

CLIWASEC clustering

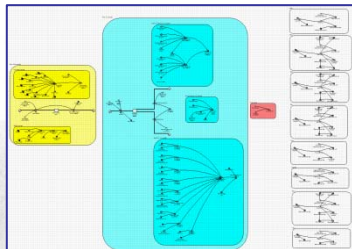
Projects WASSERMED-CLICO-CLIMB

Climate change and water-related security issues

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CLIWASEC- FP7 research cluster

- A research cluster on Climate Change Impacts on Water and Security in Southern Europe and neighboring Countries.



Climate Change Hydro-Conflicts
and Human Security



Climate Induced Changes on the
Hydrology of Mediterranean Basins



Water Availability and Security
in Southern Europe and
the Mediterranean.

- Region at risk because of changes in the hydrological budget and extremes.
- Impacts on the management of water resources and on key strategic sectors of regional economies with implications.
- Capacity to exacerbate tensions, and intra- and inter-state conflict.
- Effective adaptation and prevention measures needed
- Multi-disciplinary approach with stakeholders' participation targeted

CLIWASEC- FP7 research cluster

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Climate Change Hydro-Conflicts
and Human Security



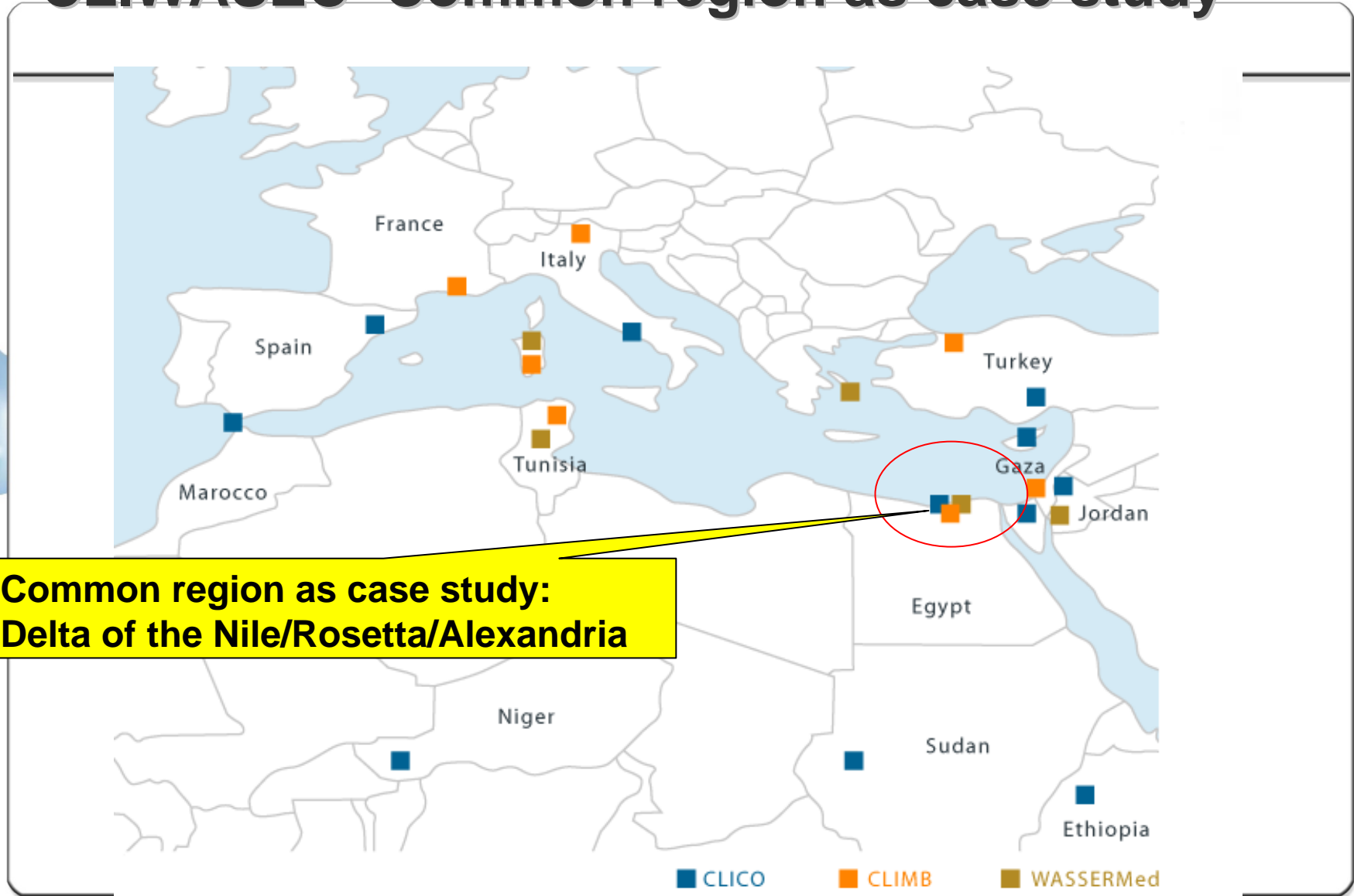
Climate Induced Changes on the
Hydrology of Mediterranean Basins



Water Availability and Security
in Southern Europe and
the Mediterranean.

- Cluster to identify and foster scientific synergies
- To establish a more focused and efficient policy outreach strategy.
- Scientific exchange and review,
- Organisation of joint annual general assemblies,
- Dissemination plan
- Setting up a cluster project web-portal, www.cliwasec.eu
- **Clustering decided after the proposal stage.**

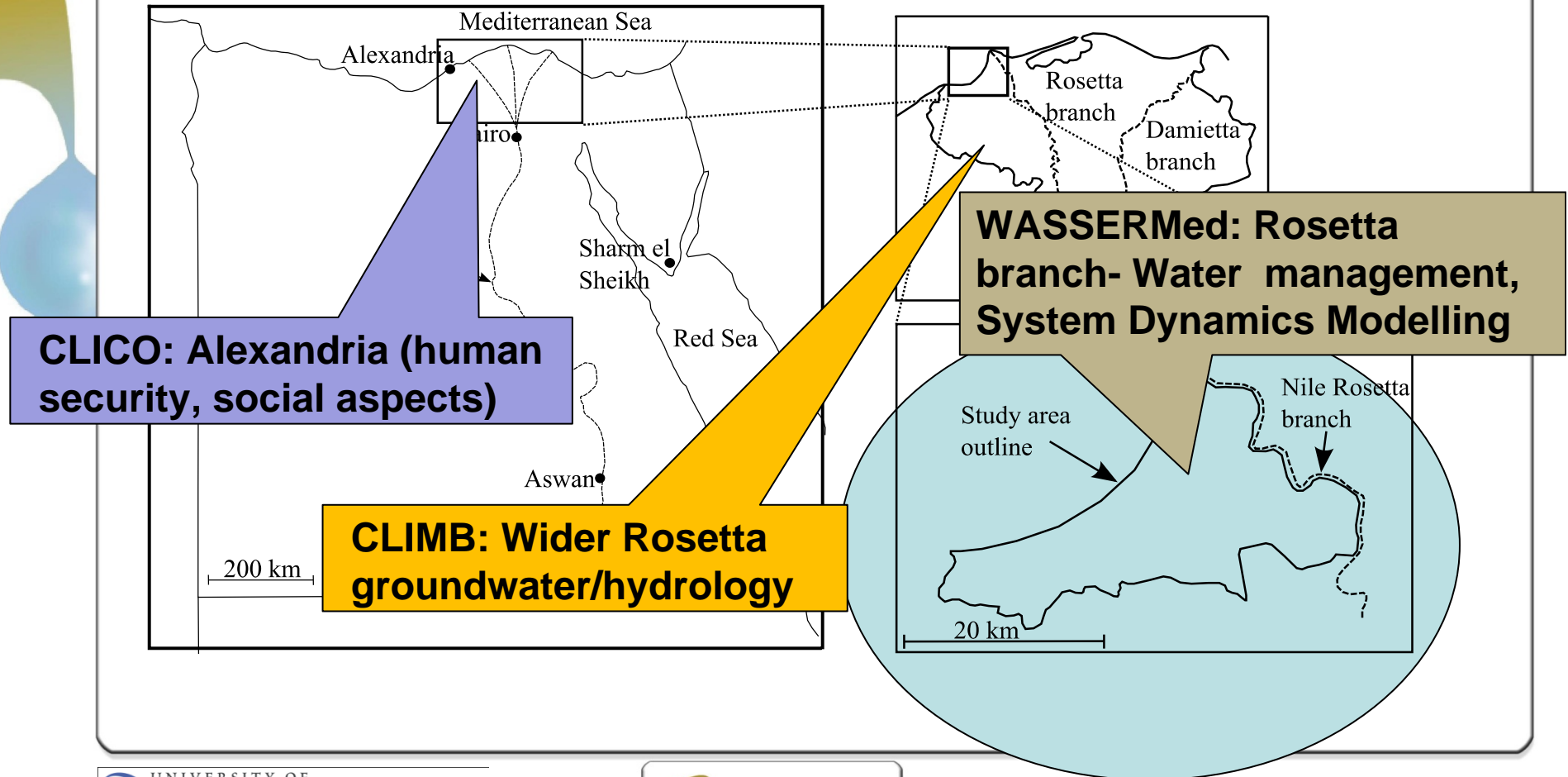
CLIWASEC- Common region as case study



**Common region as case study:
Delta of the Nile/Rosetta/Alexandria**

CLIWASEC- Delta of the Nile

- Delta of the Nile-Rosetta region and Alexandria as common cluster region (but different case studies).
- Common climate change security threat: **Sea-level rise**



WASSERMed:

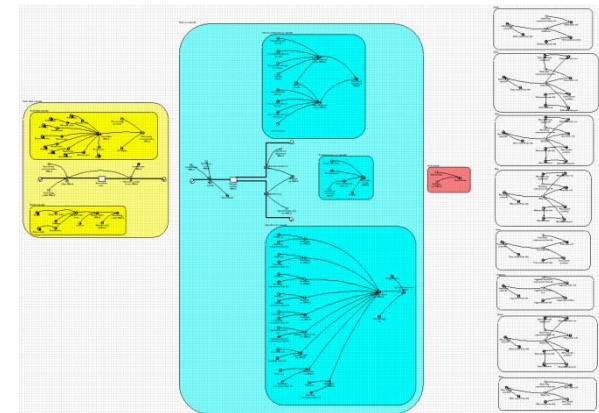
Integrated modelling of a coupled water-agricultural system using system dynamics for the Rosetta region

J.Susnik ⁽¹⁾, L.S.Vamvakeridou-Lyroudia ⁽¹⁾, D.Savic ⁽¹⁾, Z.Kapelan ⁽¹⁾

Cooperation: M. Roushdi⁽²⁾, A. El-Ganzori⁽²⁾

⁽¹⁾ Centre for Water Systems, University of Exeter,

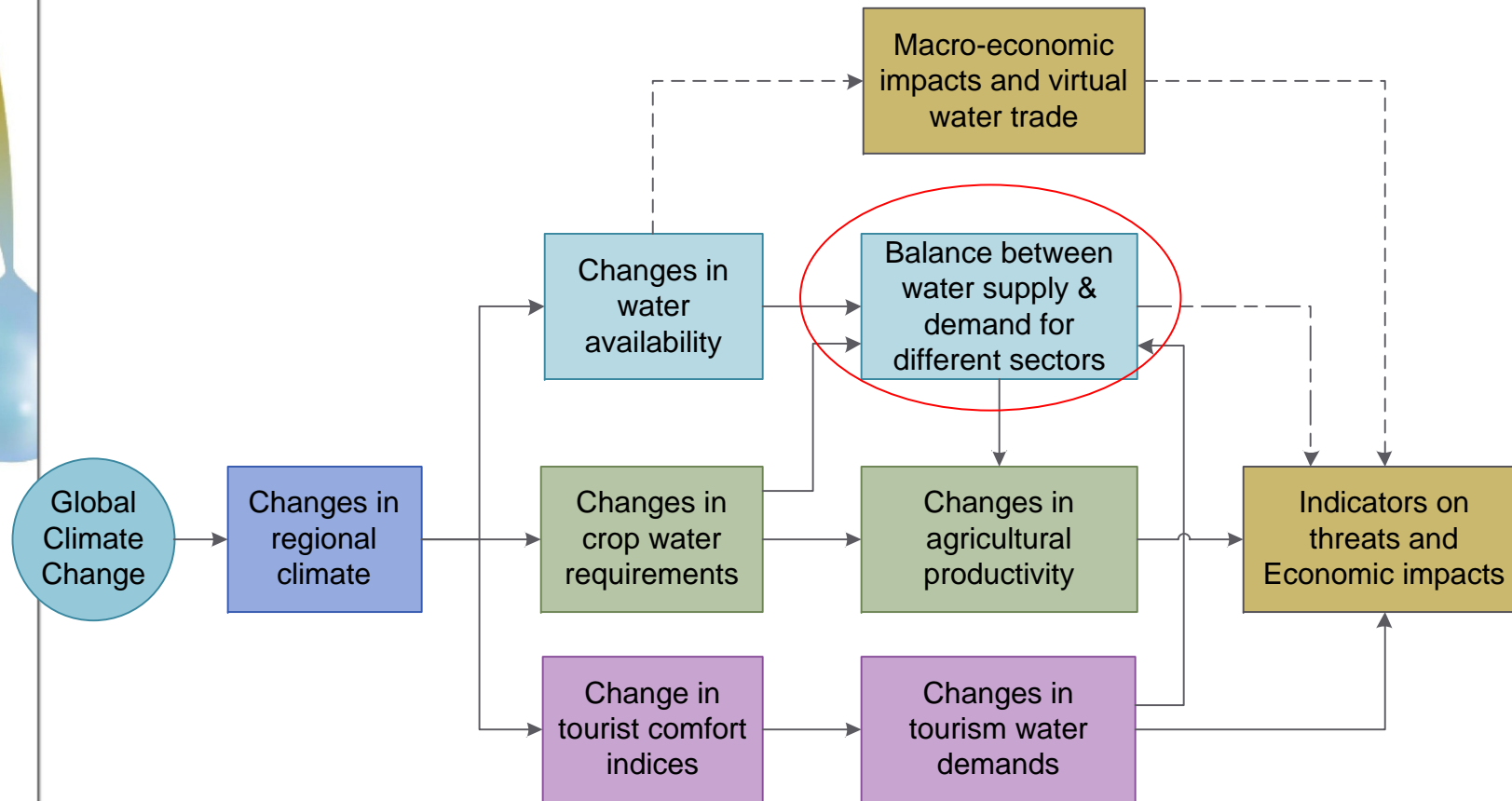
⁽²⁾ Environmental and Climate Changes Research Institute, Delta Barrage, El-Qanatir, Egypt



Partners from non-EU countries

- All three projects included partners from countries outside the EU (WASSERMed, CLICO, CLIMB)
- As formal requirement of the call
- Because of the case studies (at least two from outside the EU)
- WASSERMED had partners (and stakeholders) from Egypt, Tunisia, Jordan
- All cooperated actively
- By providing data, input and feedback
- By participating in the building of the SDM models
- **Conclusion:** This part worked quite well

WASSERMed: Working Framework & Challenges

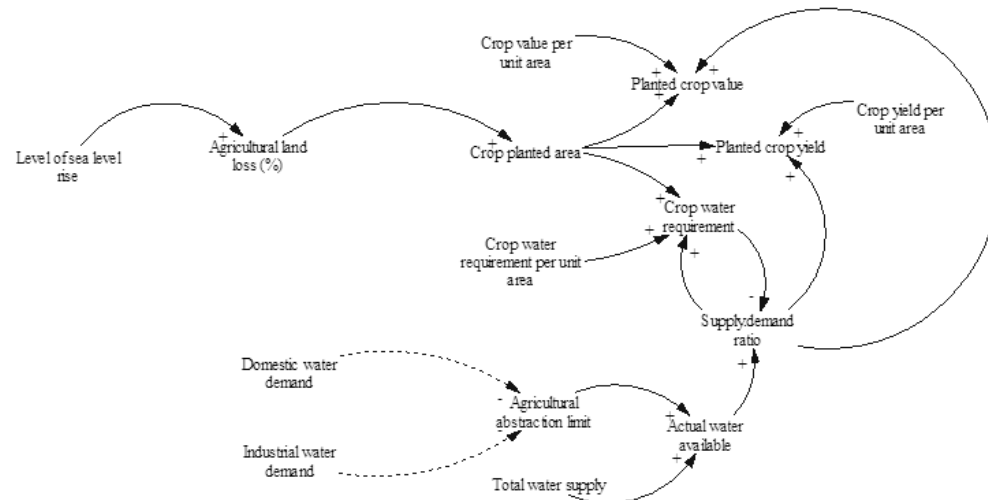
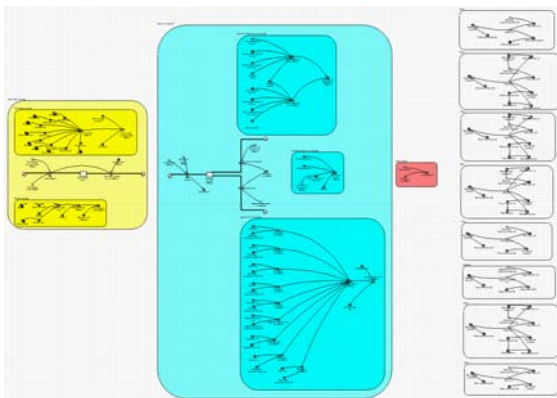


Interdisciplinary approach in practice

- Three proposals/projects submitted WASSERMed, CLICO CLIMB
- Clustering decided after the three projects had been selected for funding
- As a result not enough resources available for inter-project cooperation
- Three different case studies in the Nile region
- No common stakeholder panel
- No possibility to alter the case studies after the project started
- As a result: three different approaches but not fully implemented interdisciplinary approach
- Common annual assemblies/events (Sardinia, Marseilles) for dissemination
- Common paper in the end (CEST 2013)
- **Conclusion:** Good initiative, but we could get more out of it.

Lessons learned for the future

- Cooperation and interdisciplinary approach to be decided from the start at proposal stage
- OR at the latest during negotiation stage
- We (WASSERMed) could have profited from it
- By having social sciences approach to our case study
- Moreover the methodology applied (System Dynamics Modelling) is very suitable for interdisciplinary approach





Thank you for your attention !