Playbook on resilience pathway development

This project has received funding from the European Union's Horizon H2020 innovation action programme under grant agreement 101036683.

Who are we?

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Design consultant at Verhaert

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Vulnerability & Adaptation Consultant at ACTERRA

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Development of the playbook

Cooperation of:

- Verhaert
- ACTERRA
- Stakeholders (like local governments, researchers, etc.) from West country regions

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Acterra

French Innovation & Consulting firm specialised in climate risk assessment and adaptation strategies

Modelling of climate change and its impacts

Adaptation strategies and action plans, climate risk management

Climate vulnerability and risk assessments

Financing, training, monitoring and evaluation of adaptation

Mampionona RAKOTONIRINA
Climate & Resilience Consultant
TransformAr WP3 Leader

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Founder & Director
Adaptation Pathways expert

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Vulnerability & Adaptation Consultant

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MyEmbeddedLab
Embedded architecture
Smart sensors
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MyMechLab
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Smart mechanisms
Opto-mechanics
Structures
Kinematics
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Microfluidics engineering
Thermal engineering
Acoustic & vibration
Mechatronics
MySystemsLab
Opto-mechanics
Software development
Mechatronics
Quality engineering
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Product design
Interface design
Graphic design
Behavioral design
Marketing collateral
MyDigitalLab
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App & API development
Backend & web development
UX/UI design
Scalable IT infrastructure
3D/VR/AR/MR
MyFabLab
Industrialization
Production
Supply chain management
Testing
Documentation
MyCleanRoom
Cleanroom facility of 650 m²
certified ISO 7 with local
areas in ISO 5

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Life cycle analysis
Foresighting

My**Design**Lab

User research
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Interface design
Graphic design
Behavioral design
Marketing collateral

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TransformAr

TransformAr

Who is TransformAr?

- EU-funded project
- May 2022 – July 2025
- € +12.000.000 project budget
- 22 consortium partners, spread over 12 EU countries
- 6 demonstrator territories
    - *Lappeenranta (Finland), West Country (UK), Guadeloupe (France), Oristano (Italy), Galicia (Spain), Egaleo (Greece)*

Main goal

Develop and demonstrate pathways to achieve transformational adaptation across the EU, to reduce climate-related impacts on people, the economy and the planet with a focus on water.

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What is the playbook?

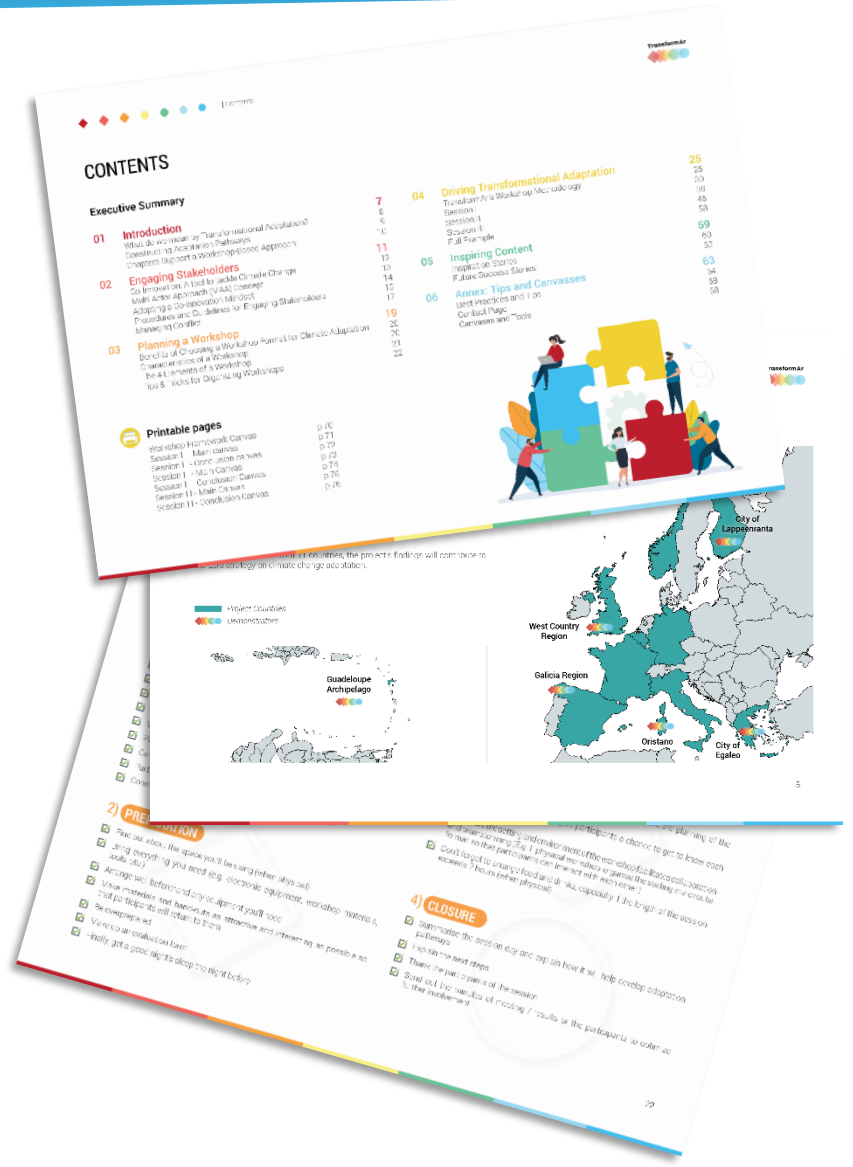
- Interactive PDF
- Help workshop moderators → creating climate adaptation workshops
- 6 demonstrators → updated for use outside consortium

Climate-related impacts in Vulnerable Regions

Changemakers using TransformAr Playbook

Co-innovation process with Stakeholders

Adaptation Pathways leading to Transformational Adaptation



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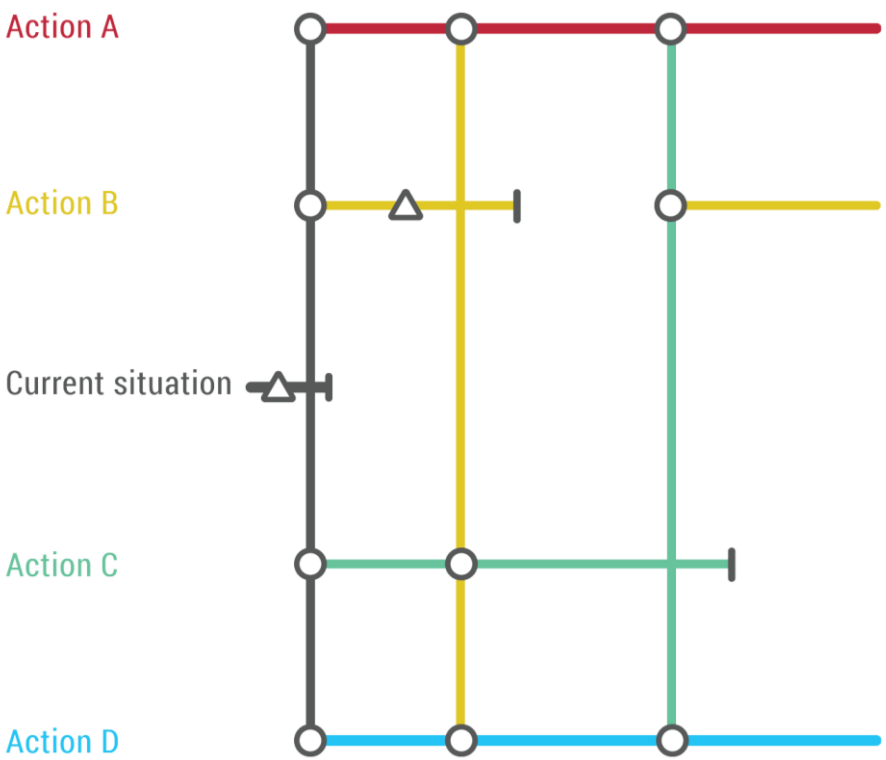
What is transformational adaptation?



Transformational adaptation:

- Transforming the social-ecological system into more resilient one.
  - ➢ Reduces root causes of the vulnerability to climate change.

- Co-creation & stakeholder engagement is very important
  - ➢ More far-reaching & invasive
  - ➢ Develop pathways that are supported and accepted by the local community

Adaptation pathways:

= Sequences of actions which can be implemented progressively depending on future dynamics

- ➢ Addresses uncertainty → encompass alternative ways to achieve a defined objective or strategic outcome

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What is in the playbook?

- Information about climate adaptation
- Instructions on how to lead a workshop
- Canvases and tools

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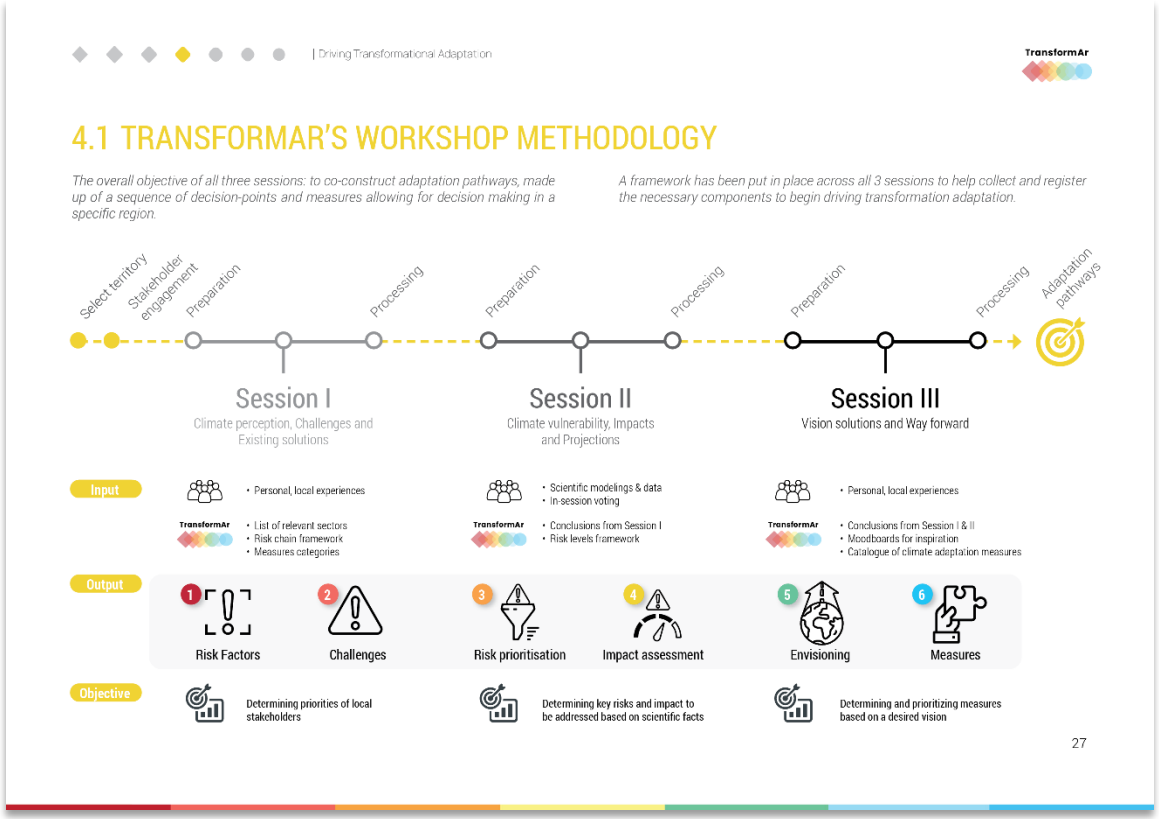
Details about the workshop methodology



The methodology:

- 3 sessions
- Preparation by workshop leader → tips and tricks in playbook
- Start with input from participants & tools from the playbook → consolidate this with the conclusion canvasses

The 3 sessions:

Session 1: Priorities of local stakeholders

Session 2: Determining key risks and impact

Session 3: Determining and prioritizing measures → adaptation pathways as end-result

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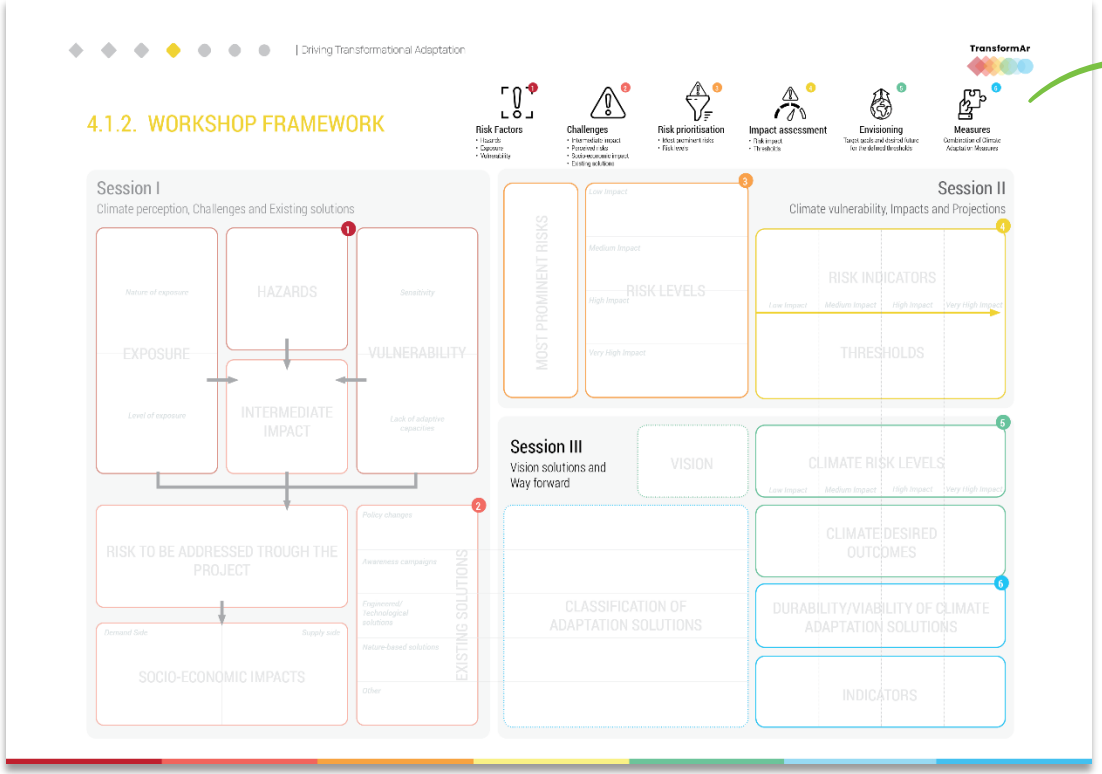
Concrete example of the main tool



Main canvas that is developed by the TransformAr team

→ Will be filled in by the participants in 3 sessions

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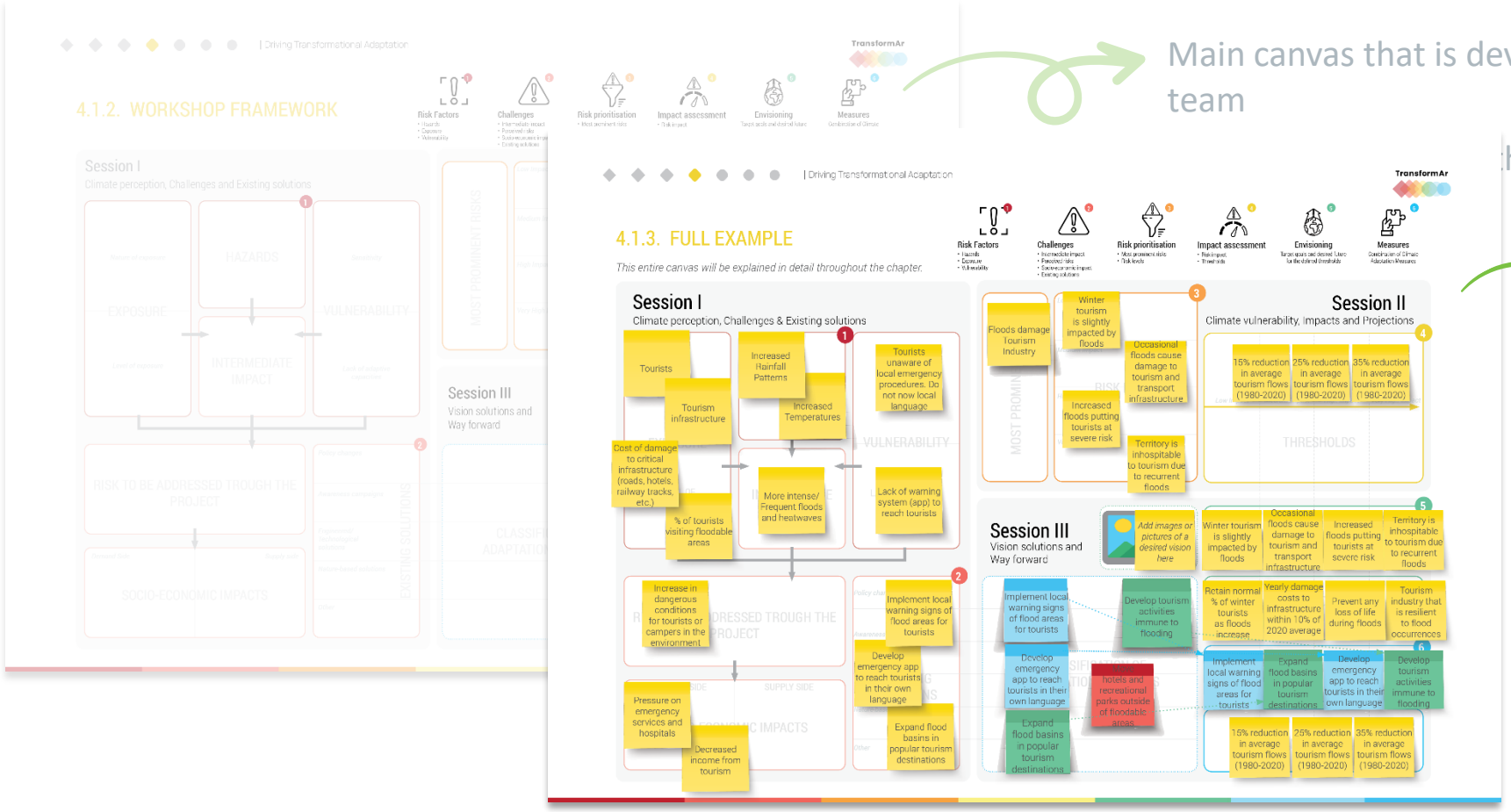
Concrete example of the main tool



Main canvas that is developed by the TransformAr team

he participants in 3 sessions

Example of rough material after workshop 3 → needs to be processed

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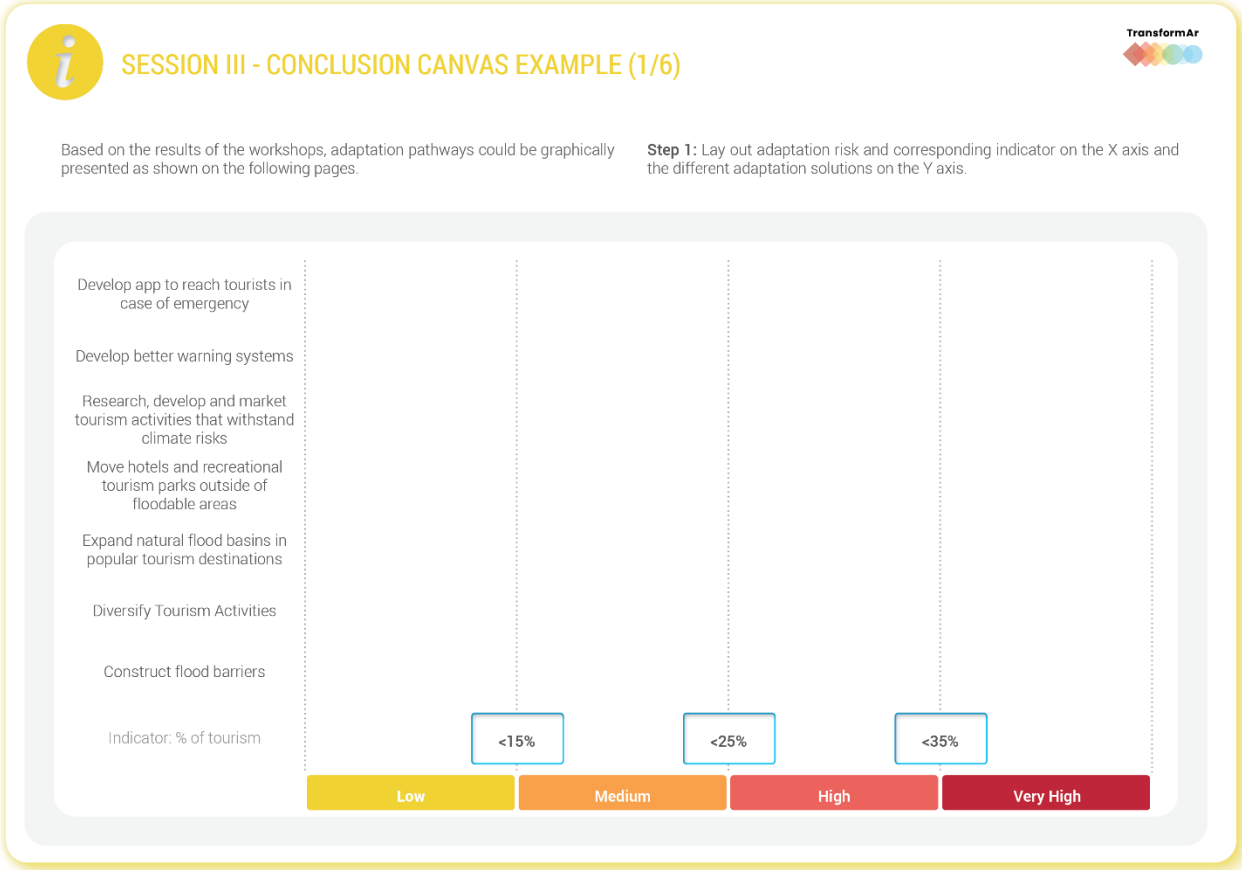
The end-result



Adaptation pathways

The process:

1. List the adaptation risks and thresholds

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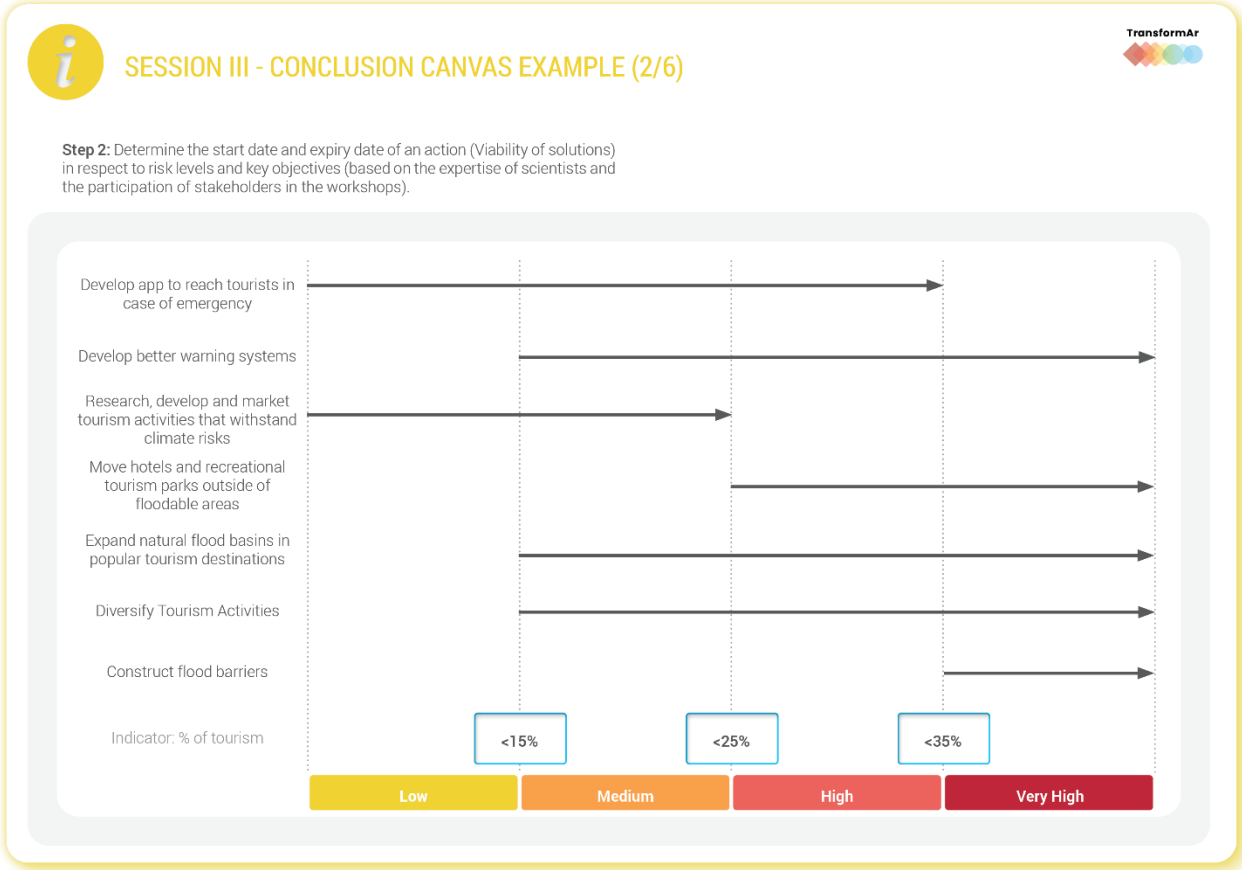
The end-result



Adaptation pathways

The process:

1. List the adaptation risks and thresholds

2. Viability of solutions

→ determine start and expiry date of the actions

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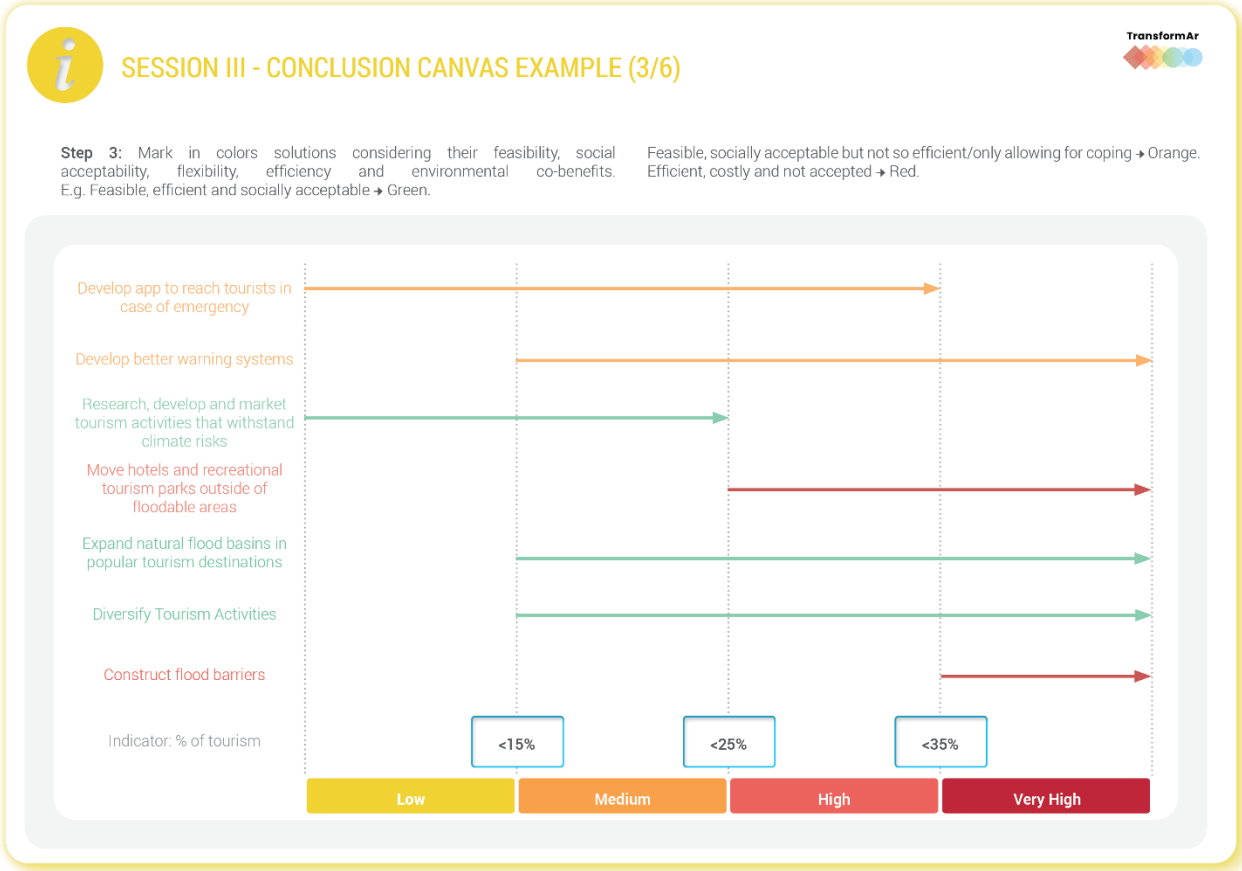
The end-result



Adaptation pathways

The process:

1. List the adaptation risks and thresholds

2. Viability of solutions

→ determine start and expiry date of the actions

3. Color of solutions

→ Color code considering feasibility, social acceptability, etc.

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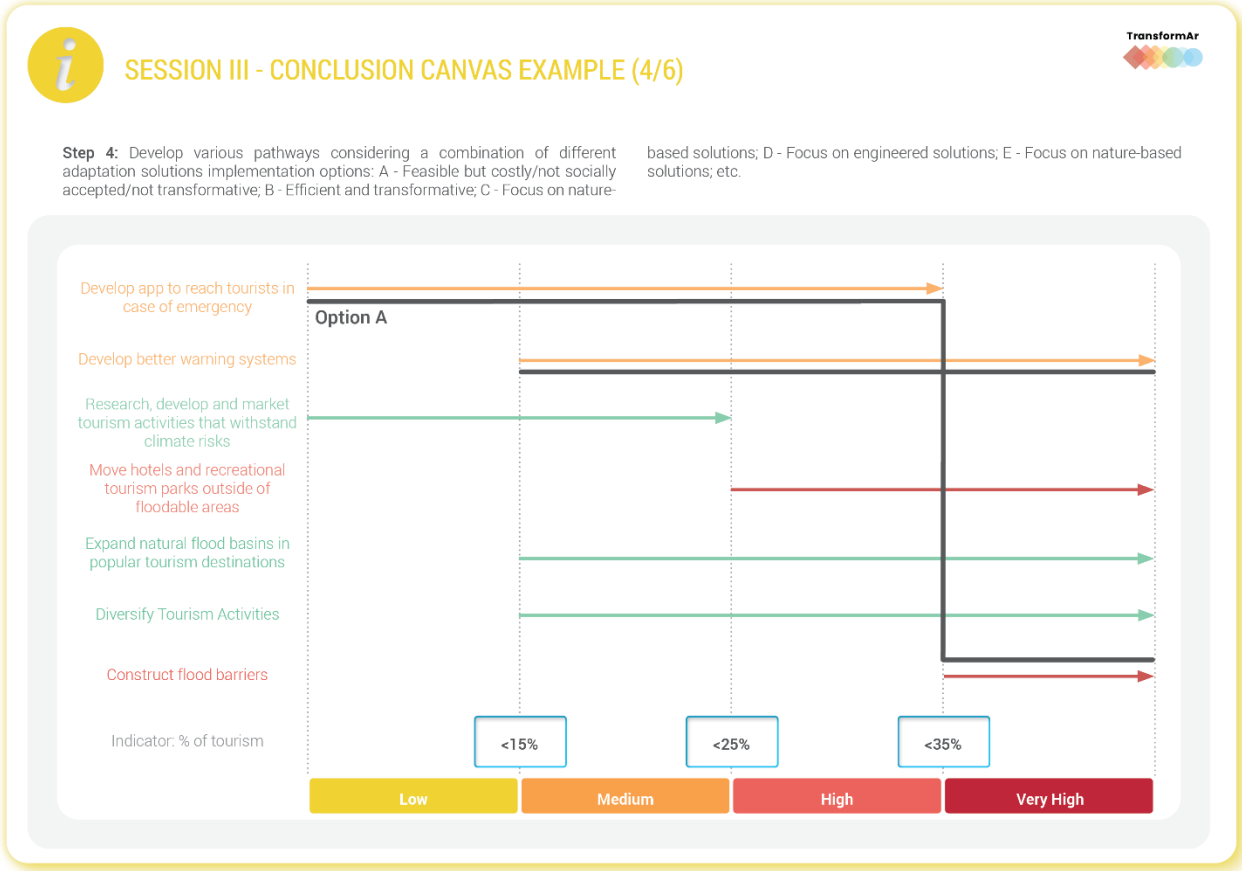
The end-result



Adaptation pathways

The process:

1. List the adaptation risks and thresholds

2. Viability of solutions
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3. Color of solutions
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4. Develop pathways

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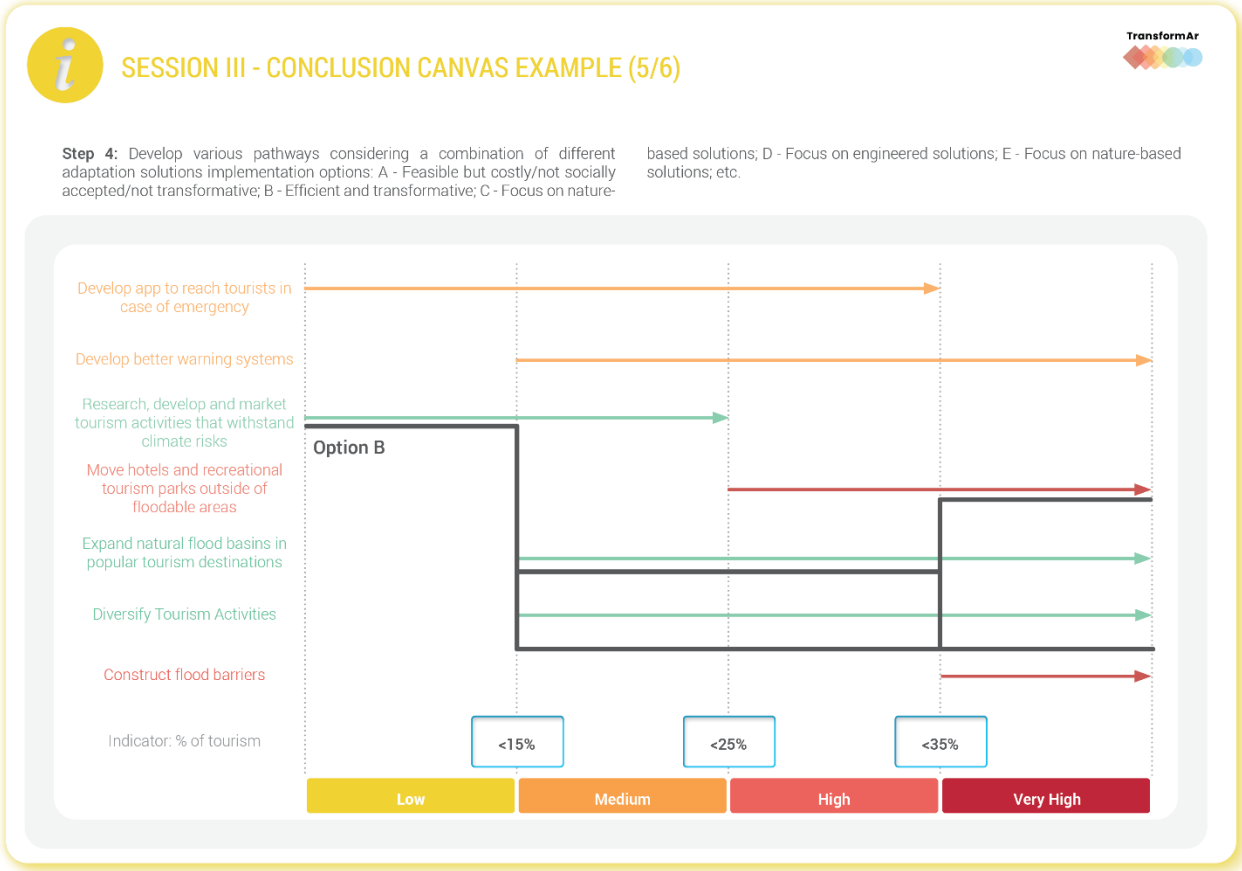
The end-result



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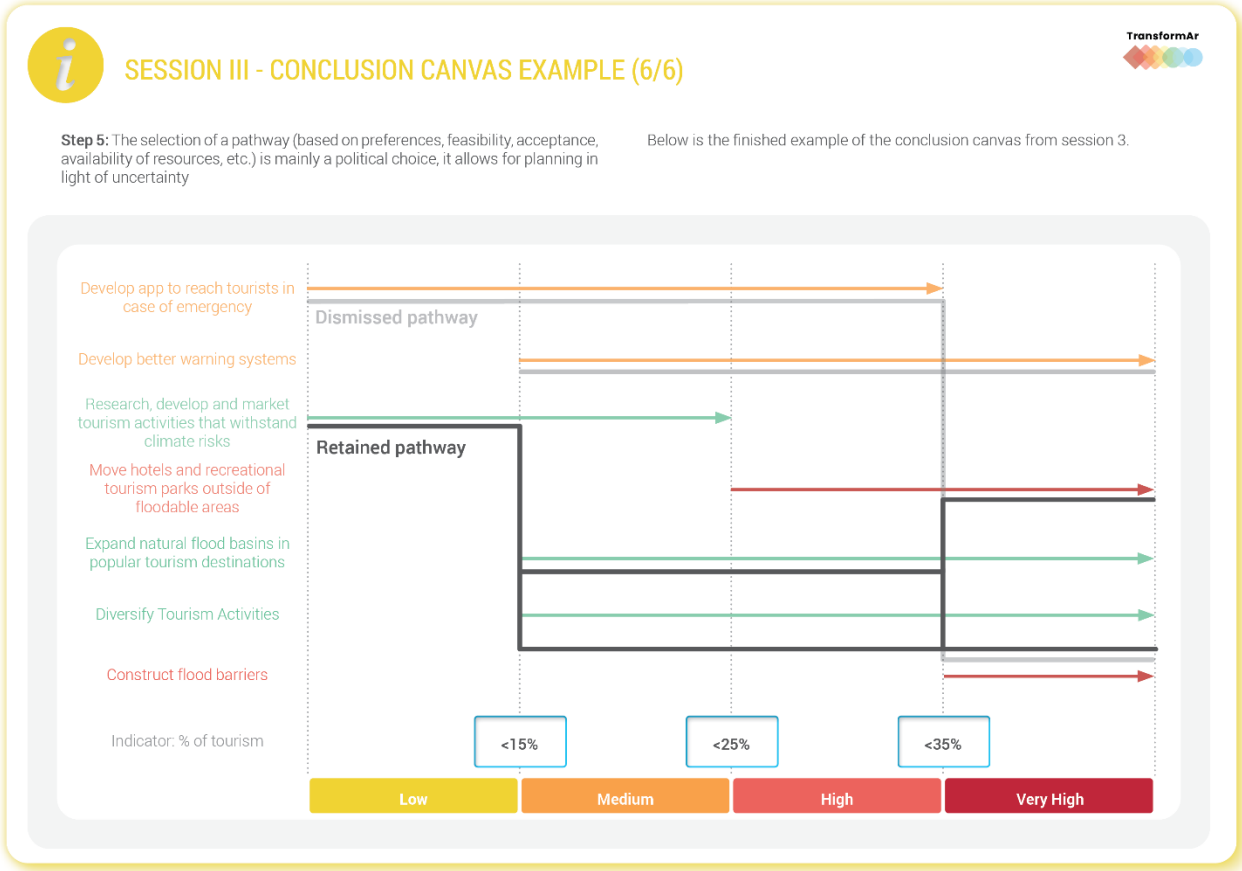

Adaptation pathways

The process:

1. List the adaptation risks and thresholds

2. Viability of solutions
→ determine start and expiry date of the actions

3. Color of solutions
→ Color code considering feasibility, social acceptability, etc.

4. Develop pathways

5. Select adaptation pathway

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Who can use the playbook?

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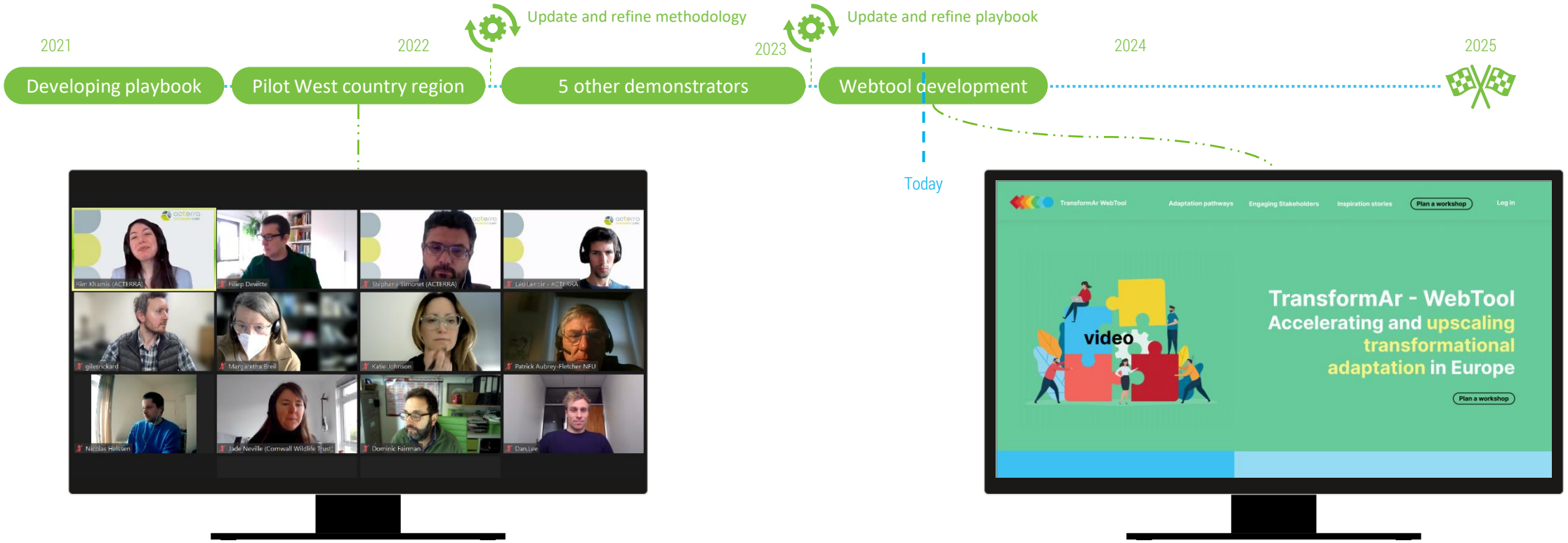
What's next for the playbook?



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Thank you for your attention!

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