State of the Art Knowledge Hub

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FORMAS
2017-03-22
1st Water JPI Knowledge Hub Workshop
Lessons learned from previous knowledge hubs

- EXPERIENCES NORDIC FUNDING AGENCIES’ EXCELLENCE CENTER
  - SWEDISH NATIONAL KNOWLEDGE CENTRE FOR PUBLIC TRANSPORT – K2

- COST ACTION
  - ES1205 [HTTPS://WWW.ES1205.EU/](HTTPS://WWW.ES1205.EU/) “FROM WASTEWATER TREATMENT & STORMWATER TO RIVERS
  - ES1403 [HTTP://WWW.NEREUS-COST.EU/](HTTP://WWW.NEREUS-COST.EU/) NEW & EMERGING CHALLENGES AND OPPORTUNITIES IN WASTEWATER REUSE

EXPERIENCE KNOWLEDGE HUB: FACCE-JPI MACSUR [HTTP://MACSUR.EU/](HTTP://MACSUR.EU/)
Experiences from VINNOVA EXCELLENCE CENTER

• Productive VINN Excellence Centres
• Multidisciplinary collaboration and innovative leadership
• Mobility, exchange and research collaboration between industry and academia
• Internationally established and sought after
### Experiences from SWEDISH NATIONAL KNOWLEDGE CENTRE FOR PUBLIC TRANSPORT – K2

<table>
<thead>
<tr>
<th><strong>The centre will be a new platform and a hub initiation research and development</strong> for public transportation.</th>
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<tbody>
<tr>
<td><strong>The centre will provide a deeper collaboration</strong> between the actors in the public transportation, government and universities and institutes.</td>
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<td><strong>The center will provide a close collaboration between the actors of the public transportation and the public transportation in the big cities.</strong></td>
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<td><strong>The center will participate in international networks and collaboration.</strong></td>
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<td><strong>The collaboration within the centre will provide deeper knowledge within the area of public transportation by practical and higher education.</strong></td>
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<td><strong>Other stakeholders</strong> (public transportation companies, industry, performing companies and more) will be invited as full partners into the centre.</td>
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<td><strong>After 5 years full activities the centre will be a well known and acknowledged international competence hub.</strong></td>
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Experiences from Cost action

- COST ACTION ES1205
  HTTPS://WWW.ES1205.EU/
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  NEW & EMERGING CHALLENGES AND OPPORTUNITIES IN WASTEWATER REUSE

- Well known
- Good results from networking
- Instrument from EC
- National funding will be topped by EC funding
Experiences from Macsur Procedure and best practices

Aims for the Knowledge Hub

- It is important to develop a clear aim of the Knowledge Hub.
- Macsur: Networking, research excellence and capacity building.
- Macsur is focusing excellent research and by researcher’s collaboration existing research will be transferred to stakeholders and new knowledge is created.
Experiences from Macsur
Procedure and best practices

Structure

- **A flexible network** – participants have been selected, invited and approved after their interest.
- **Research driven** - The researchers have expressed that the support from funders creates a positive way of working together with other researchers “a nice way to work together”. Partners are eager to collaborate. Creates a *flexibility* of the network.
Experiences from Macsur

Procedure and best practices

Organisation

- The Knowledge Hub is Coordinated by the researchers.
- The researchers select the coordinator for the Knowledge Hub and for the different themes.
- **Started by a Call** - The first participants were selected by the FACCE-JPI *Call with funds for participants travelling and networking from funding agencies.* Many researchers participating in Macsur have their *roots in a Cost Action.*
Experiences from Macsur
Overall strengths of the tool

*Strong and flexible network of scientists*

- Knowledge transformation (between the three different research areas in the Hub)
- New knowledge
- Trust building and mutual understanding
- Value for Stakeholders through its societal impacts for example Policy-relevant outcomes
Experiences from Macsur
Overall strengths of the tool

- Effective capacity building
- Joint training – young and senior researchers support for junior researchers
- Opportunity for less research-intensive countries to pick up on current trends and methodologies
- Adoption of good-practice examples from other participating scientific communities
- Fosters its researchers’ involvement in the international community
Experiences from Macsur

Overall strengths of the tool

*Greater cost-effectiveness*

- Joint activities
- High leverage and return on investment
Experiences from Macsur

Overall strengths of the tool

- *Increased visibility and influence*
- A network that represents Europe
- National researchers increase their visibility
- The Knowledge Hub is raising awareness of the potential impacts of Climate Change on….
- Interaction with stakeholders
- Policy-relevant outcomes
- Influence national research programs
Experiences from Macsur
Overall strengths of the tool

- **Successful outputs**
  - Research papers
  - Reports
  - Policy Briefs
  - Presentations at workshops and conferences
  - New projects funded
  - …..
Experiences from Macsur

Overall weakness of the tool

- Funding limitations
- Decentralized funding
- In-kind funding
- Additional funding is required for organizational tasks
Experiences from Macsur

Overall weakness of the tool

Constraints regarding intellectual property

Restrained scientific community

- A Knowledge Hub is not easily adapted to a very large community of researchers and more efficient when focusing a narrow area.

Questionable sustainability potential

- 3 years is short regarding the scale of research and does not sufficiently allow scientist to project their activities into the future
Experiences from Macsur
Procedure and best practices

• Three phases of Macsur development
  • Phase 1: Call and important amount of funding (3 years 2012-2014)
  • Phase 2: More money from funding agencies to existing research members of the KH (3 years 2015-2017)
  • Phase 3: under discussion now: the question is how this phase can be funded, from Institutions and Universities?
Organisation of the Water JPI Knowledge Hub – research driven Knowledge Hub create flexible Knowledge Hub

Funding for participants travelling and networking costs are crucial for the performance of the Knowledge Hub

Aim for the Knowledge Hub – It is important to have strategy for the Knowledge Hub and develop the aim for it

Emerging pollutants in one of the key research topics in SRIA.

Stakeholder engagement and efficient use of research results are important aims of the Water JPI
Water JPI Knowledge hub

- The Water JPI knowledge hub is for transferring scientific results to the stakeholders. At the same time scientists get feedback from the stakeholders what their needs are. In a way this knowledge hub goes to the next step compared to Macsur.
Activities and timetable 2017

1st Workshop
22 March

GB10
5 April

Alignment meeting

Funders meeting
Web-ex

Funders meeting
Web-ex
## Working Groups – breakout sessions

Rapporteur: Rui Munha, FCT

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<tr>
<th>Áine</th>
<th>Murphy</th>
<th>EPA, Ireland</th>
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<tr>
<td>Agathe</td>
<td>Euzen</td>
<td>Water JPI STB, LATTSCNRS</td>
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<td>Carla</td>
<td>Garcia Dumay</td>
<td>Irstea, France</td>
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<td>Dominique</td>
<td>Darmendrail</td>
<td>Water JPI Coordinator</td>
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<td>Graham</td>
<td>Leeks</td>
<td>NERC CEH, United Kingdom</td>
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<td>Margaret</td>
<td>Keegan</td>
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<td>Teppo</td>
<td>Vehanen</td>
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Rapporteur: Kata-Riina Valosaari, AKA

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<tr>
<th>Alessandro</th>
<th>Lotti</th>
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<td>Dermot</td>
<td>Diamond</td>
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<td>Floor</td>
<td>Brouwer</td>
<td>MACSUR, Netherlands</td>
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<td>Gilles</td>
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<tr>
<td>Maurice</td>
<td>Heral</td>
<td>Water JPI Chair</td>
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<tr>
<td>Osman</td>
<td>Tikansak</td>
<td>SUEN, Turkey</td>
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<tr>
<td>Sibongile</td>
<td>Mavimbelo</td>
<td>WRC, South Africa</td>
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Rapporteur: Ester Diez Cebollero, Irstea

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<td>Elif</td>
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<td>Jan</td>
<td>Huinink</td>
<td>Min EZ, Netherlands</td>
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<tr>
<td>José</td>
<td>Matos</td>
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<tr>
<td>Padraic</td>
<td>Larkin</td>
<td>Water JPI Co-Chair</td>
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The impacts of creating a Knowledge hub

1. Go to http://macsur.eu/index.php/output
2. Discuss different output from Mascur
3. Identify relevant impacts of the 1st WaterJPI Knowledge Hub

A. Water JPI funders selected topic: Emerging Pollutants – develop the impacts based on the SRIA 2.0

B. Researchers

C. Stakeholders
  - Government
  - Politicians
  - Public organizations
  - Water industry
  - Citizens

Examples of results/outputs
- Open data
- Data sources
- Meta data
- New knowledge
- Scientific report
- Reports
- Policy briefs
- Country Flyers…
Models for funding the Water JPI Knowledge Hub

- Three scenarios – their benefits and threats
- Selection processes and stakeholder involvement
Three scenarios – their benefits and threats

- A – Partners let researchers use national fundings (10% for international collaboration. The projects are selected by national evaluation panels.
- B – Partners invite researchers directly from different horizons (Water JPI funded projects, national / regional projects, other JPIS, H2020, COST Actions ...) for networking and developing new cooperation.
- C – Partners launch a call with national fundings. Partners may invite researchers that send in the proposal together and the researchers design the Knowledge Hub with fundings from WaterJPI (bottom-up approach)