



# Update on the Activities of the Integrated Assessment Modeling Consortium

**Presented to the IAMC Membership  
By the IAMC Scientific Steering Committee (SSC)**

**November 16, 2015**

Seminaris SeeHotel

Potsdam, Germany

**Hosted by Potsdam Institute for Climate Impacts Research (PIK)**

# Aims of the IAMC

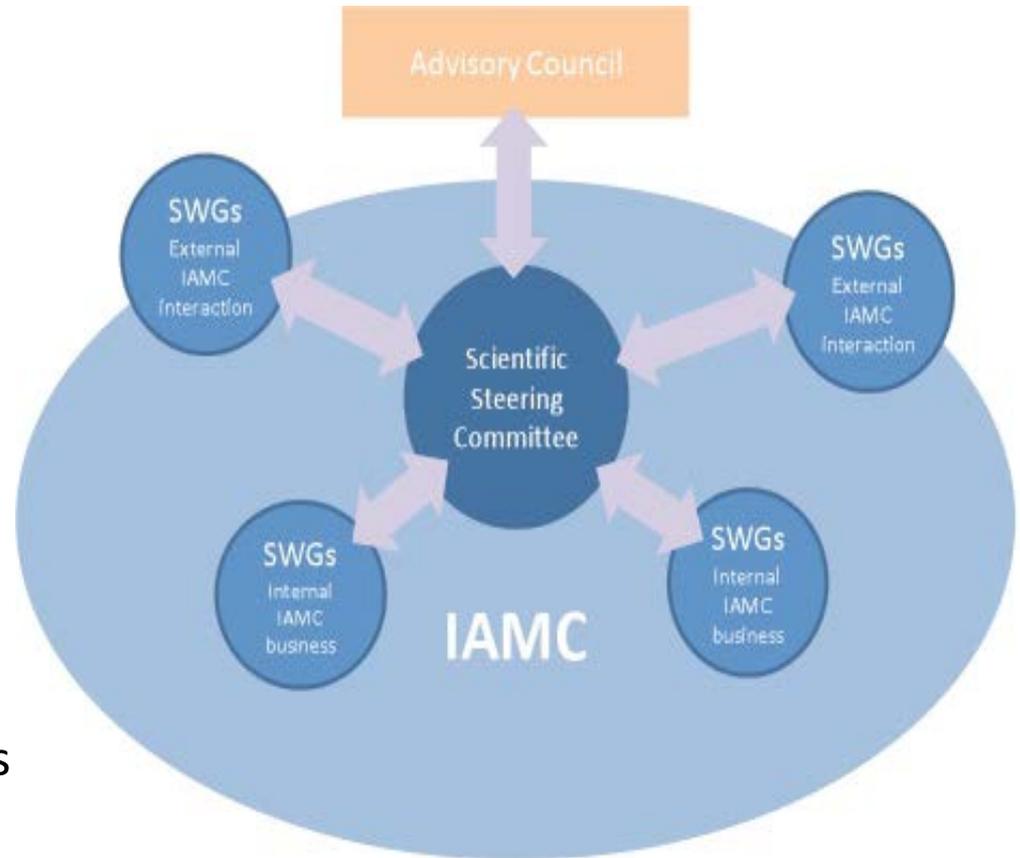
- The Integrated Assessment Modeling Consortium (IAMC) exists to facilitate and foster the development of integrated assessment models (IAMs), peer interaction and vetting, and the conduct of research employing IAMs, including model diagnosis, inter-comparison, and coordinated studies.
- The IAMC also exists to facilitate and coordinate IAM research with research conducted in both the Climate Modeling (CM) and the Impact, Adaptation, and Vulnerability (IAV) research communities.
- The IAMC also exists to provide a point of contact with other institutions and organizations interacting with the IAM community, e.g. the IPCC.

# IAMC Progress

- This is the eighth annual meeting
  - 80+ Abstracts submitted (a record)
  - 140+ participants (a record)
- **This is the fourth meeting with parallel scientific sessions**
- Broad participation (now 50+ member organizations)
- IAMC website:  
(<http://www.globalchange.umd.edu/iamc/>)
- MOU with IPCC WGs
- **RCPs completed, SSPs completed (?)**
- Scenario data warehouse for AR5 and beyond
- Scientific Working Groups chartered and operating

# Governance

- The IAMC Organization
  - Scientific Steering Committee (SSCs)
  - Advisory Council (under construction)
- Conduct of IAMC work
  - The work of the IAMC is conducted through Scientific Working Groups (SWGs) chartered by the SSC and
  - Community research programs undertaken by IAMC member organizations
  - Collaborations with other organizations



# Current SSC Members (13)

- Sustaining SSC Members are (November, 2015):
  - Electric Power Research Institute (EPRI)
  - International Institute for Applied Systems Analysis (IIASA)
  - The Netherlands Environmental Assessment Agency PBL
  - Pacific Northwest National Laboratory's Joint Global Change Research Institute (PNNL/JGCRI)
  - National Institute for Environmental Studies (NIES)
  - Stanford Energy Modeling Forum (EMF)
  - **Potsdam Institute for Climate Research (PIK)**
- Appointed at-Large SSC Members are (November, 2015):
  - Indian Institute of Management (IIM)
  - China Energy Research Institute (ERI)
  - [Programa de Planejamento Energético \(PPE/COPPE/UFRJ\)](#)
- An election was held in early 2015 to select the remaining three At-Large SSC members (Same Results as 2012, but ...):
  - **Fondazione Eni Enrico Mattei (FEEM)**
  - **National Center for Atmospheric Research (NCAR)**
  - **European Commission, Joint Research Centre, Institute for Prospective Technological Studies (IPTS)**

# The Scientific Steering Committee

Although most of the work of the IAMC will be carried out through SWGs, the SSC provides the leadership for the IAMC and is ultimately responsible for the governance and all of the work of the IAMC. In specific, the responsibilities of the SSC include:

- Identify potential research priorities and opportunities based on input from IAMC member organizations;
- Identify issues to be addressed by SWGs and form, oversee, approve, and communicate work by SWGs;
- Review and recommend activities brought to it by IAMC member organizations and potential partner organizations;
- Serve as a point of contact with other external bodies, such as the Intergovernmental Panel on Climate Change (IPCC), World Climate Research Program (WCRP);
- Insure the long-term sustainability of the institution.

The SSC takes decisions by consensus.

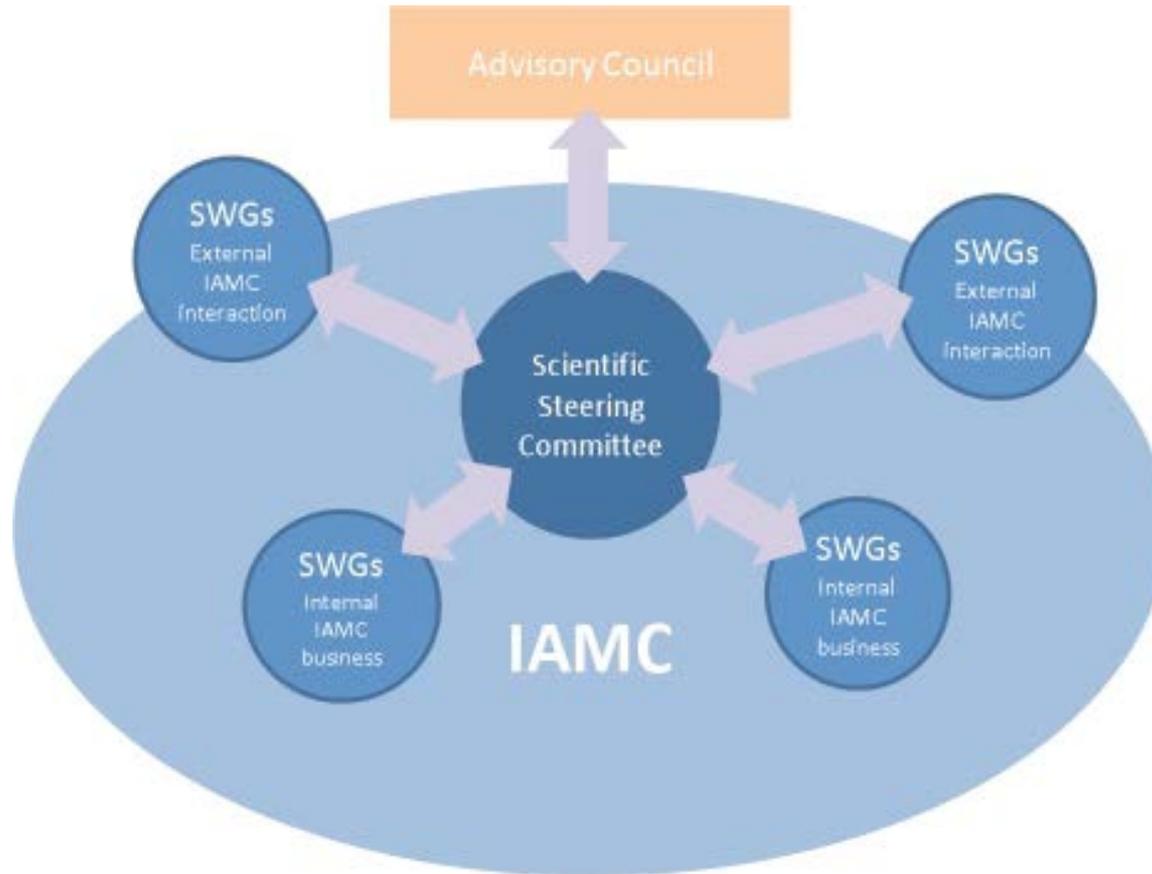
# Current Scientific Working Groups

- So far the Scientific Steering Committee (SSC) has chartered four Scientific Working Groups (SWGs):
  - Working Group on Representative Concentration Pathways (Completed)
  - Working Group on Data Protocols and Management
  - Working Group on Scenarios
  - Working Group on Evaluation and Diagnostics

# SSC Requests for this Meeting

- We seek feedback from the membership on **research priorities**
- We seek feedback from the membership on the **work of the SWGs and ideas about possible new ones**
- We seek feedback from the membership as **governance and organization**
- Keep in mind that we initially didn't have an explicit budget or secretariat so moved forward with voluntary participation in our work, but now have **had a small, but vital, budget the last four years thanks to NIES, USEPA, USDOE, and meeting hosts.**

# Discussion



For IAMC Membership -

See IAMC WWW Site:

<http://www.globalchange.umd.edu/iamc/>

# The IAMC



- The Integrated Assessment Consortium (IAMC) was created in 2007 in response to a call from the IPCC organization to lead the integrated assessment modeling community in the development of new scenarios that could be employed by climate modelers in the development of prospective ensemble numerical experiments for both the near term and long term.
- Leaders from 3 institutions, John Weyant (EMF), Nebojsa Nakicenovic (IIASA) and Mikiko Kainuma (NIES), invited other research organizations to join with them to form the IAMC for the purpose of developing scenarios.
  - These became the 4 Representative Concentration Pathway scenarios.
  - New scenario process plans published in Nature
  - Details of RCP Phase as special issue of Climatic Change
  - Details of the SSP Phase as special issue of Climatic Change

# The Advisory Council

- Responsibilities of the Advisory Council
  - Provide counsel to the IAMC Scientific Committee (e.g., input on potential research priorities)
  - Provide information about activities in other research communities that are relevant to IAMC activities (users of IAMC information and communities upon which IAMC draws information)
  - Assist the IAMC Scientific Committee in coordinating with and communicating results to other research communities.
  - Assist the IAMC and the Scientific Committee in identifying potential resources to help the IAMC fulfill its mission.

# The Advisory Council (Under Construction)

- Membership
  - The initial set of Advisory Council members will be appointed by the Scientific Committee of the IAMC.
    - One member will be designated the Advisory Council Chairperson
  - The term of a membership will be 3 years. Membership is renewable. (Initial memberships will be staggered in such a way that approximately 1/3 expire each year)
  - The Advisory Council shall appoint a chairperson (currently JW), who will serve as the point of contact for the Scientific Committee.

# Working with Others

- The IAMC will also work with and through other organizations.
  - Member organizations may propose to undertake activities that benefit the community and the IAMC may choose to recommend them to its members, e.g. the EMF or FEEM or AIM may choose to undertake a coordinated exercise on a topic that would potentially execute an element of the “Parallel” phase or scenario development.
  - The IAMC may also team with other organizations, e.g. AIMES to undertake programs of mutual interest.
  - The IAMC may also work with external organizations such as the IPCC to produce products of mutual interest.

# Reminder #1- IAMC Objectives

- The IAMC exists to further scientific research.
- The IAMC does not take political positions, nor does it exist to further political agendas.

# Reminder #2 - Membership

- Membership is open to organizations whose work helps further the goals of the IAMC.
- Terms and conditions of membership are established by the Scientific Steering Committee.