



TeRRIFICA project - Starting on January 2019 and with duration of three years and a half, TeRRIFICA will set up tailored roadmaps and key performance indicators for the implementation of the developed methodologies and climate change adaptation activities in regional

practice. Customised capacity building for the different stakeholder groups will be offered. Through workshops, regional and international summer schools, TeRRIFICA aims to empower local people (with a particular focus on regional authorities and policy makers) and will develop together with them adequate solutions. Field trips to local and regional promising activities related to research and regional innovation, and broader stakeholder engagement with feedback loops will be organised. Through its co-creative multi-stakeholder approaches, participants have the opportunity to expand their knowledge around climate change and innovative climate action and to identify opportunities, drivers and barriers of implementation. Activities take into account challenges for the acceptance and feasibility, technological and regulatory constraints in six pilot regions.

TeRRIFICA - Europe defies climate change

Heat, drought, heavy rain - many people in Europe are already feeling the effects of climate change. The EU funded project TeRRIFICA (Territorial Responsible Research and Innovation Fostering Innovative Climate Action) with its network partners in six regions of Europe will seek for best practice and identify the approaches that are already in place to adapt to climate change effects. And they are developing solutions to defy climate change - along with civil society, science, administration and policymakers.

Better air, less flooding and more biodiversity: tailored solutions for many regions in Europe

TeRRIFICA aims at fostering competence for climate change adaptation in different European regions and its goals are:

1. to develop action plans together with diverse actors on how regional climate change adaptation measures can be implemented,
2. to transfer these measures to other regions and
3. to broaden the experience with various cooperation formats, which are suitable to arouse the interest for engagement in climate change adaptation in the different target groups

The project's acronym TeRRIFICA indicates its specific thematic focus: Innovative Climate Action. Climate change and Sustainable Development are global crosscutting issues, playing on the same ground as the United Nations Sustainable Development Goals. Still, after years of tackling urgent issues of climate change and the adaptation to climate change effects is less considered. TeRRIFICA will apply its – in the broadest understanding – territorial approach with a focus on Responsible Research and Innovation processes around climate change adaptation, directly addressing specific Sustainable Development Goals.



Workpackages and contacts: coordinator and local partners

The project consists of six different work packages (WP):

- WP1 Ethics requirements, led by WILA Bonn
- WP2 Project Coordination and Management, led by WILA Bonn Norbert Steinhaus, norbert.steinhaus@wilabonn.de
- WP3 Thematic Approach, Content Definition and Implementation Strategies, led by AMU Pawel Churski, chur@amu.edu.pl
- WP4 Co-creation and Stakeholder Involvement, led by SciCit Aude Lapprand aude.lapprand@sciencecitoyennes.org
- WP5 Monitoring, Validation and Evaluation for the Knowledge Transfer, led by HSRW Alexander Gerber, ag@hsrw.eu
- WP6 Science-Practice Dialogue: Dissemination, Cross-network Collaboration and Exploitation, led by ACUP Marta Cayetano, marta@acup.cat

Project partners will provide recommendations, new procedures, tools and adapted methodologies that are appropriate to the different roles and objectives of these parties and which will consider the key policies of responsible research and innovation processes (RRI) as well as the UN Sustainable Development Goals.

TeRRIFICA partners: The whole is more than the sum of the individual contributions

When choosing the pilot areas, the project partners have taken care to bring both rural and urban regions on board, each facing very different challenges. The six pilot regions - in Spain, Germany, France, Serbia, Poland and Belarus - play a very special role in this process. Because they are the ones who test and evaluate the first climate adaptation measures directly with local citizens. The TeRRIFICA Consortium presents a truly cross-disciplinary team which holds very strong relations and interactions with various target groups in the climate action and climate change adaptation sector, namely municipalities, regional and national governance bodies, universities and mainly citizens and NGOs.

In a trans-disciplinary partnership TeRRIFICA involves six European countries, bringing together three research institutions, three non profit organisations, one public association of universities and one public institution for science promotion:

- WILA Bonn, Bonn Science Shop (Bonn, Germany) – project coordinator
- HSRW, Rhine-Waal University (Kleve, Germany)
- AESD, Education for Sustainable Development Association (Minsk, Belarus)
- CPN, the Center for the Promotion of Science (Belgrade, Serbia)
- UoV, the University of Vechta (Vechta, Germany)
- AMU, Adam Mickiewicz University (Poznan, Poland)
- SciCit, Sciences Citoyennes (Paris, France)
- ACUP, Catalan Association of Public Universities (Barcelona, Spain)



“Early and continuous engagement of all stakeholders is essential for sustainable, desirable and acceptable innovation.”

Rome Declaration on Responsible Research and Innovation in Europe, Nov. 2014

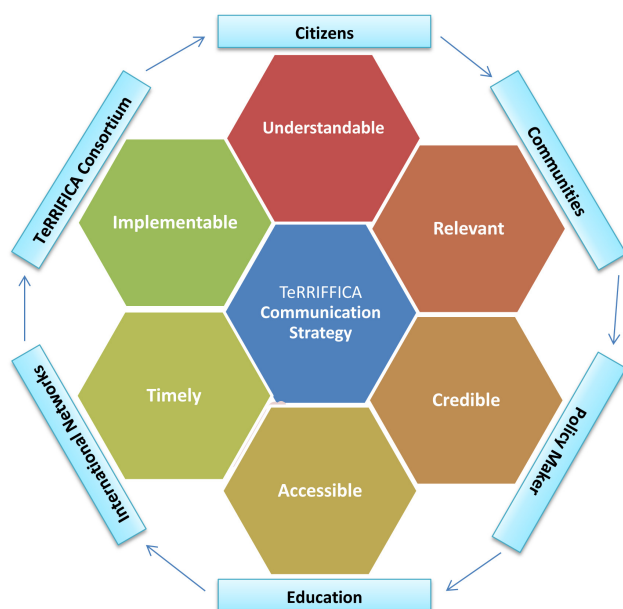


Sharing experiences in climate change adaptation across borders: Stakeholder engagement in TeRRIFICA

Stakeholders, in the broadest understanding, are individuals, groups, institutions or organisations who either influence or will be influenced by TeRRIFICA's activities and outcomes. They will be national and regional experts in research and innovation, environmental protection, civic engagement policies, social innovators or community movement leaders from civil society, academia and education, administration, politics, business and industry, NGOs, and media. Stakeholder involvement will run through three phases, being aware that not every stakeholder needs to be involved at every stage of the process:

Phase 1, the Knowledge Phase, is designed to provide the information base and to encourage to learn and participate. This phase provides time and space for reflexion and discussion about RRI. The experts chosen and willing to participate will support and contribute to the identification of regional needs and priorities and the co-design of the Climate Change Adaptation Plans. TeRRIFICA starts with 3 qualitative and reflective workshops to identify the information needs of the single segments within the target groups. The first one in Bonn addresses RRI and its meaning for climate action and adaptation? What are drivers and barriers of implementation, risks, opportunities and challenges, in terms of acceptance, feasibility, technological limits and regulatory constraints? The second Reflective Workshop in Belgrade will focus on indicators: Which indicators are relevant on local, which on national level, which are overall key indicators? The third workshop will be a 1.5-day Scenario Workshop in Paris on how to adapt citizens' conventions on climate action and adaptation in local and inter-regional (European) contexts. Besides contributing to the development of content the stakeholders' revision of TeRRIFICA's results is highly appreciated.

Phase 2, the Capacity Building Phase, is to reflect about one's own knowledge on topics of climate change adaptation in their context of impact and to design of future visions for a climate-friendly city or region. This is only possible by exchanging the knowledge of actors from civil society, science and local government. During this phase customised training, national stakeholder workshops and field trips are offered.



Phase 3, the Action Phase, will explore possibilities and build future visions of a climatic landscape in 2030. It is about exploiting the possibilities of action suggested by various actors in the pilot cities and regions and beyond. Those future visions will also deliver methodologies and scenarios to be used in other regions.

International reflective workshops, national consultations and summer schools will be the means to learn, to facilitate the work and to exchange within and also between different European countries. The opportunities for actors, administrators or managers to discuss climate

change adaptation with others in contrasting ecosystems and in different countries will surely be perceived to be extremely insightful and valuable for informing their own practice.

The pilot regions - a fascinating blend of cultures

The pilot regions have been carefully chosen to compose a significant panorama of the future adaptability of the results, measures, actions, recommendations and any output from the TeRRIFICA project. Each region or city has its own characteristics and features, contributing relevant aspects to the project's landscape as a whole. With regard of the implementation and the future outreach of this project a bespoke agenda for each region with its individual set of stakeholders is essential for the success. TeRRIFICA operates in a metropolitan area like Barcelona, in capital and major cities like Belgrade, Poznan and Minsk, in the agricultural region of Vechta and Cloppenburg, and rural regions like Brittany, Normandy and Pays de Loire with certain similarities in geography and climate (Spain-Serbia, Poland-Belarus, France-Germany). The difference in the countries scientific potential and infrastructure and different stages of transformation will influence TeRRIFICA's activities. TeRRIFICA will benefit from the exchange between different cultures and their values and differences will be taken into consideration when describing results and impact.

TeRRIFICA regional focus has a specific set of objectives aiming at:

- involving citizens in agenda-setting process corresponding to climate change challenges on the level of beneficiary institutions and regions
- develop Climate Change Adaptation Plans that will lead to institutional and governance change in the territorial context
- create the new tools for governance innovations and decision-making process for climate change
- implement co-created projects within the pilot regions, including facilitation and evolving co-creation methodologies, in order to ensure the sustainability of the projects' actions amongst others. Projects will include various stakeholders: scientists, civil society organisations, businesses and policy makers.
- develop, test and evaluate concrete actions (pilots) focused on mitigation of and adapting to climate change issues on the level of beneficiaries and in the territorial context.

TeRRIFICA's activities finally should lead to a better inclusion of RRI in regional policy contexts on climate change challenges and make RRI environment more inclusive to society.