

TRANSCEND

Pathways to impact



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Pathways to impact

Pathways to impact include:

- Project immediate results in 4 years' time (measured through Key Performance Indicators—KPIs)
- Outcomes in the medium term (5-6 years) and
- Impacts in the longer term (7-10 years).

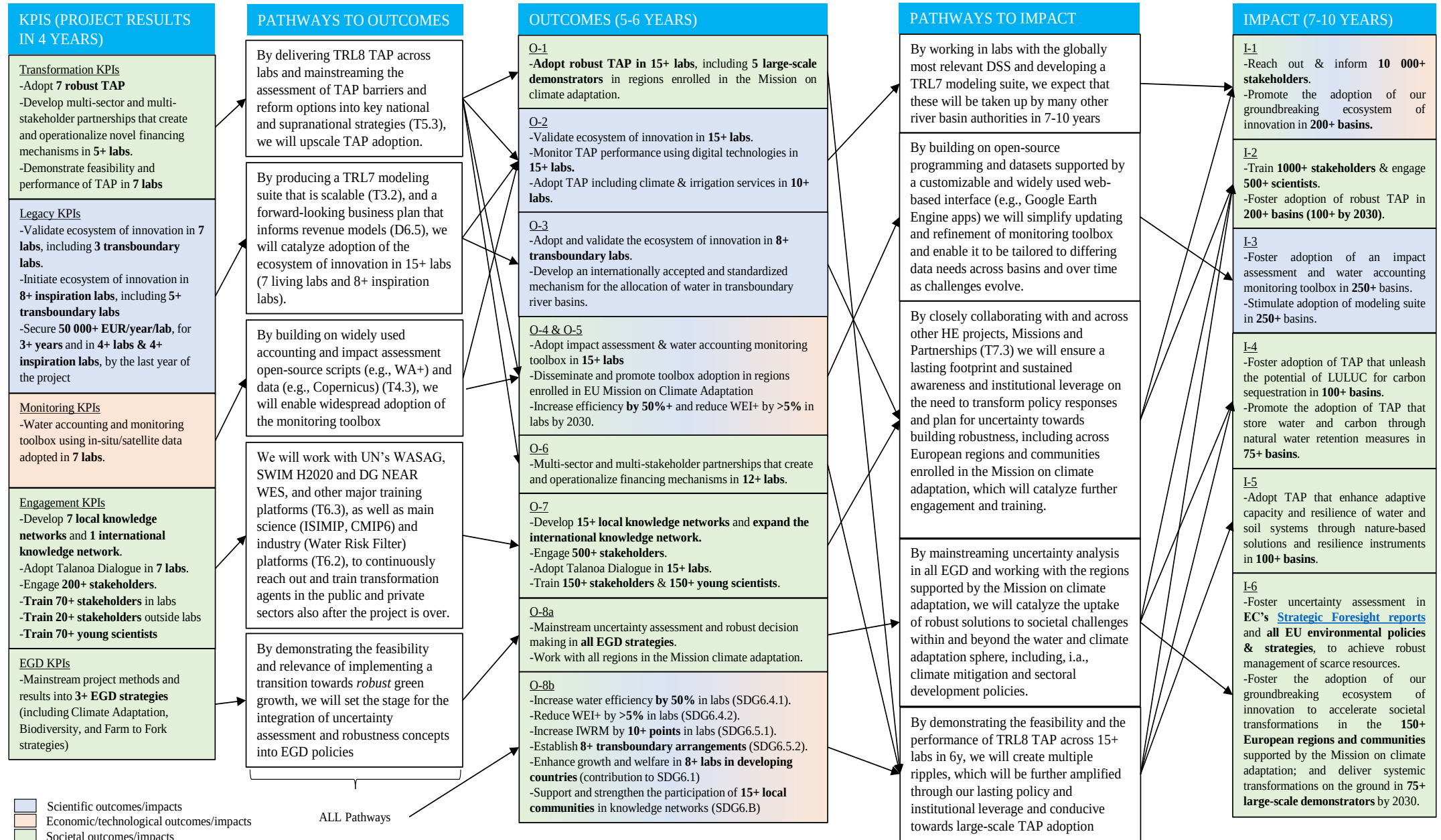
Impact can be scientific (blue), economic/technological (orange) and societal (green) outcomes/impacts (and combinations thereof).

Outcomes (5-6 y)

Outcome (O)	Our contribution, including targets and <i>[interest groups]</i>
<i>O-1. Achieve transparent water sharing and adjust water allocation across environmental and human uses towards long-term water replenishment capacity and availability.</i>	-Identify and adopt robust TAP in 15+ labs (7 labs and 8+ inspiration labs), including 5 large-scale demonstrators in regions enrolled in the Mission on climate adaptation, to deliver equitable and sustainable economic & welfare growth under deep uncertainty. <i>[Interest groups: Regulators]</i>
<i>O-2. Adopt inclusive, forward-looking and climate risk-informed water allocation planning and management processes, foster adoption of digital technologies in water management.</i>	-Test and validate in 15+ labs a groundbreaking ecosystem of innovation to assess and address risk and uncertainty in water allocation and management processes. -Monitor TAP performance using digital technologies in 15+ labs . -Adopt TAP including climate & irrigation services in 10+ labs <i>[Regulators; utilities, industry & users; civil society organizations]</i>
<i>O-3. Guide decision makers in transboundary rivers to share transboundary waters equitably, reaping the benefits of appropriate water allocation regimes.</i>	-Adopt and validate the ecosystem of innovation in 8+ transboundary labs . -Develop an internationally accepted and standardized mechanism for allocation of water in transboundary river basins. <i>[Regulators]</i>
<i>O-4. Identify water efficiency deficiencies and achieve improvement by at least 50% by 2030, in regions under water stress, now or in the future, and for water bodies at risk of failing to meet good ecological/quantitative status. & O-5. Reduce the water footprint of water-using sectors, especially agriculture, energy and industry.</i>	-Adopt an impact assessment and water accounting monitoring toolbox in 15+ labs to objectively monitor water efficiency. -Disseminate and promote toolbox adoption in regions enrolled in EU Mission on Climate Adaptation (focus on large-scale demonstrators). -Increase efficiency (value added to withdrawals ratio, as per SDG 6.4.1) by 50%+ and reduce WEI+ by >5% by 2030 in 15+ labs . <i>[Regulators; utilities, industry & users]</i>
<i>O-6. Promote financing mechanisms to smoothen the transition to more appropriate water pricing policies in water supply and sanitation and in the different economic sectors, such as agriculture, energy and industry [...].</i>	-Develop multi-sector and multi-stakeholder partnerships that create and operationalize novel financing mechanisms to support TAP adoption in 12+ labs . <i>[Regulators; utilities, industry & users]</i>
<i>O-7. Help structure appropriate policy dialogue to support allocation reform and increase stakeholders engagement.</i>	-Develop 15+ local knowledge networks (one per lab) and consolidate and expand the international knowledge network . -Engage 500+ stakeholders . -Adopt empathic and participatory Talanoa dialogues in 15+ labs . -Train 150+ stakeholders & 150+ young scientists on project methods. <i>[Regulators; utilities, industry & users; civil society organizations; wider public]</i>
<i>O-8a. Support the implementation of the European Green Deal (EGD)...</i>	-Mainstream uncertainty assessment and robust decision making in all EGD strategies . -Work with <i>all</i> regions and communities in the Mission on climate adaptation, with a focus on large-scale demonstrators. <i>[Regulators; utilities, industry & users; civil society organizations; wider public]</i>
<i>O-8b. ...and the SDGs, notably the SDG 6 “Ensure availability and sustainable management of water and sanitation for all”.</i>	-Increase water efficiency by 50% in 15+ labs (SDG6.4.1). -Reduce WEI+ by >5% in labs (SDG6.4.2). -Increase IWRM by 10+ points in labs (SDG6.5.1). -Establish 8+ transboundary arrangements (SDG6.5.2). -Enhance growth and welfare in 8+ labs in developing countries (contribution to SDG6.1) -Support and strengthen participation of 15+ local communities in knowledge networks (SDG6.B) <i>[Regulators; utilities, industry & users; civil society organizations; wider public]</i>

Impacts (7-10 y)

Impact (I)	Our contribution, including targets and [interest groups]
I-1. Better understanding and enhancing the mitigation potential of ecosystems and sectors based on the sustainable management of natural resources	-Reach out 10 000+ stakeholders to deliver better understanding of climate-induced changes to ecological and socioeconomic systems, and the mitigation potential of TAP across ecosystems and sectors, under deep uncertainty. -Promote the adoption of our groundbreaking ecosystem of innovation in 200+ basins globally. <i>[Regulators; utilities, industry & users; civil society organizations]</i>
I-2. Advanced understanding and science to support adaptation and resilience of natural and managed ecosystems, water and soil systems and economic sectors in the context of the changing climate.	-Training of 1000+ stakeholders to achieve advanced understanding of policy design and implementation under deep uncertainty. -Engagement of 500+ scientists with relevant expertise to support and update the ecosystem of innovation. -Foster adoption of robust TAP in 200+ basins (100+ by 2030), including resilience instruments that enable rapid and sound recovery of natural and human systems following shocks, working in collaboration with the EU Mission for Climate Adaptation. <i>[Regulators; utilities, industry & users; civil society organizations; academics]</i>
I-3. Efficient monitoring, assessment and projections related to climate change impacts, mitigation and adaptation potential in order to bring out solutions for tackling emerging threats and support decision-making in climate change mitigation and adaptation policies at European and global level.	-Promote the adoption of the impact assessment and water accounting monitoring toolbox in 250+ basins, using in-situ and remote sensing data. -Stimulate the adoption of the modeling suite in 250+ basins to produce ensemble projections of climate-induced changes; identify emerging threats and potential tipping points; and inform TAP design and implementation that contribute to water and other key policies (including climate change adaptation and mitigation). <i>[Regulators; utilities, industry & users; civil society organizations; academics]</i>
I-4. Fostered climate change mitigation in the primary sector, including by the reduction of GHG emissions, maintenance of natural carbon sinks and enhancement of sequestration and storage of carbon in ecosystems	-Foster the adoption of TAP that unleash potential of LULUC for carbon sequestration, including via economic instruments (e.g., PES), in 100+ basins. -Promote the adoption of TAP that store water and carbon through natural water retention measures such as forested infiltration areas and wetlands in 75+ basins. <i>[Regulators; utilities, industry & users; civil society organizations]</i>
I-5. Improved adaptive capacity of water and soil systems and sectors including by unlocking the potential of nature-based solutions	-Enhance adaptive capacity and resilience of water and soil systems and sectors through TAP that include nature-based solutions (e.g., forested infiltration areas that store water during periods of excess and reduce erosion) and resilience instruments (e.g., agricultural drought insurance that reduces aquifer overdraft during droughts and enables rapid and sound recovery afterwards) in 100+ basins. <i>[Regulators; utilities, industry & users; civil society organizations]</i>
I-6. Better managed scarce resources, in particular soils and water, thus mitigating climate related risks, in particular desertification and erosion, thanks to informed decision-makers and stakeholders and integration of adaptation measures in relevant EU policies.	-Foster uncertainty assessment and robust decision making in EC's Strategic Foresight reports and all EU environmental policies & strategies, to achieve better management of scarce resources. -Foster adoption of our groundbreaking ecosystem of innovation to accelerate societal transformations in all 150+ European regions and communities supported by the Mission on climate adaptation; and to deliver systemic transformations on the ground in all 75+ large-scale demonstrators, by 2030. <i>[Regulators]</i>



How do we get there? Requirements

- Large-scale coordination across EC projects, Missions and Partnerships
- Overcome technical, institutional and policy barriers by building on inputs from our models and in-reach from knowledge networks
- Engage with Mission on climate adaptation – which aims to support societal transformation in 150+ European regions and communities and deliver 75+ large-scale demonstrations of systemic transformations to climate change

How do we get there? Tools (PDEC)

-Plan for the Dissemination and Exploitation including Communication activities (PDEC), including:

- Exploitation and dissemination strategy and measures
- Communication strategy and channels

Exploitation and dissemination

- Business plan (D6.5). Credible path to deliver the ecosystem of innovation (the service) to the market.
- Scientific publishing (**gold open access**), project brochure, leaflets, policy briefs, newsletter
- Training activities, including 1) stakeholder training back-to-back workshops in labs and in webstivals; and academic training (PhDs, MScs, **summer schools**)

Exploitation and dissemination

-Legacy: 1) transformation agents (70+ stakeholders in labs, as well as 20+ stakeholders from outside labs; and 70+ PhD students.), 2) secure 50 000 EUR/year over a period of 3+ years in 4+ living labs & 4+ inspiration labs to finance the maintenance and update of the ecosystem of innovation, 3) initiate 8+ inspiration labs (notably in regions supported by EU Mission on climate adaptation).

-Policy leverage and Upscaling to maximize the out- and in-reach of the project (river basins, IPCC, EGD expert groups and networks, HE Missions, UNDRR Sendai Fwk, etc.).

Communication strategy and channels

-Online communication and the Virtual Forum. In person communication adopted for workshops (Talanoa), training, outreach. Online communication will be the default for internal meetings (except Gen Ass), webstivals, webinars and foresight and technical and foresight meetings with limited content and participants.

Communication strategy and channels

-Workshops

No	Workshop title	Objectives & participants	M
1	1 st local workshop	Scene setting, momentum building; research gaps, challenges and uncertainties; exploratory co-design and co-development. Participants: local stakeholders	8
2	2 nd local workshop	Scenathon; co-evaluation; revision of TAP, scenarios and modeling suite (iterative stock-taking process). Participants: local stakeholders	19
3	1 st Int'l workshop	Scenathon; cross-fertilization; collective identification of gaps and challenges, and TAP with high potential. Participants: int'l network board, other key stakeholders.	25
4	3 rd local workshop	Scenathon; exploratory co-identification; revision of TAP and scenarios, new iteration(s). Participants: local stakeholders	30
5	4 th local workshop	Presentation of detailed modeling results in scenathon, co-identification; plan for co-implementation of selected TAP in labs. Participants: local stakeholders	36
6	2 nd Int'l workshop	Collective assessment of outputs and co-implementation plans; barriers & reform options for upscaling and legacy; define inspiration labs. Participants: int'l network board, other key stakeholders	42

Communication strategy and channels

-Outreach

Activity/Event	Target Audience	Objectives
European Innovation Partnership (EIP) Water Conference	Regulators, utilities, water users, industry, civil society, general public	-Spread and publicize outcomes -Learn about front-line innovation -Forge coalitions and partnerships
EIT Climate KIC Innovation festivals	Regulators, utilities, industry, academic community, civil society organizations	-Disseminate TAP, ecosystem of innovation, labs results
IWRA World Water Congress		-Establish collaboration
EU Climate Change Adaptation Conference		-Identify and define inspiration labs
UN's WASAG Network meetings		-Present TAP & project outcomes
IAHS Conferences	Broader society, citizen panels	-Engage citizen panels across labs
Researchers' night		

Target groups

Regulators, academia, utilities/industry/users' associations, civil society, general public

Regulators: river basin authority, environmental agency, or equivalent body managing water resources	Regulators: EU and regional to national governments
• 28 Local workshops, 2 international workshops • Virtual Forum (website, mobile app) • 70+ Technical and foresight meetings • 34 Training events (in workshops & webstivals) • 28 Newsletter, 7 brochure and leaflets (multilingual) • Twitter, Facebook and other social media • 3 Video presentations (scribble) • 12+ Webinars • 30 Policy briefs ahead of workshops • All project deliverables • 40+ Scientific papers • 45+ Outreach events, 4 webstivals • 3 Open data sets • Portals – FAO Aquastat, WaPOR, EEA, Climate Adapt • Online catalogue of TRANSCEND-enabled services	• 28 Local workshops, 2 international workshops • Virtual Forum (website, mobile app) • 70+ Technical and foresight meetings • 34 Training events (in workshops & webstivals) • 28 Newsletter, 7 brochure and leaflets (multilingual) • Twitter, Facebook and other social media • 3 Video presentations (scribble) • 12+ Press releases in (local) newspapers • 3 Open data sets • 30 Policy briefs ahead of workshops • All project deliverables • 45+ Outreach events, 4 webstivals • Online catalogue of TRANSCEND-enabled services
Academia and research organizations	Utilities, industry and users’ associations
• 28 Local workshops, 2 international workshops • Virtual Forum (website, mobile app) • 2 summer/winter schools • 28 Newsletter • All Deliverables • 30 Policy briefs ahead of workshops • 12+ Webinars • 40+ Scientific papers • 45+ Outreach events, 4 webstivals • 3 Open data sets • Portals – FAO Aquastat, WaPOR, EEA, Climate Adapt • 15+ Staff exchanges	• 28 Local workshops, 2 international workshops • Virtual Forum (website, mobile app) • 34 Training events (in workshops & webstivals) • 28 Newsletter • 3+ Targeted brochures, e.g. COPA-COGECA • Twitter, Facebook and other social media • 3 Video presentations (scribble) • 30 Policy briefs ahead of workshops • 45+ Outreach events, 4 webstivals • 3 Open data sets • Portals – Water Risk Filter, EEA, Climate Adapt • Online catalogue of TRANSCEND services
Civil society organizations	General public
• 28 Local workshops, 2 international workshops • Virtual Forum (website, mobile app) • 3 Video presentations (scribble) • 28 Newsletter • Twitter, Facebook and other social media • 30 Policy briefs ahead of workshops • 45+ outreach events, 4 webstivals • Science-society events (e.g. Researchers’ Night) • Portals – Water Risk Filter, EEA, Climate Adapt	• 14 Local citizen panel meetings, 1 int’l meeting • Virtual Forum (website, mobile app) • 28 Newsletter, blog, brochure • 3 Video presentations (scribble) • Twitter, Facebook and other social media • 14+ Press releases in (local) newspapers • Portals – Water Risk Filter, EEA, Climate Adapt • 14+ Citizen science events (researchers’ night) • 4 webstivals



Thank you for your attention

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