

The Integrated Assessment Modeling Consortium

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

October 28, 2010
Hilton Washington Embassy Row Hotel
Washington, DC

Outline

- History of the IAMC
- Goals & Objectives of the IAMC
- Accomplishments of the IAMC
- Membership of the IAMC
- Governance of the IAMC
 - Scientific Steering Committee (SSC)
 - Scientific Working Groups (SWGs)
 - Advisory Council

The IAMC

- The Integrated Assessment Modeling Consortium (IAMC) was created in 2007 in response to a call from the IPCC for an 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.

The IAMC

- During the past year the IAMC has been lead by a Scientific Steering Committee that was established at last year's annual meeting in Tsukuba, Japan
- The purpose of this presentation
 - Some accomplishments to date
 - Review current governance and organization (this info. is also contained at <http://www.iamconsortium.org/>)
 - Update the membership on the work of current IAMC Scientific Working Groups
- We seek feedback from the membership on governance and organization as well as the on the work of the SWGs and ideas about possible new ones
- We don't have an explicit budget or secretariat so move forward with voluntary participation in our work.

IAMC up and running

- Third annual meeting
- Broad and growing membership
- IAMC charter and Scientific Steering Committee convened
- IAMC website
- MOU with IPCC WGs
- RCPs completed
- Preliminary scenario data warehouse
- Initial Scientific Working Groups chartered and operating

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 Committee.

The IAMC Members

- Australian Bureau of Agricultural and Resource Economics (ABARE)
- Bundeswehr University, Munich
- Business Council for Sustainable Development – Argentina
- CEA-LERNA, University of Social Sciences
- Centre for International Climate and Energy Research (CICERO), University of Oslo
- Argonne National Laboratory
- Centre International de Recherche sur l'Environnement et le Developpement (CIRED)
- CRA International
- DIW Berlin
- Electric Power Research Institute (EPRI)
- Energy Research Institute, National Development and Reform Commission (NDRC)
- Energy Technology Systems Analysis Programme (ETSAP)
- ETH Zurich
- European Commission, Joint Research Centre, Institute for Prospective Technological Studies (IPTS)
- Fondazione Eni Enrico Mattei (FEEM)
- Hamburg University and Economic and Social Research Institute (ESRI)
- Indian Institute of Management
- Institut d'Economie et de Politique de l'Energie (IEPE-CNRS)
- Institute of Applied Energy
- International Institute for Applied Systems Analysis (IIASA)
- San Marcos University
- National Institute for Environment Studies (NIES)
- National Center for Atmospheric Research (NCAR)
- Ohio State University
- Pacific Northwest National Laboratory, Joint Global Change Research Institute at the University of Maryland
- Potsdam Institute for Climate Impact Research (PIK)
- Programa de Planejamento Energético - PPE/COPPE/UFRJ
- Purdue University
- RAND
- Research Institute of Innovative Technology for the Earth (RITE)
- Stanford University Energy Modeling Forum (EMF)
- Tellus Institute
- Texas A&M University
- The Netherlands Environmental Assessment Agency (PBL)
- Tyndall Centre for Climate Change Research, The University of East Anglia
- Universidad de Los Andes / Universidad Nacional de Colombia
- Universidad Iberoamericana Puebla
- University of Cambridge
- University of Oldenburg
- US Environmental Protection Agency
- VTT
- World Bank

The IAMC

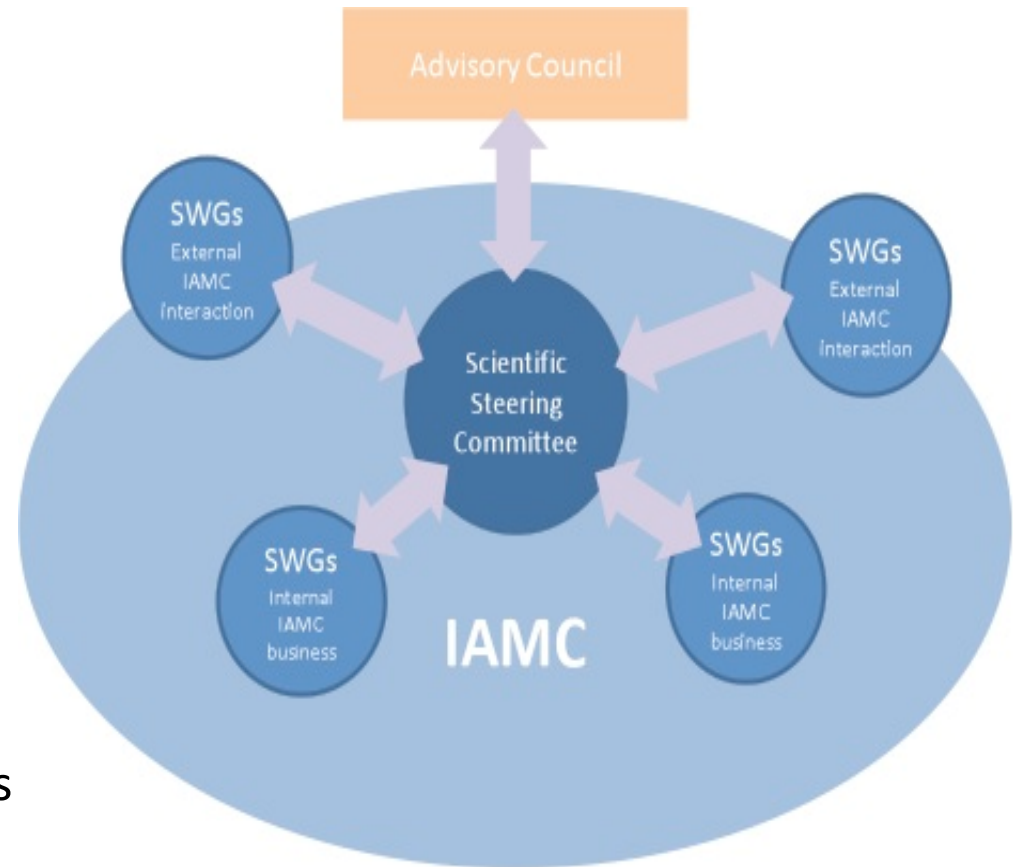
- The IAMC exists to further scientific research.
- The IAMC does not take political positions, nor does it exist to further political agendas.

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, intercomparison, 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.

Governance

- The IAMC Organization
 - Scientific Steering Committee (SSCs)
 - Advisory Council
- 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



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 and the IAMC Advisory Council.
- 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 to other external bodies, such as the Intergovernmental Panel on Climate Change (IPCC).
- Secure and shepherd the resources necessary to successful conduct the business of the IAMC.
- Establish an IAMC Secretariat to help with administrative tasks.

The SSC takes decisions by consensus.

Current (Founding) SSC Members

- Sustaining SSC Members are (November, 2009):
 - 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)
- At-Large SSC Members are (November, 2009):
 - Indian Institute of Management
 - China Energy Research Institute
 - Potsdam Institute for Climate Research
- An election will be held to identify the remaining three At-Large members of the SSC

Current Scientific Working Groups

- So far the Scientific Steering Committee (SSC) has chartered four Scientific Working Groups (SWGs):
 - Working Group on Representative Concentration Pathways
 - Working Group on Research Priorities
 - Working Group on Data Protocols and Management
 - Working Group on Narratives/Story Lines

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 NIES, FEEM or EMF may choose to undertake a coordinated exercise on a topic that would potentially execute an element of the “Parallel” phase
 - 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

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 Steering Committee in coordinating with and communicating results to other research communities
 - Assist the IAMC and the Scientific Steering Committee in identifying potential resources to help the IAMC fulfill its mission

The Advisory Council

- 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 who will serve as the point of contact for the Scientific Committee.

Discussion

