Connecting Climate Knowledge for Europe

JPI Climate

P. Monfray, JPI Climate Chair
Brussels, October 22nd, 2015
SRA 2011-2015
4 Themes

1. Moving towards decadal climate predictions
2. Climate services research
3. Socio-ecological context knowledge
4. Decision-making tools

Integrated climate knowledge and decision-support services for social innovation

- Innovation
- Multi-sectoral multi-level integration
- Stakeholder participation
- Action perspectives
- Sustainable transformation of society
Some Fast Track Activities

- Decadal prediction
- EU strategy for climate modelling
- Changing cryosphere
- Mapping users’ requirements
- Mapping EU Climate Services Providers
- Impact modelling/ISIMIP
- GHG verification
- Economic evaluation of adaptation & mitigation
- Facilitating Social Science contributions to Climate Change Research
About transnational calls

15M€ Call 2015 with Belmont >

<<< 75M€ ERA4CS 2016-20
13 RFOs (cash)
28 RPOs (align)

<<< 9M€ Call 2013/14
Climate Services

Climate System Science

Service demand

User Communities

Observation & Database

Model simulations
- Week-Month as WGSIP, THORPEX
- Year-Decade as DCPP
- Decade-Century as CMIP
- Reanalysis as ERA-40

Earth System Models

Socio-economic scenario models

Climate information & knowledge

Operational production
- as Copernicus CCS

Climate Information Translation
- Regional Downscaling as CORDEX
- Climate Impacts models
- Socio-economic impacts models

Translation/Broker Services (incl. adaptation)

Integration & Quality Assessment/Labelling
+ HSS to analyze interaction & promote dialogue

Governments – International, national, local

Public / Society

Business/commercial – International, national, local

H2020 SC5

2015 JPI Climate

COPERNICUS CCS

Proposed ERA4CS

KIC Climate
Updated SRA 2016-2020

Not approved
Don’t quote!
Climate imbrication with others global changes & SDGs

Links between the 16 Sustainable Development Goals
2015 UN Global Sustainable Development Report

Services & Policies to face CC cannot be developed isolated from others SDGs
Vision and Mission

• Overall
  – Interaction and integration between research, policy, innovation and practice
  – Connectivity between realms of climate research, learning and innovation
  – Co-development of EU Roadmap for Climate Services

• Tools
  – Platform to tackle climate change into the wider demographic, environmental, social and political contexts
  – Knowledge-based information & qualified services to prevent and adapt
  – Assessment of best practices in public and private sectors

• Actors
  – Enhance and coordinate climate science and climate adaptation research
  – Attract humanities, economical, social and behavioral sciences
  – Engage user communities through targeted co-creation approaches

• Cooperation
  – Cooperate with sectorial research for climate impact and resilience
  – Bridge between national, European and international initiatives
  – International cooperation with developing and emergent countries (Africa, Latin America...)

3 proposed challenges

• CHALLENGE 1: Promoting climate change research serving decision making

• CHALLENGE 2: Systemic Connection of People, Problems and Solutions

• CHALLENGE 3: Pathways to a climate-friendly and climate-resilient Europe
FPA : an opportunity for transverse and pluri-annual vision

Long term additional activities (e.g. International CSA)

Cof 1
Cof 2
PC Annual Approval
PC discussion: Prevision for the upcoming 2 years
PC communication: Envisaged ERA-NET Cofunds

Reserve: Emerging issues / Emergencies issues

>>> SGA should be also pluri-annual but budget annually committed
FPA : some questions

• FPA rights and duties?
• FPA coordinator?
• Variable co-funded rate from 33 to 50%?
• Multi-instrumental vision (incl. CSA, R&I, Infrastructures...)?
• RPOs amendment in 2018+ ?
• 1 SGA for 2017 + 1 SGA for 2018-20?
• GPC link?
• SC2 link?
• Other tbd...
Thanks for your attention
Mapping various themes in one matrix?

<table>
<thead>
<tr>
<th>TO CORRECT/CONSOLIDATE (row solicitation towards column)</th>
<th>JPI Water</th>
<th>JPI Climate</th>
<th>JPI Urban</th>
<th>Biodiversa</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPI Water</td>
<td>Africa, India, Internat. CSA Closing water cycle gaps</td>
<td>Water regional changes, Copernicus incl. Africa</td>
<td>Extreme events &amp; risks</td>
<td></td>
</tr>
<tr>
<td>JPI Urban</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NORFACE</td>
<td>Biodiversity &amp; CC: impacts and feedbacks across Europe</td>
<td>nature-based solutions in (peri)urban</td>
<td>International CSA</td>
<td></td>
</tr>
<tr>
<td>TO CORRECT/CONSOLIDATE (row solicitation towards column)</td>
<td>JPI FACCE</td>
<td>JPI OCEANS</td>
<td>JPIs Health</td>
<td>Belmont Forum &amp; others intern. Initiatives</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td>-------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td><strong>JPI Water</strong></td>
<td>Food security (Africa)</td>
<td></td>
<td></td>
<td>?</td>
</tr>
<tr>
<td><strong>JPI Climate</strong></td>
<td>Greenhouse Gas Verification</td>
<td>Ocean data acquisition and assimilation</td>
<td>Contribution to SDG?</td>
<td>Global &amp; Regional climate modelling</td>
</tr>
<tr>
<td><strong>JPI Urban</strong></td>
<td></td>
<td>2016/FEW for Sust. Global Urbanization</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biodiversa</strong></td>
<td>x</td>
<td>Nature-based Solutions for one health</td>
<td>2017/Biodiversity and Ecosystem Services Scenarii for IPBES?</td>
<td>x</td>
</tr>
<tr>
<td><strong>NORFACE</strong></td>
<td></td>
<td>2016/Transformation to Sustainability</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Not validated at all but to trigger discussion!