

Nurturing Adaptive Nexus Compliant Water Policies

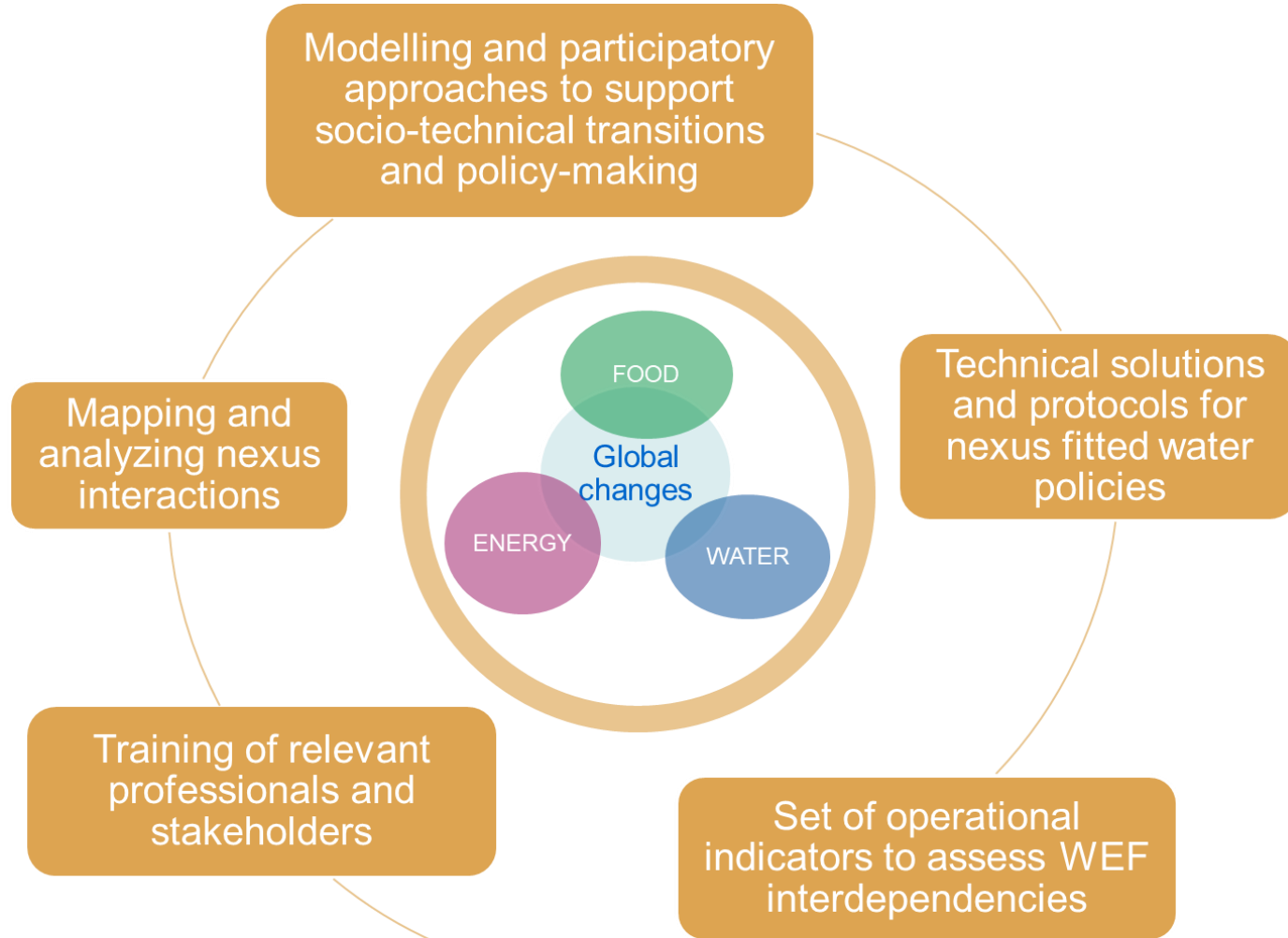
Caroline Lejars



- The demand for water, food and energy is expected to increase by 30–50% in the next two decades (FAO, 2018)
- While the interconnected nature of water, energy and food (the WEF nexus) has been confirmed by several studies there is a relatively limited understanding of how to tackle these complex relationships though assessments and actions (see for instance Pahl-Wostl, 2019; Granit et al., 2012; Scott & Shah, 2004)
- Lack of coordination among policy-makers has led to a low level of implementation of Nexus knowledge within water-related policies
- Increasing calls from both scientists and decision-makers (e.g. State of the Environment Report) to accelerate coordination among sectoral water-related policies.

Aim of our researches

*To improve policy coordination to account for trade-offs
and to build adaptive nexus compliant water policies*





Modelling and participatory decision-support

The backbone of our approaches

Build on simulation techniques and participatory decision-making to enable policy makers and stakeholders to co-design nexus compliant water policies

- ✓ joint exploration of scenarios to enable the anticipation of consequences of a policy
- ✓ concerted territorial approaches
- ✓ a network of actors - from water, energy and agricultural sectors - at basin/regional, national and international levels - involved with :



Support to innovation processes

- Building capacity of stakeholders from different sectors
- Facilitation of individual and social learning
- Monitoring & evaluation (implementation, performance, impacts)

Facilitation of co-design process

- Knowledge capitalization (territorial observatories...)
- Process design (territorial diagnosis, strategic planning sequence...)
- Institutional design (territorial planning bodies, information systems...)



*PACTE project in Tunisia
A 6 years initiative to break-up with
established top-down, sectorial
approaches in regional planning*

- **Operational results to support policy making :**
 - ✓ concrete guidelines and recommendations to WEF policy makers
 - ✓ Strategic policy frameworks, action planning sequences...
 - ✓ dedicated training courses
- **In terms of thematic :** Reuse, solar irrigation ...

Building « water policy shared » in New Caledonia, 2018

A shared strategic policy framework

An operational road map of 800 actions proposed and led by involved stakeholders

[illegible]



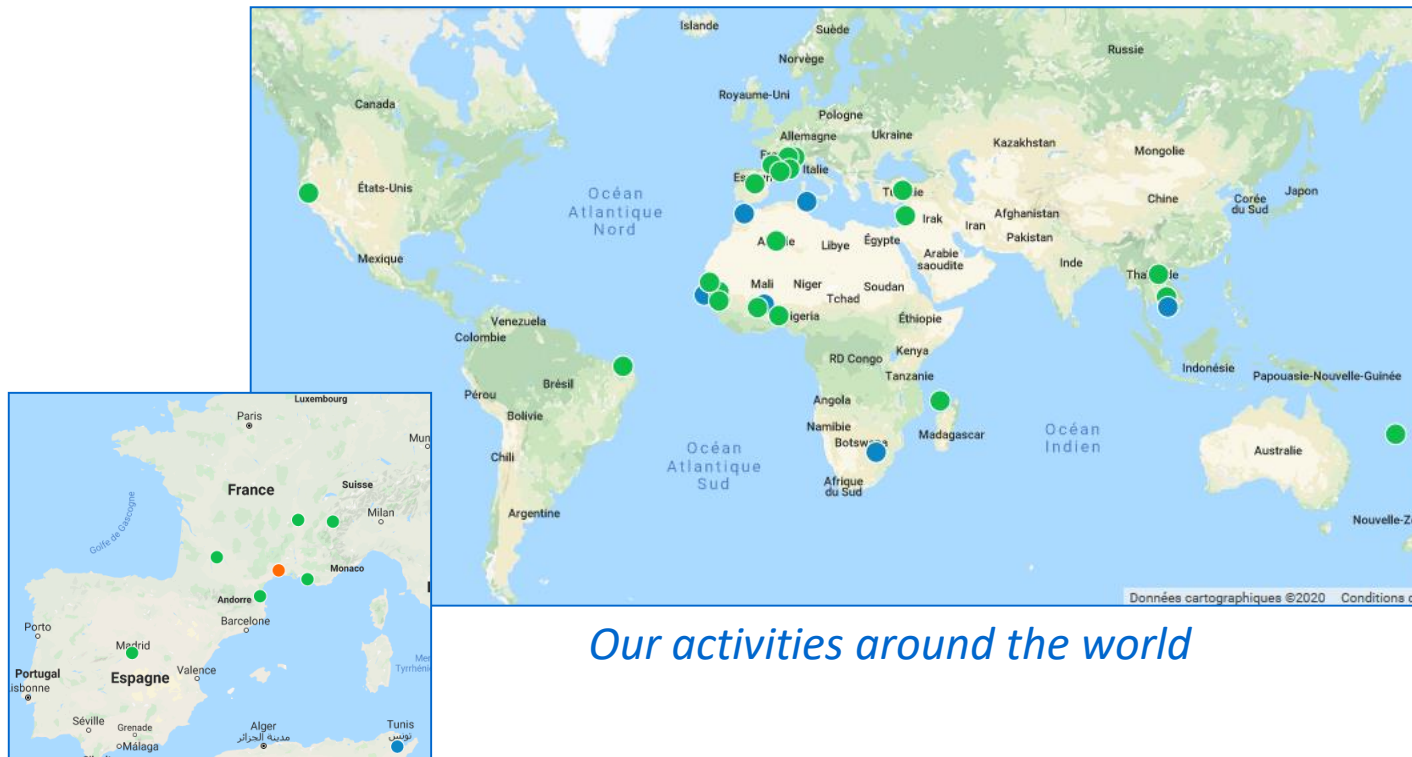
Conclusion : Development of new researches and expertise

Modelling and participation protocols are build on scenarios and simulations, including socio-technical transitions

- **New researches and specific expertise can be required to support stakeholders involved in participatory processes**
 - disciplinary or interdisciplinary approaches
 - From local to national



Thank you for attention



Our activities around the world