

CIRCLE-2 Research Agenda: How to cooperate and identify policy relevant CCIAV science?

CIRCLE Final and Outlook conference

<September 10th 2009>

<Markus Leitner & Martin König>

<1>

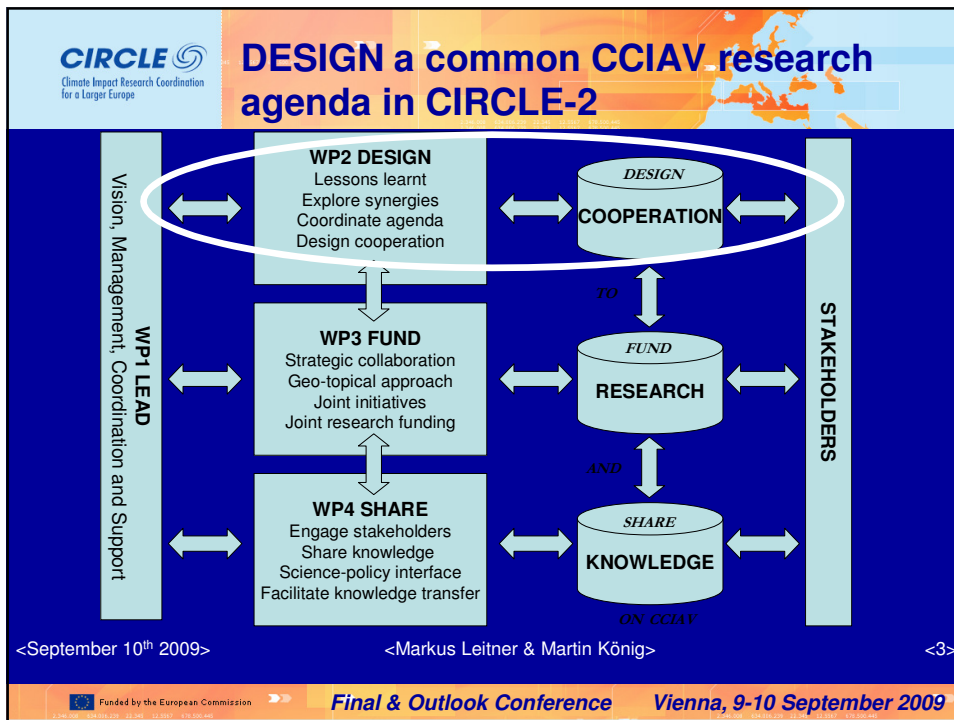
guiding questions

- Why is it necessary to develop a joint research agenda for CIRCLE-2?
- How far did CIRCLE get with its priority list of common CCIAV research topics and what did we learn?
- What were the experiences from setting up joint call topics?
- Which approaches could we choose for the CIRCLE-2 research agenda / WP DESIGN?

<September 10th 2009>

<Markus Leitner & Martin König>

<2>



- CIRCLE**
Climate Impact Research Coordination
for a Larger Europe
- ## The importance of a joint CIRCLE-2 research agenda
- A mid- and long-term cooperation for common CCIAV research funding needs a thematic strategy
 - Purely ad-hoc funding of projects without a strategy in the background reduces the impacts of project results in the long run
 - The research agenda might also help us to find real common topics for a bigger (more pan-European) call
 - To adjust CIRCLE-2 continuously and thus to cooperate with other ERA-Nets, the joint programming initiative or towards Art. 169, we must have a concise and coherent agenda, on where we want to go
- <September 10th 2009> <Markus Leitner & Martin König> <4>
- Funded by the European Commission **Final & Outlook Conference** **Vienna, 9-10 September 2009**

The CCIAV priority list of CIRCLE (red hot chilli pepper list)

- The process:
 1. Evaluating the (international) research landscape
 2. Structuring the key topics and sub-topics
 3. Weigh and prioritise the importance
- The outcome:
 - A red hot chilli pepper list of the most important international CCIAV topics with a quantitative matrix
 - But not an agreement that this list is the base for a common research agenda for CIRCLE

<September 10th 2009>

<Markus Leitner & Martin König>

<5>

The CCIAV priority list of CIRCLE (red hot chilli pepper list)

- Key Areas and topics identified:

Topic area	Topic
Practical Use	<ul style="list-style-type: none"> ➤ How to bridge the gap between research and political as well as practical implementation? ➤ How to bridge the gap in scale from European-wide research efforts and specific local implementations? ➤ Analyse interactions between different sectors across Europe
Water	<ul style="list-style-type: none"> ➤ Fresh water shortages Competing uses: domestic, industrial, hydropower, navigation, agriculture
Urban Areas	<ul style="list-style-type: none"> ➤ Coping with heat waves ➤ Coping with hazards, e.g. flooding

<September 10th 2009>

<Markus Leitner & Martin König>

<6>

The CCIAV priority list of CIRCLE (red hot chilli pepper list)

Topic area	Topic
Agriculture	<ul style="list-style-type: none"> ➤ Combined pressures of socio-economic, legal, land use and climate change, ➤ More frequent droughts, extreme rainfall events, soil erosion, increased variation in/loss of productivity
Coastal zones	<ul style="list-style-type: none"> ➤ Sea level rise and European coasts. e.g. salt water intrusion, loss of wetlands, safety of coastal infrastructure
Insurance & Finance	<ul style="list-style-type: none"> ➤ New risks and changed hazard probabilities
Forestry	<ul style="list-style-type: none"> ➤ Managing the carbon balance of forests
Health & Quality of Life	<ul style="list-style-type: none"> ➤ Heat waves, floods, water shortages, power failures, new/increased vector borne diseases

Download available at: [CIRCLE Research topic list](#)

<September 10th 2009>

<Markus Leitner & Martin König>

<7>

Approach to identify the research needs for the MOUNTAIN call

- Research needs identified by the research initiatives (e.g. Alpine Conference, MRI, COST, Science for the Carpathians);
- Research needs emerging from national and EU projects (e.g. FP, INTERREGs);



<September 10th 2009>

<Markus Leitner & Martin König>

<8>

Approach to identify the research needs for the MOUNTAIN call

- Key research issues in mountainous areas related to climate change, based on publications' survey;



<September 10th 2009>

<Markus Leitner & Martin König>

<9>

Approach to start the process for a CIRCLE-2 Research Agenda

- The research agenda has to bear in mind:
 - Different sets of impacts across Europe
 - Different administrative settings of CCI/AV programmes
 - Different importance of economic sectors
 - Different geopolitical interests
 - Different settled themes
 - Different timetables for available funding and decisions by e.g. Scientific Boards
- That is why we would call for a “sectoral-flexible multi-/ trans- national” approach

<September 10th 2009>

<Markus Leitner & Martin König>

<10>

The sectoral-flexible multi-/transnational approach

- Base priorities on an analysis of the research needs of national and regional adaptation activities (continuous process);
- Evaluate each key sector, if we want to tackle it on a transnational (GROUP) level or if we find enough common ground to tackle it on a multinational (CIRCLE2-wide) level;
- Set up the research agenda framework based on the evaluation results;
- The framework will be filled with our common topics to be tackled either
 - Jointly on transnational level
 - Jointly on multinational level
 - Just via mutual information exchange and no concrete actions
- Along the whole process we need the involvement of ALL PARTNERS and numerous consultations amongst each other as well as the involvement of the EC, EEA and other relevant stakeholders

<September 10th 2009>

<Markus Leitner & Martin König>

<11>

Tools, research need identification and integration

- Develop and implement appropriate tools to best integrate stakeholder needs and their research priorities into the common research agenda;
- CIRCLE-2 database on CCI/AV funded project in all involved countries;
- Integrate the workshop outcomes and research needs of WP SHARE into the research agenda (e.g. NAS, RAS, DSS, CBA);
- Serve as the basis for WP FUND to identify topics for trans- and multinational research calls and integrate relevant research needs of the currently funded trans- and national projects;
- Research needs identified by **EC**, **AB** (e.g. EEA, IPCC, UNFCCC) and relevant stakeholders integrated into the common research agenda.



<September 10th 2009>

<Markus Leitner & Martin König>

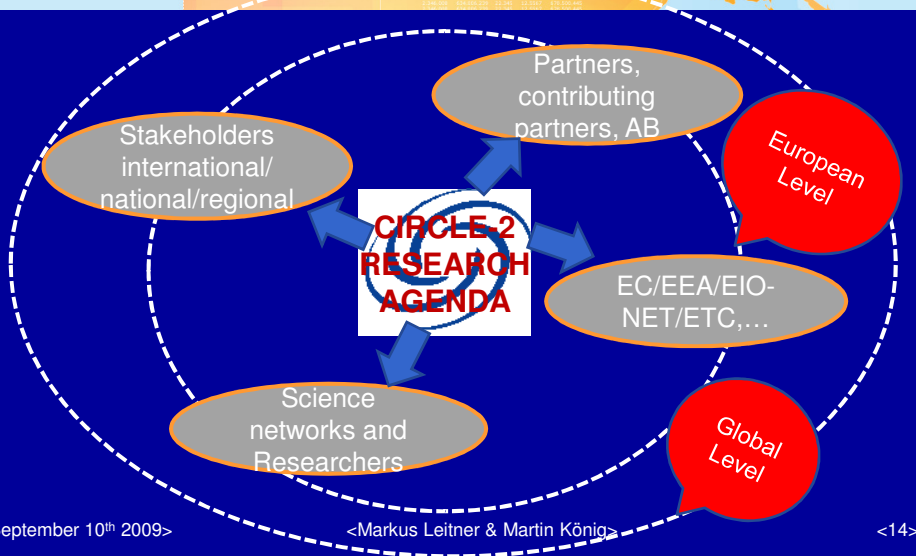
<12>

- Strong links will be established with:
 - the planned EU Clearing House on Climate Change Impacts and Adaptation and
 - other EU level information platforms (e.g. WISE - Water Information System for Europe).
- Interaction with research agendas and platforms on
 - transnational (e.g. other environment related ERA-Nets) and
 - national level (e.g. German's Competence Centre for Climate Impacts and Adaptation – KomPass and UK's UKCIP).
- Particular attention to Climate Change Adaptation options and policies (e.g. NAS, RAS and action plans) in line with ongoing climate policy developments in Europe and beyond.

<September 10th 2009>

<Markus Leitner & Martin König>

<13>



<September 10th 2009>

<Markus Leitner & Martin König>

<14>

CIRCLE research calls:

- Med Call and projects
- Nordic Call and projects
- Mountain Call

Possible topics for future calls:

- Agricultural Issues,
- Central and Eastern European States,
- Transnational Water Management,
- Optimizing the Practical Use of Climate Change Adaptation Research,
- Adaptation costs, Urban Areas,
- Etc, etc, etc,...

Now →

Past



<September 10th 2009>

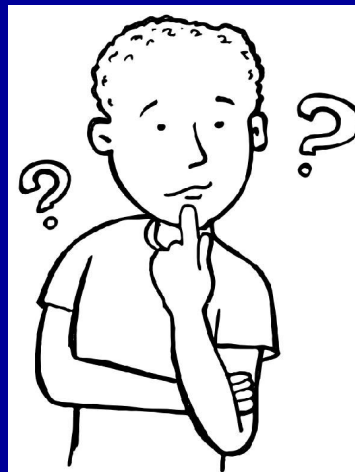
<Markus Leitner & Martin König>

<15>

Ideas for enhancing the development of a common strategic research agenda are anytime welcome!

E-Mail:

markus.leitner@umweltbundesamt.at



<September 10th 2009>

<Markus Leitner & Martin König>

<16>