WP4 Activities

URBAN WATER: EU/USA COMMON MODELS

CNRS PARTICIPATION

SWAN 5th Progress Meeting
SUMMARY

• WP4 Goal
• WP4 PROGRAM
• WP4 in relation with partners and other work packages
• Tasks in the responsibility by CNRS personnel and contractual within WP4 and within other WPs
WP4 Goals

• to **expand** one of the main thematic areas of the UMI 3157 “Water and urban development”
• to prepare the “urban water **agenda**” for the Transnational Dialogue
• to develop an **integrated urban water approach** (water supply and sanitation networks from water resources to the environment protection)
• to identify **key scientific and technological themes relevant to the field** and evaluate existing capacities within these thematic areas and identifying gaps.
Time framework

• Notice that as the Gantt chart shows (p.8/38 DOW) the greater intensity of work is concentrated in year 2 and 3. In particular, WP4 has its main activity during years 2 and 3rd
WP4 relations with other Wks

- WP4 has a total of 90 m-m participation distributed as follows:
- CNRS: 15 m-m
- UA: 8 Mm-m (Valdés Technical report)
- UWE: 15 m-m
- USE: 16 m-m
- BAS NIGGG: 25 m-m (Nedkov, Yaneva, Trenkova): starting with a shared space, Pantano Watershed ( / Rita Ranch example. (See boundary question as presented by S. Harris)
- IHE 11 m-m (L.Hayde): in progress with participation of IHE students and seminar preparation.
Tasks

• WP4 is organized in 3 tasks and each task has its interrelations with the other workpackages and partners.
Task 4.1 Rethinking Urban Water: the need for an integrated approach

• Sociological approach of water issues:
  - Working paper « The Central Arizona Project and the Stalemates of Water Management in the USA ». Murielle Coeudray, Franck Poupeau + Joan Cortinas, Brian O Neil
Task 4.1 Rethinking Urban Water: the need for an integrated approach

- A team composed by Wk1 (JValdes) and Wk4 (G.Schneier-M.) and associates from UA (T.Maddock III, Stuart Marsh, Kyle Hartfield) and stakeholders Ed Curley, and Eric Wieduwilt and former UMI students (D.Clavreul, D.Duczinski) are currently working on a Technical Report on «Challenges of Urban Growth, Water and Wastewater: the Southern Arizona Story”
- They have picked interesting illustrations within the basin case to obtain data and to compare it.
• Department of Hydrology and Water Resources, The University of Arizona, USA
• Centre de Recherche et Documentation sur les Amériques, CNRS/Université Paris 3 Sorbonne-Nouvelle
• School of Natural Resources and the Environment, The University of Arizona, USA
• Arid Land Studies, The University of Arizona, USA
• Regional Wastewater Reclamation Department, Pima County, Arizona USA
• Planning and Engineering, Pima County Regional Wastewater Reclamation Department, Pima County, Arizona USA
Task 4.1 Rethinking Urban Water: the need for an integrated approach

• **CNRS/IHE** collaboration in progress with participation of IHE students and a joint seminar preparation (location to decide).
Task 4.1

• Elaboration of a transdisciplinary framework: the Observatory Man-Environment (OHMI, kick off meeting Novembre 17th 2014): in collaboration with the Contaminant Transport Group (UoA: Marc Brusseau, Jon Mainhagu, Kayla Vigogne)

Researchers involved: Franck Poupeau, Murielle Coeurdray
Task 4.2 Development of a geo-spatial database and visualization tools

• Deliverable 4.5 (supplement) on “Water and Urban Growth: a remote sensing approach in TMR” has been submitted (See website)

• Current work by BAS NIGGG on Supply&demand of ecosystem services in Pantano Wash contributes to this task.
**Task 4-3: Urban Water Stakeholders participation: (Months 12-36)**

- The TR includes two stakeholders – E. Curley, E. Wieduwilt from Pima County RWRD. Meetings are regularly hold with all the associates. This also involves exchanging of information and drafting future Seminar involving IHE students who are in a majority professionals engaged in their home country.
WP4 tasks 4.1 - 4.3

- Participation in the coordination of Wednesday meetings, Tucson Basin Case Study. (A.Serrat C.)
- Developing ideas for assessment of the Tucson Basin vulnerability to changes in water supply (CAP changes + climate change).
Wk4 in Wk1

• Unpacking Adaptive Capacity for Water Security primer.

• Networking activities with WB, OECD, AGWA, ICIWaRM.
UA – UNESCO-IHE collaborations

- Water Management & Stakeholder involvement - Kenya
SWAT model forced by bias corrected CMORPH mimicked fairly the seasonality the observed flow of the Nyangores in Bomet Basin water balance components

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