

# Living with Climate Change

## Austrian-Finnish initiative

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# Vision and approach

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## Vision

Shifting Europe to a society that copes with climate change while sustaining / improving quality of life

## Approach

Systemic approach that considers the complexity of our social and natural systems

- main focus on processes, interactions, feedbacks, system vulnerability and resilience (incl. both natural and societal processes and systems)

# JPI Process

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- Discussions within the Austrian research community
- Workshop on European level (organised by Austria)
  - with participation of Belgium, Estonia, Spain, Finland, France, Hungary, Netherlands, Norway, Slovenia, and Sweden
  - with the objective to develop a vision and basic concept of a JPI „Living with Climate Change“

# JPI Process - workshop

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- AT presented the thematic topics, ws participants added additional topics
- Participants grouped all topics into 3 areas: system focus, thematic topics, a “grey area” of generic issues in between
- two working groups:
  - WG A - *systemic focus*, WG B - *generic issues*

Based on a systems approach, JPI could focus on two generic issues:

- *Process level*: interaction between atmosphere- biosphere- hydrosphere- cryosphere- anthroposphere
- *Implication level*: how these processes and their interactions affect society on the local and regional levels

# Process and implication levels

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- *Process level* (global perspective):
  - Understanding of process interactions, e.g. air pollution control vs climate change (pollution control may accelerate or mitigate climate warming )
  - Bioenergy policy – land use change – atmosphere –biosphere processes (accelerate or mitigate climate warming )
- *Implication level* – regional and local implications, e.g.:
  - changes in snow and ice cover (cryosphere) > different regional implications, e.g. on tourism, agriculture, transportation, energy supply and demand, water management...

# JPI Process

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- Draft version as a framework for the JPI
  - Drafted by AT, further developed by FI, decided that FI will take the lead
  - Further specification of the proposal requires discussion process on European level
- Core ideas very similar to German's JPI on "Enhancing the Utility of Climate Knowledge for Decision Making in Europe "

# Future steps

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- Finland propose merging of JPI proposal of "Living with climate change" and "Enhancing the utility of climate knowledge for decision making in Europe "
- DE proposed steps how to proceed with the JPI process (joint strategic framework and implementation plans) are also supported by Finland
- Finland expresses its interest to participate in processing the joint JPI proposal further

# Finnish contribution

- Finnish Meteorological Institute and University of Helsinki host several excellent research groups on CC research
- Highly innovative and multidisciplinary research environment
- National and 2 Nordic Centres of Excellences on climate change
- Research intensive Meteorological Institute
- Strong international research orientation



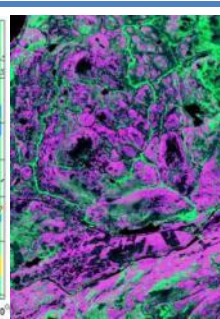
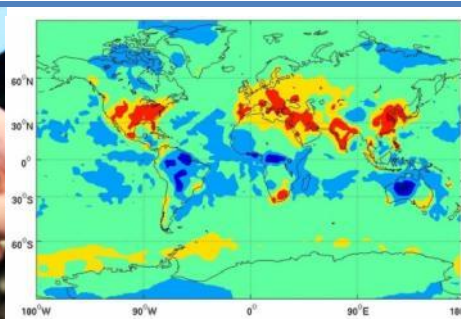
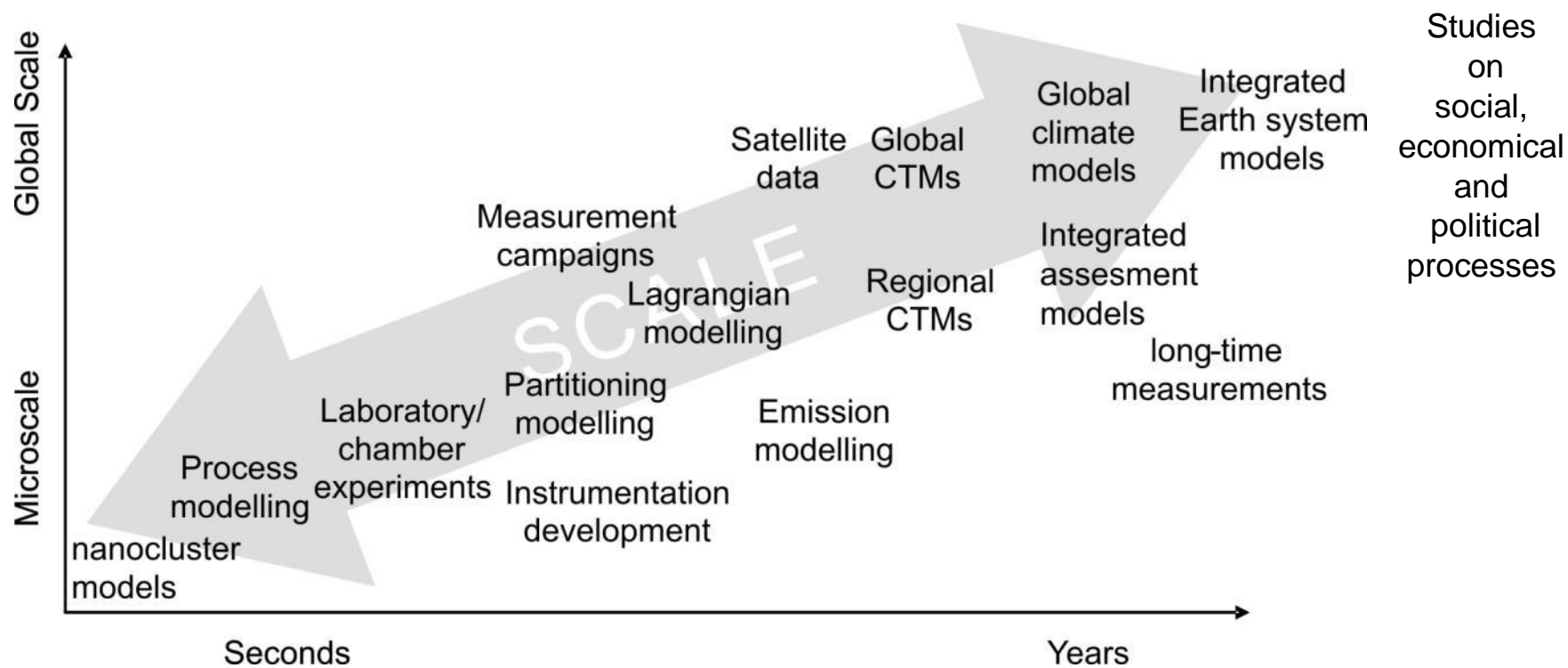
# Finnish contribution (2)

- In 2010 several national climate change related research programmes are launched
- Programmes have similar focus that now planned AT-FI and DE JPI's (system approach)
- These activities will strengthen CC studies on social, economical and political processes



# Finnish contribution (3)

## Research approach



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