

TWIST project

Transnational Water Innovation STrategy

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WHY TWIST project?

Weaknesses

- Asymmetry between different TWIST regions in terms of indicators of innovation. Murcia and Alentejo have R&D intensity below 0.5 % of Gross Domestic Product (GDP). Occitanie has 2-3% of GDP; Andalusia, Nouvelle- Aquitaine, have between 1-2% of GDP, while only Lisbon has a level of more than 3% of GDP on R&D&I.
- Scarce experience of the authorities of participating regions in implementing Public Procurement of Innovation (PPI) in the water sector.
- Delay in the accomplishment of some of the WFD 2015 environmental objectives, while an increasing pressure on natural resources.
- Complexity of the network of competency in water aspects, leads to a lack of mechanisms for coordination and transfer of R&D&I capacities among the society-science-policy-industry interface (JPI vision document 2011).
- Wastewater management responsible entities in the regions refer to a lack of knowledge of the potential benefits of innovation and emphasize shortage of technical/scientific means (human resources and equipment), to apply R&D&I processes.

Strengths

- Participation of some research-intensive regions, particularly the region of Lisbon and the region of Languedoc-Roussillon, close to exceed the 3 % target for 2020 for the EU.
- Existence of a significant number of Small and Medium Enterprises (SMEs) which, by its nature, give the productive network adaptability to new macroeconomic scenarios at a time of increasing innovation needs.
- The tendency in all involved regions towards Integrated Water Resources Management (IWRM) at a basin level encourages the Quadruple Helix model used by TWIST project, offering an ideal scenario to support instruments for innovation, such as PPI.

WHY TWIST project?

Threats

- Current skill mismatches are a threat to the region's innovation capacity at a time of increasing technological needs.
- The level of recognition of research in general, and research in water aspects in particular, by the business system is still low. This influences the political process and the process for market uptake of innovations.
- Environmental risks associated to climate change, such as increases in the frequency and severity of extreme events (droughts and floods), exacerbation of water scarcity impacts and degradation of water quality.

Opportunities

- R&D&I contribute to a well-functioning, knowledge-based economy. Having innovation-leading regions in the project, will contribute to pave the way towards increased industrial competitiveness, labour productivity and efficient use of resources. The aim is to reduce the asymmetry between regions with different levels of innovation and technology development.
- The project offers the opportunity to strengthen the role of public authorities in driving business innovation and to establish durable links along the knowledge value chain.
- The European 2020 strategy generates a favorable environment to encourage private investment in R&D&I, to attract and retain qualified human capital to the regions.
- The existence of a strong presence of SMEs in the region's productive sectors is an opportunity to speed up market uptake and economic growth in all regions. The European water sector is of key economic importance, as it offers jobs for hundreds of thousands of citizens across Europe.
- The TWIST project provides an opportunity to support society groups such as women and youth students under 30, by enhancing employment opportunities in the water sector.
- The strategic importance of issues related to IWRM (RIS3, WFD, RDP, Operational Programmes, etc.) make regional and EU investments related to research and innovation relatively safe in all regions.

WHY TWIST project?

- Common challenges:
 - ✓ To facilitate the alignment of regional indicators of innovation.
 - ✓ To improve the skills of all the stakeholders in the water sector on regards innovation processes, mainly, in the following topics: wastewater treatment and reuse and nutrients recovery (circular economy in the water sector).
 - ✓ To boost the use of the untapped PPI tools, through specific training actions addressed to the regional authorities.
 - ✓ To improve the coordination of the actors of the quadruple helix in the innovation chain through an open innovation model.

WHAT? TWIST approach

- Main objective:

Creation of new trans-national and trans-regional associations between stakeholders of the water sector with a high capability for mobilizing existing RTD projects and creation new ones, in order to meet the WFD and the public procurement of innovation (PPI).

- TWIST project creates an **innovative model of organization** → **Living Labs** for the **co-creation, experimentation and evaluation** of innovative products in the field of water management and circular economy.



WHAT? TWIST approach

Synergies between the stakeholders of the quadruple helix both to reinforce the current networks and to impulse the activity of the promoters of innovation in SUDOE regions.

Promotion of RDI in the water sector, exploring new market opportunities for the innovations , through the experimentation in a semi-industrial scale and training.

Strengthening the connection and cooperation between the SUDOE regions for boosting the capitalization of the Research Innovation Strategy RIS3



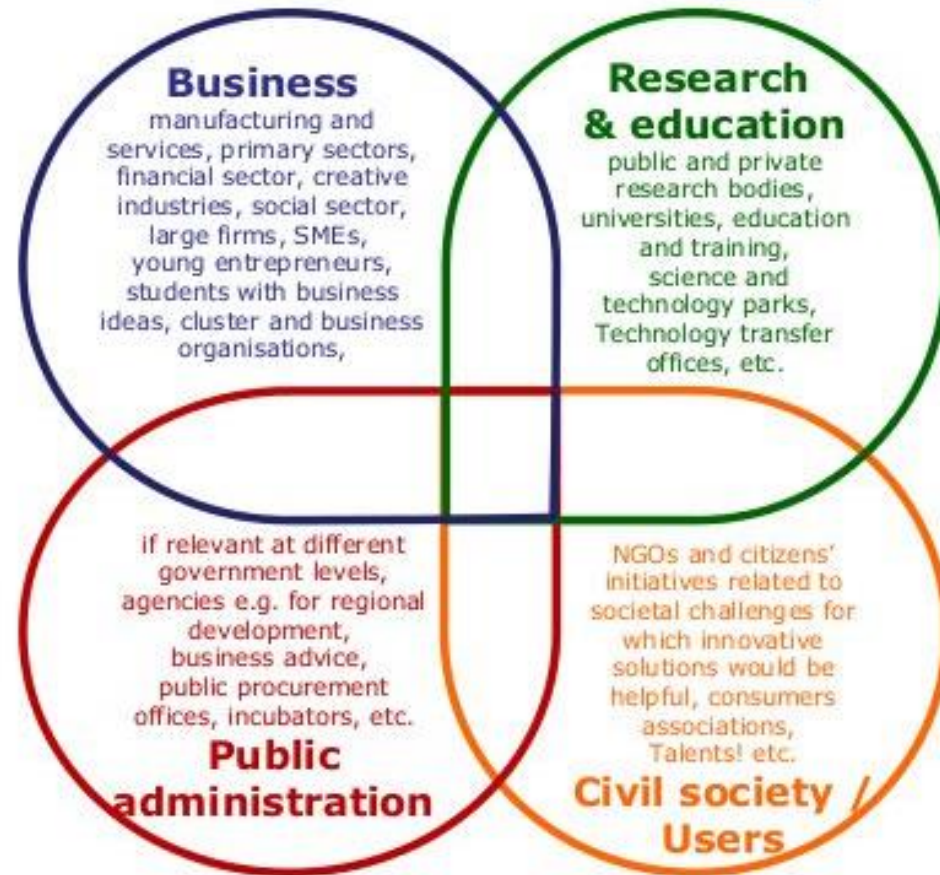
WHICH are the expected results?

- ✓ **Common strategy for the mutual learning and capitalization of RIS3 (1)**
- ✓ **TWIST Living- Labs (3)**
- ✓ **Innovation Public Procurement (3 pilot actions)**
- ✓ **TWIST Market Place (1)**
- ✓ **Transnational Business School (1)**

HOW? TWIST in a nutshell



WHOM is TWIST for?

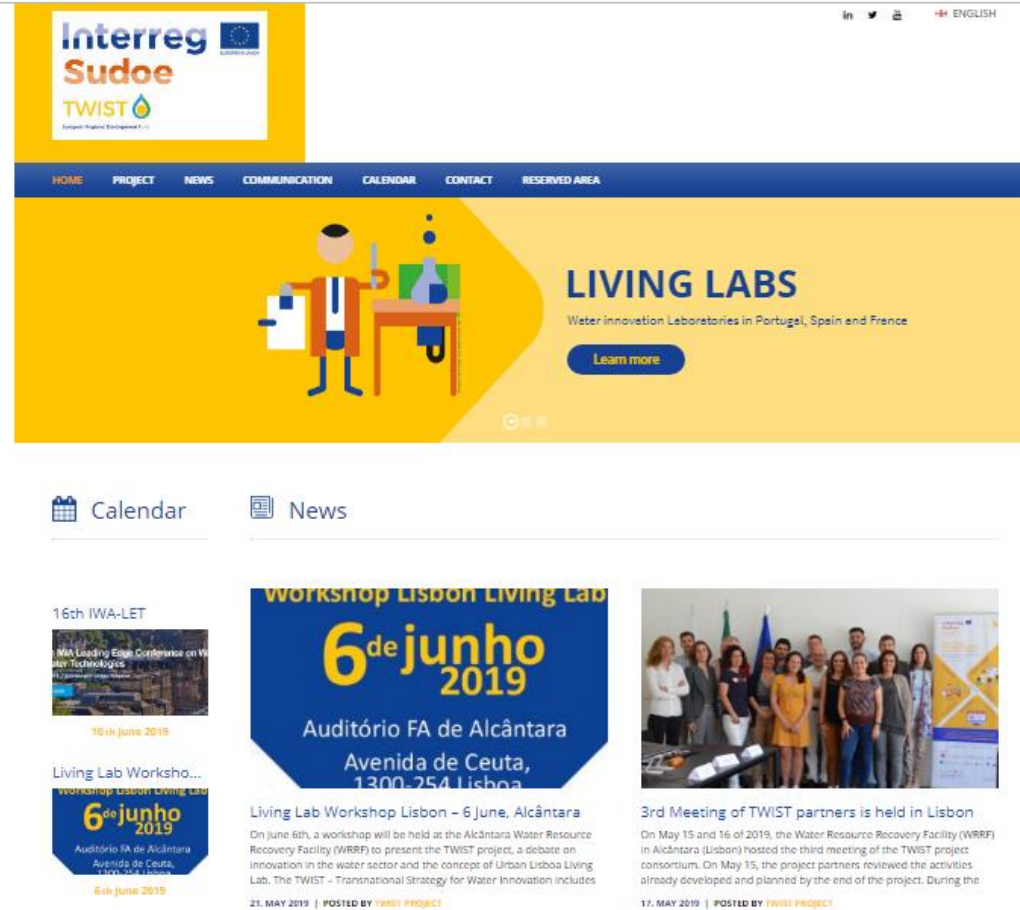


WHO makes TWIST possible?



WHERE you can find more information on TWIST?

www.twistproject.eu



The screenshot shows the TWIST project website. At the top, there is a header with the Interreg Sudoe TWIST logo and the European Union flag. Below the header is a navigation bar with links: HOME, PROJECT, NEWS, COMMUNICATION, CALENDAR, CONTACT, and RESERVED AREA. The main content area features a large yellow banner with the text "LIVING LABS" and "Water innovation Laboratories in Portugal, Spain and France". Below the banner is a "Learn more" button. The left sidebar contains a "Calendar" section with a list of events, including "16th IWA-LET" and "Living Lab Workshop...". The right sidebar contains a "News" section with a list of news items, including "Workshop Lisbon Living Lab" and "3rd Meeting of TWIST partners is held in Lisbon".

Interreg Sudoe TWIST

HOME PROJECT NEWS COMMUNICATION CALENDAR CONTACT RESERVED AREA

LIVING LABS
Water innovation Laboratories in Portugal, Spain and France
[Learn more](#)

Calendar

News

16th IWA-LET
16th June 2019

Living Lab Workshop...
6th June 2019

Workshop Lisbon Living Lab
6 de junho 2019
Auditório FA de Alcântara
Avenida de Ceuta,
1300-254 Lisboa

Living Lab Workshop Lisbon – 6 June, Alcântara
On June 6th, a workshop will be held at the Alcântara Water Resource Recovery Facility (WRRF) to present the TWIST project, a debate on innovation in the water sector and the concept of Urban Lisboa Living Lab. The TWIST – Transnational Strategy for Water Innovation includes

21. MAY 2019 | POSTED BY TWIST PROJECT

3rd Meeting of TWIST partners is held in Lisbon
On May 15 and 16 of 2019, the Water Resource Recovery Facility (WRRF) in Alcântara (Lisbon) hosted the third meeting of the TWIST project consortium. On May 15, the project partners reviewed the activities already developed and planned by the end of the project. During the

17. MAY 2019 | POSTED BY TWIST PROJECT

THE TWIST PROJECT IS CO-FINANCED BY THE INTERREG SUDOE PROGRAM THROUGH THE EUROPEAN

Muchas gracias

Merci beaucoup

Muito obrigado