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The need for Cross sectorial approach to support transition to climate neutrality and first findings of TRANSFORMER project

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Structure of the presentation

- 1 Ecosystem transition and innovation readiness
- 2 Transition Super-Lab concept and process
- 3 Overview of TRANSFORMER TSL activities and first results
- 4 What needs to happen next?

1. Ecosystem transition and innovation readiness

Region/City Led Innovation what is it?

Goal or MISSION Impossible? : Cities need to become SMART, CLIMATE NEUTRAL, ZERO POLLUTED until 2030 / 2050 >

Innovation is considered central to accelerate transition and currently innovative solutions are implementing in Europe in many sectors for this purpose.



✓ Current situation:

Industry-led innovation is speedy and when it is adopted might have side effects that city/regions authorities do not expect and are not prepared to manage

Scooter giant Lime didn't disclose a braking issue that resulted in people breaking bones and damaging their teeth



Share | Like | Comment

Τράκαρε το λεωφορείο χωρίς... οδηγό που κυ Τρίκαλα

Autonomous bus was in manual mode when it crashed in Whitby, Durham police say

By Peter Rocco - Global News



✗ Currently lacking:

Region/City-led innovation aims at empowering leaders (authorities and policy-makers) to develop policies steering the introduction of innovative solutions



1. Ecosystem transition and innovation readiness

Why an ecosystem approach is needed?

Goal or MISSION Impossible? : Cities need to become SMART, CLIMATE NEUTRAL, ZERO POLLUTED until 2030 / 2050 >

Innovation is considered central to accelerate transition and currently innovative solutions are implementing in Europe in many sectors for this purpose.

 **Solution:**



An ecosystem approach (LLs) is needed to provide cities/regions with :

- **the knowledge** to prepare the right conditions for embracing innovation and the arguments for the society and the industry “fair” involvement
- **the capacity** for developing cross sectorial synergies and the policies that will stimulate & generalize cross sectorial innovative solutions taken up for maximizing the impact of innovation.
- **the tools** for achieving common understanding of challenges and cross sectorial actors’ osmosis for easy and correct decision making
- **the organisation** for monitoring efficiency and act in order to stimulate innovative solutions adoption and resilience to unexpected conditions

City/regions-
led innovation



How to enhance the transformation to digital and to accelerate their transition to climate neutrality embracing innovation?

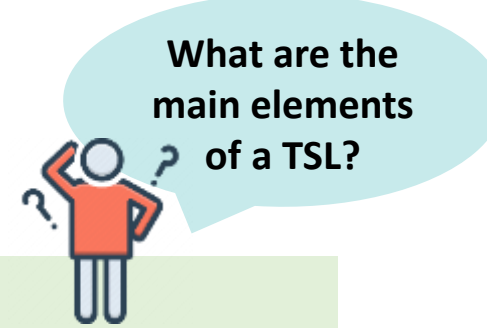


**Innovative Cross sectorial
Policy Response**



2. Transition Super-Lab concept and process

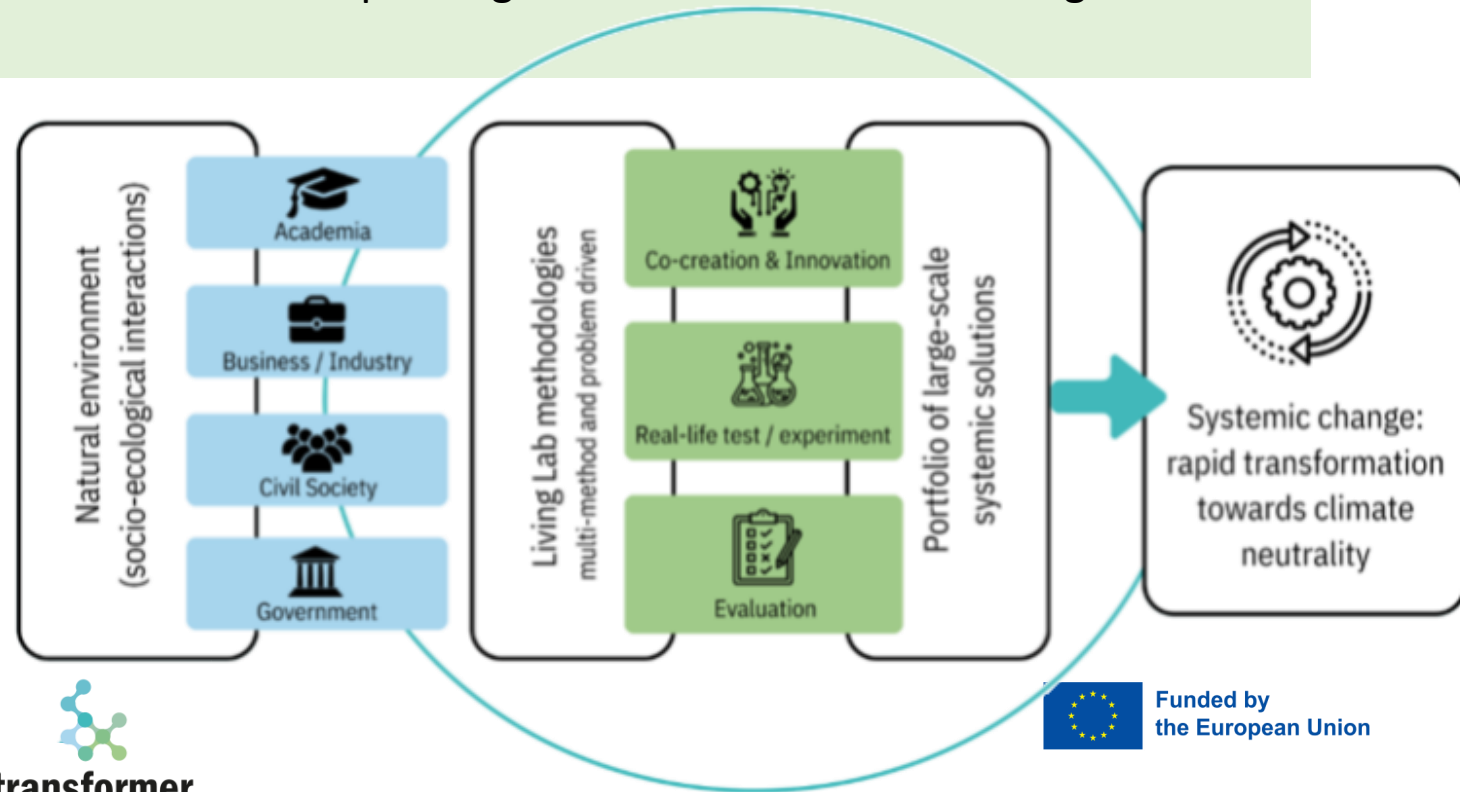
Transition Super Lab main elements



A Transition Super Lab :

1. Is an ecosystem of actors organized to accelerate the transformation towards climate neutrality through **innovation and cross sectorial synergies** on a regional scale.
2. It benefits from a **collaborative governance**, operates in accordance to **systemic transformation** principles and
3. It utilizes **transition enabling methods and tools** in order to create added value to cross-sectorial initiatives for economic transformation and to provide feasible solutions to complex regional transformation challenges.

- ✓ From sectorial pilots to **large systemic cross sectorial solutions**
- ✓ From multiple LL initiatives to **organizational structure for collaborative governing of the transition**
- ✓ Turn opportunities to **long lasting systemic changes**



2. Transition Super-Lab concept and process

01

STRENGTHENING LOCAL TRANSITION CAPACITY

The Transition challenge
What is the most important "topic" of the region for a fundamental regional transformation?

Identify stakeholders/civil society & map their relationships
Who are the stakeholders/civil society groups that can contribute to reach the transition vision?

Co-creation with stakeholders

Assess the transition readiness of your region
What your region needs to have for being transition ready?

What are possible transition pathways/scenarios & subgoals to reach the vision?
What are our options for the future?
What are feasible pathways?

Develop a transition vision & a goal for your region
What future do you want for your region?
Where does the region need to go?

ITERATION LOOP

Identify the weak points of your region
What your region needs to do for accelerating readiness?

Identify suitable multi-leverage "pilot use cases" to test how pathways/subgoals can be reached
What are the 'pilot use cases'?

ITERATION LOOP

Achieve at the end of this step of the open innovation process in TSL

- Consume preexisting Knowledge
- Agreed transition pathways
- Weak points identification
- Stakeholders' dynamics
- Cross sectorial synergies

MILESTONES

04

SCALING-UP TRANSITION

Define emblematic innovative transition projects
How to define emblematic transition projects?

Maximise implementations & impact
How to maximise impact?

Monitor & assess the success of the transition process
Is the transition process successful for your region?

ITERATION LOOP

MILESTONES

Achieve at the end of this step of the open innovation process in TSL

- Emblematic projects
- Suggestion of structural reforms
- New transition policies

02

GEARING TRANSITION CAPACITY

Stakeholders/civil society redefinition & coalition
Why to redefine the stakeholders/civil society group?

Select the "pilot use cases"
What "pilot use case" to select?

Examine feasibility of the "pilot use cases"
How feasible are the selected pilot use cases?

Create value proposition for stakeholders & conflict resolution
How to keep stakeholders engaged?

MILESTONE

Achieve at the end of this step of the open innovation process in TSL

- Feasible pilot use cases
- Engaged group of stakeholders

03

ACCELERATING TRANSITION THROUGH INNOVATION

Define "Quick wins"
Why is important to define "Quick wins"?

Adoption of international innovative solution
Why to adopt an international solution?

Identify external investors
Why to involve external investors?

Create & implement an Action Plan
What are the actions that should be implemented for achieving the pilot use cases?

MILESTONES

Achieve at the end of this step of the open innovation process in TSL

- Quick win definition
- Realization of real-life test experiments
- Action Plan



Cross sectorial
Transition
model towards
climate
neutrality
(Open Innovation
Community driven)



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www.transformer-project.eu



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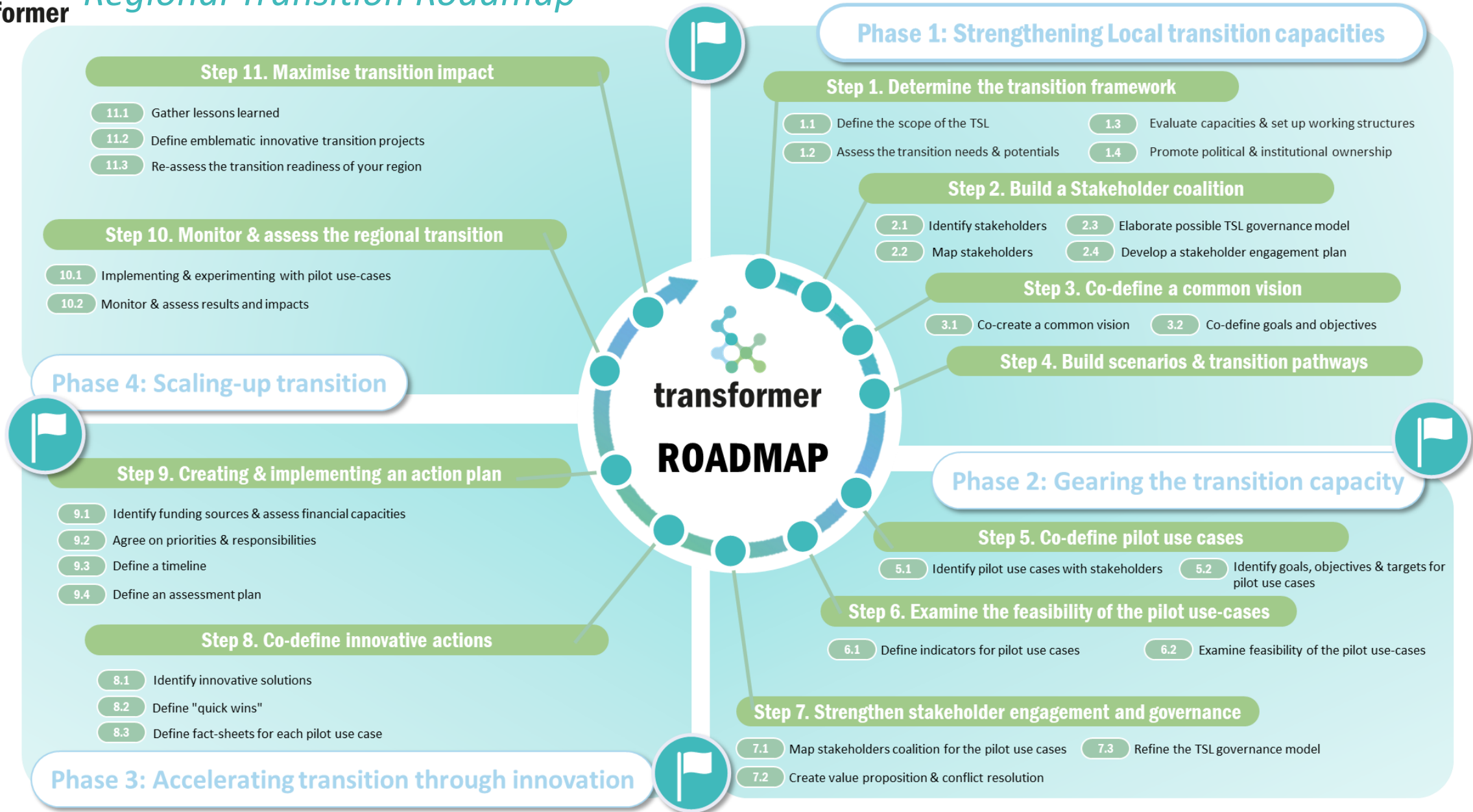


TRANSFORMER consortium is a micro example of the first TSL



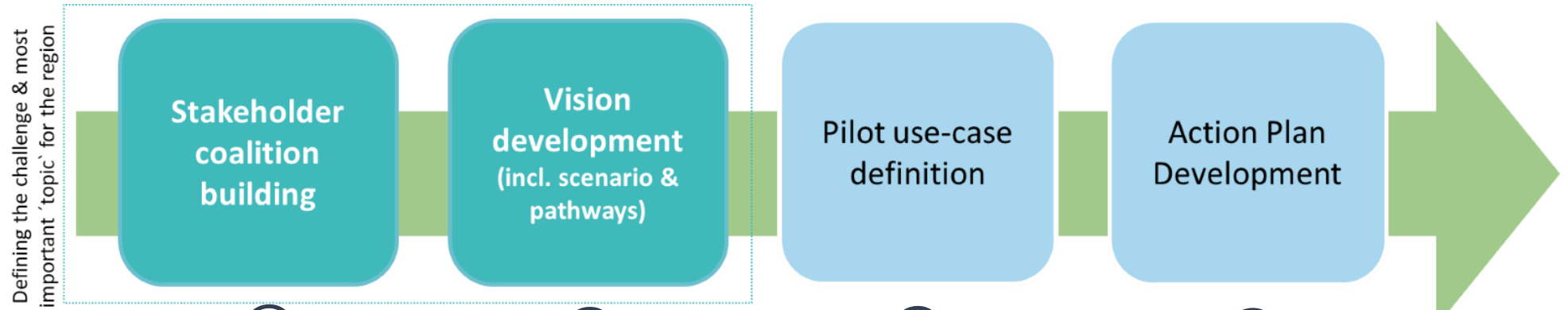
3. Overview of TRANSFORMER TSL activities and first results

Regional Transition Roadmap



3. Overview of TRANSFORMER TSL activities and first results

Challenges experienced and responded



- ✓ Ensuring a balanced representation and participation of different societal groups (including marginalized groups)
- ✓ Creating value proposition for each group of stakeholders ensuring their motivation to participate over the long time of a systemic transformation
- ✓ Dealing with individual interests and conflicting ideas among the stakeholders



- ✓ Creating a common vision for a transformation on a regional scale among the variety of different stakeholders
- ✓ Integrating existing economic and political context (top-down approach) with a bottom-up perspective to keep the process open, participatory, and interactive
- ✓ Involve the leaders



- ✓ Contribution to the goal of climate neutrality
- ✓ Potential for systemic transformation
- ✓ Regional character beyond merely local solutions and expected value for the region
- ✓ Experimental and innovative approach
- ✓ Potential for co-creation during the development phase
- ✓ Cross-sectorial approach



- ✓ Developing concrete actions through pilot use cases
- ✓ Identifying additional solutions for transforming multiple socio-technical regimes simultaneously
- ✓ Laying foundations for long-term implementation and establishment of a TSL incl. governance arrangements and financing and funding options)





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3. Overview of TRANSFORMER TSL activities and first results

How does TRANSFORMER support the cross sectorial transition to climate neutrality?

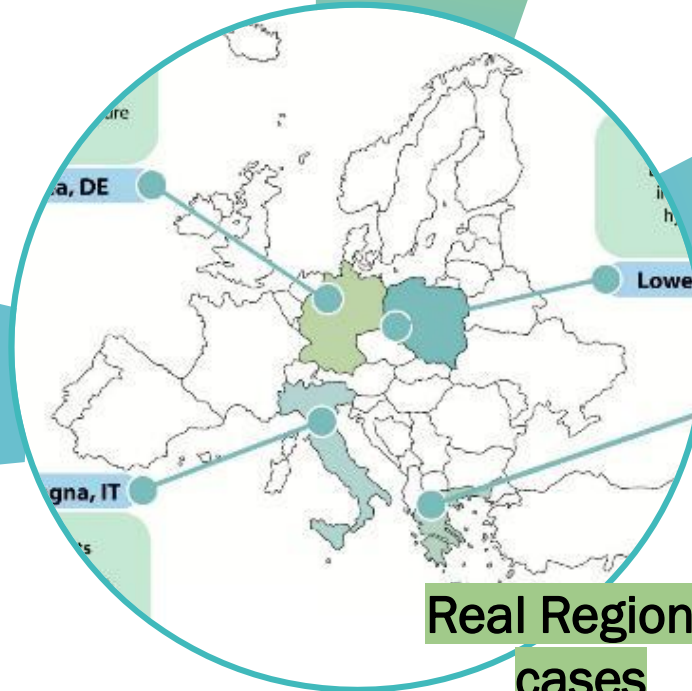
Regional Transition Roadmap



Blueprint for a Transition LL Roadmap process

Innovated & millennial minded toolkit

Toolkit



Real Regional cases



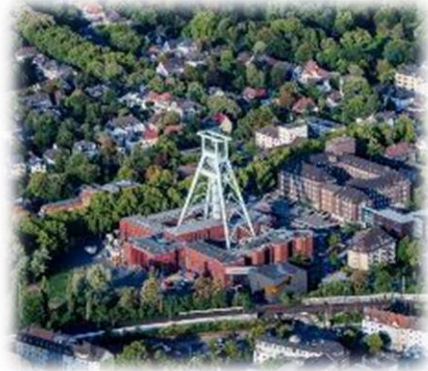
Knowledge Hub

Transfer knowledge on Transition LL, solutions, best practices, assessment methodologies/tools, etc.

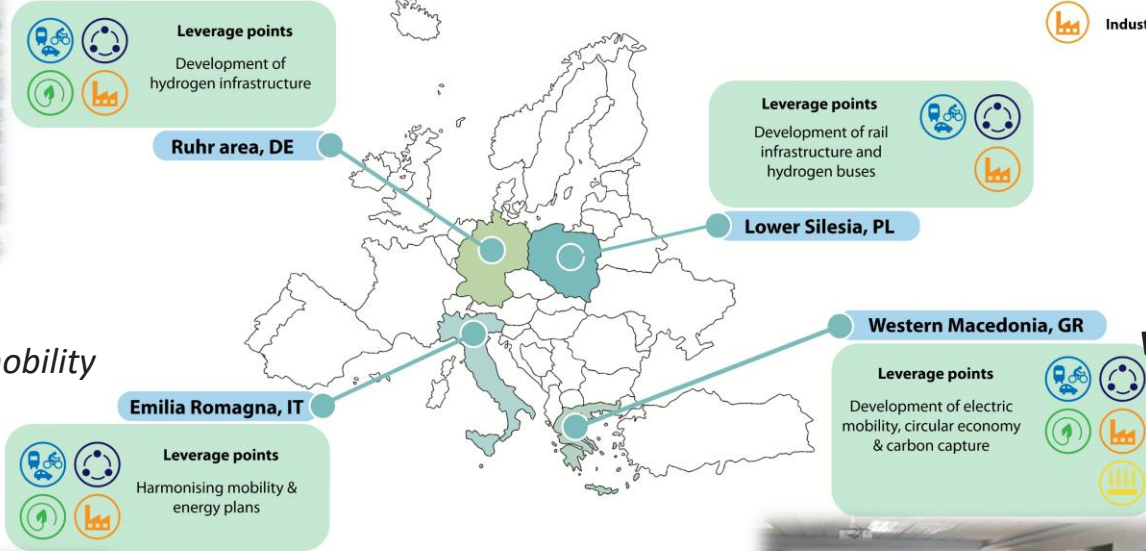
3. Overview of TRANSFORMER TSL activities and first results

Paradigm of regional ecosystems in driving position

Vision: Transformation to one the greenest industrial regions in Europe



Vision: Harmonization of existing mobility and energy initiatives



Vision: Implement of zero-emission transport in the Legnica-Glogow Copper Belt area



-  Mobility
-  Circular Economy
-  Energy
-  Agriculture & Food production
-  Industry

Vision: Diversification of the economy through climate-neutral energy





3. Overview of TRANSFORMER TSL activities and first results

TRANSFORMER Toolkit

TRANSFORMER toolkit included in the Knowledge Hub enables significant up-scaling of the TSLs by setting up and operating a set of tools able to attract different interests of public authorities, enterprise, financiers, investors and other related communities such as researchers and civil society within a TSL.

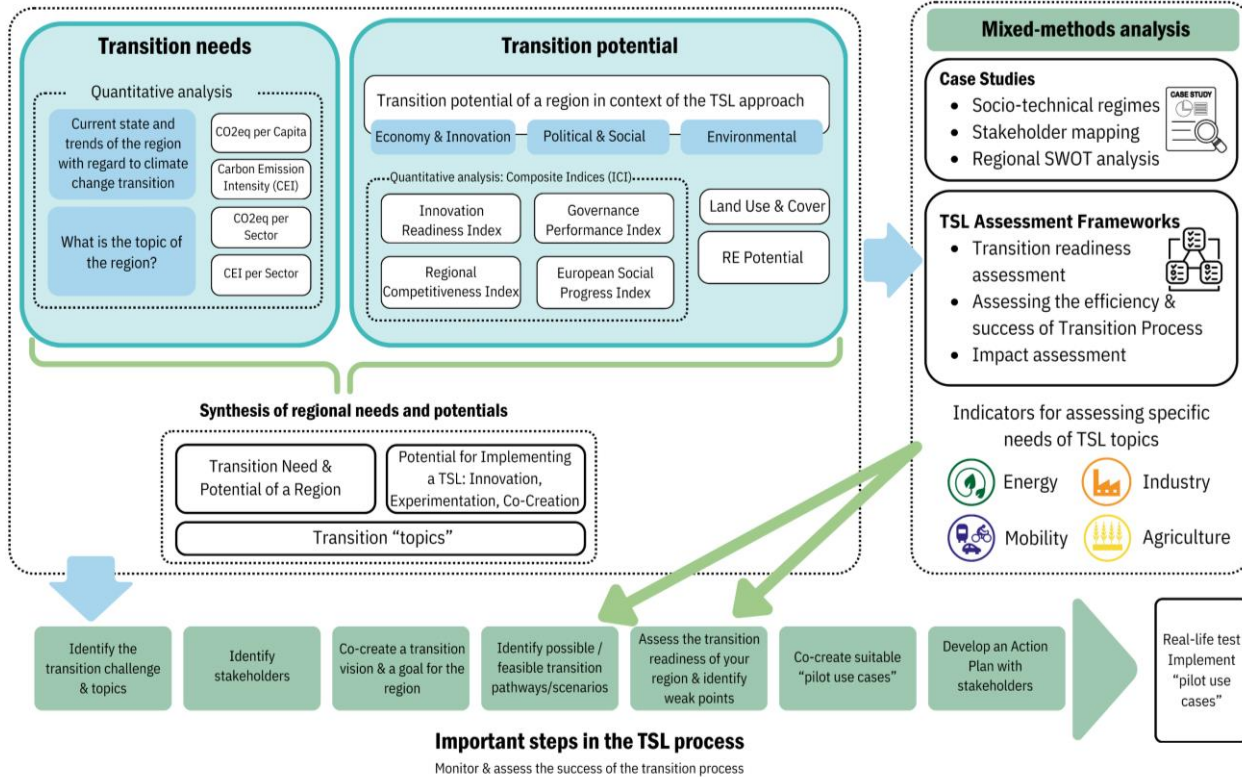
The image shows two screenshots of the TRANSFORMER platform. The top screenshot is the public website landing page, featuring a navigation bar with 'Home', 'Project Website', 'Log in', and 'Register' buttons. The main content area has a dark background with the text 'TRANSFORMER: register to stay always in contact with the project stakeholders' and a 'Register now' button. The bottom screenshot is the user dashboard, which includes a sidebar menu with categories like 'Dashboard', 'Configuration', 'PARTICIPANT', 'ORGANIZATION', 'MARKETPLACE', 'MOBILE APPLICATION', and 'FEEDBACK'. The main content area is titled 'Event information' and contains a form for 'About my event' with fields for 'EVENT TITLE', 'SHORT DESCRIPTION', and 'TOPIC'.

Matchmaking platform

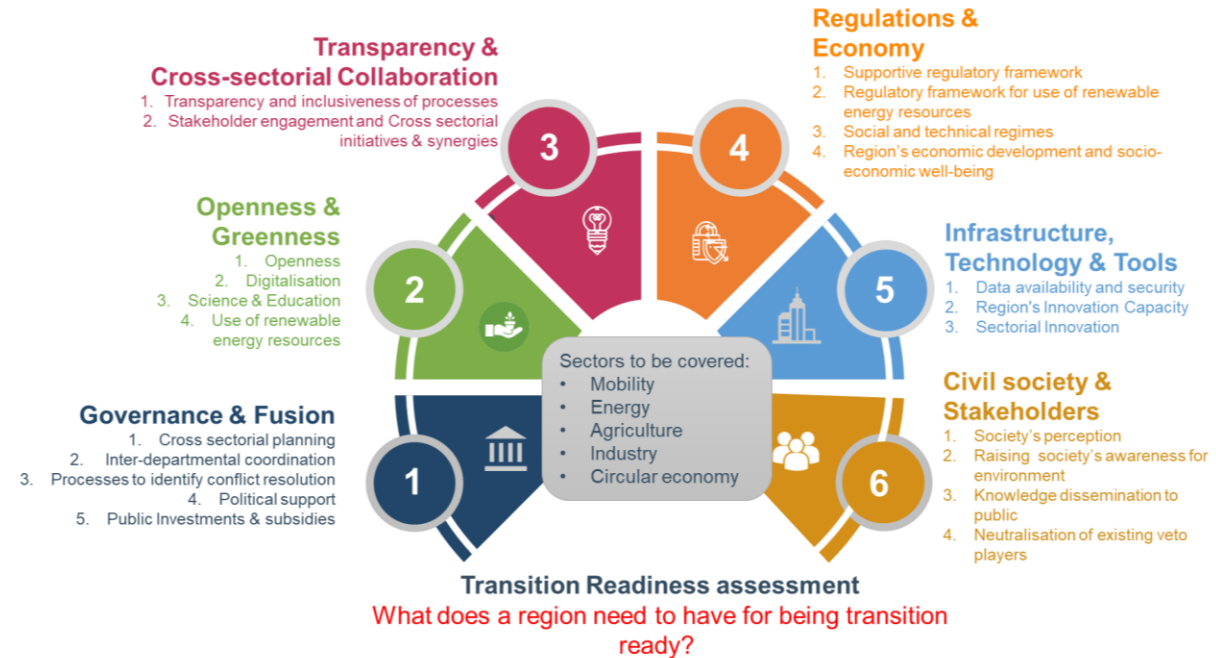
- ✓ **Transitioncamp**: serves as an open day event, bringing together all the stakeholders of the Transition Super-Lab (TSL) in a collaborative setting. The primary purpose of this gathering is to facilitate effective communication and foster a common understanding of the TSL approach among the various parties involved.
- ✓ **Additional tools** for need finding, ideation, collecting feedback.

3. Overview of TRANSFORMER TSL activities and first results

Assessment Frameworks for TSLs



Innovative Cross sectorial ecosystem approach to assess Regional Transition Readiness



Quantitative Regional Assessment Framework (QRAFT) to measure Regional Transition Needs and Regional Transition Potentials

Self-assessment through TRANSFORMER Transition and Innovation Readiness Tool

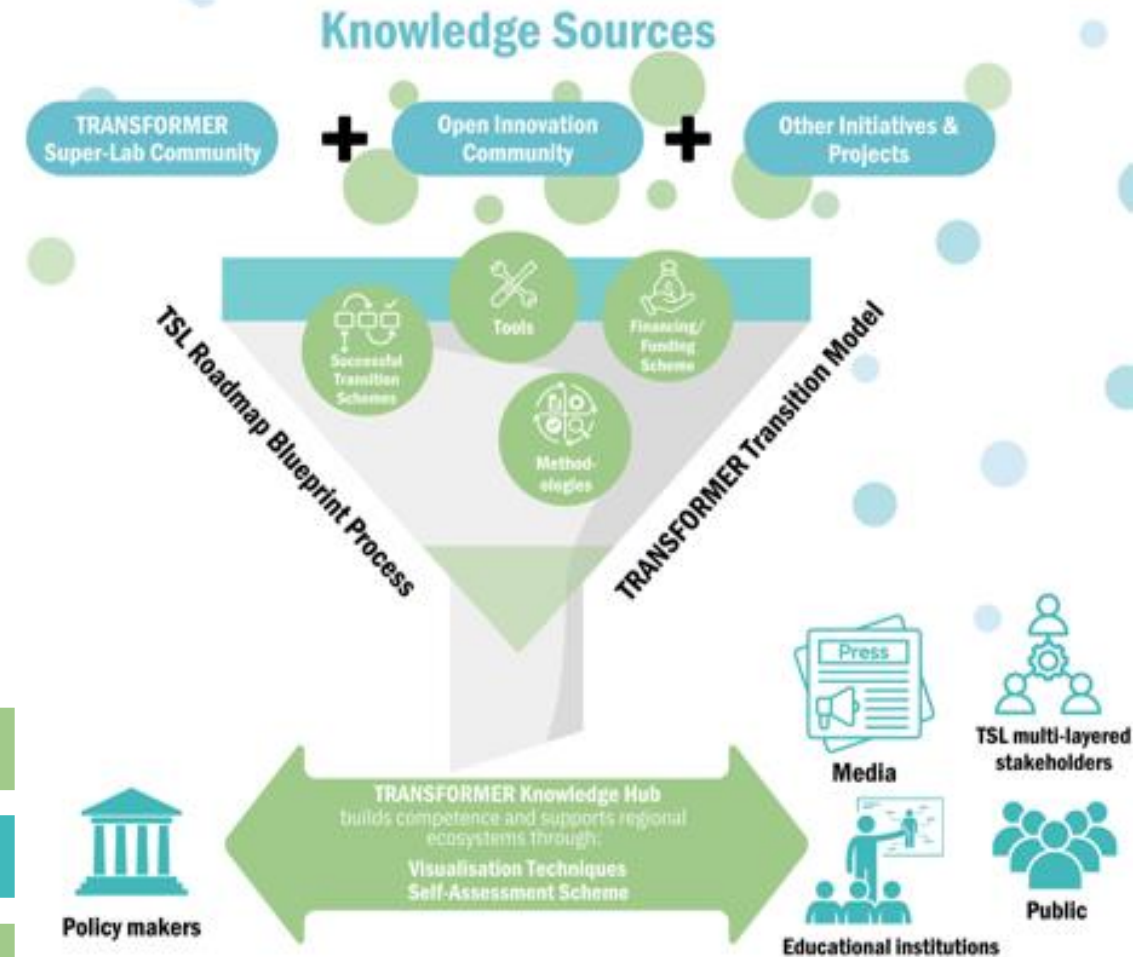
3. Overview of TRANSFORMER TSL activities and first results

TRANSFORMER Knowledge Hub

- The Knowledge Hub is a **step-by-step advisory hub** to build **capacity** for regions and **support their ecosystem of actors** in evolving a cross-sectoral transition towards climate neutrality through innovation.
- It operates as a valuable space for sharing and leveraging the collective knowledge including **transition enabling methods and tools** and good practices related to transition towards climate neutrality, contributing to the success of the transition process.
- Knowledge Hub is available here: <https://transformerknowledgehub.imet.gr/>



Why to use it?





4. What needs to happen next?

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- ✓ Validate TRANSFORMER transition model, roadmap, methods and tools by communicating and testing the results outside consortium
- ✓ Achieve “Quick wins” to pilot local ecosystems for accelerating transition to climate neutrality
- ✓ Establish TSLs (operationalization and institutionalization of cross sectorial LLs) and secure their role in the transition path
- ✓ Attract funds through value offering and bridge local and national/international ecosystems of TSLs
- ✓ Make TSLs operation flagship initiative for climate neutrality for regions for fair and resilient transition to climate neutrality

TSLs Intervention Role to be further established...

Converging community-based action-oriented participatory trans-disciplinary research structures are a key component of **open science** for **sustainable development**.

Bring together **citizens, institutions, industry, and research, engaging citizens** in social practices and connecting the big picture to local action.

Facilitate **visibility** and **access** to open **knowledge**, supporting open data and open-source initiatives and the European Data Spaces.

Promote **innovation, sustainability, and digitalization**, bridging the gap between citizens, industry, public administration, and research.

Test and demonstrate digital solutions for reducing pollution and achieving environmental sustainability.

Speed up the transition process to zero pollution and climate neutrality.



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Thank you for your time!



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