

Joint Programming

Governance

Strategic Research Agenda

Connecting Climate Knowledge for Europe

Join In!

**Conference Joint
Programming**

Vienna, 28th Sept 2011

JPI CLIMATE

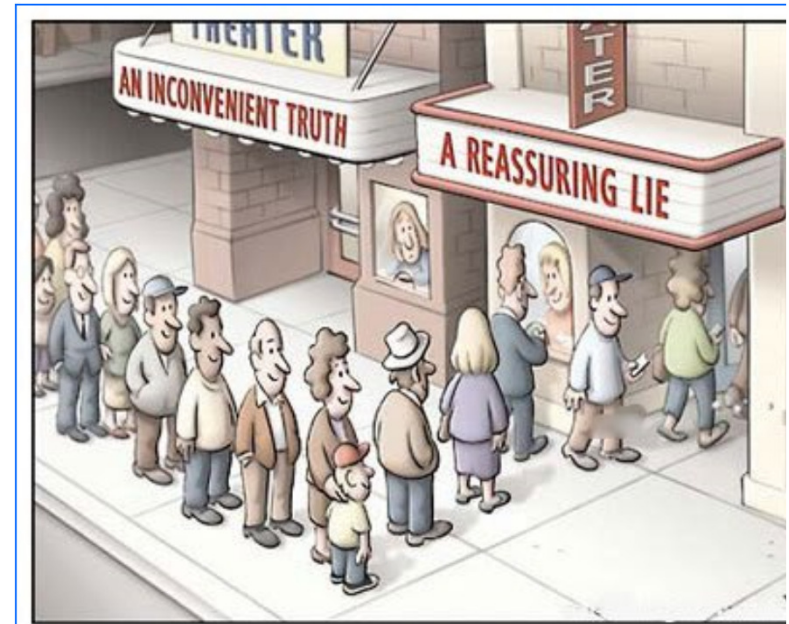
Vision

**Dr. Kirsten Broch Mathisen,
Vice-Chair**

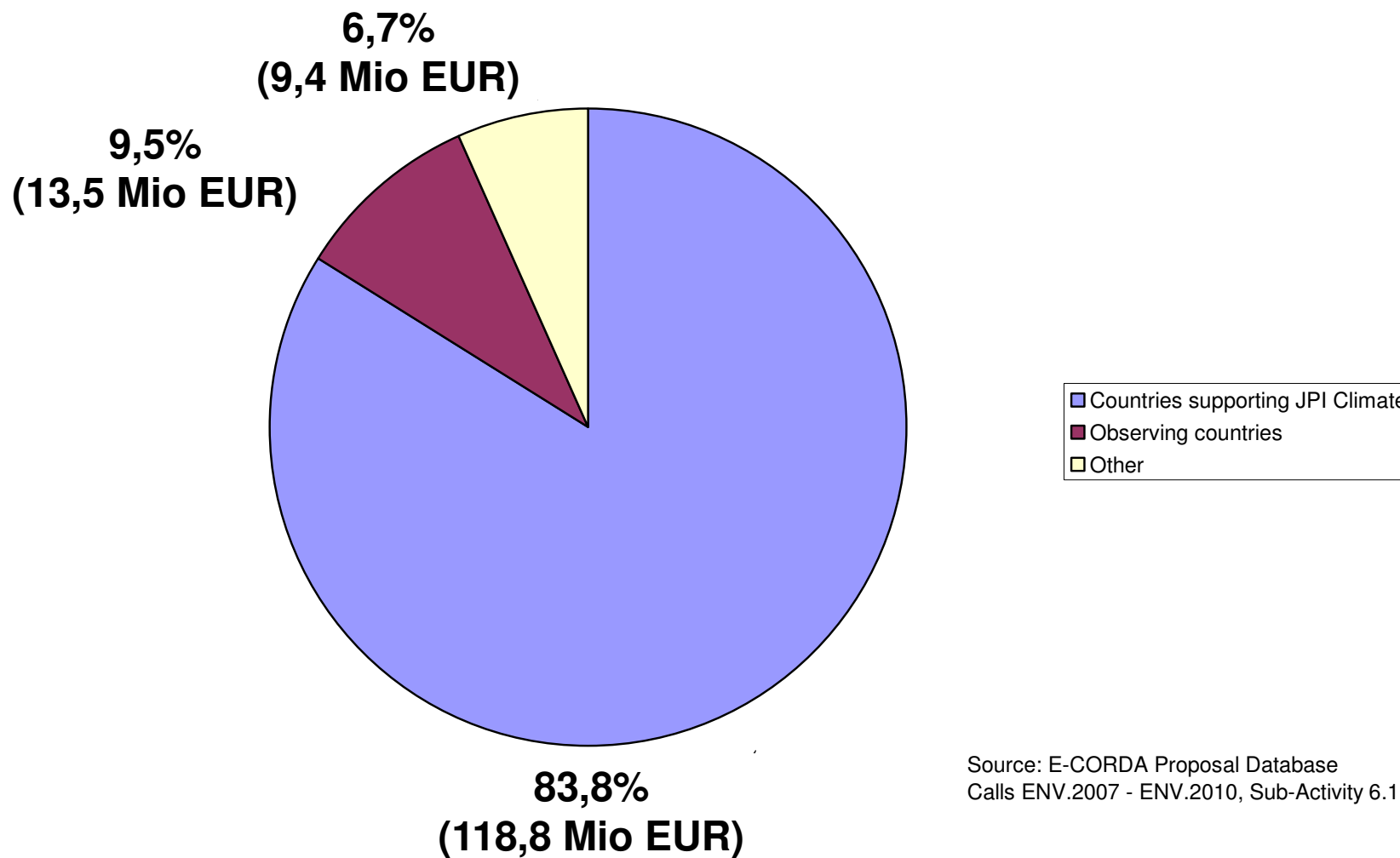
Point of Departure and Motivation

Climate Research in Europe

- Multitude of players: 562 partners involved in FP7 projects in 2007-2010
- Considerable national research contributions:
 - EC-FP7: 141,7 Mio EUR (2007-2010)
 - JPI-NRP: more than 200 Mio EUR per year
- Predominantly natural-science based
- Weak link between knowledge production and application (science and decision-makers)

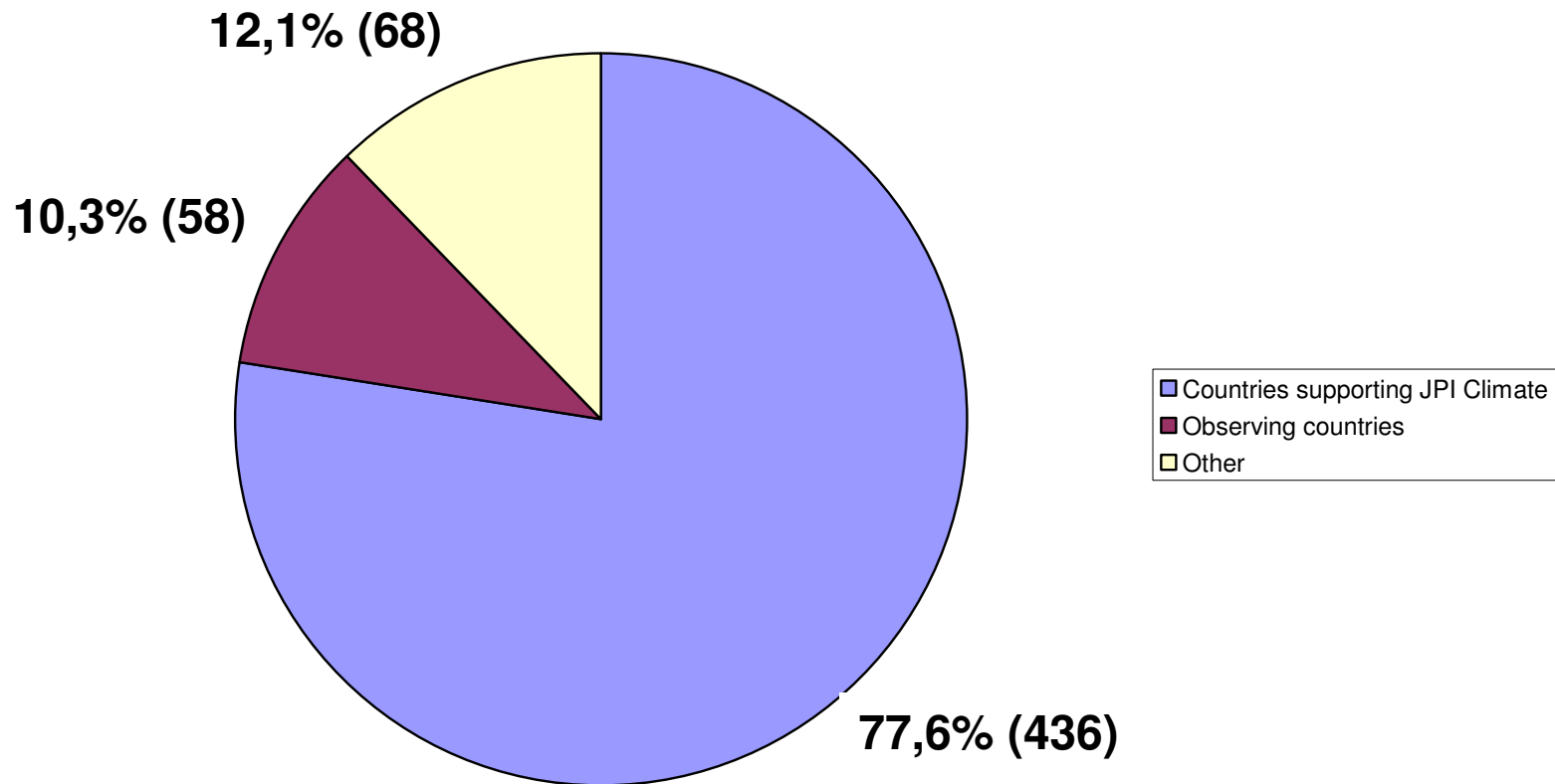


EC Contribution for FP7 Climate Research Projects (2007-2010)



Source: E-CORDA Proposal Database
Calls ENV.2007 - ENV.2010, Sub-Activity 6.1.1

Number of partners in FP7 Climate Research Projects (2007-2010)



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Scope and Vision of JPI CLIMATE

- Promotes joint action in order to tackle the grand societal challenges connected to climate change
- Bridges knowledge production and knowledge application by connecting climate research with decision-making contexts
- Closes critical knowledge gaps by combining and connecting scientific approaches
- Adds value by integrating and expanding climate change research in concert in a truly trans-national and coordinated effort
- Overcomes fragmentation in climate change research while maintaining creative development
- Has structuring effect on national and EU level funding of climate research
- Complements and increases the value of relevant national and EU R&D funding

JPI CLIMATE Countries

- Member Countries: 12
- Observer Countries: 2



JPI Climate Composition

Members

- 12 member countries, 2 observer countries
- European Commission as non-voting member
- ERA-NET CIRCLE2, EEA, Nordforsk as observer institutions
- JPI CLIMATE is covering 87,9% of the involved partners in FP7 climate research projects



Involved Experts

- More than 50 experts (science-based, stakeholders)
- Expert workshops and bilateral exchanges

Main Focus 2011/2012

- Start Implementation Plan
- First-track Activities

JPI Climate Objectives

Strategic Platform

- Policies of 14 countries, responsible for more than 200 M € per year, can be aligned
- Potential instrument to structure and integrate European research landscape in the area of climate change
- Provides integrated climate knowledge and decision support services for societal innovation
- Align positions within other European initiatives (ERA Nets, Art 185, ESFRI etc.)

Joint Activities

- Series of workshops, academic courses
- Policy support actions
- Joint research funding
- Collaboration with other research programmes, networks and initiatives at member state or European level

JPI Climate Objectives

Strategic Platform

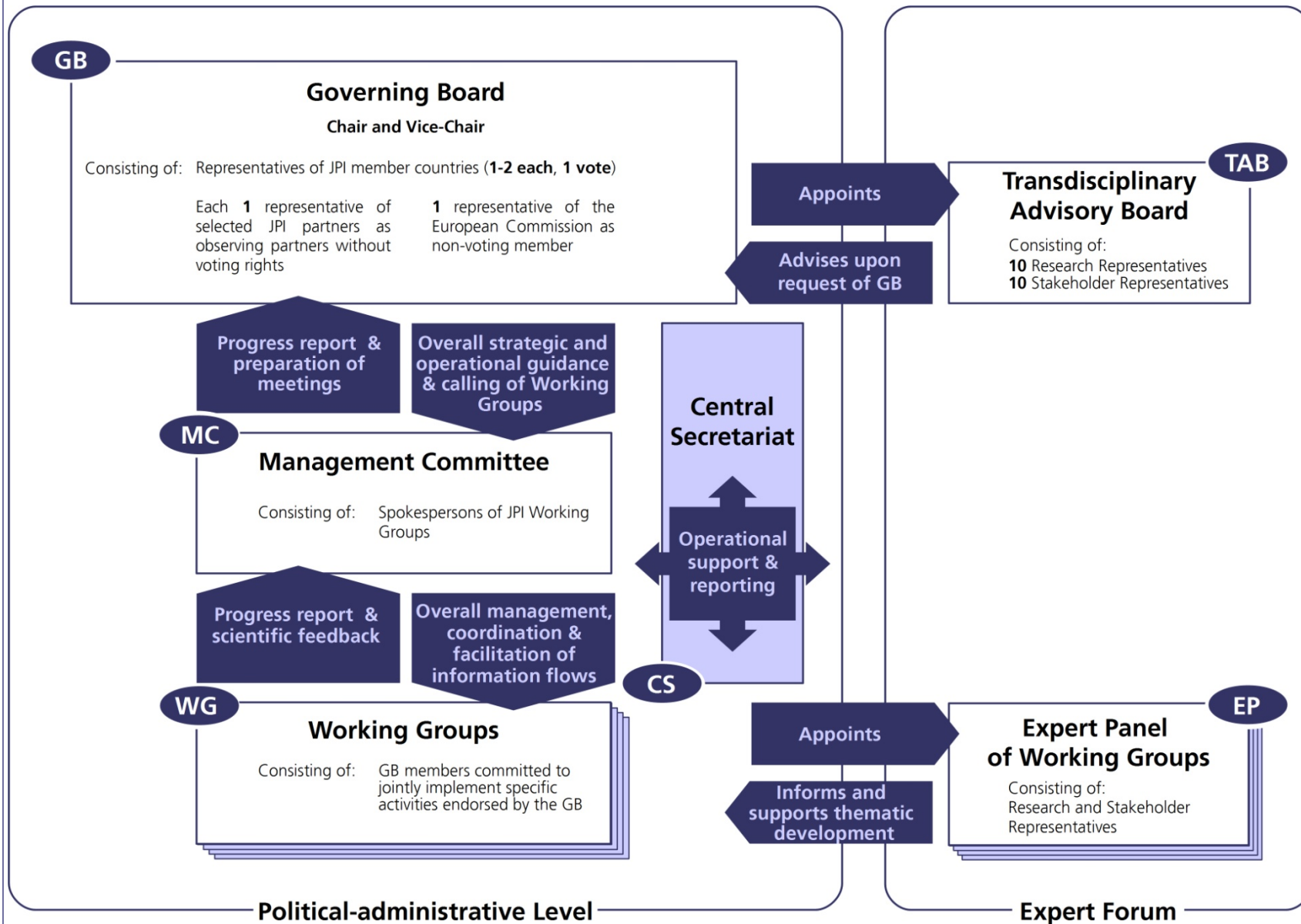
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JPI CLIMATE as fireplace of European Climate Research

JPI Climate - Connecting Climate Knowledge for Europe



GOVERNANCE

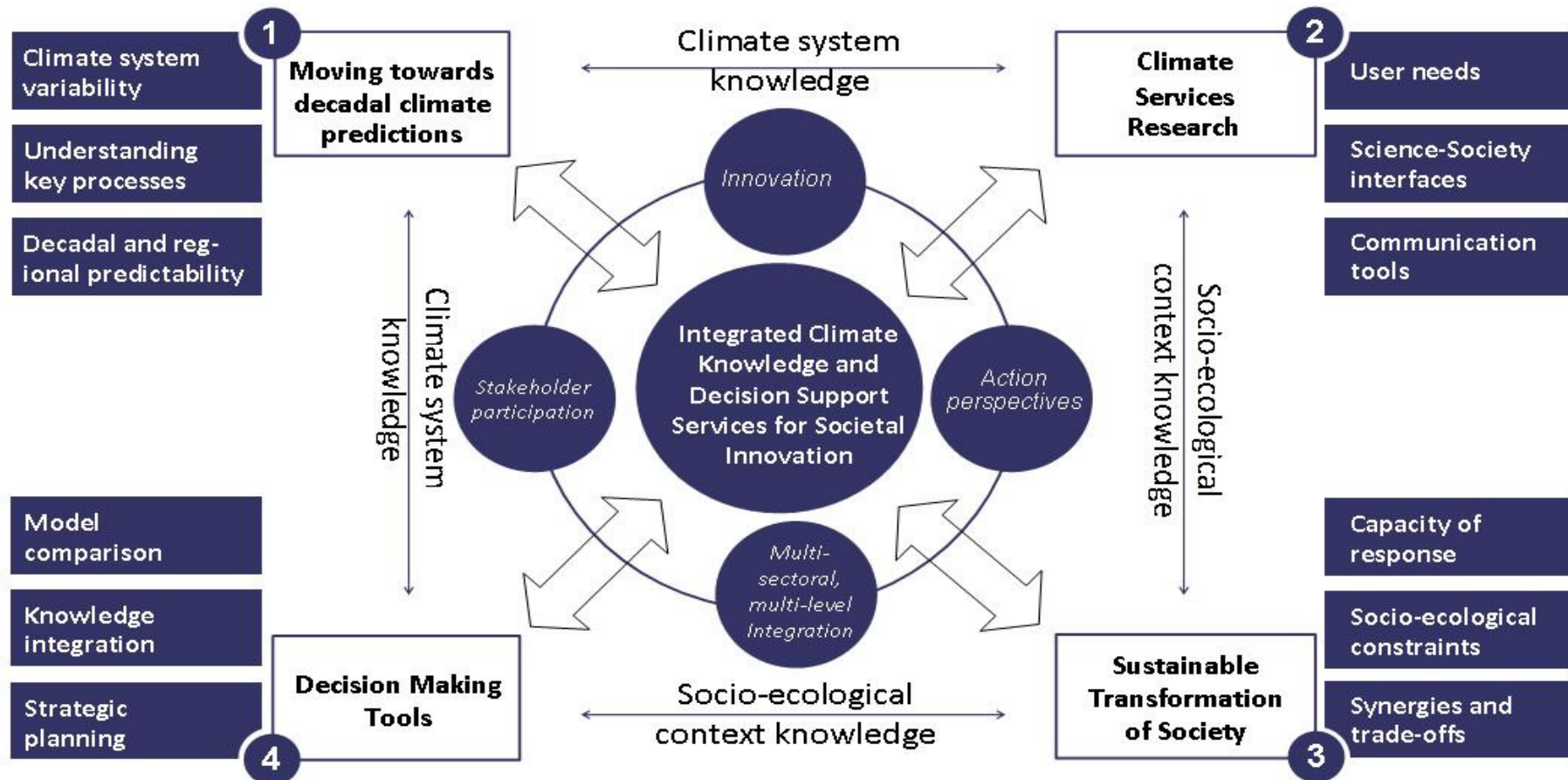
Strategic Research Agenda

overall rationale

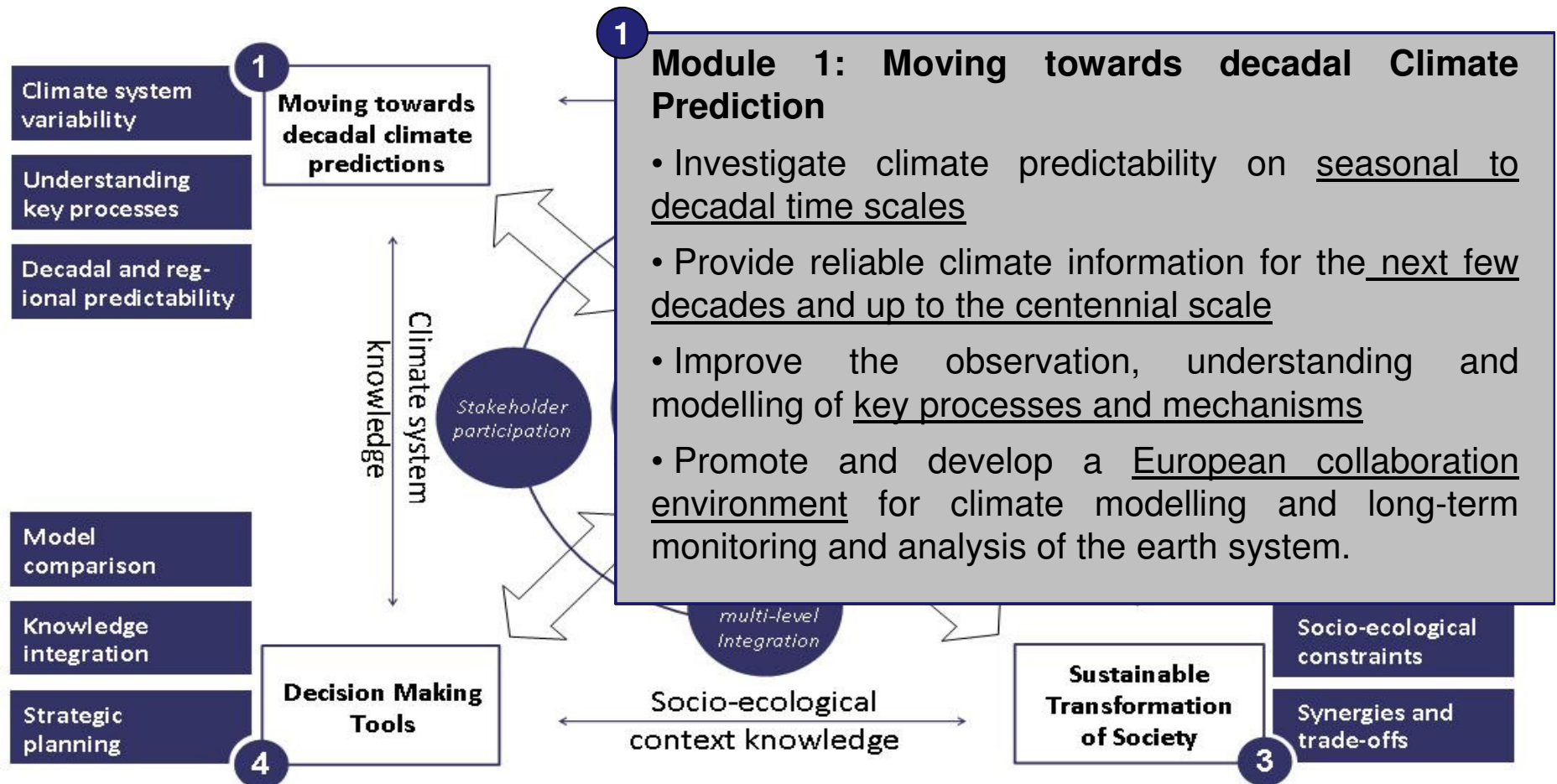
- Promotes joint research across natural and social sciences in the realm of climate change and links it to sustainable transformations of society
- Links climate change research to societal contexts of decision-making on mitigation + adaptation and mainstreaming climate into non-climate policies and planning
- Increases the resolution of the physical basis of climate science and connects scales: from global to local and from centuries to seasons
- Supports the preparation and provision of services to support of concrete decision making questions

Strategic Research Agenda

4 Modules strongly connected through integrated policy questions



Strategic Research Agenda



Strategic Research Agenda

Module 2: Research on Climate Services

- Enhance the efficiency of the development of Climate Services in the individual European countries
- Improving the interfaces between climate and climate impact research and between research and climate service providers
- Identify user needs in specific sectors and develop adequate services, service innovation
- Improve consistency in the methods and approaches used by the Climate Services in the individual European countries

Knowledge integration

Strategic planning

Decision Making Tools

4

Multi-level Integration

Socio-ecological context knowledge

2

Climate Services Research

2

User needs

Science-Society interfaces

Communication tools

Socio-ecological context knowledge

Services

Capacity of response

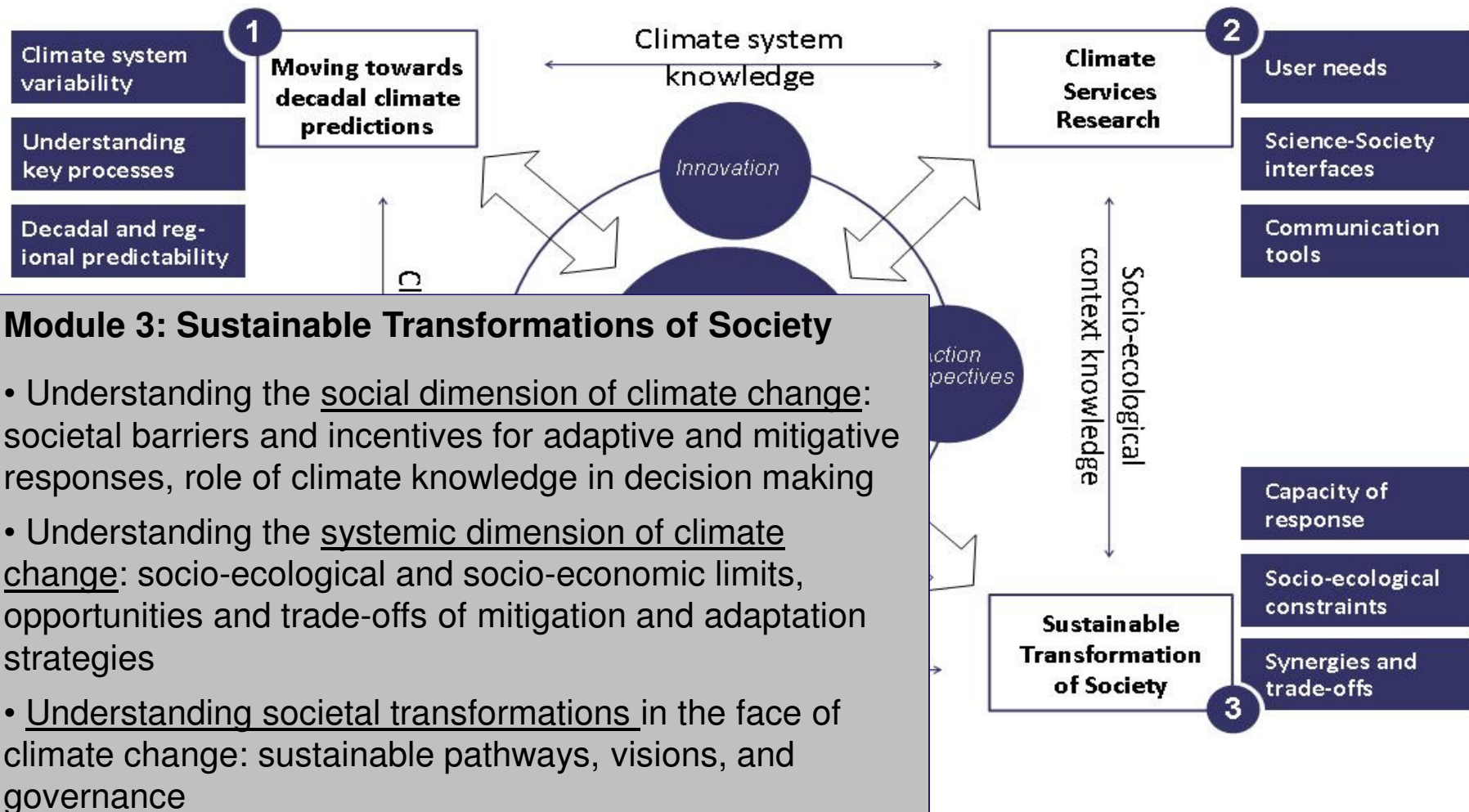
Socio-ecological constraints

Synergies and trade-offs

Sustainable Transformation of Society

3

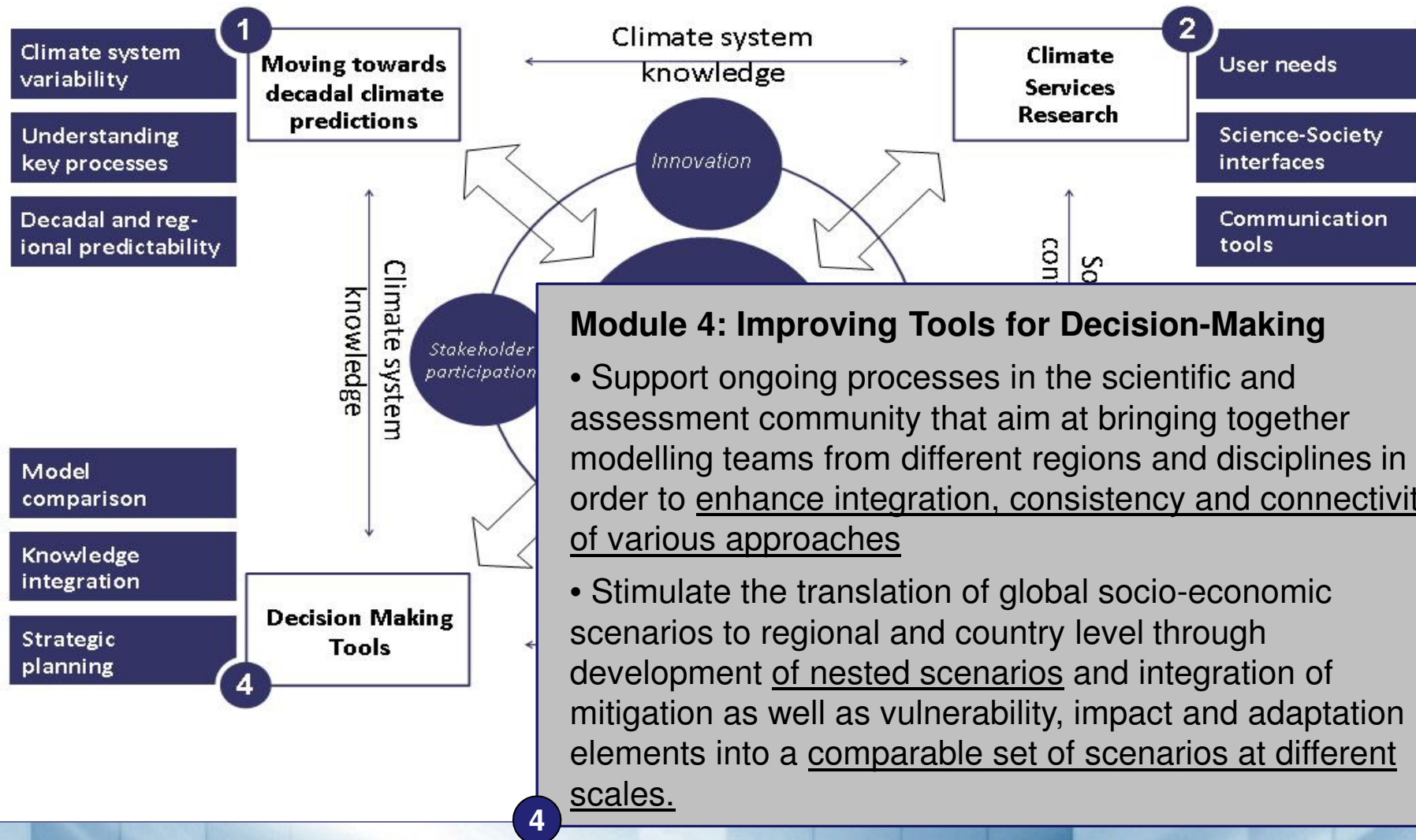
Strategic Research Agenda



Module 3: Sustainable Transformations of Society

- Understanding the social dimension of climate change: societal barriers and incentives for adaptive and mitigative responses, role of climate knowledge in decision making
- Understanding the systemic dimension of climate change: socio-ecological and socio-economic limits, opportunities and trade-offs of mitigation and adaptation strategies
- Understanding societal transformations in the face of climate change: sustainable pathways, visions, and governance

Strategic Research Agenda



Module 4: Improving Tools for Decision-Making

- Support ongoing processes in the scientific and assessment community that aim at bringing together modelling teams from different regions and disciplines in order to enhance integration, consistency and connectivity of various approaches
- Stimulate the translation of global socio-economic scenarios to regional and country level through development of nested scenarios and integration of mitigation as well as vulnerability, impact and adaptation elements into a comparable set of scenarios at different scales.

Timeline

Council
accepted
Proposal

1st WS
Brussels

2nd WS
Vienna

Helsinki Meeting:
1st constitutional meeting of GB:
- election of chair
- adoption of SRA and
- governance, signature of Lol

Council Adoption
(to be expected)

Bologna
Meeting

Paris
Meeting (tbc)

Finalization
of SRA
and
Governance

- Preliminary Implementation Planning of SRA (1 year)
- Concrete Planning of Fast-Track Activities
- Establishing of Central Secretariat
- CSA application

- Implementation of SRA
- Fast-Track Activities

26-05 5/6-10

24/25-01

30/31-05

07/08-11

December
2011

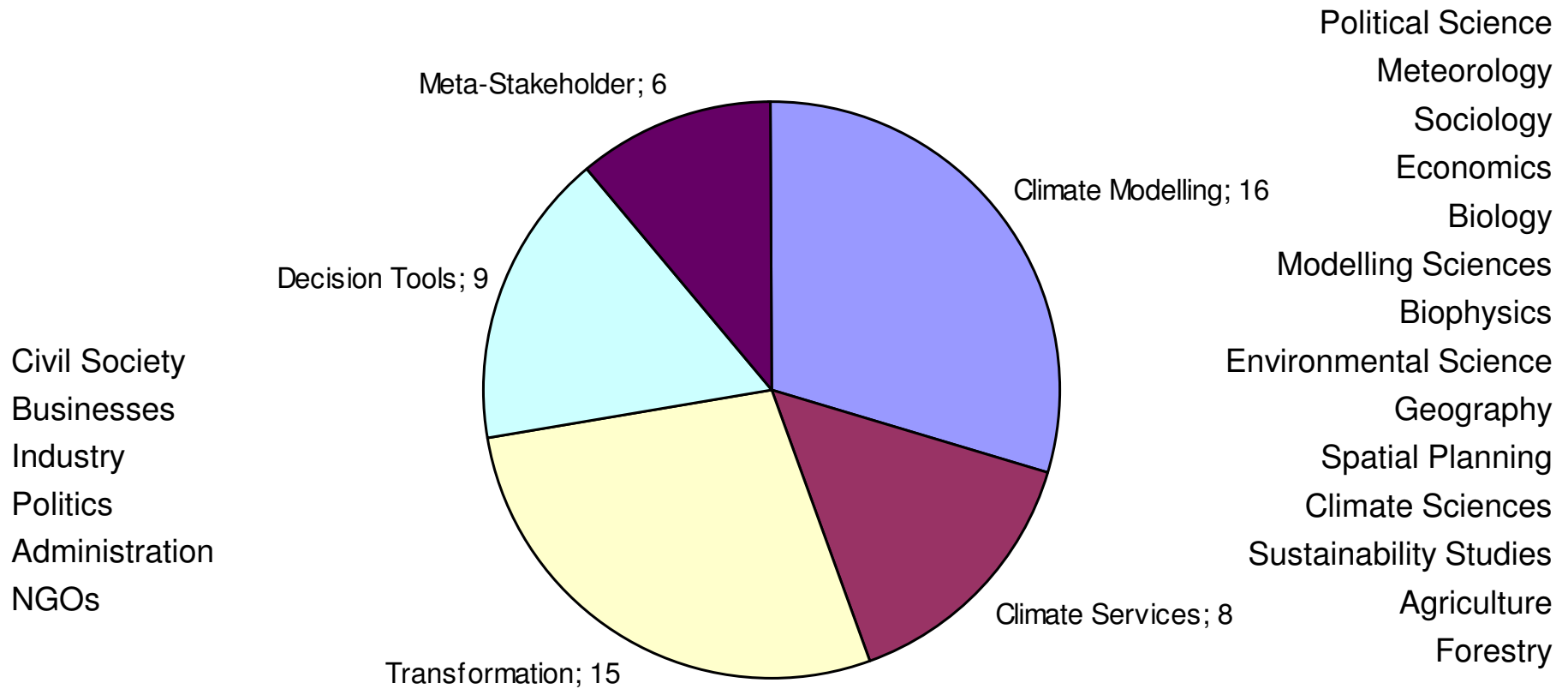
June 2012

2010

2011

2012

Involved Experts in JPI CLIMATE



Implementation Mechanisms

- Alignment of national research programmes
- Joint research funding
- Conferences, workshops and academic courses
- Policy support actions
- Collaboration with other research programmes, networks and initiatives

**Variable
Geometry**

Cooperation

- The core of JPI of JPI Climate is a **dynamic and open space of communication** across pre-existing boundaries between research and policy and between different research communities
- The SRA is a **living document**, i.e. stakeholders can influence the development and refinement of the SRA over time
- Expert involvement (scientific as well as societal) on the level of Working Groups

Cooperation – cont.

- The **Transdisciplinary Advisory Board (TAB)** consists of scientists and representatives of stakeholder organisations (e.g. policy-making/administration, business organisations, civil societies / NGO)
- The **TAB** advises JPI Climate on scientific orientation and revisions of the JPI
- **Joint activities**, joint projects
- At present JPI Climate has 12 member, 2 observer countries and 3 observer partners. JPI Climate seeks for more members, in particular in eastern Europe; we are in dialogue with Poland, Hungary and Spain

Possible Fast-Track Activities:

1. User-needs assessment: **M2 (lead) with M1 / M3 / M4**
2. Climate Services Platform: **M2**
3. Positive Transformation Visions: **M3 (lead) with M1 / M2 / M4**
4. Case studies on policy cooperation and integration: **M3**
5. Model comparison for IPCC AR 5: **M4 (lead) with M1**
6. Nested Climate Scenarios: **M4 (lead) with M1 / M2**
7. Validation of Greenhouse Gas Inventories: **M4 (lead) with M1**
8. European collaborative Environment for Prediction, Modelling and Observations: **M1 (lead) with M2**
 - 8.1 Seasonal-to-decadal climate predictions and climate services
 - 8.2 CMIP5 and CORDEX simulations and modelling activities
 - 8.3 Observations

Next Steps

- Bologna Meeting in November 2011
- Definition of Fast Track Activities, Medium and Long Term Planning
- EC recommendation and Council adoption in Dec 2011
- CSA proposal



Helsinki 30./31.5.2011 Constitutive Meeting

www.jpi-climate.eu