



TransformAr



# Looking back on the past year

## 1. One year of progress

The first year of TransformAr kicked off rapidly. The progress we achieved so far is rather unusual for a first year of a complex project of this size, especially if we also consider that the partnership is new. Our aim to accelerate adaptation efforts, in combination with the ambition of the EU Adaptation Mission and the urgency of the climate challenge, also reflected on our own progress. Of course, we were also urged to finish some deliverables early. Moreover, the rapid start-up of our sibling projects REGILIENCE, ARSINOE and Impetus, made us keep pace. TransformAr, with the A of adaptation, led from Antwerp (another 'A'), is on its way to accelerate (the third 'A') transformational change at the regional scale, towards climate resilience and sustainable development. More specifically, the following progress is highlighted:

## THIS ISSUE

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### LOOKING BACK AND LOOKING AHEAD

Project coordinator Dr. Jan Cools looks back on the first year of TransformAr.

### CONSORTIUM MEETINGS

TransformAr met for its second consortium meeting in Sardinia hosted by the MEDSEA foundation, and we are looking forward to our third in Guadeloupe.

### WELCOMING NEW COLLEAGUES

Introductions are in order for our new colleagues at ACTERRA, Verhaert, FEUGA and the University of Antwerp.

### REPRESENTING TRANSFORMAR

The TransformAr team has had the chance to present its work at several international conferences. Collaboration with our sibling projects is also running smoothly.

### PROGRESS

A summary of actions on work done in each Work Package.

- **Playbook for transformational adaptation:** step-by-step guidance to co-develop the way forward for a region to become climate resilient, tested in our TransformAr demonstrators;
- **Cooperate with other Green Deal projects:** Together with [REGILIENCE](#), [Impetus](#) and [ARSINOE](#), we are considered as flagships for the EU Adaptation Mission, All four focus on transformation climate adaptation; Further part of the wider Green Deal project cluster (17 projects), where we start cooperation with REACHOUT (climate services portal);
- **Communicate & disseminate:** [Our website](#), [Twitter](#) and [LinkedIn](#) draws attention. [Templates are available](#) for your own communication. A joint newsletter will soon be coming out;
- **ClickUp for project management:** For more transparency, and an easier overview of project progress, we have set up a project management system on ClickUp. In meetings, we should discuss open issues/challenges, rather than mere info provision on how all is going;

Each bullet point is further elaborated below:

### 1.1. Playbook for transformational adaptation

Envisioning what is needed for a region to become climate resilient is not straightforward. A number of methodologies are available, since 10 years, including the [Adaptation Support Tool](#), the [Dynamic Adaptive Policy Pathways](#) and IPCC's [shared socioeconomic pathways](#). The main challenge of all these approaches has been the limited use for decision-making and planning at local and regional scale. A recent, and still unpublished, needs assessment on climate adaptation at regional scale (by the REGILIENCE project) revealed that most regions didn't have the capacity to develop climate adaptation pathways. For our demonstrators, a more practical approach is therefore needed: an approach that is demonstrated itself, and for which practical examples are available.

Starting from existing risk assessments and climate projections, TransformAr's Playbook (D3.10) provides a practical and visually appealing step-by-step methodology to develop adaptation pathways at the scale that is needed for our demonstrators. ACTERRA and Verhaert jointly developed the playbook, and applied it to the UK demonstrator as a first test case. The existing risk assessments and climate projections at demonstrator scale are provided by CMCC, PIK and E3M. The Playbook is being implemented in all demonstrators. In October and November 2022, the Playbook was applied in Sardinia, Lappeenranta and Egaleo. Soon scheduled are Guadeloupe and Galicia. A discussion on the outcomes and lessons learnt is scheduled during the Guadeloupe consortium meeting.

The Playbook has already been taken up as a good practice by the European Commission and European Environment Agency, and will soon be published on [Climate-ADAPT](#). Also, REGILIENCE agreed to replicate the Playbook in 10 vulnerable regions in Europe. The latter 10 regions will be selected in January 2023. The Playbook is complemented with a number of deliverables:

- 1) Stakeholders' engagement guidelines (D.1.1.): how to engage with stakeholders, more broadly; the Playbook provides more specific step-by-step guidance;
- 2) Stakeholder matrix and Demonstrator Baseline Profiles (D.1.2.): overview of the challenges on climate adaptation in each demonstrator, and overview of the relevant actors;
- 3) Governance framework (D3.1): overview of the EU adaptation policy and some good practices on adaptation governance;
- 4) Catalogue of solutions (D3.2): providing inspiration for demonstrators, covering solutions for a range of sectors, including water, health, tourism, etc.;

### 1.2. Cooperation with other Green Deal projects:

Together with REGILIENCE, Impetus and ARSINOE, we are considered as flagships for the EU Adaptation Mission; The cooperation so far goes further than joint communication, joint sessions at conferences and knowledge exchange. We also cooperate on a number of topics, including indicators for resilience, but also on adaptation governance. We will e.g. incorporate the REGILIENCE maladaptation tool into the playbook.

### 1.3. Communicate & disseminate

Regular updates on social media accounts (LinkedIn and Twitter) and the website are ongoing and should be shared and reposted by all partners of the consortium. Partners are encouraged to regularly fill in the [Communication and Dissemination tracker](#).

### 1.4. ClickUp for project management

ClickUp is an online tool used to simplify collaborative project management. This tool can be used to: Provide a global and simplified overview of the progress of the project at a glance; Send reminders about upcoming tasks and deliverables to specific partners; Assign activities and tasks to specific partners; Upload essential documents that should be accessible in a simple manner. The tool will be presented during CM3, and all project partners will receive invitations to join the platform in mid-December. You can find a [guide on how to use it here](#).

### Submitted deliverables

Del. N°	Deliverable name	WP n°	Responsible participant	Type	Dissem. Level	Delivery date
D1.2	Stakeholder matrix and IEs Baseline Profiles	1	ACTERRA	R	PU	M04
D8.2	Management Plan and Tools	8	EQY	R	PU	M04
D8.3	Data Management Plan	8	EPSILON	R	PU	M06
D8.5	Guidance for quality	8	EQY	R	PU	M06
D1.1	Stakeholders' Engagement Guidelines	1	FEUGA	R	PU	M06
D8.1	Quality Plan	8	UA	R	PU	M06
D7.2	Communication and dissemination plan	7	WE	R	PU	M06
D7.3	Project website and visual identity	7	WE	DEC	PU	M06
D3.2	Catalogue tool to identify best available solutions	3	ACTERRA	R	PU	M08
D3.1	Governance framework tool and report	3	UA	R	PU	M08
D3.10	Dedicated toolkit and web service for Adaptive pathway transformation Playbook	3	VERHAERT	OTHER	PU	M08
D2.1	Consolidated data framework	2	CMCC	OTHER	PU	M12
D6.6	Preliminary Exploitation Plan	6	FEUGA	R	PU	M12

# Looking ahead

## 2. Way forward – up to the first reporting period (M18, March 2023)

### First interim official reporting

March 2023 is an important deadline for TransformAr. We need to provide a first official reporting of progress (content and finances). Soon after, we will be evaluated externally, and thus need to have relevant deliverables ready. The evaluation will be finished by July 2023. It is important to stick to this deadline. We receive the first interim payment (18%) from the European Commission, only when the reports of all partners have been submitted and approved. Any delay in the submission and validation from one partner is likely to result in a delay of payments to all partners. The control reporting, organised by Euroquality, was a 'general repetition' to smoothen the actual reporting process. The delays that some partners experience(d) to get the control report out is something we likely can avoid. You can expect feedback on the control reports soon after the Guadeloupe meeting.

Content-wise, many preparations are currently underway:

#### 1) Setting up of the stakeholder advisory board and the community of practice

The current workshops are organised at the level of the demonstrator, with relevant local actors. From early 2023, a so-called 'stakeholder advisory board' is set up, under the lead of FEUGA and ACTERRA. That advisory board is composed of actors from the various demonstrators, and brings actors with similar challenges together, and thus aims to exchange knowledge and practices at the demonstrator scale. The 'stakeholder advisory board' is not to be confused with the

project advisory board, which is mainly advising on overall project progress and the uptake at the EU scale. A third term that is being used in the Grant Agreement is the 'Community of Practice' (CoP). The CoP was originally meant to be a multi-actor platform for experts at the EU level. The concept of the CoP however may be revised as a consequence of upcoming EU efforts that are similar in nature. In order to avoid duplication, we will first await the plans of a number of new EU projects, the new adaptation mission secretariat, plans at CLIMATE-ADAPT etc... before making progress on the CoP.

## 2) Integrated risk and impact assessment

The insights from the pathway workshops in the demonstrators need to be advanced to an integrated risk and impact assessment. The latter has various components, which are spread out over various work packages:

- Numerical modelling of the impacts of climate change on the demonstrators, by means of hydrological modelling (lead: PIK), agricultural modelling (lead: CMCC), macro-economic modelling (lead: E3M) and loss and damage modelling (lead: NCSR);
- Understanding the effectiveness of solutions on respectively the biophysical and socio-economic impact of climate change on demonstrator's resilience; Avoided damages, as part of a cost-benefit analysis, is one important aspect of the solution's effectiveness;
- Monitoring of the solution's impact, where possible/relevant quantitatively e.g. by means of sensors or chemical analysis field monitoring (lead CZU), or qualitatively.

## 3) Understanding acceptance of solutions for transformational adaptation

An important component to accelerate and upscale adaptation is behaviour related. Two activities are ongoing;

- Understanding of the beliefs towards transformational adaptation, as part of WP1 (Lead: FEUGA)
- Understanding the acceptance of solutions by means of a discrete choice experiment, as part of WP6 (Lead: CMCC)
- Nudging experiments, implemented as a solution by Verhaert

## 4) Planning of the solutions' implementation in the demonstrators

The Grant Agreement includes 21 solutions that are to be implemented in the demonstrators. An updated planning is recently developed, as part of WP4 (which officially kicked off in September 2022).



## 5) Learning stories & publications

By the end of the project, lessons learnt can be captured in learning stories, and innovations in academic publications. We don't have to wait for the end of the project to develop learning stories. A 'learning story' is like a popular science or journalist story, intended to showcase experiences to other experts and/or decision-makers. A learning story can take any form: written, video, podcast, ....





## TransformAr in Sardinia

By the [MEDSEA foundation](#)

In June 2022 we visited one of TransformAr's 6 demonstrators for our second consortium meeting. Hosted and guided by MEDSEA, the Mediterranean Sea and Coast foundation, we visited the Marceddi and San Giovanni basins, in the most southern part of the gulf of Oristano in Sardinia. Consortium members got the chance to meet, discuss and present the project's progress in its first year and get to know our Sardinian demonstrator.

The Gulf of Oristano in Sardinia is characterised by a complex system of rivers and wetlands which represents a Mediterranean hotspot of biodiversity in terms of species and habitat. Among these, the Marceddi lagoon (SIC San Giovanni, Corru S'Ittiri and Marceddi pond), a deep marine gulf, within an area of international importance RAMSAR, inserted between the agricultural plain Arborea - Terralba and the promontory of Capo Frasca. An area subject to frequent extreme events linked to climate change, including severe drought and heavy rains.

The neo-Mayor of Oristano, Massimiliano Sanna, welcomed us when we arrived at the demonstration site of San Giovanni, who highlighted that:

*"Given the exposure of the entire Gulf to the extreme events connected to climate change, Oristano is determined to do everything necessary for its adaptation, also with the support of the solutions provided by the TransformAr project."*

Talks were also held by Luca Cocco, Director General of the Environmental Defense Department, and experts and representatives of the MEDSEA Foundation, including MEDSEA president Dr. Alessio Satta, and from CMCC, including Dr. Antonio Trabucco.

Over the last decade, the hydraulic system created in the last century capable of protecting urban agricultural areas has proved inadequate due to extreme climatic events with increasing damage to biodiversity and to fishing. Through the use of intelligent control solutions, such as the "SMART opening" system, located at the mouth between Flùmini Mannu and the San Giovanni Pond, it will be possible to control the flooding level of outgoing rivers or contain fishes. The positioning of hydrometers and sensors inside the lagoon will allow to have under control the level of the various parameters (temperature, pH, redox potential, percentage of dissolved oxygen, saturation...). A weather station will allow the implementation of a civil protection weather warning system; last but not least, ecological lagoon nautical vehicles (powered by electricity) will be provided for monitoring and observing the lagoon seabed and environmental parameters with the participation of local fishermen.



## TransformAr is on its way to Guadeloupe



From the 1<sup>st</sup> to the 6<sup>th</sup> of December 2022, we will gather for our third consortium meeting to visit and get to know our Guadeloupean demonstrator. We will be hosted by ADEME Guadeloupe, who have put together an impactful agenda filled with insightful speakers and field visits. You can find the [programme, a guide for your stay and the list of attendees](#) on the TransformAr Sharepoint. A dedicated space has been created for the presenters to [upload their presentations by November 25<sup>th</sup>](#). If you have not already done so, we encourage you to also [watch ADEME Guadeloupe's video on TransformAr's role in Guadeloupe](#) (prepared for the 3<sup>rd</sup> EU Macro-Regions Week discussed in more detail below).

# Welcome to our new TransformAr colleagues!

## Mampionona Rakotonirina Risk, Climate and Resilience Consultant at ACTERRA



Mampionona is a meteorological engineer, graduated from the Ecole Supérieure Polytechnique d'Antananarivo (ESPA) in Madagascar and holds a Master's degree in "Sustainable Development, Biodiversity and Territorial Planning" from Université Paris Saclay, France. She is currently finalising a PhD thesis in Architecture at the University of Grenoble Alpes, France in the field of Disaster Risk Reduction (DRR) with a focus on Haiti after the 2010 earthquake.

Before joining ACTERRA, Mampionona worked for the German agency for international cooperation (GIZ) in Madagascar in two main programmes: one related to sustainable natural resource management and one in adaptation of agricultural value chains to climate change. During her career, she also contributed to the elaboration of the French environmental agency's (ADEME) strategy to support French economic actors in adapting to climate change. Her areas of specialisation are risk analysis and adaptation strategies to climate change at the territorial and sectoral levels, in particular for companies, the

development of climate services, disaster risk reduction and issues related to international solidarity in the field of climate change.

She is joining TransformAr project as a partner of WP3 with a current focus on supporting the Guadeloupe demonstrator's workshops on the co-development of adaptation pathways.

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## Dr. Lucille Alonso Climate Services and Innovation Project Manager at ACTERRA



Lucille Alonso will be Climate Services and Innovation Project Manager at ACTERRA as of December 2022. She holds a PhD in Geography - Land Use Planning and Urban Climatology from the University Jean Moulin Lyon 3 and the EVS 5600 CNRS laboratory.

She is involved in increasing ACTERRA's expertise in the field of climate risk data science and resilience to climate change applied to a variety of sectors. She brings her experience as a project manager in the impact of climate change on infrastructures and in the creation of digital twins. Lucille has also worked in research laboratories on projects related to the involvement of citizens in science and more specifically in the understanding and spatialisation of the Lyon area to urban overheating and air pollution.

Through her experiences, Lucille has participated in numerous international conferences and has won quality awards for her international research work. She has also co-edited special issues in international journals on climatology or related to sustainable development of territories. She thus brings her skills in climatology, territorial vulnerabilities, GIS and 3D GIS, remote sensing and modeling.

She is joining TransformAr project as an expert to the WPs where ACTERRA is involved, with a primary focus on supporting WP3 tasks and the Guadeloupe demonstrator on the co-development of adaptation pathways.

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## Dr. Mahmoud Rabie, MBA Open Innovation Consultant at Verhaert Masters in Innovation



Mahmoud leads a team of innovation and design consultants at Verhaert to carry out Verhaert's participation in the TransformAr project. He is team-member in the OpenLab Team, the open innovation hub of the strategic innovation department at Verhaert.

He is an expert in Innovation Management and Entrepreneurship and a researcher in the field of Materials Science and Engineering. Besides receiving intensive training at the Massachusetts Institute of Technology, Innovation Leadership Bootcamp, he holds an Executive MBA from Solvay Brussels School (Belgium), a Ph.D. degree in Advanced Chemistry from Max-Planck Institute CPfS (Germany) & Complutense University of Madrid (Spain); a Master's degree in Materials Science from LMU, TU-Munich (Germany), & University of Rennes 1 (France); and a Bachelor's degree in Metallurgical Engineering from Cairo University (Egypt), with a Bachelor's thesis carried out at TU-Berlin.

Mahmoud's fields of interest are social innovation, circular economy, and materials technologies. He is also passionate about coaching, training, and mentoring young generations to participate in filling the industry-talent gap.

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## Axelle Vincent Doctoral Researcher in Urban Planning at the University of Antwerp



Axelle Vincent is a Doctoral Researcher at the Faculty of Design Sciences of the University of Antwerp. With a background in Urban Planning and Environmental Sciences, she will help tackle the challenges in TransformAr working on WP3 and WP4. She will dive deeper into the governance schemes that are needed to accelerate the implementation of climate adaptive infrastructure.

In doing so, she will be in contact with the demonstrators and translate their experience into a learning story which can inspire end-users when replicating governance structures that contribute to the acceleration and upscaling of climate adaptation. She is looking forward to meeting the TransformAr partners and enthusiastic to contribute to the knowledge on (water related) climate adaptation.

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## Teresa Sixto Anello – TransformAr Innovation and Exploitation Manager

### Innovation and Technology Transfer Manager at FEUGA



Teresa has a Bachelor's degree in Biology and Master's degree in Environmental Engineering, and is specialised in soil enzymatic activity analysis envisioned on the evaluation of soil alteration due to the presence of exogenous compounds. She is currently working as Innovation and Technology Transfer Manager in FEUGA (Galicia, Spain) focused on activities to promote the implementation of scientific knowledge in society in diverse topics and from a multiapproach point of view and with a heavily climatic component, at European and Regional level.

#### **Teresa and FEUGA's role as Exploitation Manager and lead of the Innovation Management Board (IMB) in TransformAr:**

In TransformAr, the **Innovation Management Board (IMB)** is in charge of **advising on the management of results and intellectual property and of other innovation related activities arising from the project's implementation**. The IMB will closely collaborate with technology transfer specialists and legal advisors from the partner organisations concerned by results exploitation. The IMB will advise the

Steering Committee on how to present the project results and tangible outcomes to industrial stakeholders. Upon request from the Steering Committee the IMB will:

- Assist in **identifying results** that could be the matter of protection, use or dissemination, based on publications, deliverables and activity reports.
- Assist **partners in identifying the most appropriate measures for protecting and disseminating results**.
- Make a **proposal** to the Steering Committee and to the concerned partners on the **allocation of co-ownership shares over results obtained by several partners**. The IMB will propose solutions to the concerned partners in case of co-ownership issues between different partners having different policies and will endeavour to resolve possible conflicts related to intellectual property rights.
- Assist **in case of possible conflict**: i) handle and moderate discussions related to accessing the background and results to be granted according to the needed information to carry out the R&D tasks and ii) more generally, moderate and propose fair solutions to any potential conflict related to IPRs.

Teresa will be **involved in TransformAr as Innovation and Exploitation manager (IEM), as part of the IMB**, which is chaired by FEUGA and supported by Euroquality.

From now on Teresa will be responsible for exploitation activities in TransformAr, working on the identification, management and IPR protection evaluation of the actionable adaptive solutions and transformational adaptation blocks (TABs) generated during the project and the definition of the most suitable exploitation measures and channels to ease the post-project use, up-scaling and/or commercialisation of results.

Teresa will closely collaborate with Euroquality to achieve the final outcome of the IMB in the project: the definition of the exploitation strategy and the IPR management considering all partners' interests.

Teresa is the contact person for the **results collection system implemented in the project - [the Outcomes Form excel available in the TransformAr SharePoint](#)**. Additionally, Teresa will be **conducting IP workshops and carrying out the implementation of all the activities necessary to efficiently achieve exploitation objectives in TransformAr project**.

You can **address Teresa with any question or concerns you may have related with IPR and knowledge management and the exploitation of results**.

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# Representing TransformAr

## TransformAr at EURESFO

On September 14th and 15<sup>th</sup> 2022, **ACTERRA (Dr. Rim Khamis), E3-Modelling (Zoi Vrontisi), CMCC (Dr. Giulia Galluccio), ADEME (Marie-Edith Vincennes), Czech University of Life Sciences Prague (Dr. Tereza Hnátková, Kateřina Chmelíková and Michal Šereš), NCSR 'Demokritos' (Dr. Stelios Karozis) and the University of Antwerp (Axelle Vincent)** represented TransformAr at the 2022 European Urban Resilience Forum in Athens, Greece.

Topics discussed at the conference included coastal resilience and tackling heat waves and wildfires; mainstreaming climate change adaptation and disaster risk reduction; the importance of data availability and accessibility; financing for resilient cities, nature-based solutions for equitable development, and regional pathways towards resilience transformation.

EURESFO provided a great opportunity for TransformAr to meet with its sister projects REGILIENCE, Impetus and ARSINOE. In particular, the session **"Transformative pathways for a more resilient, regional development in Europe and beyond"** showcased to a broad audience of European stakeholders how European regions can benefit from the projects' solutions and upcoming activities and how to engage further with them.



The TransformAr team facilitated two out of three sessions of the workshop, on i) **Replicating climate adaptation innovation for a resilient Europe** (led by ACTERRA with the support of ADEME, NCSR 'Demokritos' and the University of Antwerp).

This session discussed the way in which replication must become a key component of climate change adaptation projects, if we aim at a European goal of resilience by 2050. This breakout session investigated and gathered inputs on how best ensure replication of innovative solutions within and beyond the 4 projects can be achieved and best coordinated.

The second session on ii) **Climate adaptation indicators: monitoring opportunities and challenges** (led by Czech University of Life Sciences Prague (CZU)) discussed the work within the projects that will produce new indicators for climate adaptation, coordinated with the work undertaken by the European Environmental Agency (EEA). The alignment of methodologies and action is needed to make results comparable and to avoid repetition. In this breakout session, participants provided insights on how to best coordinate the development of indicators and how to include an inclusive process.



## TransformAr at CEMPE

**Clémence Gracia (Euroquality) and Marie-Edith Vincennes (ADEME Guadeloupe)** attended the International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) in Mykonos, Greece, from June 3 to 9, 2022. The ARSINOE Project Coordinator (Prof. Chrysi Laspidou) organised the conference, and Euroquality and ADEME organised and moderated a workshop on 'Transformational pathways for regional resilience' which kick-started the collaboration with ARSINOE, REGILIENCE and IMPETUS. You can find more information on the [official website](#).



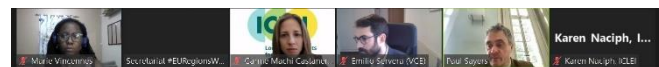
## Citizens engagement and the EU Missions

In light of the French Presidency of the Council of the EU, a high-level conference on citizen engagement in EU missions was held on the 21st of March 2022 in Paris, France. **Dr. Rim Khamis (ACTERRA) and Dr. Amalie Bjørnåvold (University of Antwerp)** attended the workshop on the EU Mission: Climate Change Adaptation and presented the work on citizen engagement that is both ongoing and planned in TransformAr, as well as the work planned on citizen engagement in ARSINOE, IMPETUS and REGILIENCE.

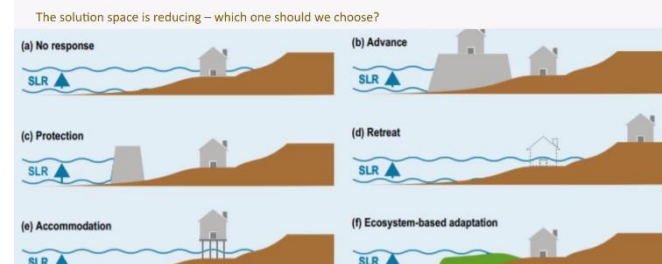


## European Regions Week

On the 12<sup>th</sup> of October 2022, **Marie-Edith Vincennes (ADEME Guadeloupe)** took part in the workshop session "Assessing climate services for ecosystem-based adaptation in European Coastal Cities and Towns" organised by the European Commission. Fostering peer-to-peer learning was discussed as one of the most powerful mechanisms for developing capacity and inspiring action. Sharing the experience from TransformAr, specific focus was made on showcasing coastal cities adaptation efforts and resilient ways for the transition. You can [watch the session here](#).



Adaptation choice – is for today's decision makers not the futures....





## 3rd EU Macro-Regions Week

For the **3<sup>rd</sup> EU Macro-Regions Strategies Week**, and in light of the implementation of the Mission for Climate Adaptation, REGILIENCE moderated the session '*Transformative action for Climate Resilient and Adaptive Regions*'. Johannes Klumpers (DG Clima, European Commission) gave the keynote address, and **Dr. Laurence Couldrick (West Country Rivers Trust)** and **Dr. Alessio Satta (MEDSEA)** formed part of the panel together with Prof. Chrysi Laspidou (ARSINOE Project Coordinator), Stefania Manca (Municipality of Genoa) and Giovanni Brumat (IMPETUS). Dr. Couldrick and Dr. Satta showcased already existing good practices from their respective demonstrators in the West Country Region and Sardinia, and the role of TransformAr in continuing the work on regional climate adaptation action.

The session further raised the relevance for integrated climate adaptation for regions, and provided an overview of tools, processes and impact of the four projects. **ADEME Guadeloupe provided a very well-received [video testimonial on TransformAr's role in Guadeloupe](#) which you can watch [here](#)**. You can also [watch the full session here](#)



## The Green Deal Project Support Office

The University of Antwerp and Euroquality are collaborating with the Green Deal Projects Support Office - an initiative to increase synergies and collaboration among the 73 projects funded under the Horizon-2020 Green Deal Call. With our sister projects : REGILIENCE, ARSINOE, IMPETUS, TransformAr is part of the "Climate Change and Biodiversity" cluster to maximise impact of its 17 projects, and meet on a regular basis.



## Subscribe to the joint newsletter

The TransformAr coordinators (University of Antwerp and Euroquality) regularly meet with its cluster of the 4 Horizon 2020 projects supporting the EU Mission on Climate Change Adaptation: REGILIENCE, ARSINOE, IMPETUS and TransformAr. [Subscribe to the joint newsletter here](#) to receive regular updates on these meetings and this collaboration. This newsletter is a joint activity, coming together to share their latest activities, interventions and opportunities related to climate change, adaptation and resilience.



## PROGRESS

The following section provides a summary of actions of the latest updates in each Work Package, of submitted deliverables in the past year, and provides you with a link to the actual deliverables.

## WP1 | FEUGA Innovation ecosystems for transformational adaptation in demonstrators

The specific objectives of WP1 are to i) define a strategy for stakeholders' engagement to drive a co-creation process for transformational adaptation, ii) identify key potential actors, stimulating their active engagement as well as of citizens to foster a co-ownership of the solutions iii) understand perception and decision-making process of stakeholders and citizens, identifying potential barriers to behavioural change iv) promote exchange of practices between demonstrators.

### Latest updates

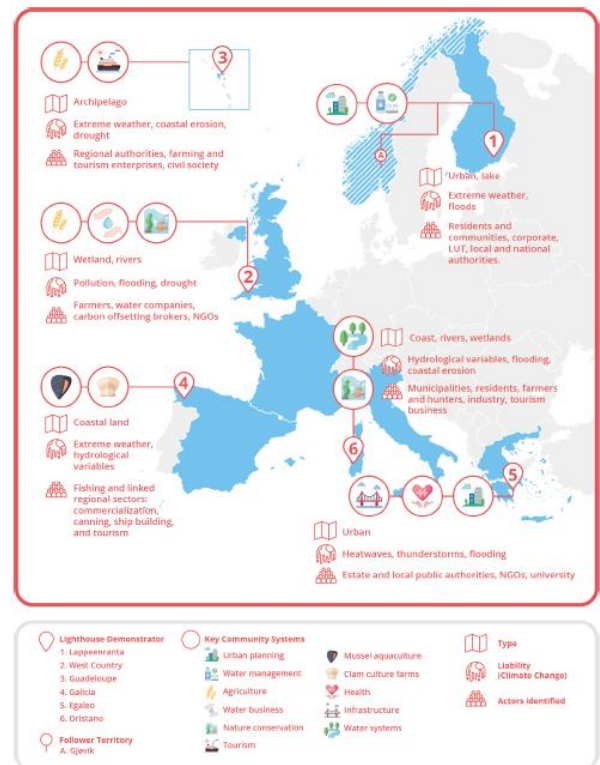
- FEUGA presented the Multi-Actor Approach paper at ICERI - base for D1.3 Innovation Ecosystems activity report
- Coaching: supporting Lappeenranta and Galicia WP3 workshops
- Public Acceptance: USC proposed questionnaire / feedback for the DCE in WP6 T6.1. / final translation to Spanish
- Integrating REGILIENCE: received one deliverable and two documents with interviews to support T1.3 on Identifying barriers to implementation and to behavioural change and understand the public perception and connection with citizens; waiting for the DCE to start selecting common lines of research with T1.3; sharing SAB methodology.
- FEUGA is providing support to CM4 organisation in Galicia (May 2023)

## Submitted deliverables

### D1.1 | FEUGA (M6)

### Stakeholders' Engagement Guidelines - [Link](#)

The first Specific Objective of TransformAr is to demonstrate the potential of co-innovation processes for **Transformational Adaptation (TA)** towards climate resilience in vulnerable regions and communities across Europe. This is to be realised via **6 Lighthouse Demonstrators** (ref. image below, and section 1.2 in report) within local/regional **Innovation Ecosystems (IE)**, creating shared ownership of solutions and increasing joint decision-making towards systemic change.





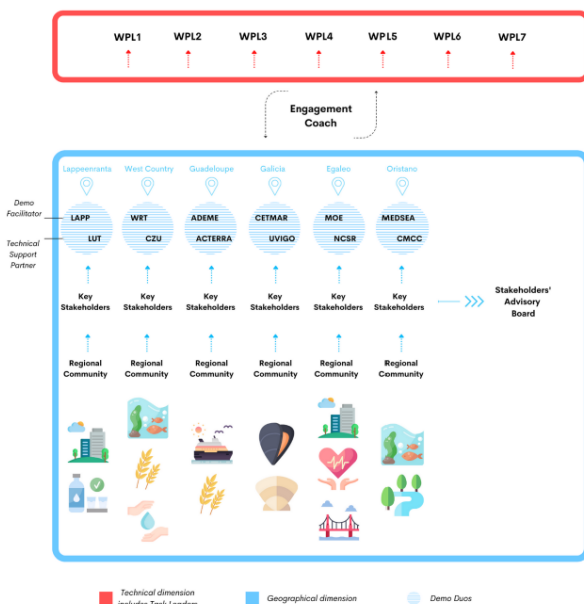
FEUGA, alongside Verhaert, the Demonstrator Facilitators and Technical Support Partners, developed a tailor-made methodology to drive a co-creation process with regional communities and relevant stakeholders to the project, from local to EU level. The methodology proposed is based on the **Multi-Actor Approach (MAA)** concept, in order to trigger **interactive innovation** across the whole value chain, whilst tackling demand-driven, actual needs of said actors. It is conceived as a matrix organizational structure with geographical and technical dimensions (ref. section 1.3) to address all regional and technical requirements.

The aforementioned methodology compiled in this D1.1 received approval of all project partners, and provides the basic procedures for involving Demonstrator communities composed of regional authorities, business, end-users... which need to be addressed in their own languages and considering their socio-economic particularities. The result is a *step-by-step* strategy that guides all interactions with stakeholders along a feedback cycle, upholding the principles needed for a quick and wide adoption.

D1.1. outlines (1) the composition of potential target stakeholders' groups in the TransformAr Innovation Ecosystems;



(2) detailed rules for the governance and decision making



(3) operational management procedures at local/regional level, with specific activities for the project;

The sum of all of the aforementioned elements provides a compass for cohesive and efficient engagement procedures:



Figure 6: TransformAr's stakeholder engagement operational management procedures

and (4) tools and guidelines for stakeholders' engagement needed to achieve the goals of the other Work Packages. An early draft of this framework allowed for initial encounters with the stakeholders and more efficient planning of upcoming initiatives.

## D1.2| ACTERRA (M4)

### D1.2. Stakeholder Matrix and Innovation Ecosystems Baseline Profiles - [Link](#)

The impacts of climate change are already prevalent, affirmed – the new EU Strategy on Adaptation to Climate Change, underlining the need to intensify adaptation efforts and “build a more resilient tomorrow” (European Commission-EC, 2021). To address climate-related challenges, the Intergovernmental Panel on Climate Change (IPCC) and the European Commission (EC) have acknowledged the need for transformational adaptation. In response, TransformAr has set itself the ambition to develop tools, methods, and products allowing to introduce and accelerate large-scale adaptation processes to increase the resilience of vulnerable regions and communities across Europe.

In this context, TransformAr seeks to demonstrate the potential of co-innovation process in adaptation through the building of 6 local Innovation Ecosystems (IEs) in selected lighthouse demonstrators (LDs).

Concretely, the lighthouse demonstrators present a community or administrative jurisdiction (municipality, province, region etc.) collaborating to create favourable conditions and test actionable solutions for transformational adaptation. For TransformAr, 6 LDs facing common water-related challenges have been selected to construct, test, and demonstrate transformational adaptation pathways. The 6 LDs retained for this project represent a variety of territorial scales as well as situations with regard to vulnerability and preparedness to climate change across the EU (including EU overseas territories). The LDs are the city of Lappeenranta (Finland), the West Country region (the UK), the Guadeloupe archipelago (France), Galicia region (Spain), Oristano (Italy) and the city of Egaleo (Greece).

For each lighthouse demonstrator, D1.2. presents the general context by introducing an overview of geographical, social and economic information. It also sheds light on the territory's climate vulnerability, , existing adaptation-relevant policy plans as well as response measures increasing the adaptive capacity of the demonstrator in question. Not to mention, the report introduces key actors that play a role in accelerating adaptation efforts via a stakeholders' matrix developed for each LD, defining the influence of the territory's actors and their role and their motivation to develop and implement transformational climate adaptation measures.

## WP2 | CMCC

# Integrated biophysical and socio-economic framework for modelling multi-sector dynamics

The objective of WP2 is to develop and implement a methodology as adaptive block for conducting full-scale climate and socio-economic risk assessment for EU regions and communities. Specific objectives are: i) to consolidate a coherent harmonized framework of climate/bio-physical modelling data and projections across EU and demonstrators; (ii) to articulate more detailed (e.g. high resolution) modelling assessments of hazards and inter-linkages relevant for transformational adaptation across demonstrators; (iii) to provide an economic evaluation of climate risks for different sectors, (iv) to develop a comprehensive assessment of socio-economic impacts of CC and TA at different EU scales, linking sectorial interdependencies, and cascading effects, (v) to develop a multidisciplinary integrated risk assessment cross-correlating biophysical multi-hazards and macroeconomic implications of CC for relevant sectors and (vi) to prioritise vulnerable KCS and EU regions and provide a robust framework for decision-making and upscaling of solutions established at demonstrator to further areas.

## Latest updates

- D2.1: Climate/biophysical projections consolidated for each demo region; data trends available should be published and easily accessible to project partners through web page/project repository site maybe with some static or dynamic view interface (Contact EPSILON); ongoing elaboration of projection for
- D2.2: SWIM modelling (eco-hydrological processes) customization and parameterization for whole EUROPE and extended to Guadeloupe; modelling simulation for various biophysical processes (e.g. climate, hydrological, flooding, agriculture, ecosystem functioning) available on-demand based on demo solutions to be implemented and supported.
- D2.3. Inputs to socio-economic model E3. Ongoing discussion on characterizing biophysical impact of climate change for relevant KCS and related loss damage assessment
- D2.4. Socio-economic model for Sardinia by including relevant KCS (test study)

## Submitted deliverable

### D2.1 | CMCC & PIK (M12)

#### Consolidated data framework – [Link](#)

The consolidated data framework aims at providing a portfolio of future biophysical data trends for each Demo region to characterise climatic, hydrological and environmental variables, in line with a set of selected IPCC scenarios, as combination of shared socioeconomic pathway (SSP) and representative concentration pathway (RCP) scenarios.

This deliverable aims at providing an initial overview of the climate and biophysical data that was consolidated in the first 12 months of the project and made available to facilitate project activities. The framework of macro data/general trends has been structured, listing significant available variables that can be generated under uniform methodology, assumptions and modelling across all Demo regions.

The report gives an overview of the origin of the data, the model used, the RCP and SSP scenarios discussed, their purpose within the project, and the spatial and temporal scale at which this quantitative information can be provided. An inventory list of climate and biophysical data is formulated and some key variables presented to describe potential support for activity development for the different Demo regions. List of variables consolidated and available in the data framework will increase during the project lifetime, while data requests and project modelling activities are accomplished.

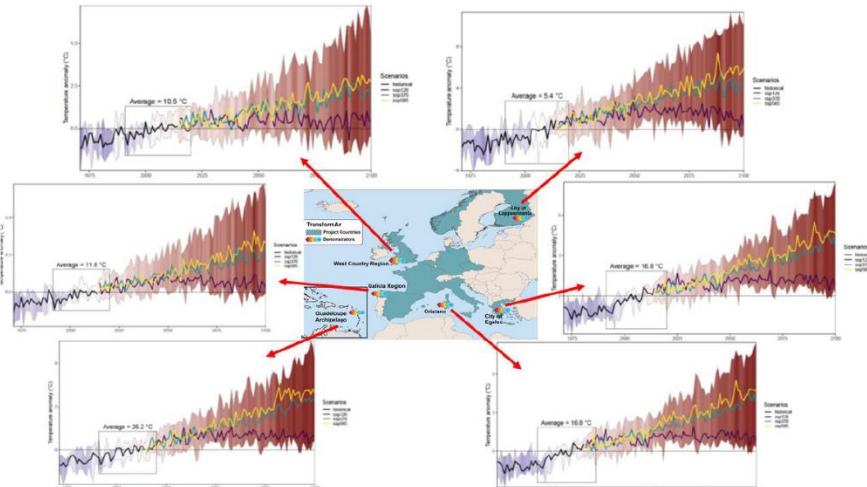


Figure 1.1 Relative change of annual temperature across TransformAr Demo regions over baseline period (1986-2005). Ensemble include endmembers from 5 climate modelling projections and 3 RCP scenarios (rcp26 in purple, rcp70 in cyan and rcp85 in yellow)

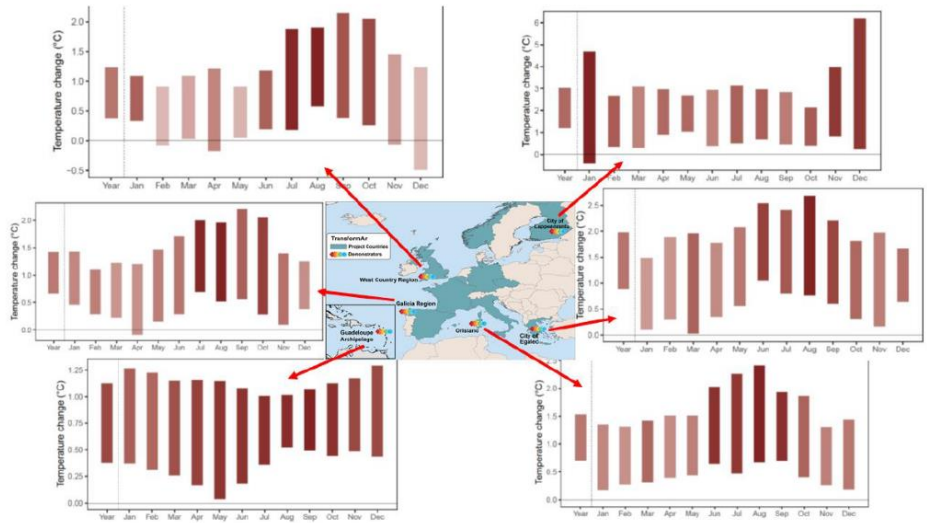


Figure 1.2 Relative change of monthly mean temperature across TransformAr Demo regions over baseline period (2050 vs 2000). Ensemble include endmembers from 5 climate modelling projections and 3 RCP scenarios (rcp26 in purple, rcp70 in cyan and rcp85 in yellow)

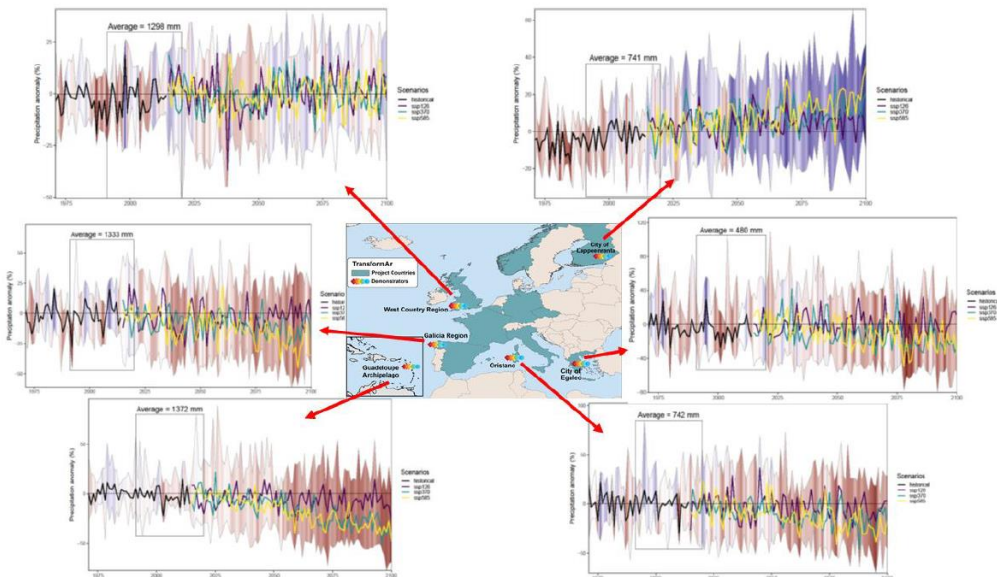


Figure 1.3 Relative change of annual precipitation across TransformAr Demo regions over baseline period (1986-2005). Ensemble include endmembers from 5 climate modelling projections and 3 RCP scenarios (rcp26 in purple, rcp70 in cyan and rcp85 in yellow)



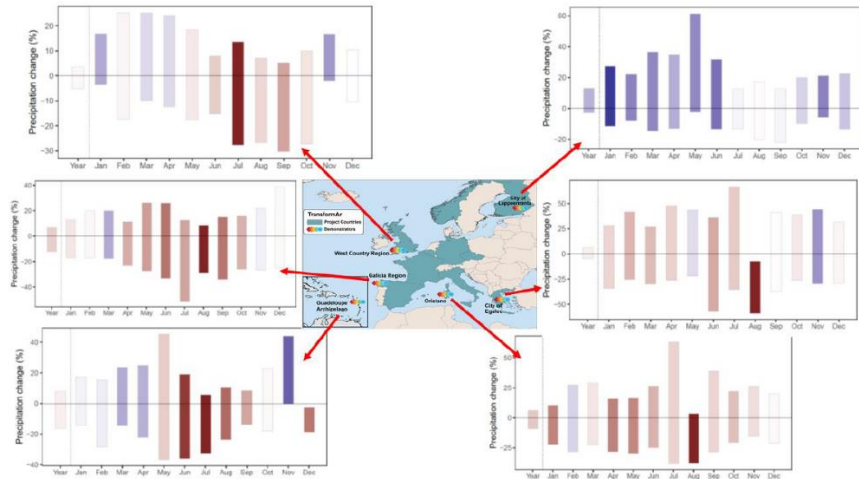


Figure 1.4 Relative change of monthly mean temperature across TransformAr Demo regions over baseline period (2050 vs 2000). Ensemble include endmembers from 5 climate modelling projections and 3 RCP scenarios (rcp26 in purple, rcp70 in cyan and rcp85 in yellow)

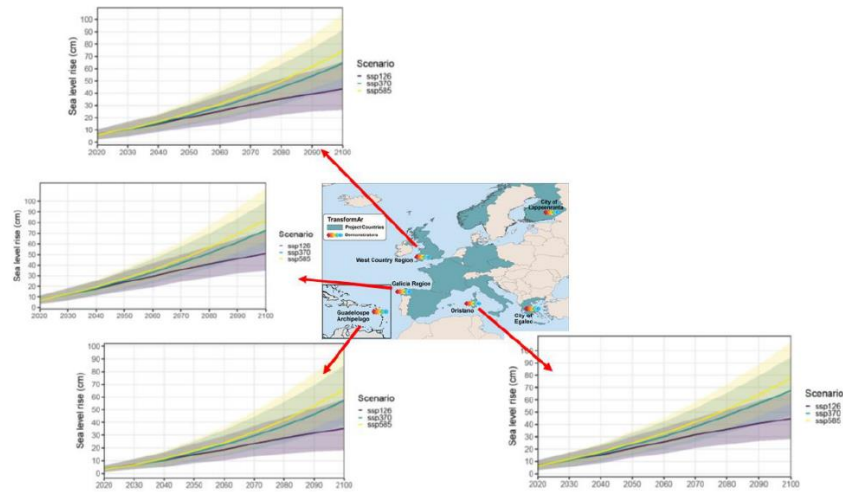


Figure 1.5 Relative change of annual sea level rise across TransformAr Demo regions over baseline period (1986-2005). Ensemble include endmembers from 5 climate modelling projections and 3 RCP scenarios (rcp26 in purple, rcp70 in cyan and rcp85 in yellow)

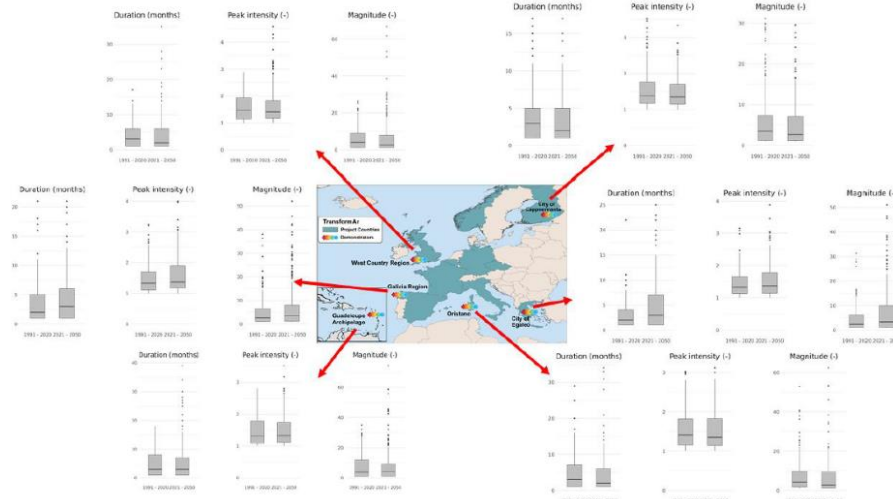


Figure 1.6 Relative changes through Standardized Precipitation Index (SPI) of Duration, Peak Intensity and Magnitude of drought between 1991-2020 and 2021-2050 periods. Ensemble include endmembers from 5 climate modelling projections and 3 RCP scen

# Workshop update

## WP3 | ACTERRA

# Envisioning transformative pathways for the demonstrators

WP3 will co-develop the adaptive blocks on Adaptive pathway co-construction, Adaptation planning and Solution combination in region-specific portfolios. Specific objectives include to: (i) co-develop adaptive pathways for developing transformational adaptation in each demonstrator and assess their biophysical, social and economic impacts and robustness; (ii) assess the potential avoided damages and additional co-benefits of transformational adaptation pathways for the society and the economy; (iii) co-define adaptation action plans and combination of actionable solutions for demonstrators; (iv) provide insights of the KCS transformational adaptation related to water-energy-food nexus and energy system designs repercussions.

## Latest updates

- 4 demonstrators : West Country Region, Oristano, Egaleo, City of Lappeenranta achieved their workshops for the setting up of adaptation pathways. 2 demonstrators : Guadeloupe and Galicia will conduct their workshops in the coming months (plan to finish at the end of January 2023). D3.3 will then be developed.
- A first version of the playbook is available and used by demonstrators. A demonstrator debriefing meeting was organised on 15th of November 2022 to collect feedback on the organisation and implementation of workshops already done. Good practices, challenges, constraints, next steps were discussed. Information collected from demonstrators will be used to update the playbook and to plan next steps of the WP.
- WP3 coordination meeting took place on 15th of November. Some coordination meeting between WP3 tasks will be organized during the stay in Guadeloupe (data needed for tasks T3.3 and T3.4 with Demokritos and UA, synergy between tasks, feedback for stakeholders involved in demos workshops). Needs of coordination between demonstrators, TransformAr project and WPs raised from the meeting.
- Approval received from PO from ACTERRA request to extend D3.3 from M14 to M18.

The below information on the workshops was provided by the workshop organisers during the [Workshop Debriefing](#) on the 15/11 organised by ACTERRA. Full reports on the workshop results will be shared with project partners.

### WEST COUNTRY REGION – February/March 2022

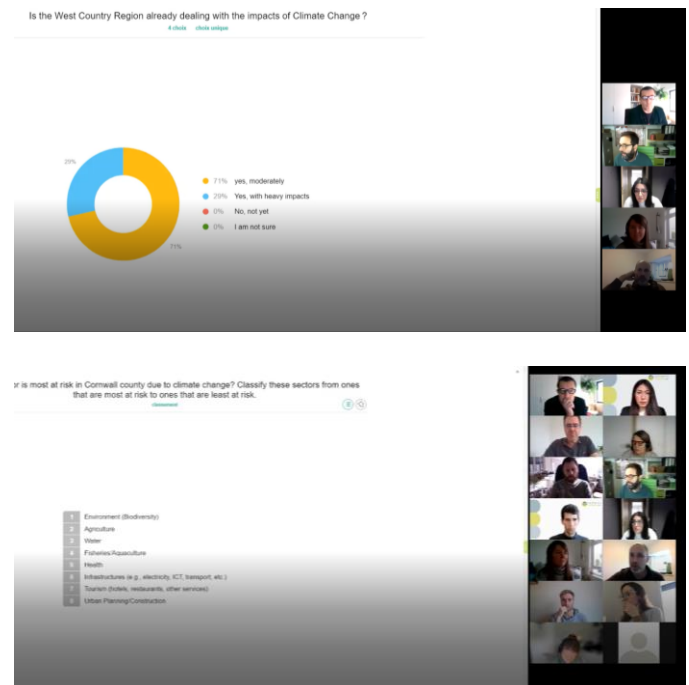
#### Lessons learnt from the workshop preparation

**Logistics:** Overall the workshops generally went well, they were online due to the risk of COVID and the Omicron variant that was prevalent at the time. The workshops were 3 hours in duration, which was quite a long time for participants to concentrate or have time available. Unfortunately there was a storm during the first workshop, which prevented some actors joining, due to poor internet signal

**Technical aspects:** The technical information and findings were very useful and local stakeholders found this of interest. It would be very useful to get the adaptation pathways developed available so that stakeholders and partners can look through this, while things are still relatively fresh. Some stakeholders struggled with using the online shared space to post ideas, this may have been easier to facilitate in person.

#### Lessons learnt from the workshop implementation

**Workshop:** Bringing cutting edge science to a more local level was very useful, in this way stakeholders could see better how climate change may affect them locally, and allowed for the better design of adaptation pathways.



Screenshots from the online WRT workshop

## EGALEO – October 2022

### **Lessons learnt from the workshops preparation**

- **Logistics:** There were no significant logistical issues, despite that it was a workshop with the participants physically present.
- **Technical aspects:** There were no technical difficulties during the workshop. We planned the use of posters as a mean of collecting data, with post-it stickers for the participants to “import the data”, during the various steps and sessions.
- **Participants:** We focused on inviting participants with various academic backgrounds and professions.



**The Egaleo workshop**

### **Lessons learnt from the workshops implementation**

- **Application of the Playbook:** We followed the playbook for the organisation of the workshop, almost to the letter. We had to adapt it, since we organized all three sessions in one. Thus, the participants’ input had to be analysed in real-time to progress to the next session.
- **Good practices:** Given the length of the workshop, there was a need for additional activities i.e. interactive polls. We implemented this practice to keep the participants engaged. Moreover, we insisted that they focus their input based on their expertise.

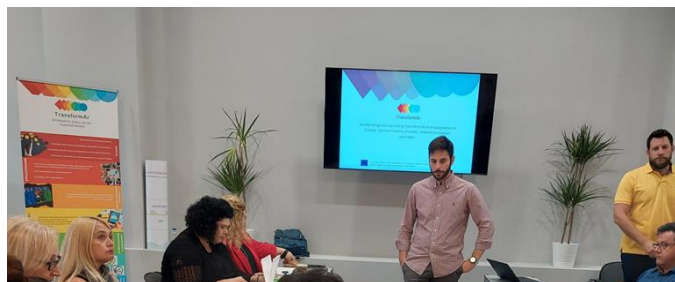


**The Egaleo workshop**

## SARDINIA – October 2022

### **Other remarks / recommendations**

- **Remarks:** We faced the challenge to translate terminology from English to Greek. This challenge was even greater since these, translated, terms have different meaning in some expertise.



**The Egaleo workshop**

### **Lessons learned from the workshop preparation**

- **Logistics:** Workshops were condensed in two sessions (much on climate impacts already developed with the regional adaptation strategy), workshop had to be postponed on short notice because of conflicting events for the stakeholders.
- **Technical aspects:** venue chosen inside the pilot area was positive for stakeholders, but lacked options for online interaction and collection of feedback (e.g., mentimeter, klaxoon, zoom), in this case not critical because of a small no. of participants.
- **Participation:** Involvement of specific stakeholder groups (in this case fishermen) can be tricky, relying on institutional representatives as contacts did not work, need to look for “leaders” of the group, promising strategy is indirect involvement of this group in other activities (e.g., with schools) to approach them to the project.

### **Lessons learned from the workshops implementation**

- **Workshop:** combination of ppt and canvases to carry out the group work worked well;
- **Application of the Playbook:** difficulties with identification of critical threshold indicators,



these are extremely dependent on individual farmers' conditions (although critical thresholds are being reached and transformation is starting at individual/farm level), while fishermen did not yet reach a state where practical experience with critical thresholds was made, adaptation solutions were considered in terms of generic rating of impacts (low medium high risks )...

**CITY OF LAPPEENRANTA – November 2022**

**Lessons learned from the workshop preparation**

12 participants took part in the workshop organised at Lappeenranta City Hall representing key community systems: water management and urban planning. We had good conversations and got plenty of material to work forward in this project and also important information for the city organisation to develop operations.

**Logistics:** Workshop was organised physically, on sessions 2 & 3 there were also few online participants. Even though it was probably the worst flu season, there were enough participants and different fields were represented. The workshop was organised in Finnish, as we wanted to ensure a rich discussion. All presentations and material was in English.

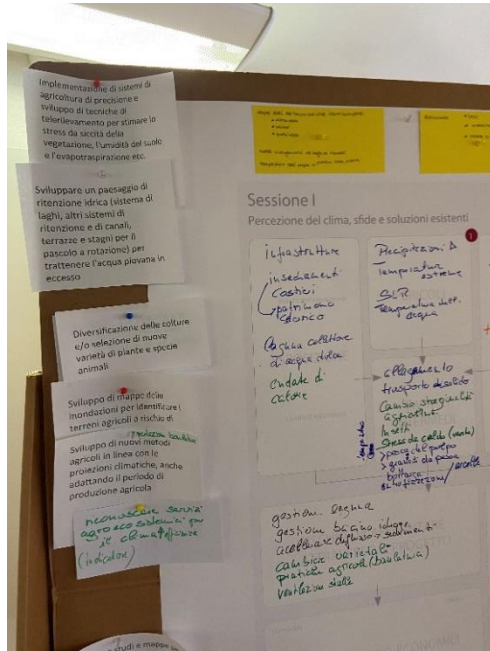
**Technical aspects:** Online presentations were a good choice (we were thinking of recording the scientific presentations in advance). The presentations were clear, interesting and there was some discussion after them, although asking in English was certainly limiting for most participants.

**Lessons learned from the implementation**

**Workshop:** It was good that the workshop was organized in Finnish. There was clearly more discussion.

**Application of the Playbook:** The playbook was a good help for organisation, everything needed was found in the instructions. Clear when you got inside. The arrangements were made much easier when all the material up to the canvases was ready in Playbook.

**Other remarks / recommendations:** Would it have been better for the organizer if there had been more time between the workshop sessions? On the other hand, when the sessions were on consecutive days, the participants had things better in mind. Based on the feedback received from the participants, the workshop was interesting and the topic important. We received valuable information not only for this project, but also for the development of the city organisation's operations.



**The Sardinian workshop**



**Location of workshop:  
Museo del Mare di Marceddi in Sardinia**



**The Lappeenranta workshop**



# Submitted deliverables

## D3.1 | University of Antwerp (M8)

### Governance Framework Tool and Report – [Link](#)

The report (submitted to the European Commission in June 2022) refers “to governance in the context of governing action on adaptation, and the inherent involvement of institutions, rules, organisations and actors – both public and private.”

#### Key actions achieved:

- It introduces different approaches to adaptation governance
- It presents adaptation policy in the EU: Strategy, Mission, Covenant of Mayor, EU Taxonomy, EU funding for adaptation and Mainstreaming adaptation into sectoral policies
- It sheds the light on the current state of adaptation in TransformAr demo-sites

#### Why is it useful?

It provides good practice examples and inspirational stories on multilevel governance, local adaptation governance, market-based adaptation governance (e.g. demand-side management), community-led governance, etc.

- It introduces various available funding schemes supporting adaptation and climate objectives
- It proposes an adaptation Preparedness Scorecards for TransformAr’s Demonstrators, highlighting “room for improvement”
- It introduces for each demo-site the institutional and policy framework on climate change adaptation with relevant policies
- It provides a basis for the development of action plans.

## D3.2 | ACTERRA (M8)

### Catalogue tool to identify best available solutions – [Link](#)

#### Key actions achieved:

It introduces the impacts of climate change on KCS (Health, Environment/Biodiversity, Fisheries & Aquaculture, Water, Infrastructure Systems, Urban Environments, and Tourism).

- It presents different types of solutions to increase the climate resilience of KCS and these are divided as follows:
  - 1- Incentives/Governance/Management
  - 2- Communications & roundtable exchanges
  - 3- Research & innovation
  - 4- Technical/Engineered solutions
  - 5- Green/Nature based solutions

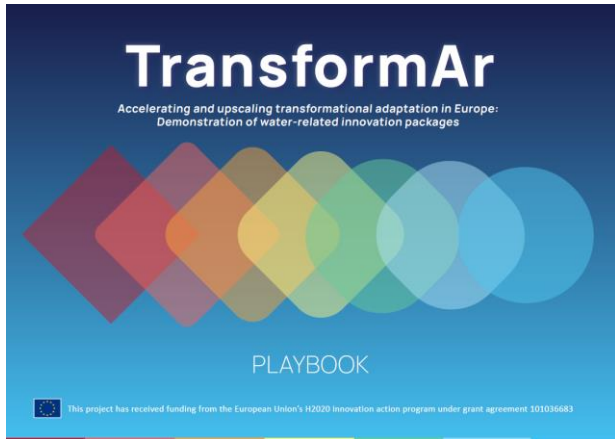
#### Why is it useful?

- Can be used by TransformAr partners to prepare the adaptation pathways workshop (solutions can be presented and participants can be asked to select preferred solutions)
- Can be used by a wider audience wanting to learn about practical solutions allowing to increase the resilience of various sectors
- Can be used as a basis for the development of action plans and adaptation strategies.

# D3.10 | Verhaert (M8)

## Dedicated toolkit and web service for Adaptive pathway transformation

### Playbook – [Link](#)



### Purpose of the Playbook

To provide all the tools necessary to organise workshop sessions to co-construct adaptation pathways within various sectors and together with identified stakeholders.

### Who is it for?

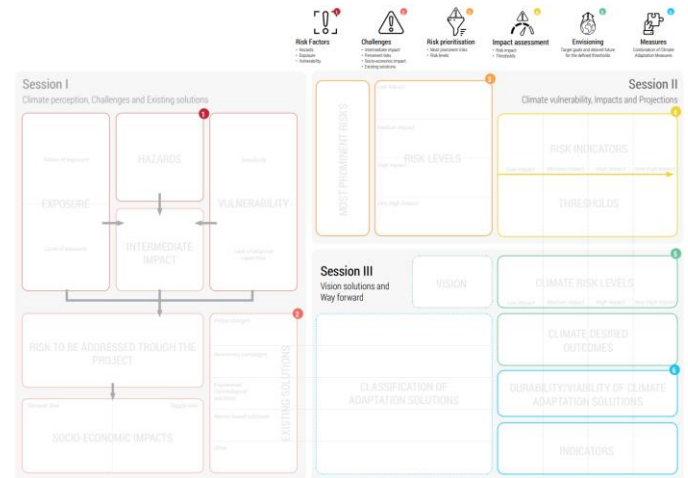
Any public or private entity with the ambition to understand how to envision and drive transformational adaptation. It presents the methodology adopted in the West Country Region for the - organization of workshops to co-construct adaptation pathways

### Why is it useful?

It guides TransformAr demo-sites in the organisation of their adaptation workshops, and allows for other territories to adopt the TransformAr methodology and co-construct adaptation pathways.

Each session has a dedicated canvas that can be used to collect inputs and insights in a structured format.

The Playbook walks you through every component of each canvas per session, using relevant examples.



### Session I- III canvases

The Playbook also provides practical tips & tricks on how to plan, prepare, and implement workshops



Figure. TransformAr Workshop Methodology

# WP4 | ADEME

## Actionable adaptive solutions implementation

WP4 will implement and test, in demonstrators' Key community Systems, the region-specific portfolios of solutions, composed of actionable cross-sectoral and large-scale adaptive solutions. Some solutions have been preidentified during the project setting-up as they are crucial to tackle territorial vulnerabilities to climate change. These solutions are described below and will be implemented together with solutions selected and combined in WP3. It will demonstrate the contribution of solutions to improve massively resilience in the regions and/or communities and define the replicability potential of the solutions that will be included in the Innovation Packages. The first round of solution implementation will take place between M12 (Milestone 11) and M30, and the second round will start in M30.

### Latest updates

- WP4 officially kicked off in **M12**
- ADEME designed a [tool to support WP task leaders in monitoring their solutions](#) – 21 solutions are expected to be implemented in the demonstrators throughout the duration of the TransformAr project.

**Behavioural change and awareness change solutions task lead:** Verhaert

**Governance solutions task lead:** University of Antwerp

**Nature-based solutions task lead:** CZU

**Technological and digital solutions task lead:** NTNU

**Insurance, financial and economic scheme solutions:** University of Antwerp

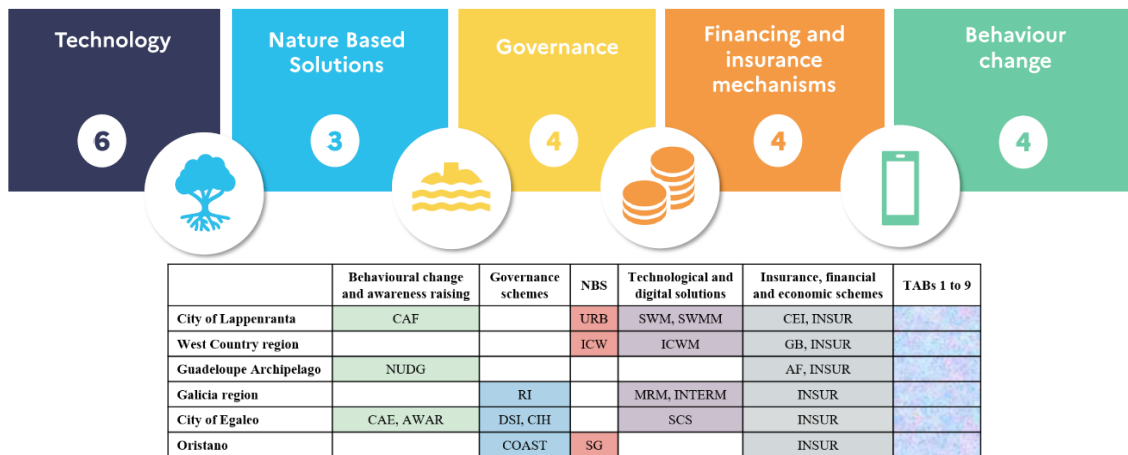
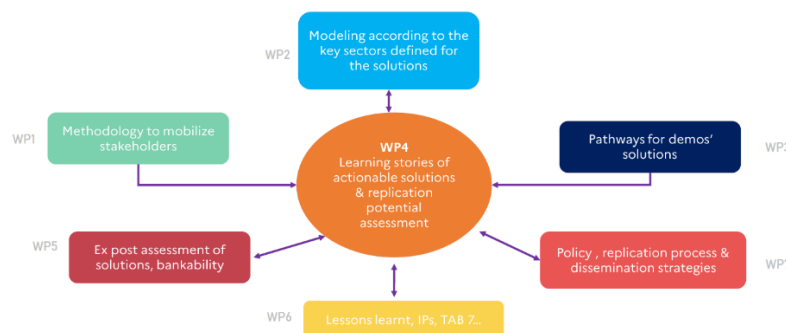


Figure: **Actionable adaptive solutions in TransformAr**

- ADEME has followed-up on the monitoring of the solutions of WP4 task leaders; supporting the implementation/use of the lessons learnt management tool within tasks
- The majority of WP4 task leaders have organised individual meetings for each solution and gathered information in the monitoring tool. **WP4 in context with other WPs:**



## WP5 | WRT

# Accelerating demonstrators' transformational adaptation

WP5 will develop the two adaptive blocks on Monitoring and evaluation and Acceleration of Transformational Adaptation. Specific objectives are as follows: (i) to monitor the progress of implementation at demonstrator scale (ii) to conduct an ex-post assessment of the solutions' contribution to improving resilience in the region and/or community and co-benefits/overall balance; (iii) to ensure ownership of the upscaling of solutions in demonstrators through understanding of opportunities and barriers on accelerating investment and upscale in the demonstrators articulating with the CSA; (iv) to ensure the bankability of TA projects and solutions and financial profitability and independence of demonstrators; (v) to contribute to the accelerating and guiding CCA into investment and decision-making through the WP1 Innovation Ecosystems established.

## Latest updates

- 5.1 -WRT Spot monitoring for WQ Camel continuing - to include summer low flow versus winter high flow data. Spot monitoring for Axe designed and network building. Citizen Science WQ new group for Camel established, WRT to arrange training in the next couple of months. Meeting between CZU and WRT set for 9th November 2022.
- CZU preparing monitoring guidelines with feedback in November.
- 5.3.1 - WRT preparing a resource planner for this task and undertaking a skills appraisal. Task also links to adaptive pathways 3.3 workshops and awaiting more refinement of adaption pathways recommended before approaching stakeholders.
- 5.3.2 -LUT primary focus at the moment is preparing and arranging the co-creation 3.3 workshops. LUT also discussing the design of the 2nd NBS in more detail.
- 5.4 -Tine at UA - Gain insights from Belgium region banking workshop through 'sister' project, to inform potential for wider EU level workshop with banks.

### TIME FRAME (M10 – M42/M48)

- **T5.5 Acceleration (WRT)** – How can we increase understanding of decision makers? (*Risks – lack of clarity over benefit, poor identification of decision makers, lack of collation of events*)
- **T5.4 Bankability (UA)** – Who are the long-term funders of Climate Change Adaptation? (*Risk – poor identification and understanding of buyers*)



- **T5.1 Monitoring (CZU)** – What are you monitoring and how often? (*Risk - lack of quality, continuity, integration...*)
- **T5.2 Ex-post assessment (LUT)** – Is this internal or externally expertise? (*Risks – Quality and quantity of data to make assessment, scope*)
- **T5.3 Ownership (WRT)** – Who are the owners and how are you going to engage with them? (*Risk – poor stakeholder assessment, poor facilitation/engagement, fatigue*)



## WP6 | University of Antwerp

### Acceptance, building and exploitation of innovation packages

WP6 aims to capitalise, consolidate and integrate the knowledge/resources on Transformational Adaptation (TA) in the 7 project Innovation Packages (Ips). It will achieve the following specific objectives: (i) perform econometric analysis of the acceptance and preference of adaptative solutions with the general public; (ii) transfer the costs and benefits of adaptative solutions from the demonstrator to non-demonstrator sites across Europe; (iii) capitalise, consolidate and integrate the outcomes/knowledge/resources from all WPs, leading to a catalogue of solutions, and guidance documents on transformational adaptation, and the 7 IPs; (iv) define the exploitation, IPR strategy and business model; (v) articulate and feed into the CSA- project platform.

### Latest updates

- CMCC has developed a draft questionnaire for the DCE that is currently being tested by the demo duos. You can find the [draft questionnaire on the Sharepoint](#) in the WP6 folder. This questionnaire is based on input from demonstrators from the information request that took place in December 2021. CMCC request to extend deadline of D6.1. from M16 accepted by PO until M20.
- Collaboration ongoing with CMCC, FEUGA and USC on links to public acceptance task in T1.3.
- A session on public acceptance will take place during CM3 where general feedback from the consortium is sought on the DCE.
- Discussions ongoing with FEUGA, EQY and UA on TransformAr's exploitation strategy and the setting up of the Innovation Management Board (D6.6,D6.7, D6.8).
- TransformAr Project Officer agrees to amend D6.7 and D6.8 from public to private, but to wait for other amendments to avoid administrative burden.

## Submitted deliverable

### D6.6 | FEUGA (M12)

#### Preliminary exploitation plan - [Link](#)

The TransformAr preliminary exploitation plan can be considered as a planning document useful for project partners regarding their possibilities, rights, and obligations to protect all created results in the framework of the project by Intellectual Property Rights. Similarly, this document can be considered as a consulting document to obtain additional information about how the exchange of information and results analysis are going to be carried out in order to design the Exploitation Strategy for TransformAr's results.

This deliverable will be evolved and updated during the project lifetime. Based on the forecast of the project's results, this Preliminary version of the Exploitation Plan (D6.6) describes the exploitation activities that will be developed during the project's lifetime, also points out result protection possibilities and summarises provisions and terms of the grant and consortium agreements (GA & CA) regarding TransformAr results protection.

The preliminary exploitation plan will establish, from the beginning of the project, the goals, guidelines, strategies, and workflows for partners to follow when developing the activities related to the transfer of knowledge and exploitation towards end-users, being updated regularly, since new results may come out during the project's development.

The submitted deliverable, along with the confidential annex to be kept within the TransformAr consortium, can be found in the [WP6 folder](#) on the Sharepoint. The final exploitation plan will be submitted in M40 of the project.

## WP7 | Water Europe

### Structuring an EU transformational adaptation community of practice

#### Latest updates

- Website was successfully launched in March 2022!
- Regular updates on social media accounts (LinkedIn and Twitter) and website are ongoing and should be shared and reposted by all partners of the consortium.
- Participation to the GDSO Webinar - Mission on Adaptation to Climate Change (October 2022), to the EU regions week (October 2022), to the EURESFO event (September 2022), to the International Conference on Environmental Management, Engineering, Planning and Economics (June 2022) and to the first Mission Adaptation Forum (July 2022).
- Dissemination of TransformAr during Water Europe Board meeting. There was a slot in the agenda where Durk Krol presented and briefly explained all projects where WE is involved.
- Participation to the monthly comms meetings for Regilience. A common newsletter was launched in November for the 4 sister projects REGILIENCE, Impetus, ARSINOE and TransformAr.
- Regular collaboration with the 4 sister projects, with meetings for coordination every 2 months, working groups and exchange of knowledge, like for instance with the Playbook of WP3, and Multi-Actor Approach related to WP1.

## Submitted deliverables

### D7.2 | Water Europe (M6)

#### Communication and dissemination plan - [Link](#)

The deliverable 7.2 'Building and implementation of a communication strategy' has been developed in the context of the TransformAr Work Package 7 which is to structure an EU transformational adaptation community of practice by connecting and informing the scientific, institutions, policymakers and general public about the innovative solutions concerning transformational adaptation in relation to the smart use of natural resources in water, agriculture, fisheries, tourism, energy use and biodiversity.

The purpose of this document is to present the strategy that will be followed for all the communications activities of the project and suggest a concrete plan for their implementation throughout the project's four-year duration. In particular, this strategy includes six main chapters addressing the different aspects that are important to focus on, starting with general information on the TransformAr project, its objectives, its communications goals and key target audiences. All the communications tools and actions that will be used to support the communications efforts of the project are also presented, while a matrix of how the communications tools correspond to each target audience intended to be reached is also featured in the document.

The document also provides details on the appropriate timing for the implementation of the communications strategy, together with the responsibilities and contributions expected by the TransformAr partners.

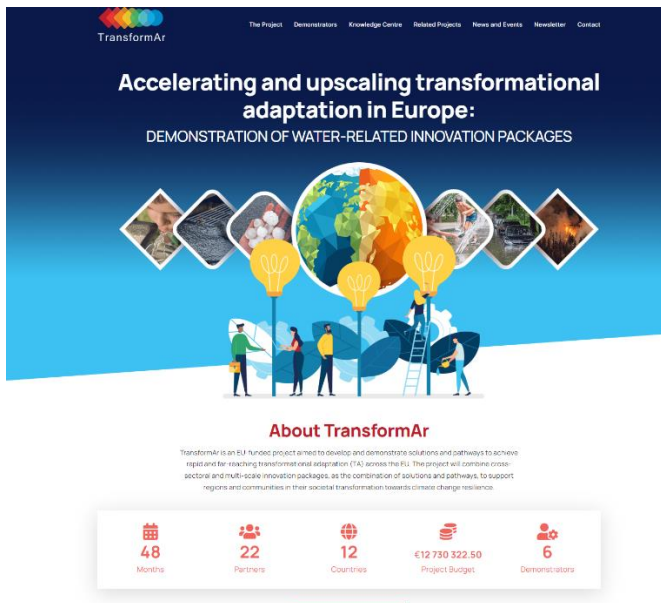
Lastly, reference is made to the monitoring and assessment aspects of the communications activities, featuring the KPIs and targets set. The deliverable 7.2 is a living document that evolves during the lifespan of the project; in fact, it functions as a dynamic document of agreements among the partners to be reviewed and updated periodically.

# D7.3 | Water Europe (M6)

## Project website and visual identity - [Link](#)

This deliverable summarises the two main elements that set the basis for an impact-successful project: the project identity and the website. An attractive and consistent visual identity is essential for portraying the right image of a project. Branding includes logos, standard templates such as PowerPoint presentations, Word Deliverables and a style guide that will provide the insights for all consortium members to achieve a homogeneous approach over their communication. In this line, the TransformAr project website is an invaluable tool for the project, as it is the first source of information about the project. Therefore, it has to be successfully created so that the project aims, and objectives are well-explained and the information about the project activities and results are clearly disseminated. As a dissemination vehicle, this website also gives visibility to what the project has created e.g. journal articles, publications, and presentations at conferences.

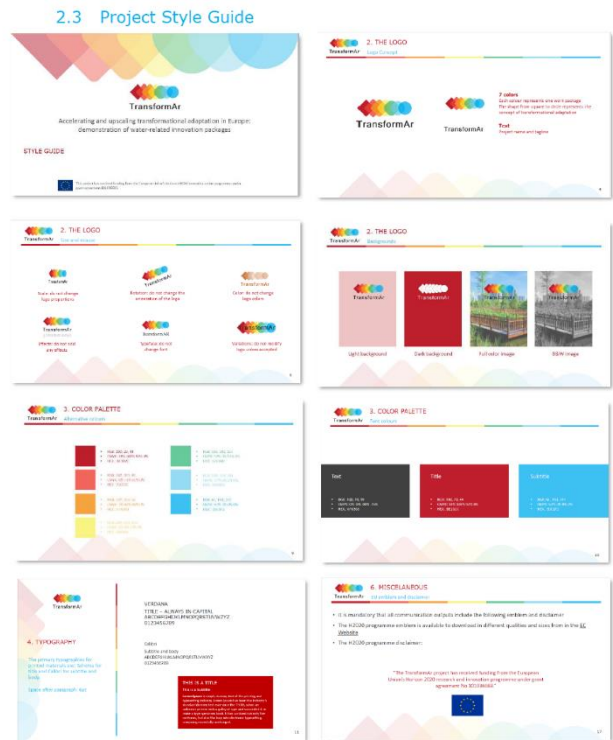
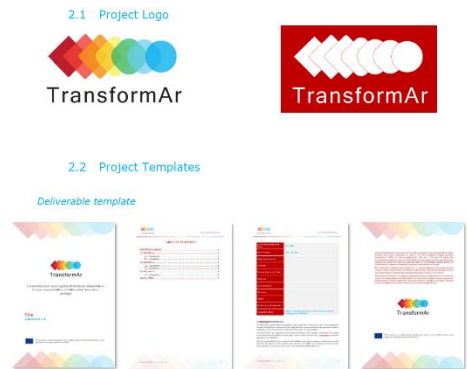
Project URL: <https://transformar.eu/>



## Visual Identity

Simple, easily recognisable, and self-explanatory are the three core elements of a good brand identity. At the proposal preparation stage, the consortium selected the logo that best defines and symbolises the project's nature and objectives, and on this basis, Water Europe has developed all project templates and a detailed Visual Identity Style Guide. To ensure that the project has a coordinated visual identity and a consistent look and feel across all channels, all partners will have to make use of the guidelines and templates provided. All project material, whether printed or digital, will be produced according to these guidelines that best reflect the project identity.

All above-mentioned [guidelines and project templates are available in the WP7 folder](#) on the TransformAr Sharepoint.



# WP8 | University of Antwerp

## Project management

### Latest updates

- Dates of CM3: December 1st to December 6<sup>th</sup> – [programme, guide to stay and list of attendees can be found on Sharepoint](#). Presentations of all speakers to be [uploaded here](#) before November 25<sup>th</sup>.
- Current discussions ongoing between UA, CETMAR and EQY for dates of CM4.
- Control reports analysis ongoing, feedback to be sent by mid-November by EQY.
- Monthly executive committee meeting [presentations and minutes can be found here](#).
- Approval received from the TransformAr Project Officer to amend D6.7 and D6.8 from public to private., and CMCC request to extend deadline of D6.1. from M16 to M20.
- Project Management Tool ClickUp to be presented by EQY and UA at CM3. A guidance on the project management tool can be found here.

### Submitted deliverables

## D8.1 | University of Antwerp (M6)

### Quality Plan - [Link](#)

This Quality Plan defines, in accordance with the definitions and regulations of the Grant Agreement and the Consortium Agreement, the proper implementation of the general working mechanisms and information flow of the project, while defining quality policies and plans to be applied in the lifetime of the TransformAr project. The aim of this document is to provide guidelines and principles that ensure a high technical and managerial quality of the TransformAr project from start to completion. The present document is to be considered as an applicable document up to the final acceptance of all deliverables and reports. Any changes will be agreed upon by the Project Coordinator and the Executive Committee, and be included in a revised version of the present document. This document is also complemented by Deliverable D8.2 - Project Management Plan. Complying with the Quality Plan falls under the responsibility of the Project Coordinator, the

Executive Committee - including Work Package Leaders - and the Task Leaders.

Table 4 TransformAr Quality Board members

Topic	Member
Gender Issues	Jérôme Oudart (EQY)
Exploitation and Open Innovation	Alfredo Varela Carrera (FEUGA)
Replication	P&I Godard (MOG)
Responsible Research and Innovation	Jan Cools (UA)
Data Management	Marc Bonazountas (EPSILON)
Blue Growth	Lucia Fraga (CETMAR)
Environmental Impact	Risto Soukka (LUT)
Social Sciences and Humanities	Chiara Trozzo (CMCC)

Table 5 Deliverable review process

When	Who (initiator)	What	Recipient
5 weeks before submission deadline	Project management team (PC, TM or AFM)	Verifies deliverable deadline and start of review process with relevant partner(s)	Work Package Leader and Task Leaders of relevant deliverable
4 weeks before the official submission deadline	Deliverable Leader (Task)	Submits the first draft of the deliverable	Work Package Leader and Project Coordinator
3 weeks before official submission deadline	Project Management Team and Work Package Leader	Return deliverable with comments and feedback	Deliverable Leader (Task)
2 weeks before official submission deadline	Deliverable Leader (Task)	Submit reviewed deliverable based on comments and feedback from Project Management Team and Work Package Leader	Project Management Team and Work Package Leader
1 week before official submission deadline	Project Management Team and Work Package Leader	Final review, editing and verification of compliance with quality standards	Deliverable (Task) Leader for final verification
Submission to European Commission's Participant Portal by the TransformAr Project Management Team by deliverable deadline			

Table 6 Quality criteria for deliverables

Quality Criteria	Description
Consistency	The content of the deliverable is consistent with the description of the task in the TransformAr Work Plan.
Compliance	All aspects of the deliverable, as described in the Grant Agreement are fully addressed.
Objective consistency	The objectives of the deliverable are in line with project objectives
Scope consistency	The content of the deliverable is in line with the scope of the deliverable and relevant to its target audience.
Accuracy	The content of the deliverable is scientifically sound and supported by relevant and well-sourced references.
Clarity	The language of the text is clear (proper sentence structure is used); The text is in consistent English (whether UK or US); The text is unambiguous; The terminology, including acronyms, is explained; There are no spelling errors; Any potentially sensitive information is appropriately worded
Technical consistency	The deliverable is submitted using the relevant templates.

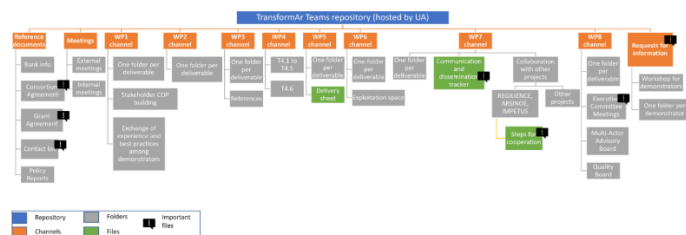


## D8.2 | Euroquality (M4)

### Management Plan and Tools - [Link](#)

This document presents the different tools that have been prepared in the first months of the project to facilitate its management by partners. It also acts as a guide showing the participants their roles in different phases of the project. To facilitate communication between consortium members, and to share information and documents, a Teams working space platform has been set up, which constitutes the password protected private area.

Figure 2.1 Figure on the organisation of folders



Important files pointed out on Figure 2.1 include:

- The [Consortium Agreement](#) and [Grant Agreement](#) in the Reference documents channel, together with the [contact list](#) of project partners;
- The document for [cooperation steps with the projects linked to TransformAr](#) in WP7 channel;
- The [communication and dissemination tracker](#) to be filled in by each partner for monitoring and reporting project's dissemination and communication activities in the WP7 channel;
- Minutes and presentations of [Executive Committee meetings](#) in the WP8 channel;
- All files related to experience and knowledge sharing and requests to TransformAr demonstrators in the [Request for information channel](#).

A [detailed timesheet template](#) has been created and shared with partners to facilitate the monitoring of time and costs spent on the project by each partner. This document can also be used for timesheets by partners. All contacts and a mailing list have been compiled and the documents for periodic reports (technical and financial) will be made available. At least one revision of this deliverable will be made during the project, just

before the end of the first reporting period. A description of the TransformAr project's different Boards is also provided.

## D8.3 | Epsilon Malta (M6)

### Data Management Plan - [Link](#)

#### Focus of this Deliverable

The D8.3 – Data Management Plan (DMP) is an initial version of a living document, intended to describe the data management life cycle for all data sets that will be collected, processed or generated by TransformAr.

#### Deliverable contents

TransformAr deals with many types of data and datasets generated or aggregated through its various activities. These types of data and datasets will be made available, in line with the guidelines for the Extended Pilot on Open Research Data in Horizon 2020 (European Commission, Directorate-General for Research & Innovation, 2016). The DMP will also include the dataset metadata specification that will be used in the data registry, following an appropriate relevant standard (European Commission, Directorate-General for Research & Innovation, 2016). It will specify the recommended licensing schemes as suggested by H2020. In this first version of the DMP both existing and planned data sets are described.

#### Conclusions and recommendations

The TransformAr DMP as depicted in D8.3 constitutes the basic tool that will be used to manage data in the TransformAr project.

## D8.5 | Euroquality (M6)

### Guidance for Quality - [Link](#)

The Guidance for quality report completes the Deliverable 8.1 Quality Plan edited by the coordinator which presents the different quality control process implemented within the consortium. This guidance for quality rather focuses on legal and ethical aspects to be considered within the quality processes and, more widely, within the project activities.

The purpose of this document is to define how and help measure how the project invests in gender equality, women’s empowerment, and social equity on the one hand. On the other hand, this report addresses more widely the Responsible Research and Innovation (RRI) principles to ensure the project is in line with the EC strategy on ethical and legal aspects.

Table 3 RRI dimensions represented in TransformAr

<b>Public engagement</b> is an important consideration that will be achieved thanks to a multi-stakeholders and multi-level methodology.
<b>Gender dimension:</b> tackled in the dedicated part above.
<b>Science Education</b> will be enhanced through cross-learning workshops, which will sustain the network of demonstrators and will cultivate the exchange of knowledge, experiences, and best practices.
To foster <b>Open Science</b> , the main project outputs will be provided in Open Access, with user-friendly format and content, made available through the CSA platform guaranteeing their accessibility.
Concerning <b>Ethics</b> , the partners will propose a detailed Data Management Plan ensuring an ethical treatment of the personal data collected all along the project. The influence of societal, ethical and legal issues arising throughout the project will be done with respect to the fundamental rights and highest ethical societal standards.
<b>Governance</b> Research and innovation centres and policymakers will collaborate all along the project duration, supported by EU experts and solution providers, to prevent any bad situations regarding mentioned aspects.

This report therefore gathers the gender marker guidelines and legal and ethical guidelines for the project. The gender marker guidelines are in line with the UNDP Gender Marker Strategy and the requirements from the EC in the field of gender equality as illustrated by the mandatory Gender Equality Plan (GEP) for public organisations applying for fundings.

# Upcoming deliverables

## Upcoming deliverables

Del. N°	Deliverable name	WP n°	Responsible participant	Type	Dissem. Level	Delivery date	Actual date
D3.3	Set of adaptation transformation pathways per demo	3	ACTERRA	R	PU	M14 >> M18	01/03/23
D6.1	Results on the public acceptance and preferences	6	CMCC	R	PU	M16 >> M20	01/05/23
D8.6	Data Management Plan first update	8	EPSILON	R	PU	M18	01/03/23
D3.4	Tools on the avoided damages and benefits per demo	3	NCSR	OTHER	PU	M22	01/07/23
D5.8	Intermediary monitoring report	5	CZU	R	PU	M24	01/09/23
D2.3	Systematic review of economic evaluation of CC and loss damage functions for KCS	2	CMCC/PIK	R	PU	M24	01/09/23
D2.4	Report on full-scale socio-economic impacts of CC and TA in EU, national and sub-national levels	2	E3M	R	PU	M24	01/09/23
D1.4	Beliefs towards transformational adaptation Conceptual Map	1	FEUGA	OTHER	PU	M24	01/09/23
D1.5	2 Thematic Best Practice reports	1	VERHAERT	R	PU	M24	01/09/23
D7.9	Mid-term update of communication and dissemination plan	7	WE	R	PU	M24	01/09/23

Table 1 Overview of gender equality importance in TransformAr work packages

Title	Importance to address gender issues	Comment
WP1 - Innovation ecosystems for transformational adaptation in demonstrators	High	The involvement of various stakeholders needs to consider gender equality
WP2 - Integrated biophysical/socio-economic framework for modelling multi-sector dynamics	Medium	The different assessments, especially risk and impact modelling should encompass gender consideration
WP3 - Envisioning transformative pathways for the demonstrators	High	In line with the WP1, it will implement the recommendations produced on site
WP4 - Actionable adaptive solutions implementation	Medium	Some solutions have gender at stake, such as the governance schemes
WP5 - Accelerating demonstrators' transformational adaptation	Low	No specific issues identified
WP6 - Acceptance, building and exploitation of innovation packages	Medium	The acceptance of solutions to be assessed should include a gender dimension
WP7 - Structuring an EU transformational adaptation community of practice	High	Great consideration of gender is required in the policy recommendations, identification and building of the community members
WP8 - Project management	Medium	TransformAr, in its organisation and quality processes, will include gender consideration for its partners