture slides
- References
- Digital submissions

Transnational discussion groups on Slack (see invitations)

Teams organise their own working environment

Tartu Competition is organised on the LE:NOTRE ILIAS Platform

Next steps

Next steps

- Finalise your system model from the past to the present
- Decide on the development trends you want to take into account
- Forecast alternative futures: How will the landscape be?
- Evaluate and decide which future you want

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POLITECHNIKA GDAŃSKA

Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen

Co-funded by the Erasmus+ Programme of the European Union

THANK YOU