

Scenario & forecasting

27.11.2023

16 00 – 17 30 CET

PAST

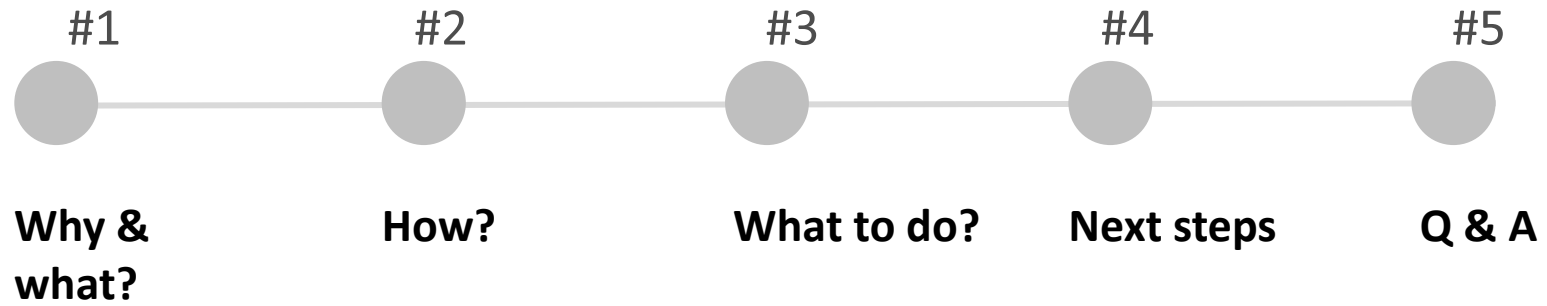


TELOS

FUTURE

Scenario & forecasting

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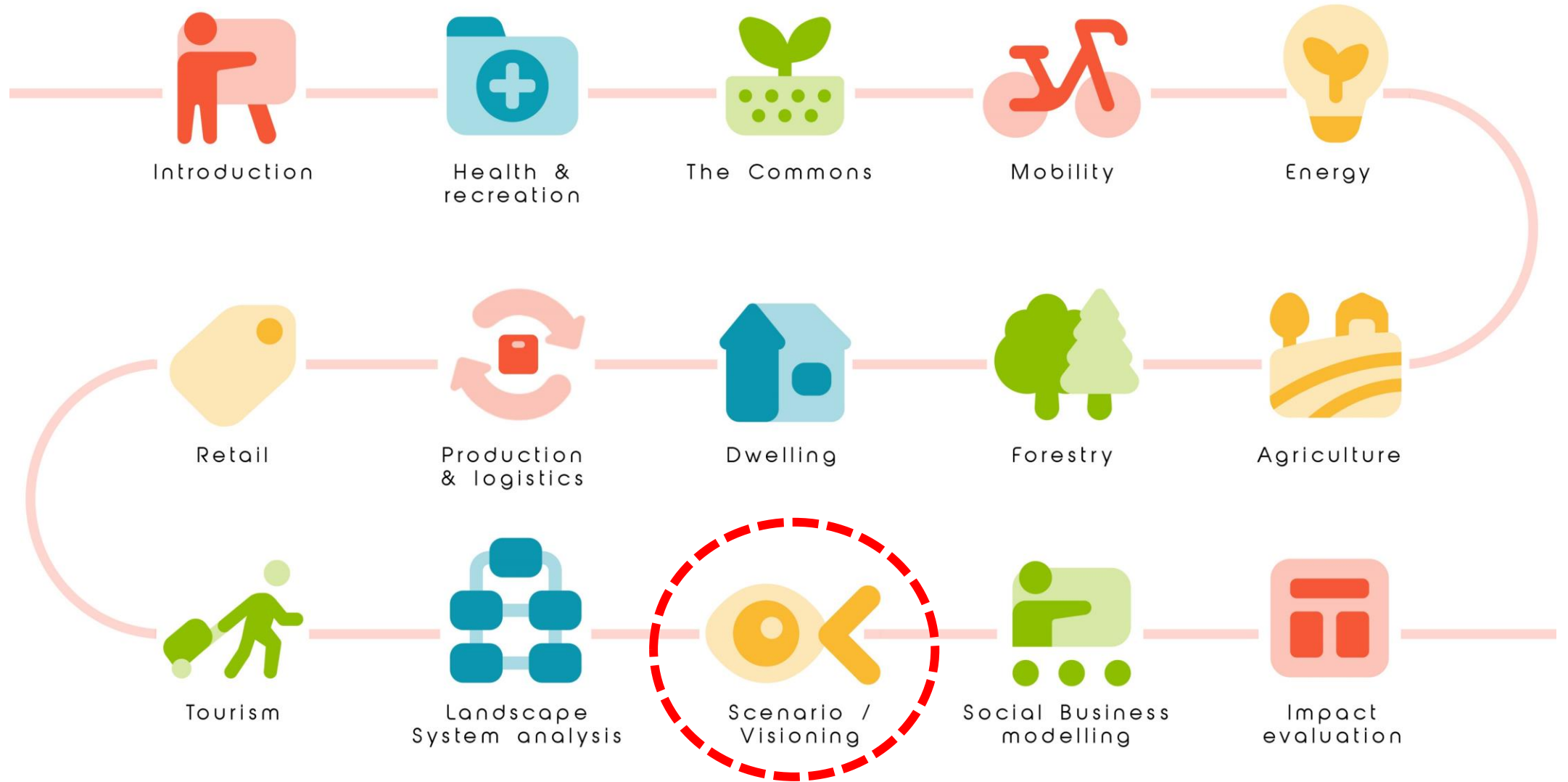


Thinking landscape through economy

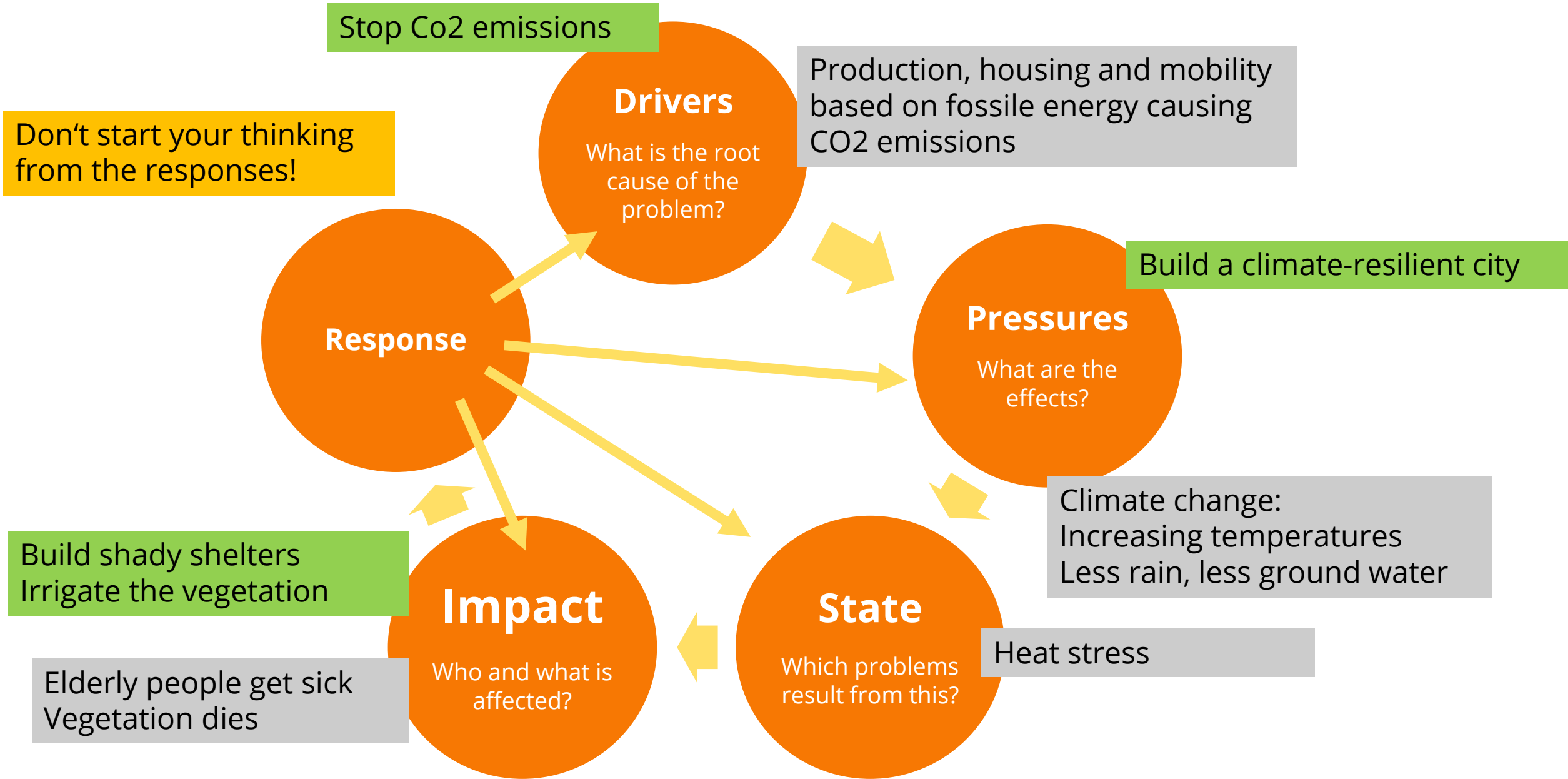
Thinking economy through landscape

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.

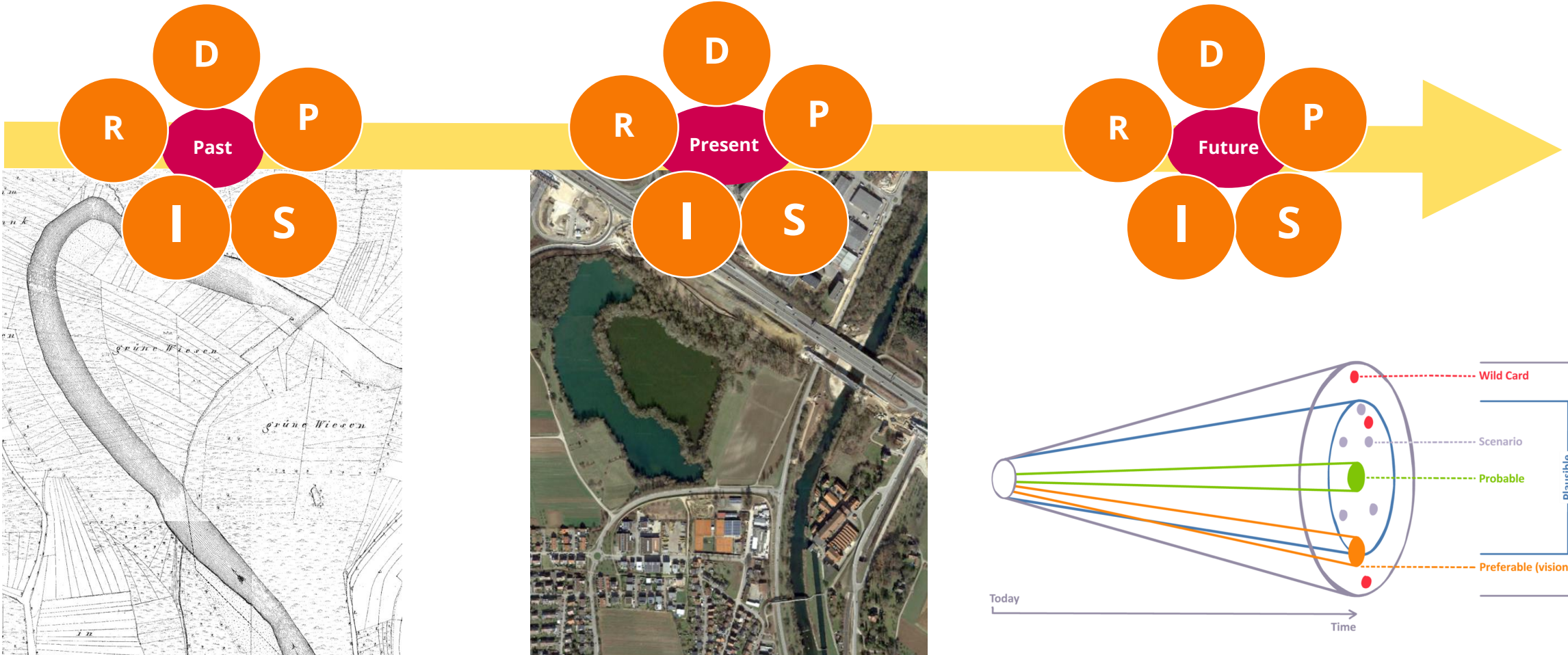
<https://learningforsustainability.net/mwa/dpsir/>

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

How was it and why?

How is it and why?

How will it be and why?



Let's brainstorm!

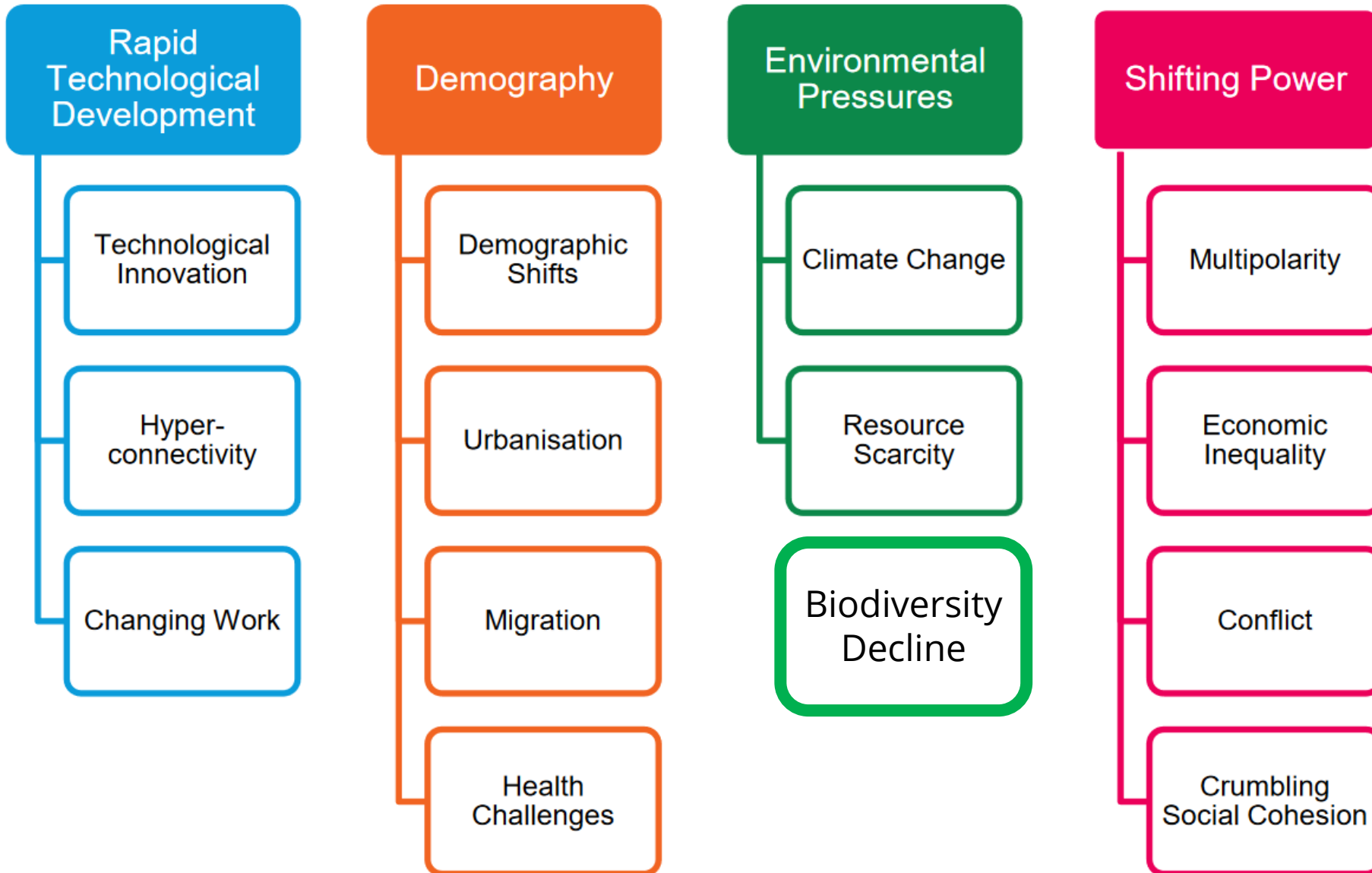
Divers, Pressures, State, Impacts for our area of study

We can practice a bit on our MURAL board

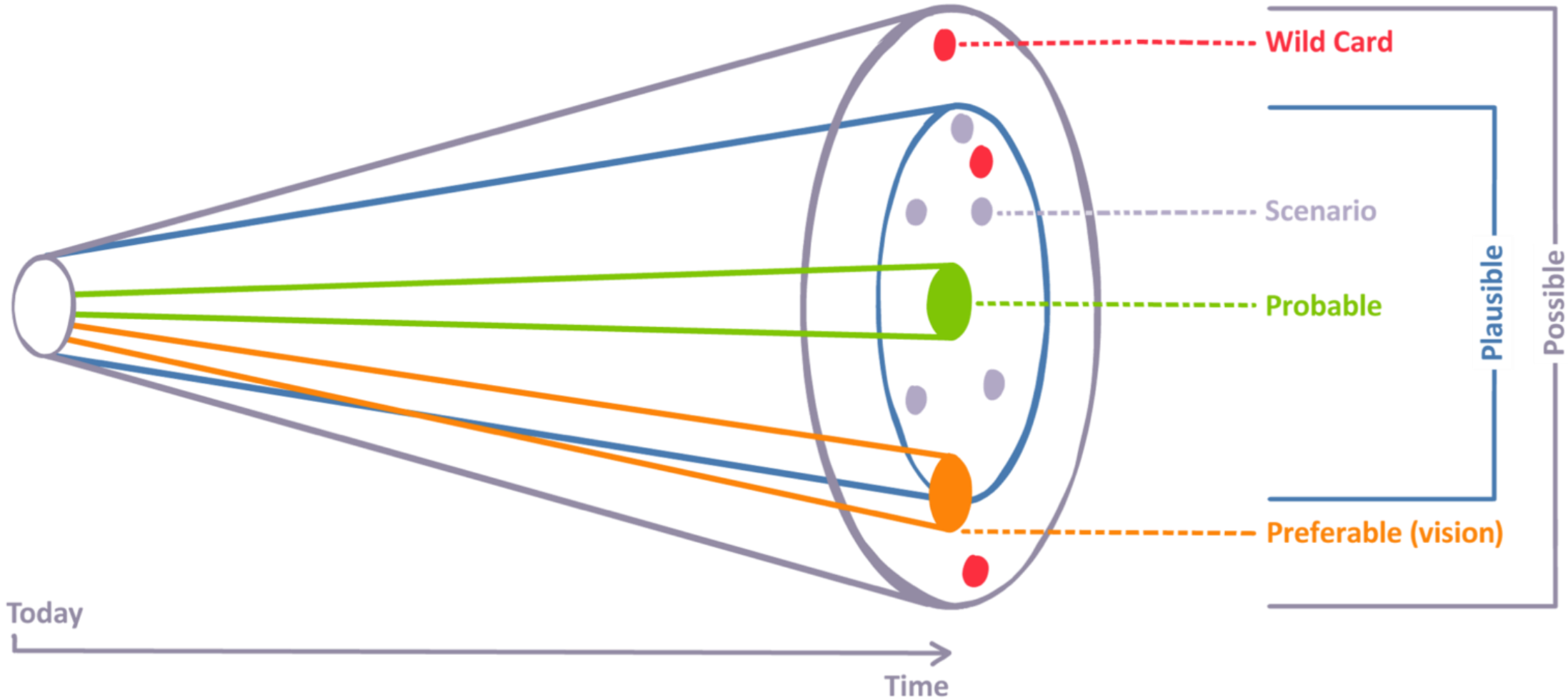
<https://app.mural.co/t/ellensroom0969/m/ellensroom0969/1701094746118/238d00e531ecd3f18d5a13b0acac607a3ba5c65b?sender=uf0d0317c21c100e921666205>

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Keeping the global megatrends in mind: The four clusters



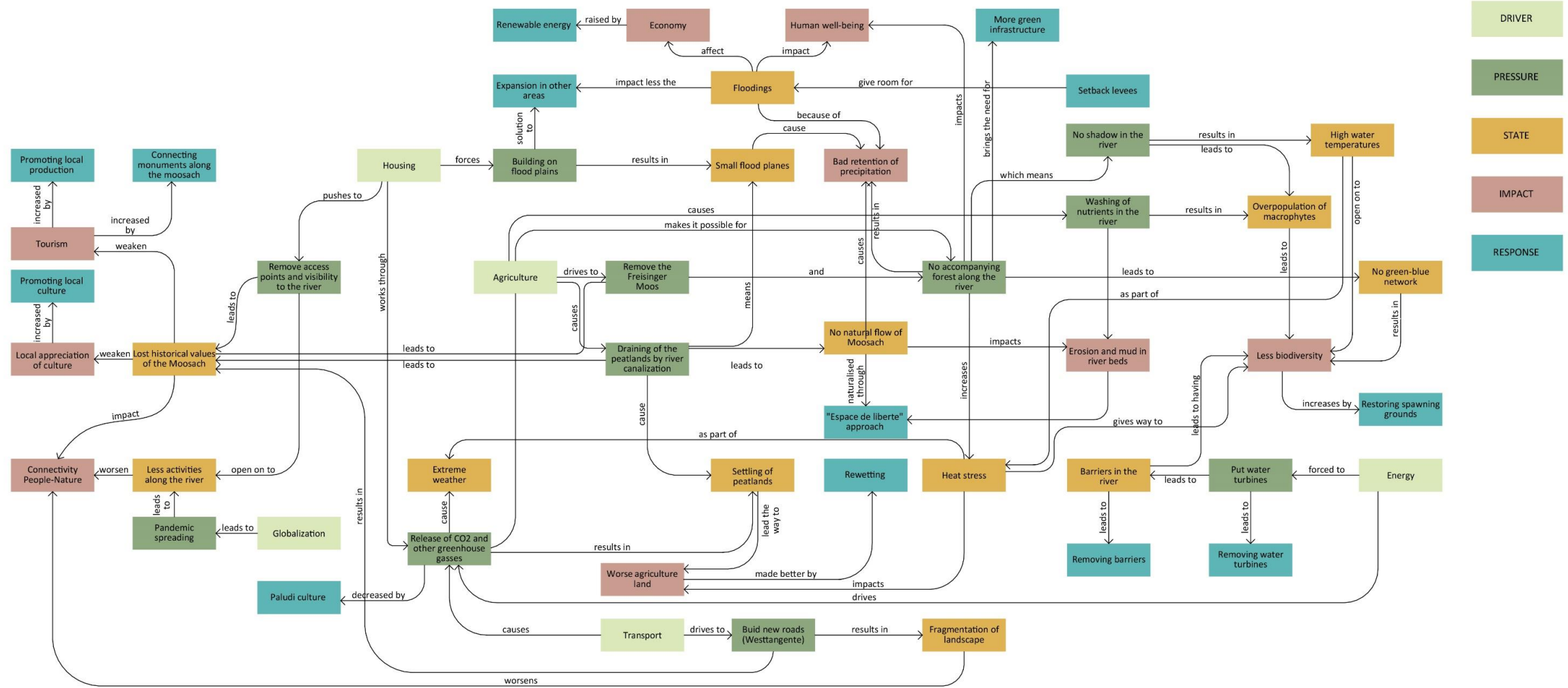
You have to anticipate: What if...? How will it be? Who wins? Who loses?



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

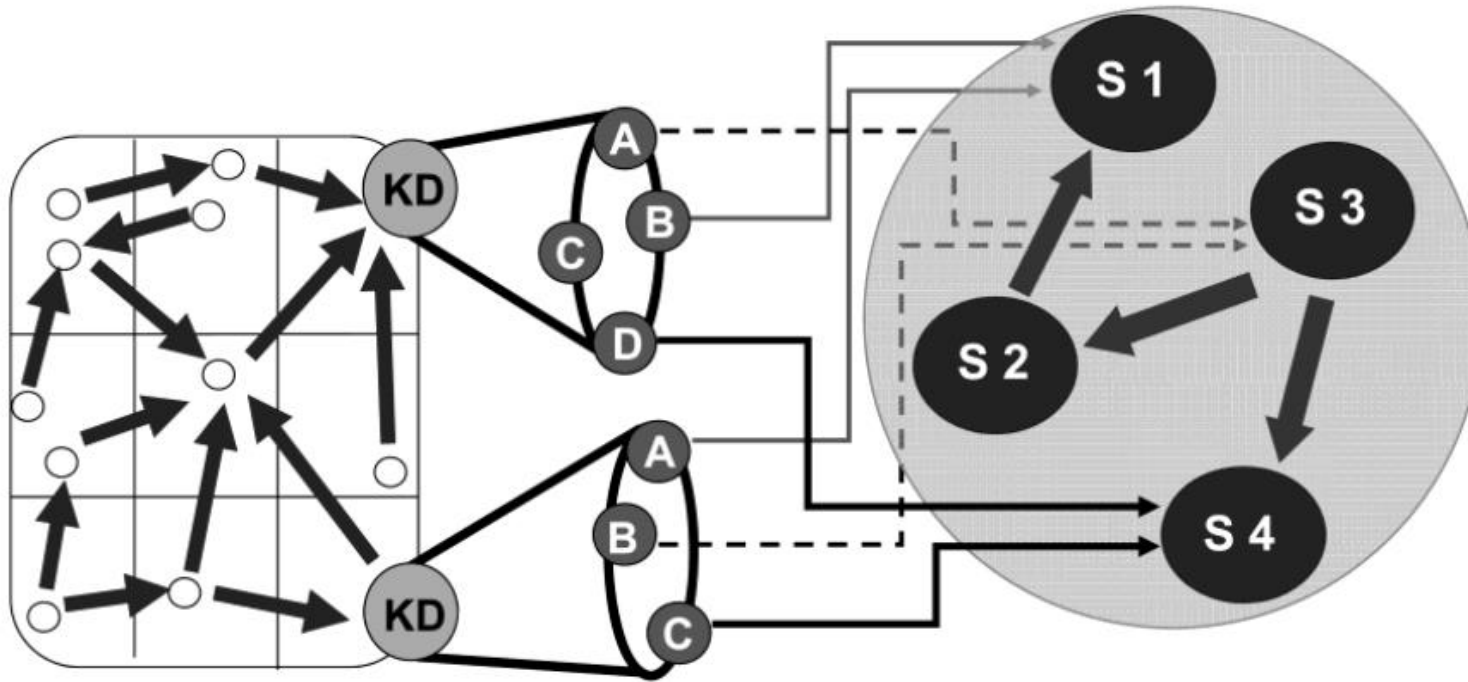
Driving Forces	Trends	Pressures	State	Impact
Political	liberal trend	land as opportunity	Fragmentation sealing	Less space
Economic	growth	land take	Fragmentation sealing	for ecosystem services
Social	individualisation	No advocacy for the common good	Communities are not resilient	Open spaces are not used
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	<p>Spectrum of Responses</p>			

Don't think linear. Build a multi-nodal concept map of your system.



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

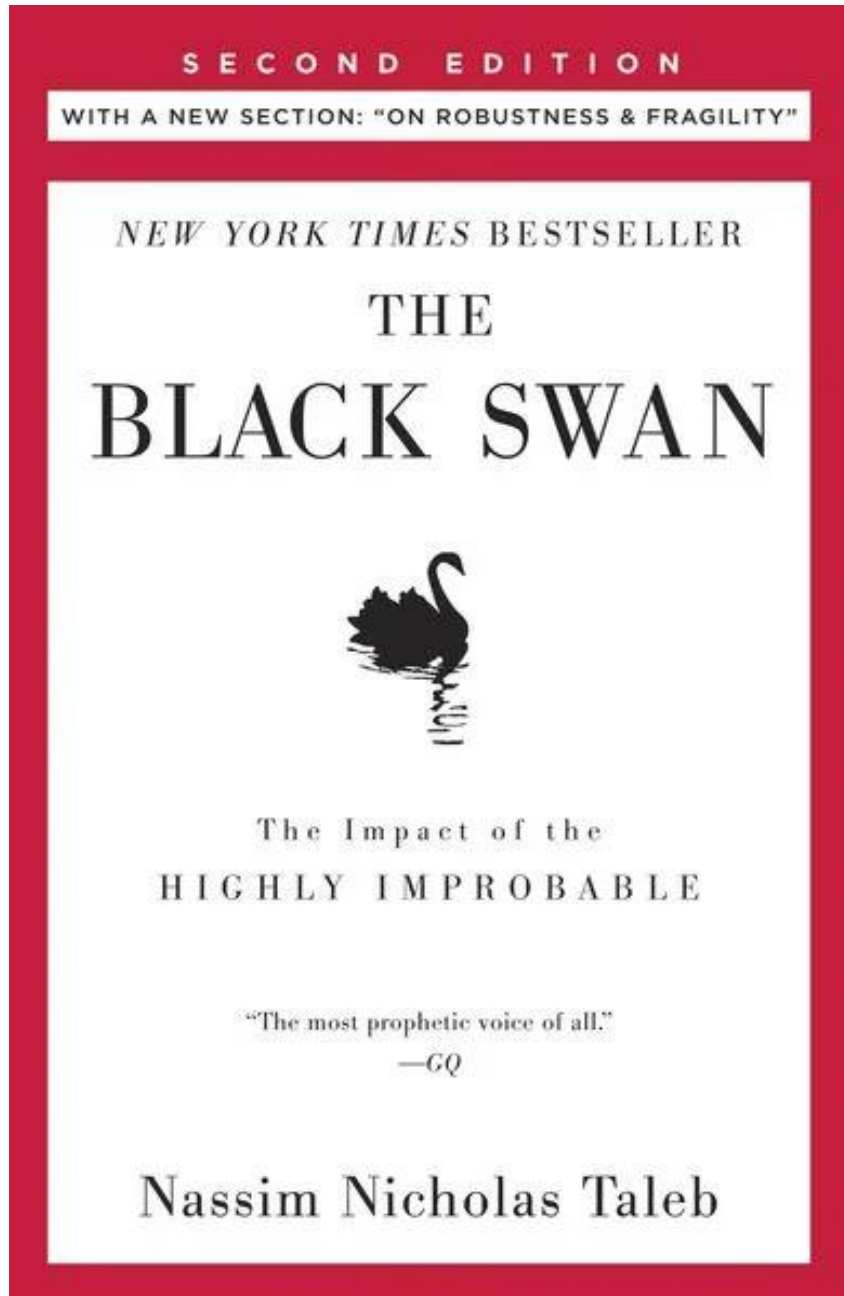
Scenario-based analysis at a glance



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

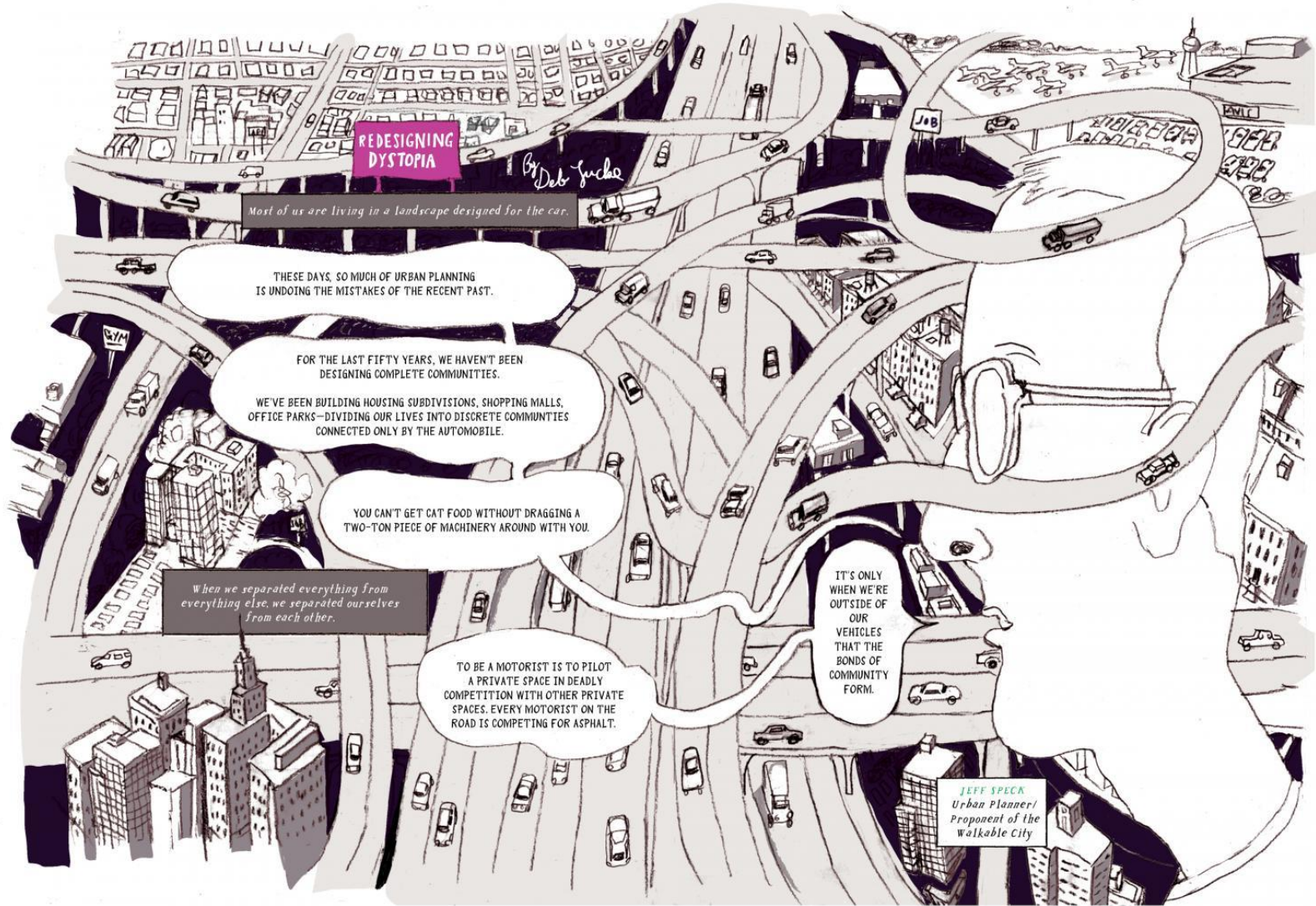
Black Swan Events
or
,Wild Cards'

Visualise alternative futures. Make them specific to your landscape.



IMLA Studio Tiefenbach Valley, Summer 2023

Visualise alternative futures. Make them specific to your landscape.



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

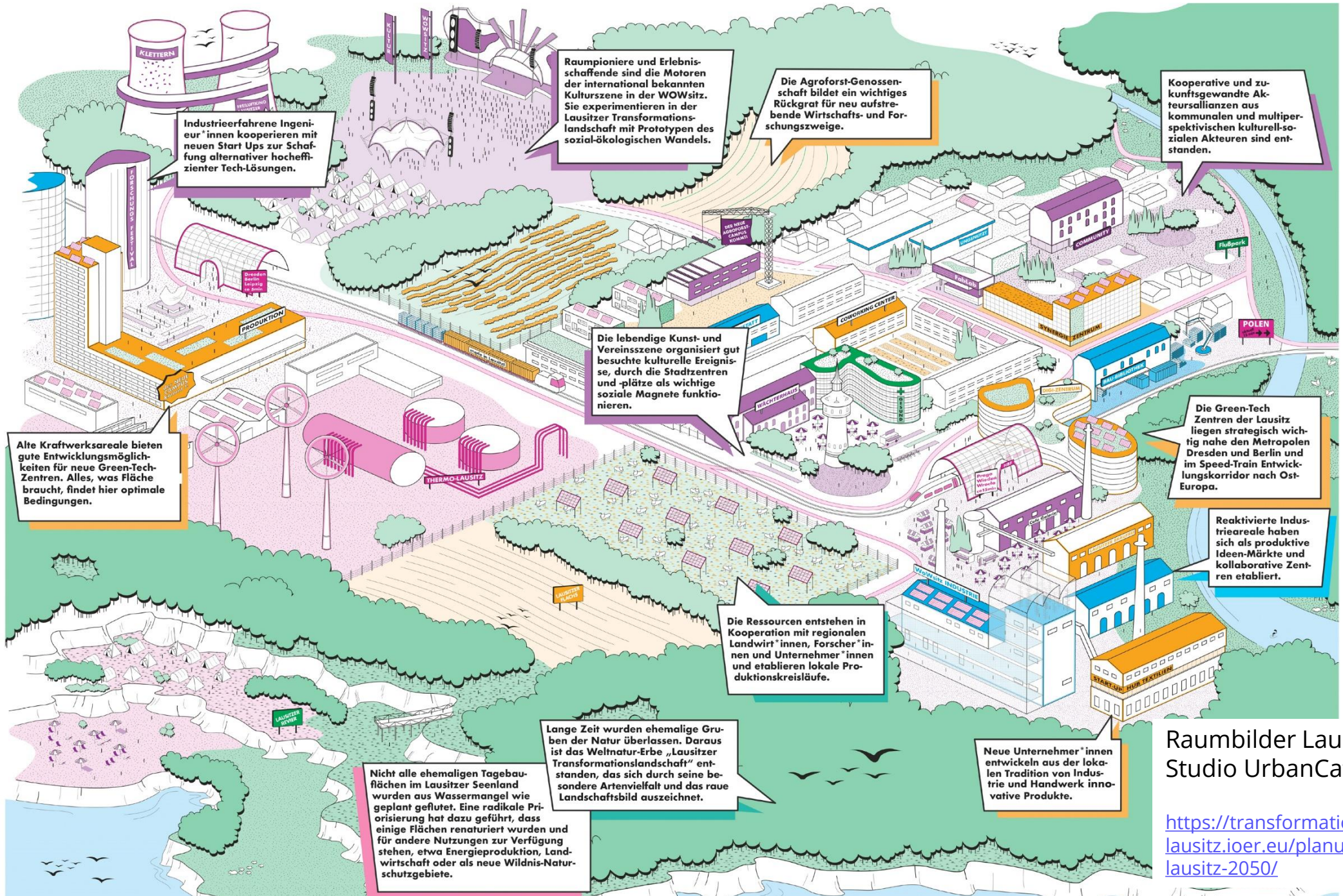


Visualise alternative futures. Make them specific to your landscape.



Example: Berlin Strategy 2030 / Stadtentwicklungskonzept Berlin 2030 (StEK 2030)

Source: Urban Catalyst, <https://www.urbancatalyst.de/de/projekte/berlin-strategie-2030.html>



Industriee erfahrene Ingenieur*innen kooperieren mit neuen Start Ups zur Schaffung alternativer hocheffizienter Tech-Lösungen.

Raumpioniere und Erlebnis-schaffende sind die Motoren der international bekannten Kulturszene in der WOWsitz. Sie experimentieren in der Lausitzer Transformations-landschaft mit Prototypen des sozial-ökologischen Wandels.

Die Agroforst-Genossen-schaft bildet ein wichtiges Rückgrat für neu aufstrebende Wirtschafts- und Forschungs-zweige.

Kooperative und zu-kunfts-gewandte Ak-teursallianzen aus kommunalen und multiperspektivischen kulturell-so-zialen Akteuren sind ent-standen.

Alte Kraftwerksareale bieten gute Entwicklungsmöglich-keiten für neue Green-Tech-Zentren. Alles, was Fläche braucht, findet hier optimale Bedingungen.

Die lebendige Kunst- und Vereinsszene organisiert gut besuchte kulturelle Ereignis-se, durch die Stadtzentren und -plätze als wichtige soziale Magnete funk-tionieren.

Die Green-Tech Zentren der Lausitz liegen strategisch wich-tig nahe den Metropolen Dresden und Berlin und im Speed-Train Ent-wicklungskorridor nach Ost-Europa.

Reaktivierte Indus-triareale haben sich als produktive Ideen-Märkte und kollaborative Zent-ren etabliert.

Die Ressourcen entstehen in Kooperation mit regionalen Landwirt*innen, Forscher*innen und Unternehmer*innen und etablieren lokale Pro-duktionskreisläufe.

Lange Zeit wurden ehemalige Gruben der Natur überlassen. Daraus ist das Welt-natur-Erbe „Lausitzer Transformations-landschaft“ ent-standen, das sich durch seine be-sondere Artenvielfalt und das rau-e Landschaftsbild auszeichnet.

Nicht alle ehemaligen Tagebau-flächen im Lausitzer Seenland wurden aus Wassermangel wie geplant geflutet. Eine radikale Pri-orisierung hat dazu geführt, dass einige Flächen renaturiert wurden und für andere Nutzungen zur Verfüg-ung stehen, etwa Energieproduktion, Land-wirtschaft oder als neue Wildnis-Natur-schutzgebiete.

Neue Unternehmer*innen entwickeln aus der loka-len Tradition von Indus-trie und Handwerk inno-vative Produkte.

Raumbilder Lausitz 2050
Studio UrbanCatalyst, Berlin

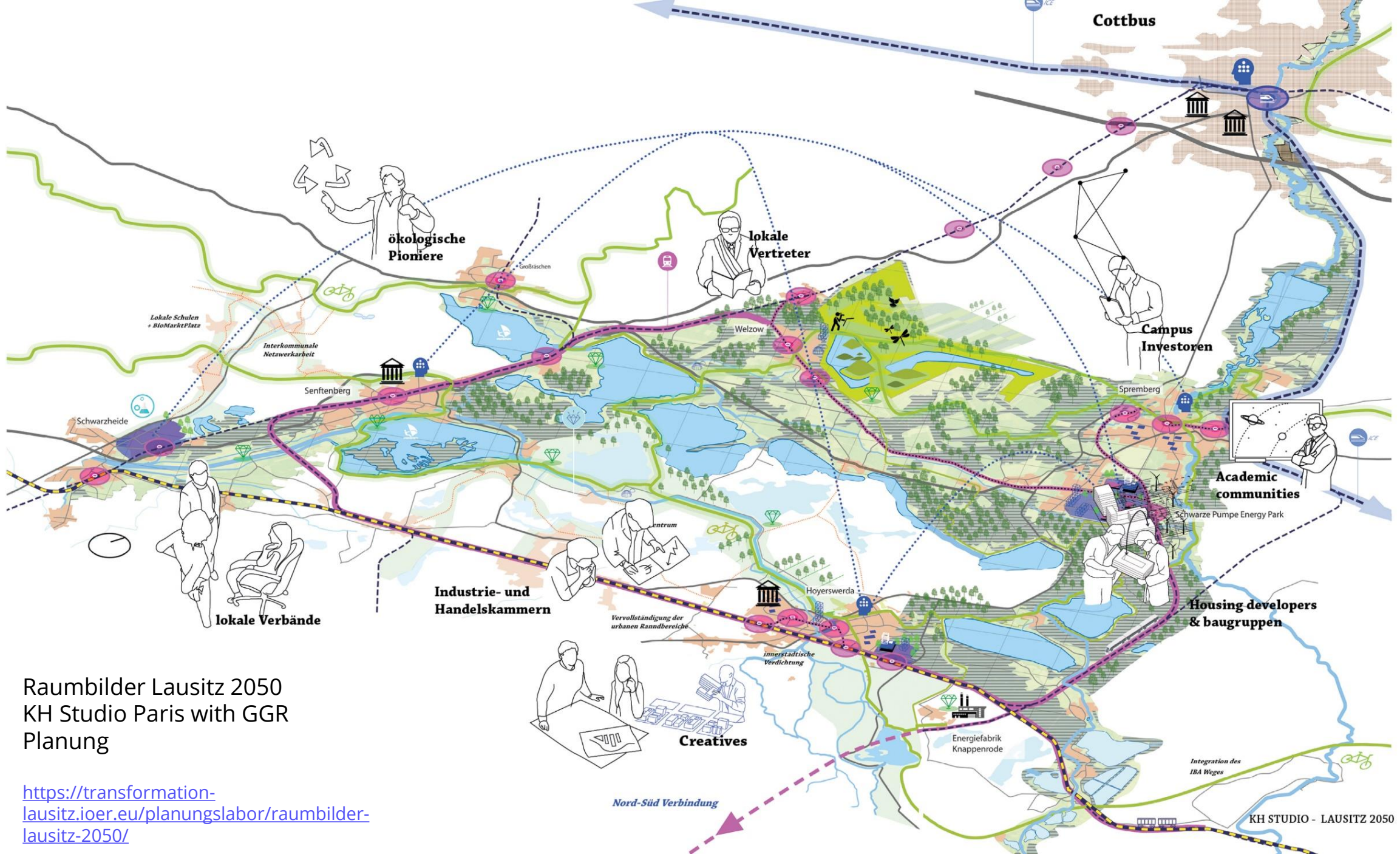
<https://transformation-lausitz.ioer.eu/planungslabor/raumbilder-lausitz-2050/>



Zoom in

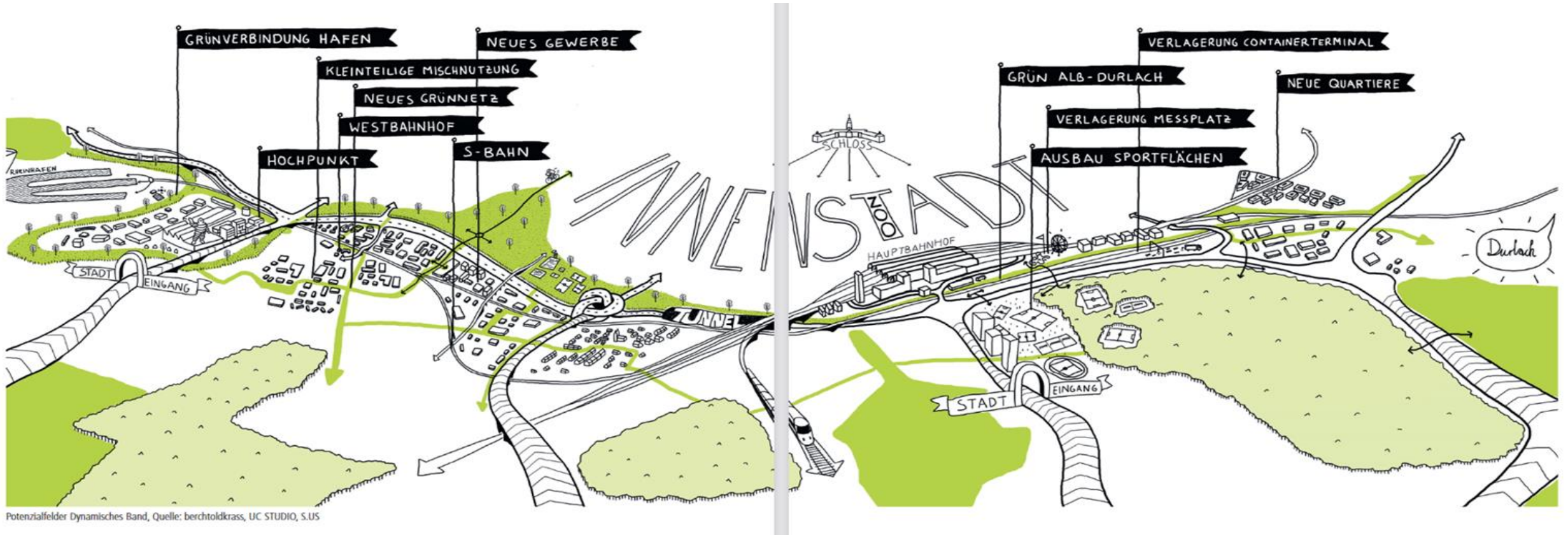
Raumbilder Lausitz 2050
Studio UrbanCatalyst, Berlin

<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/>



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

KREATIV LEBEN an der Panke



Sämtliche öffentliche Plätze und Spielplätze im QM-Gebiet wurden seit 2002 durch das Quartiersmanagement Pankstraße neu gestaltet.

KREATIV LERNEN an der Panke



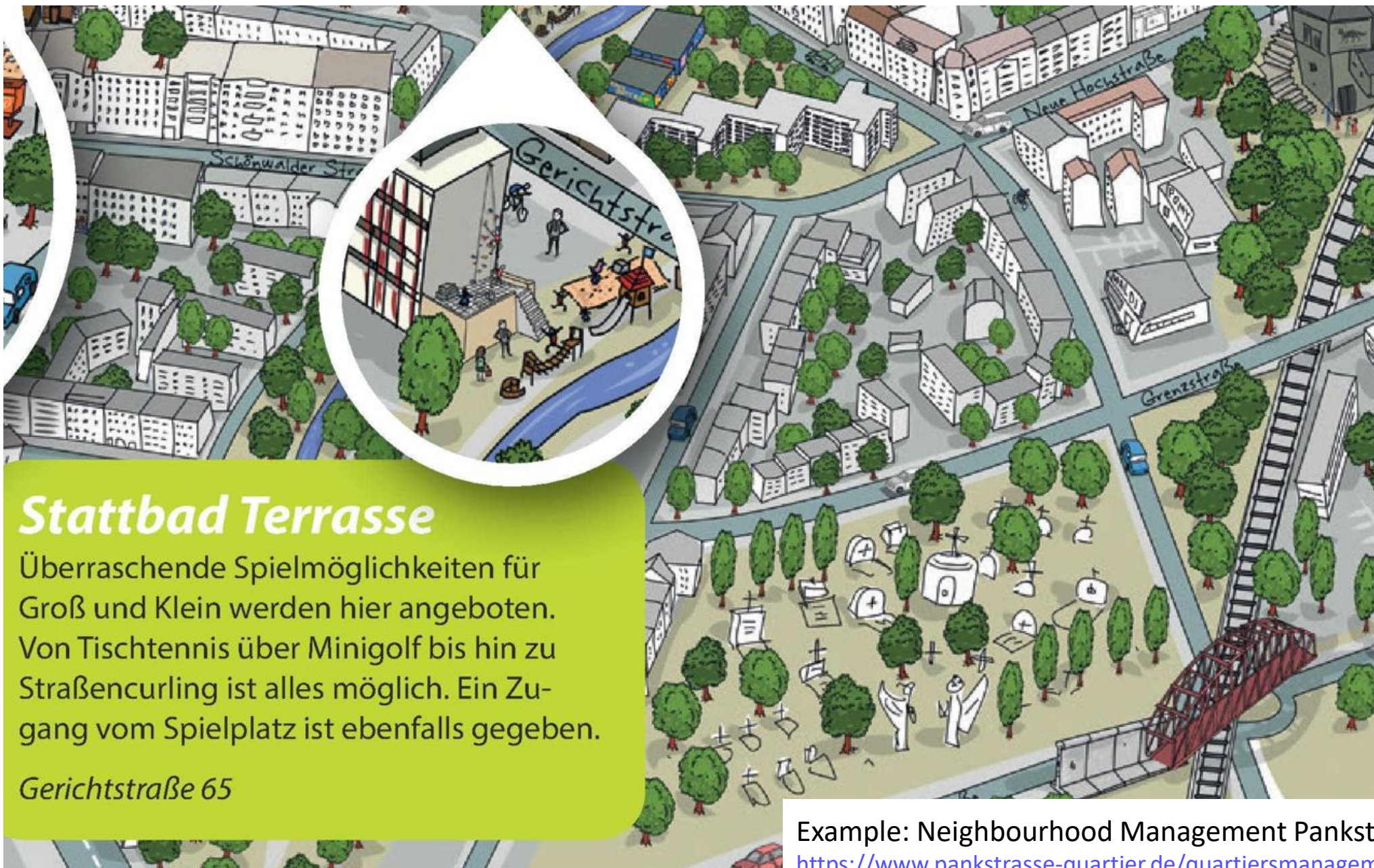
Diese und weitere Bildungseinrichtungen im Quartier sind Partner im Kulturellen Bildungsverbund Pankstraße, der 2009 durch das QM initiiert wurde.

KREATIV ARBEITEN an der Panke



Im Quartier Pankstraße haben sich besondere Standards der Kreativwirtschaft entwickelt.

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



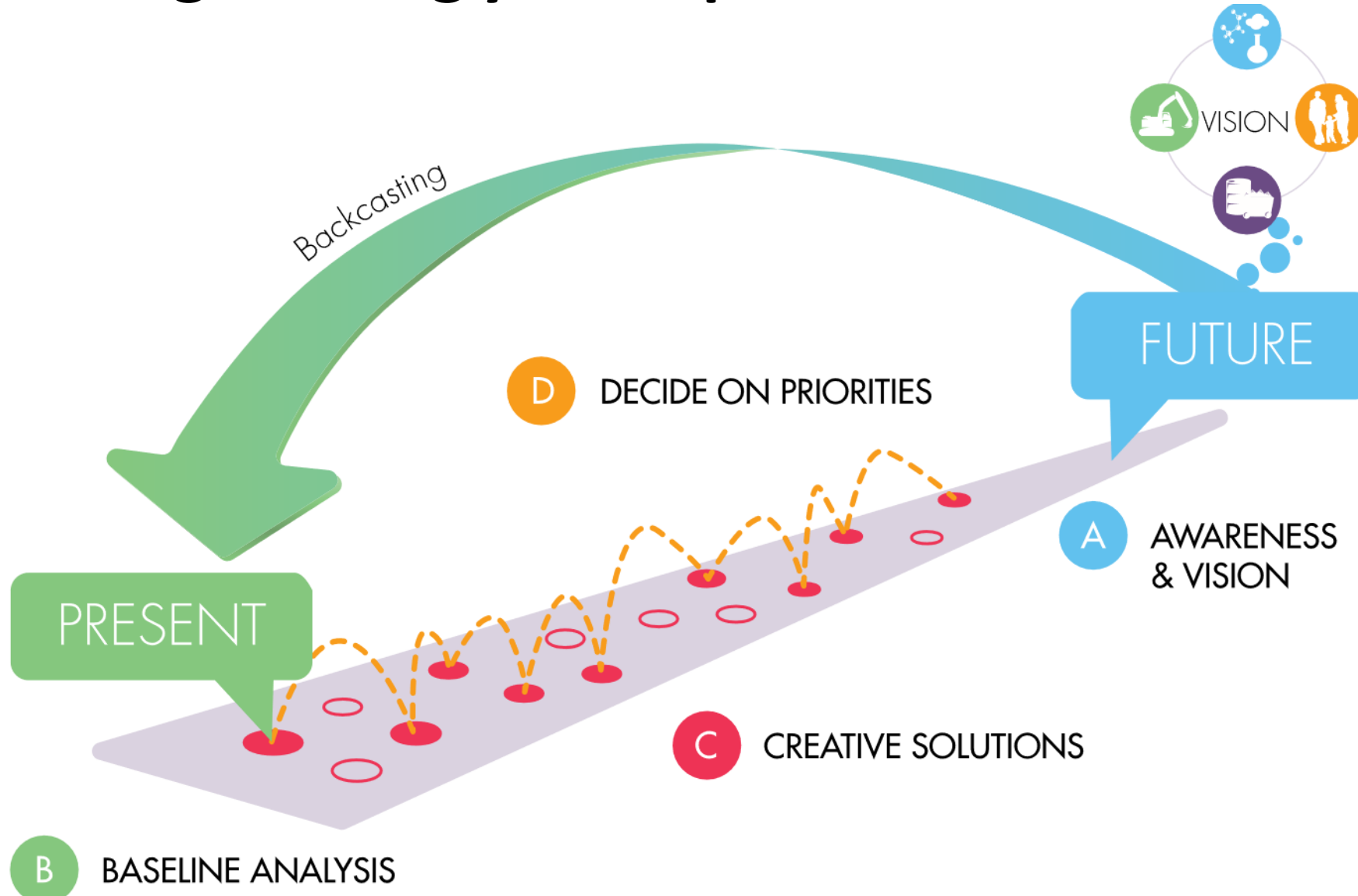
Stattbad Terrasse

Überraschende Spielmöglichkeiten für Groß und Klein werden hier angeboten. Von Tischtennis über Minigolf bis hin zu Straßencurling ist alles möglich. Ein Zugang vom Spielplatz ist ebenfalls gegeben.

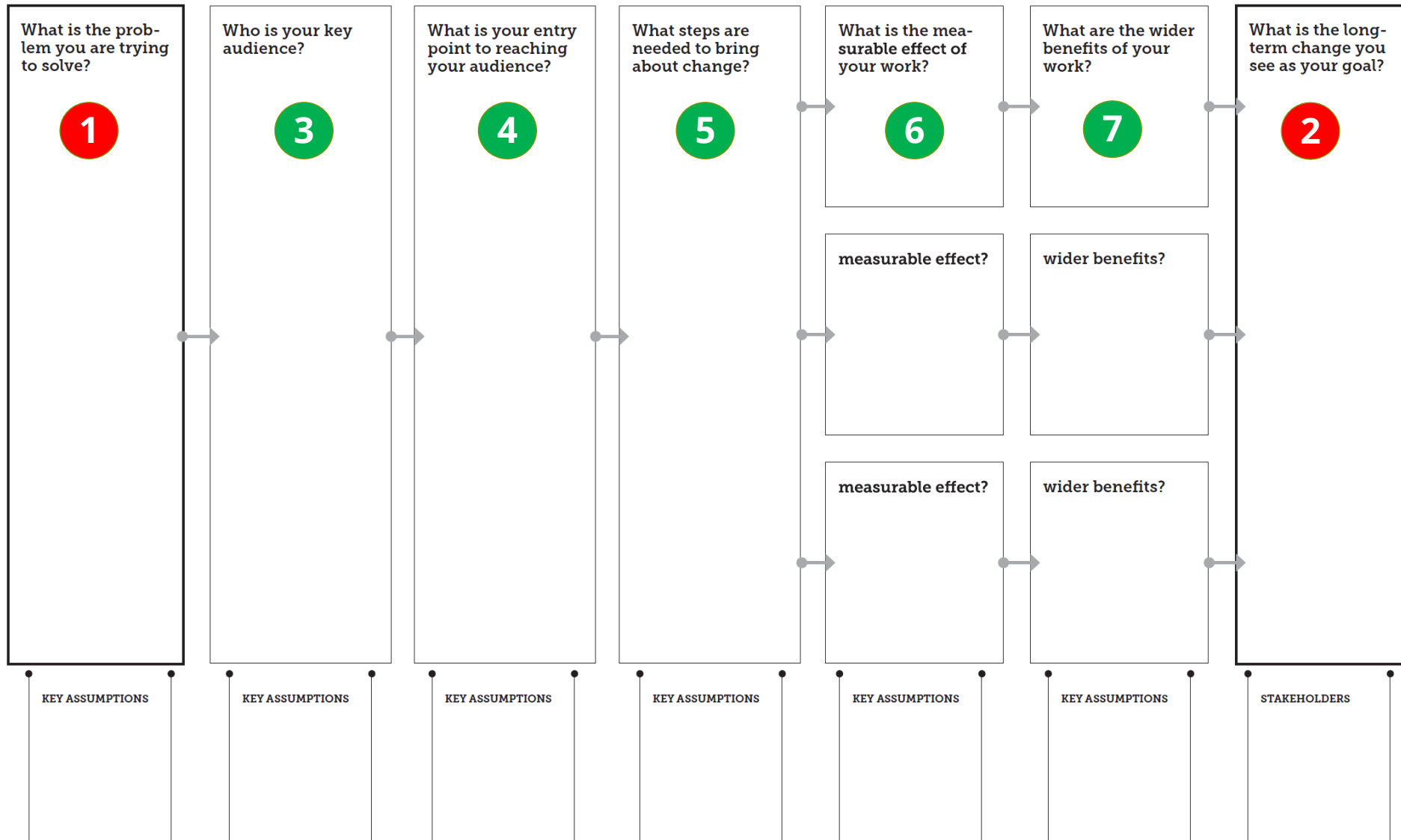
Gerichtstraße 65

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

Backcasting: Building your steps to the Future



Strategy Building with the Theory of Change Canvas



Here you will map your social innovation idea.

How will your landscape work?

Our TELOS seminar model

theoretical track
practical track

Assignment 1.1
Pre-Seminar Concept Map
Factual and Conceptual Knowledge
Remember and Understand

Online seminar session
Introduction & Briefing
Procedural knowledge
Applying (preparation)

Online seminar sessions
Health & The Commons
Conceptual Knowledge

Online seminar sessions
Mobility and Energy
Conceptual Knowledge

Online seminar sessions
Agriculture and Urban Forestry
Conceptual Knowledge

Online seminar sessions
Production, Logistics and Retail
Conceptual Knowledge

Online seminar sessions
Dwelling and Tourism
Conceptual Knowledge

Assignment 2.1
Landscape System Analysis
Procedural Knowledge
Apply, Analyse and Evaluate

Online seminar sessions
Scenario & Forecasting
Procedural & Metacognitive Knowledge
Apply, analyse and evaluate

Online seminar sessions
Coaching Session
Procedural & Metacognitive Knowledge
Apply, analyse and evaluate

Assignment 2.2
Forecasting
Procedural Knowledge
Apply, Analyse and Evaluate

Online seminar sessions
Social Business Modeling
Conceptual and Procedural Knowledge

Online seminar sessions
Social Business Modeling
Conceptual and Procedural Knowledge

Assignment 3
Landscape System Modeling
Procedural Knowledge
Creating

Assignment 1.2
Post-Seminar Concept Map
Factual, conceptual and meta-cognitive Knowledge, remember and Understand

Online seminar sessions
Social Business Modeling
Conceptual and Procedural Knowledge

11.12.23



students are working on a concrete spatial context in parallel and apply the assignments in this territorial and conceptual



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_\(2023-24\)](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

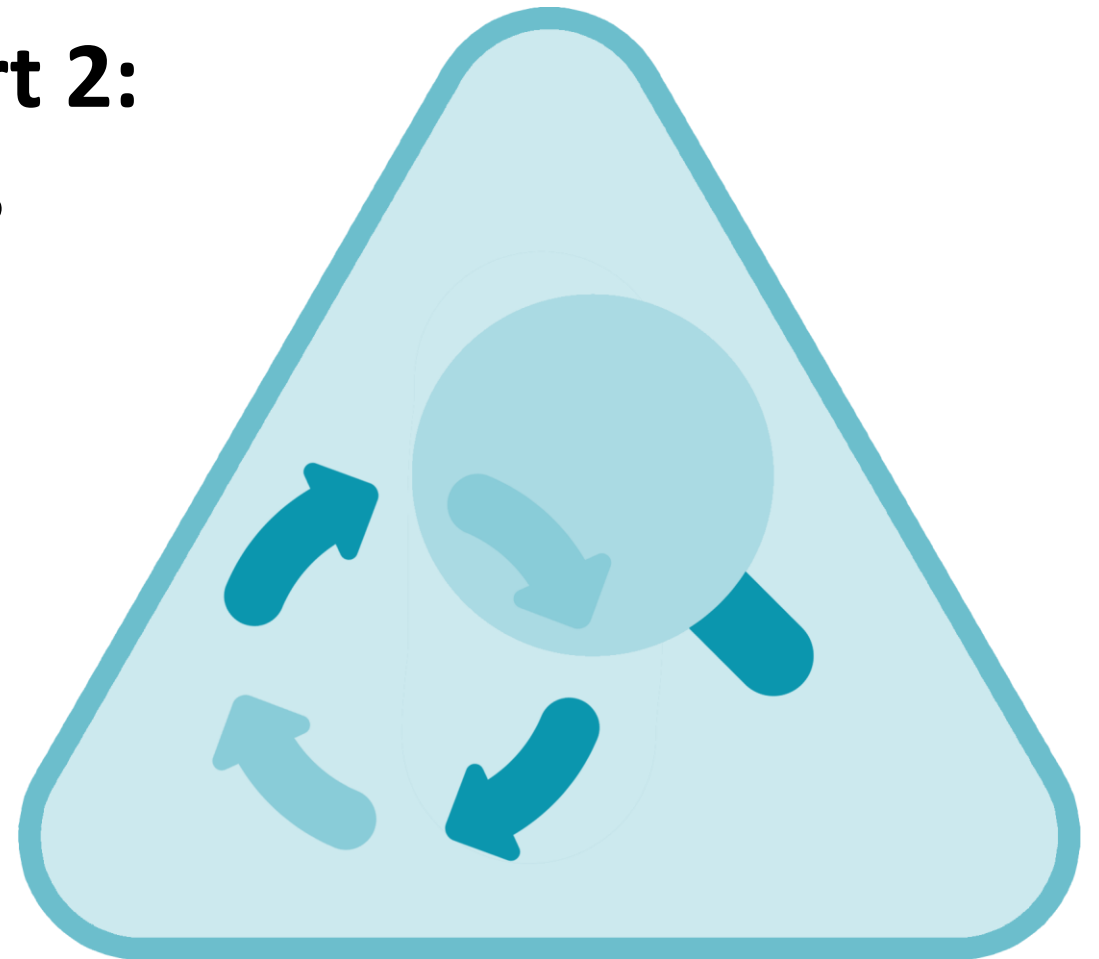
Start: November 20, 2023

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_\(2023-24\)](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

Understanding System Logics

9.10.-20.11.23

Online Sessions

5 double sessions + 1 session

Assignments

Pre Concept Map

Landscape System Analysis: Backcasting

Theories of Change

27.11. – 11.12.23

3 sessions

Landscape System Analysis: Forecasting

System Modeling

18.12.-22.01.24

4 sessions

Landscape System Modeling

Post Concept Map

The **online plenary** meets on **Mondays** from **16 00 - 17 30 CET**

Attention: the first five sessions are double length: 16 00 - 17 15, 17 30 - 18 45

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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 flexible way of participating actively in the TELOS seminar if your schedule does not allow for more engagement.

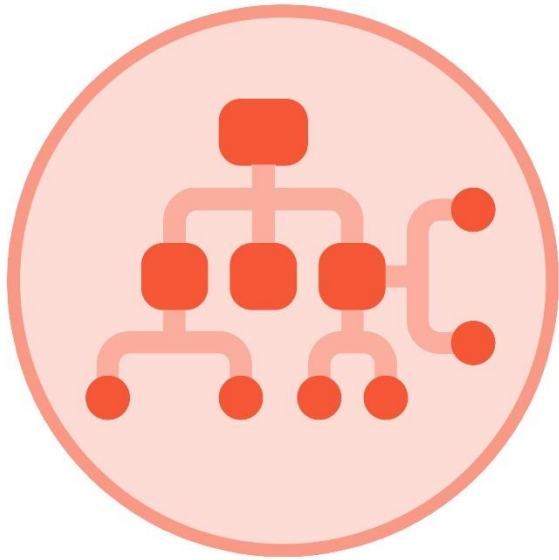
Nr	Assignment	presented on	Submission	Working Mode	Assessment
1.1	Pre-Seminar Concept Map	submission of PDF version	16.10.2023	individual	not graded but compulsory
4	Field Research on Good Practices	Online in the plenary on 11.12.2023	11.12.2023	individual product	Grade 100%
1.2	Post-Seminar Concept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

10 ECTS Model (recommended)

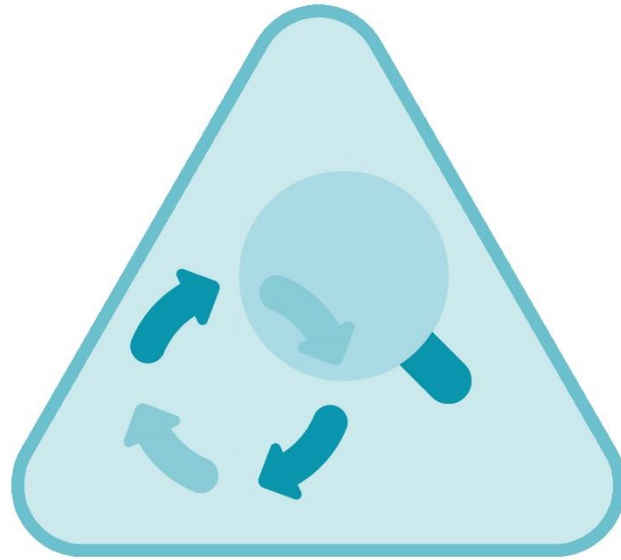
This model requires that you are working on a spatial context, which might typically be your studio project area. You may ask your local supervisors if you can combine the TELOS approach with your studio project activities.

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

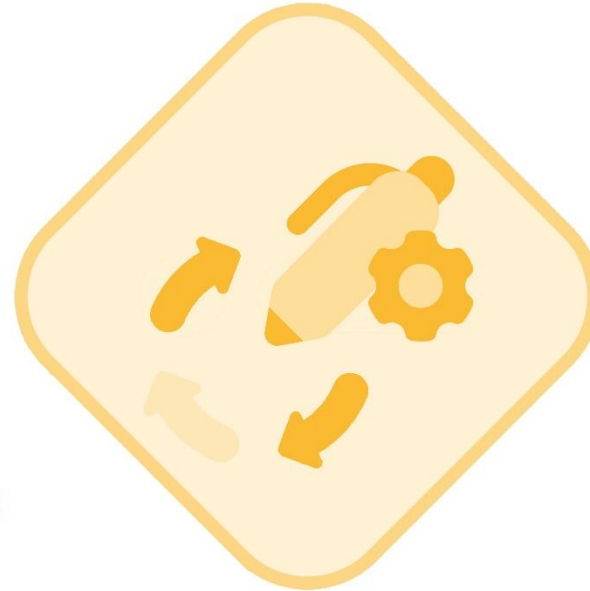
The TELOS seminar assignments



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

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Seminar WIKI
<https://telos.hfwu.de>



zoom

ILIAS
<http://ilias.hfwu.de>

ILIAS

TELOS

Page Discussion

TELOS Online Seminar 2022-2023

TELOS stands for: Towards a European Landscape Economy for a Sustainable Urban Development
We invite you to our Landscape Economy learning experience.
Please register before October 10, 2022.

[>>>register now for the fall seminar 2022](#)

Contents [hide]

- 1 For whom is this course?
- 2 TELOS Online Course October 2022 - January 2023
- 3 Participation modes and distribution of credits
- 4 Seminar topics and schedule October 2022 - January 2023
- 5 Seminar objectives and learning goals

For whom is this course?

- Are you worried about our **planetary boundaries**?
- Are you an architect who cares about **sustainable development**?
- Are you an urban or landscape planner who wants to make planning and design more **inclusive**,
- Are you an economist who wants to work with other disciplines on **transformative processes**?
- Are you **curious** about other people and their knowledge?
- Are you eager to get to know people from **other places** – academics like you but also citizens and
- Do you believe in your capability to **create something new**?

Then join us in the TELOS online programme, summer schools and living labs!

TELOS is about designing innovation by linking **landscape** and **economy**.

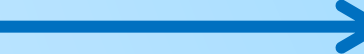
We invite an interdisciplinary audience of students as agents of transformative change for the benefits

TELOS Online Course October 2022 - January 2023

- Our first online seminar will start on **October 10, 2022**, and finish on **January 30, 2023**.

- Assignment Outlines
- References

Direct links



Direct emails
coordinator
-> participants

Transnational discussion groups
on Slack (see invitations)



Landscape Economy Online Seminar October 2022 - January 2023

Inhalt Info Einstellungen Lokale Benutzerverwaltung Export Rechte

Zeigen Verwalten Sortieren

Neues Objekt hinzufügen Seite gestalten

Weblinks

- TELOS Seminar Assignments (link to seminar wiki)

Übungen

- Online submission of TELOS seminar assignments
Nächste Abgabefrist: 7 Tage, 13 Stunden, 52 Minuten

- Recordings
- Lecture slides
- References
- Digital submissions

Teams organise
their own
working
environment

Tartu
Competition is
organised on the
LE:NOTRE ILIAS
Platform

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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THANK YOU

