

ipcc

INTERGOVERNMENTAL PANEL ON Climate change



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IPCC's Catalytic Role: Coordinating Scenarios Jointly with IAMC

IAMC Meeting, Tsukuba, September 15th, 2009

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- Catalytic Role of IPCC
- Scenario Philosophy
- Portfolio of Scenarios
- Upcoming Scenario Meetings
- AR5: Collaboration between IPCC Working Groups

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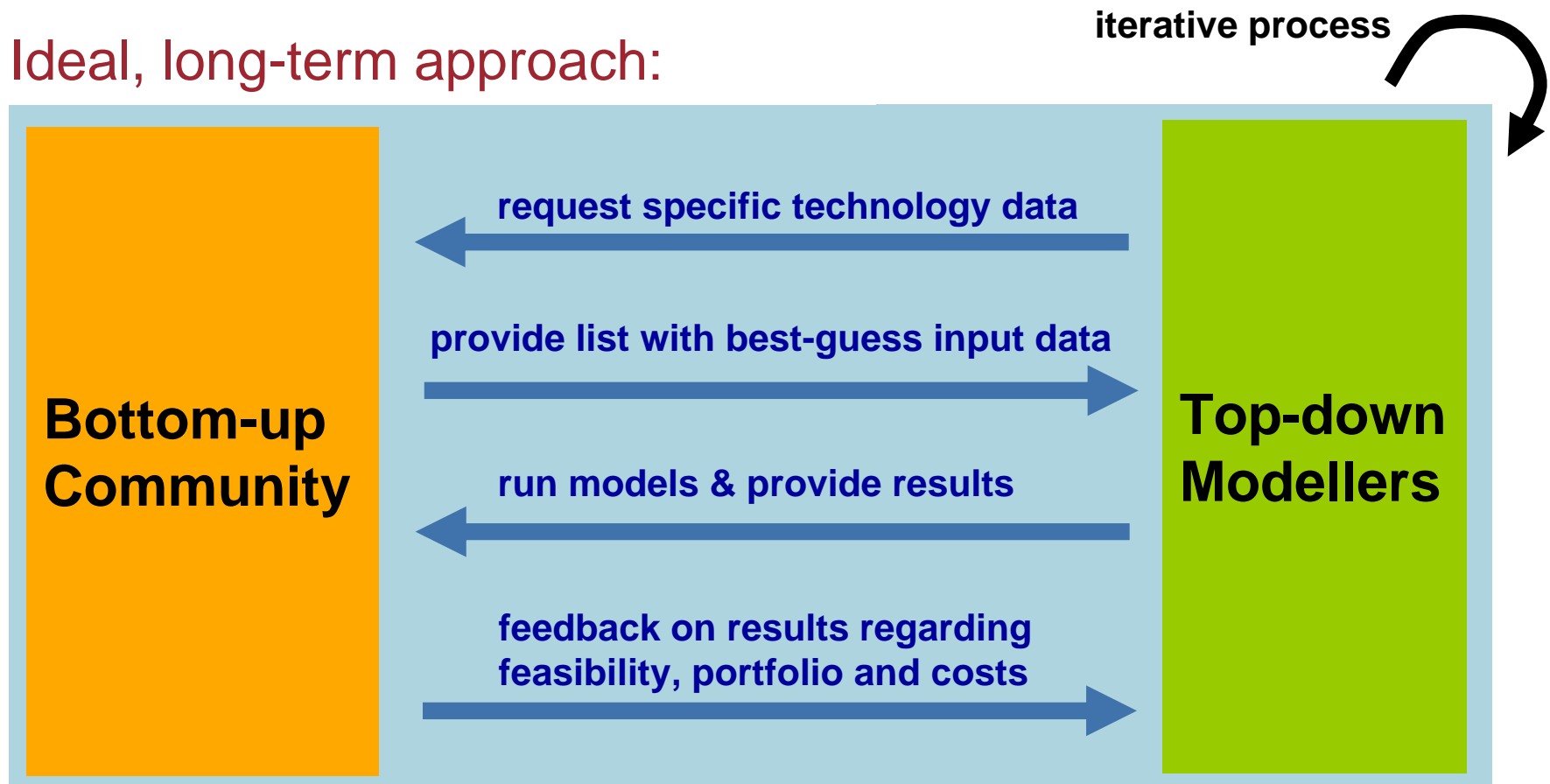
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AR5 Run-up:

Bottom-up – Top-down Interaction

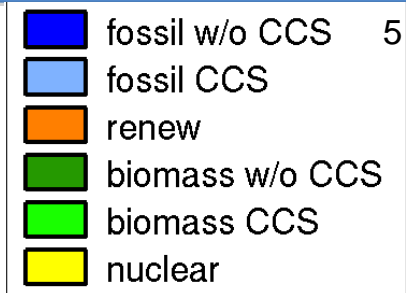
Based on the Memorandum of Common Understanding from Oslo: www.ipcc-wg3.de/scenario-memo

Ideal, long-term approach:

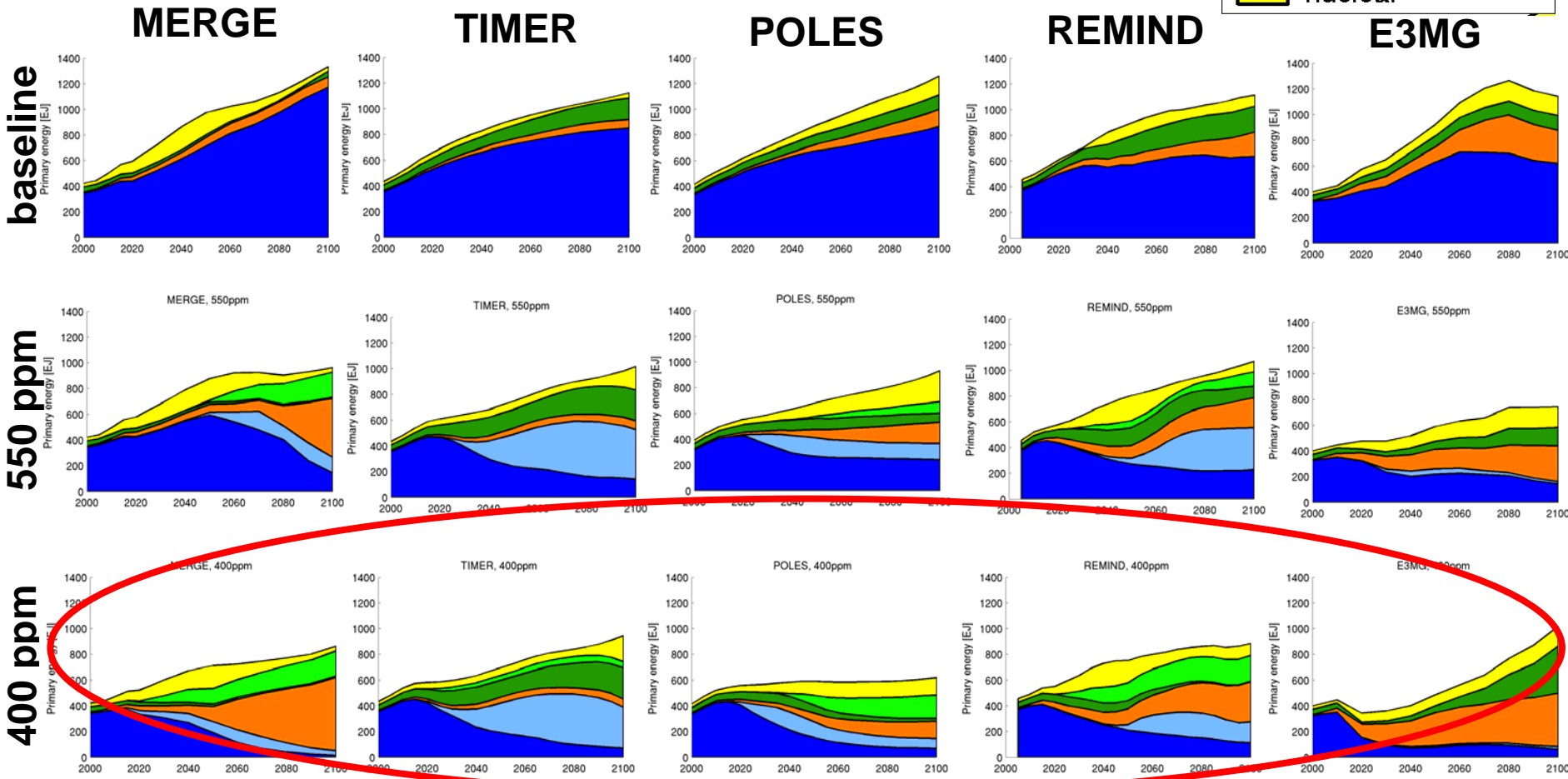


Goal: More realistic representation of policy space.

Realistic Portfolio of Mitigation Options?



Models →



- ➔ with major role of renewables 400ppm can be achieved by all models
- ➔ very different strategies to reach low stabilisation

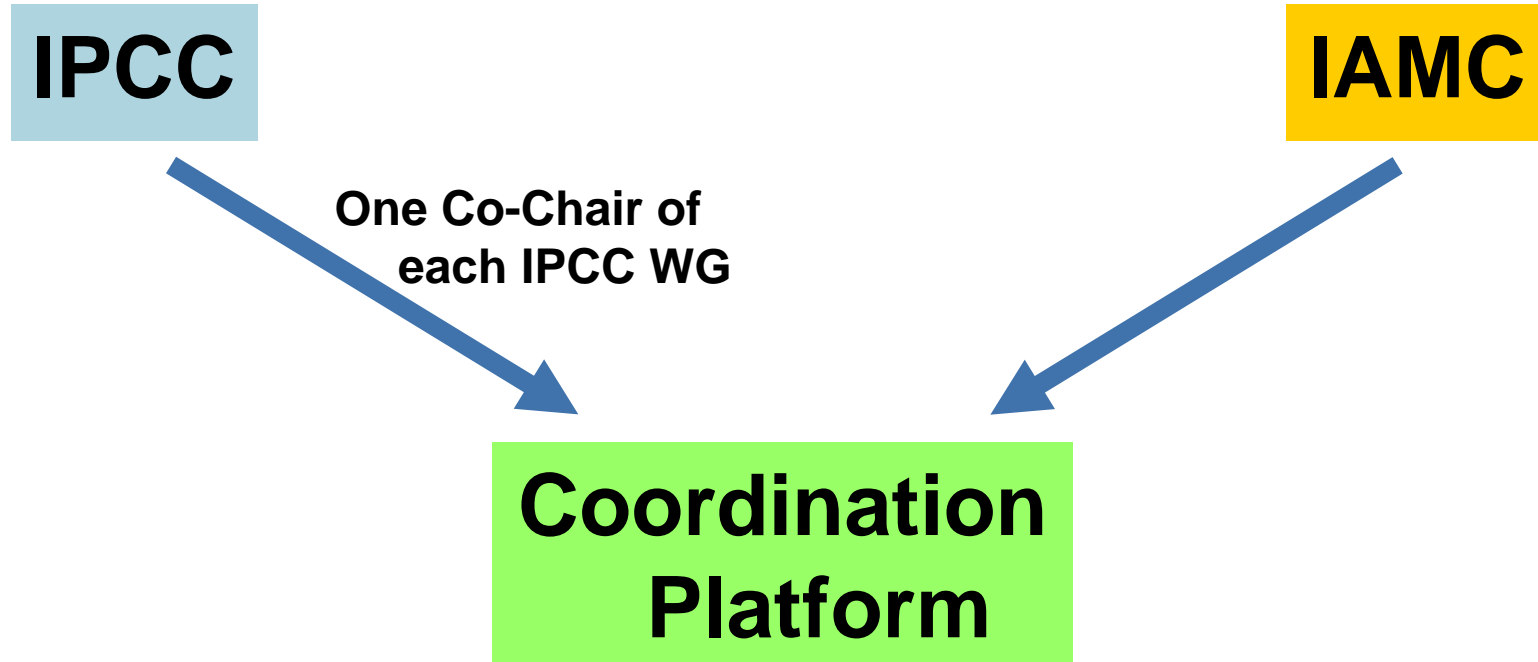
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Short- & Long-term Coordination of Scenarios

- “Ideal” iterative process between bottom-up & top-down is too late for SRREN
- A new coordination body is needed
- The catalytic role of the IPCC requires a continuous interaction between IAMC and IPCC
- At the SRREN Expert Meeting in Oslo a list of modelling topics were developed
- For AR5 more model comparison exercises are needed

New Catalytic Role of IPCC



Role of IAMC as seen from IPCC perspective

The IAMC is the professional scientific body for Integrated Assessment.

For IAMC it is important to:

- have clear rules of participation
- be transparent
- be representative of scientific community

Tasks of Coordination Platform

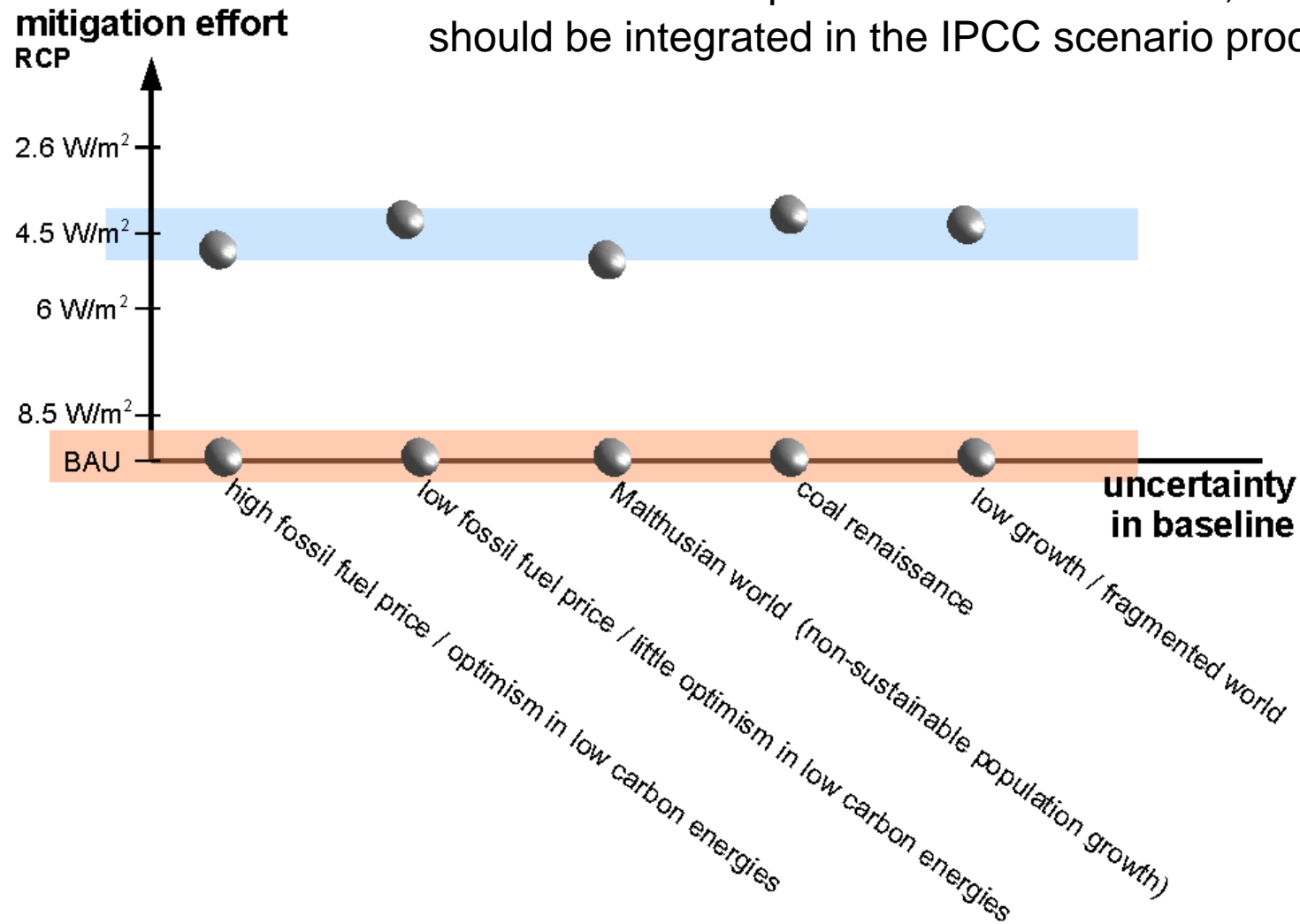
- Discuss new challenges for AR 5
- Decide what scenarios are required for AR5
 - IAMC communicates this to the scientific community
- Sharing information

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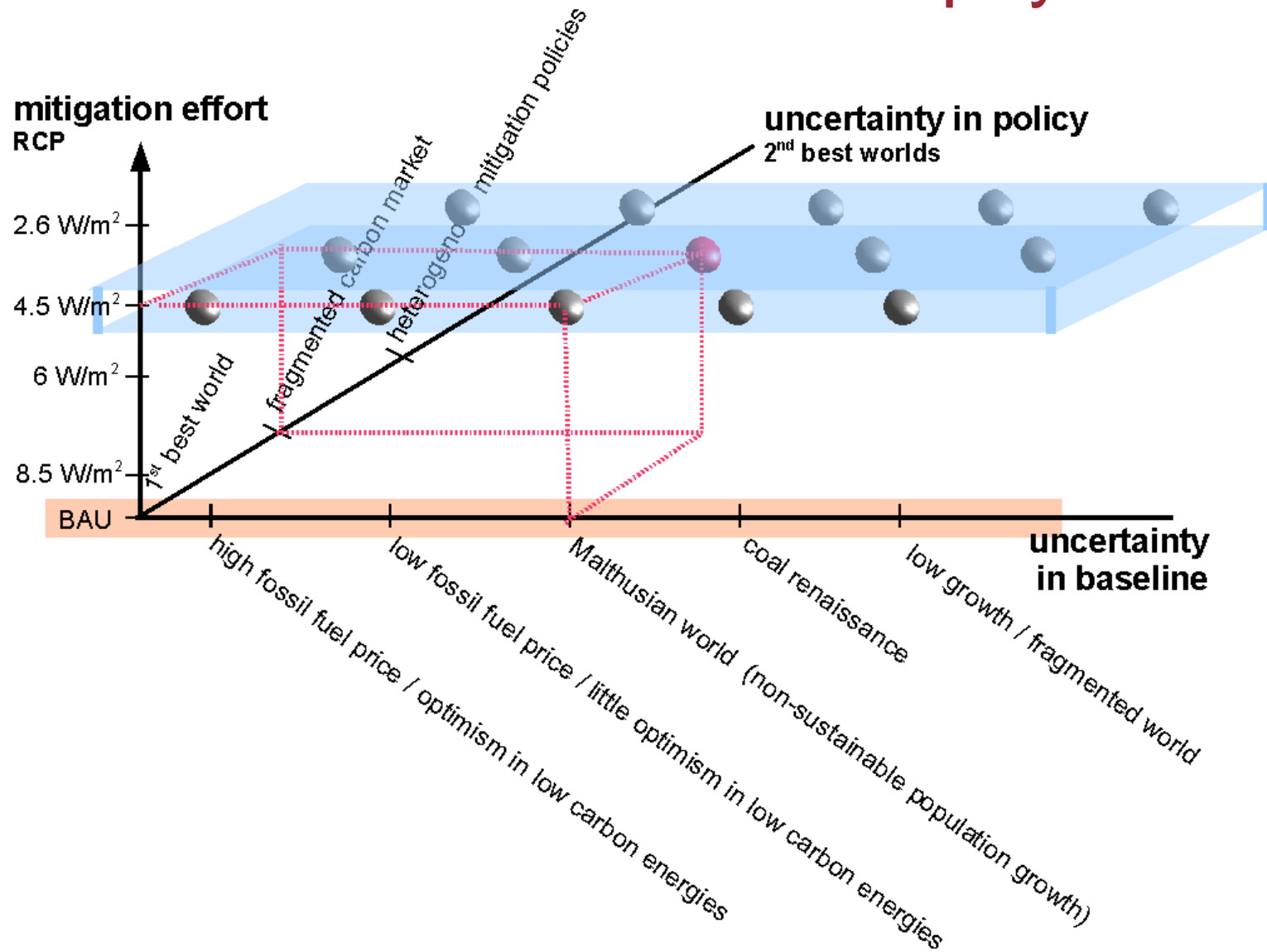
AR5 Scenario Philosophy

Idea for the conceptualization of scenarios, which should be integrated in the IPCC scenario process

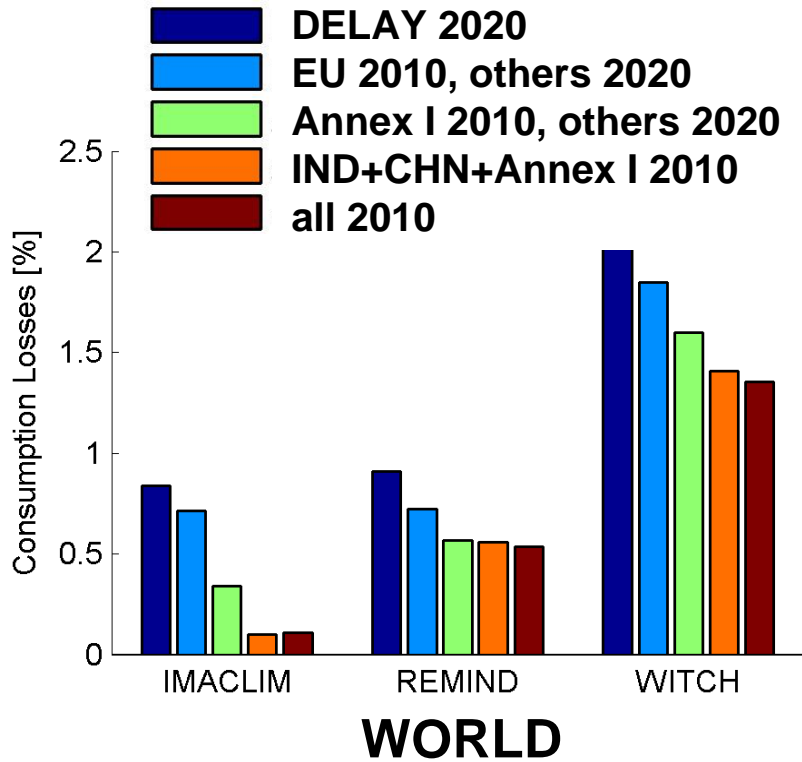


Baselines should be self-consistent

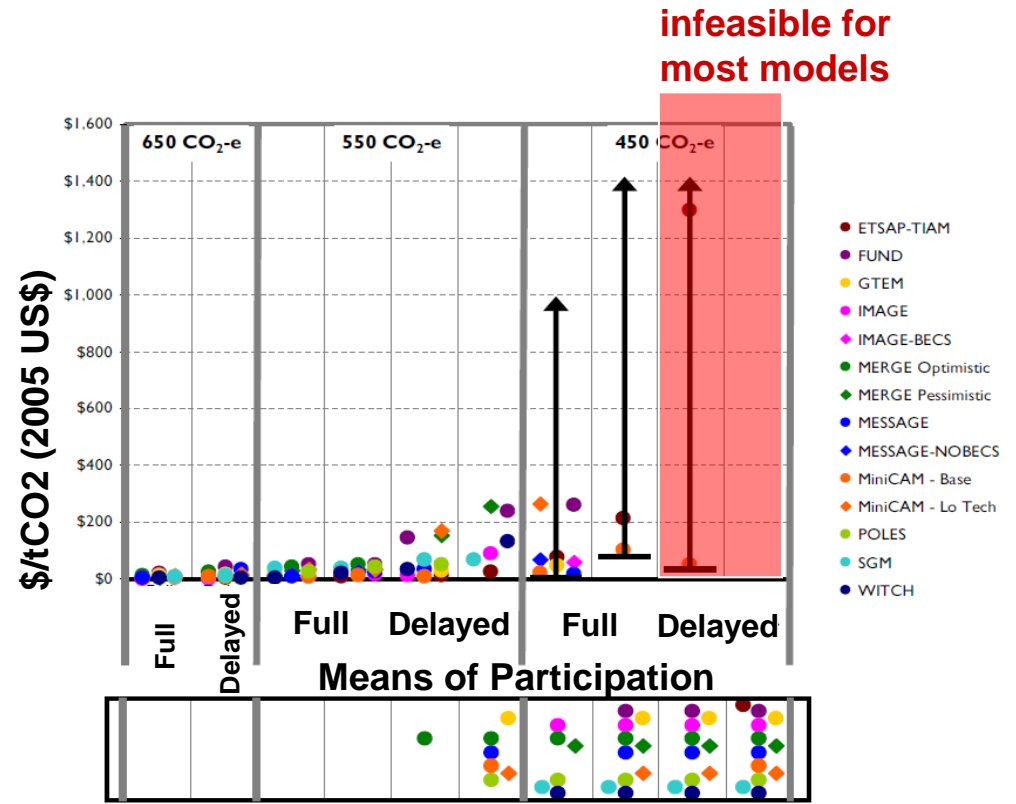
AR5 Scenario Philosophy



Costs & Other Problems of Delay



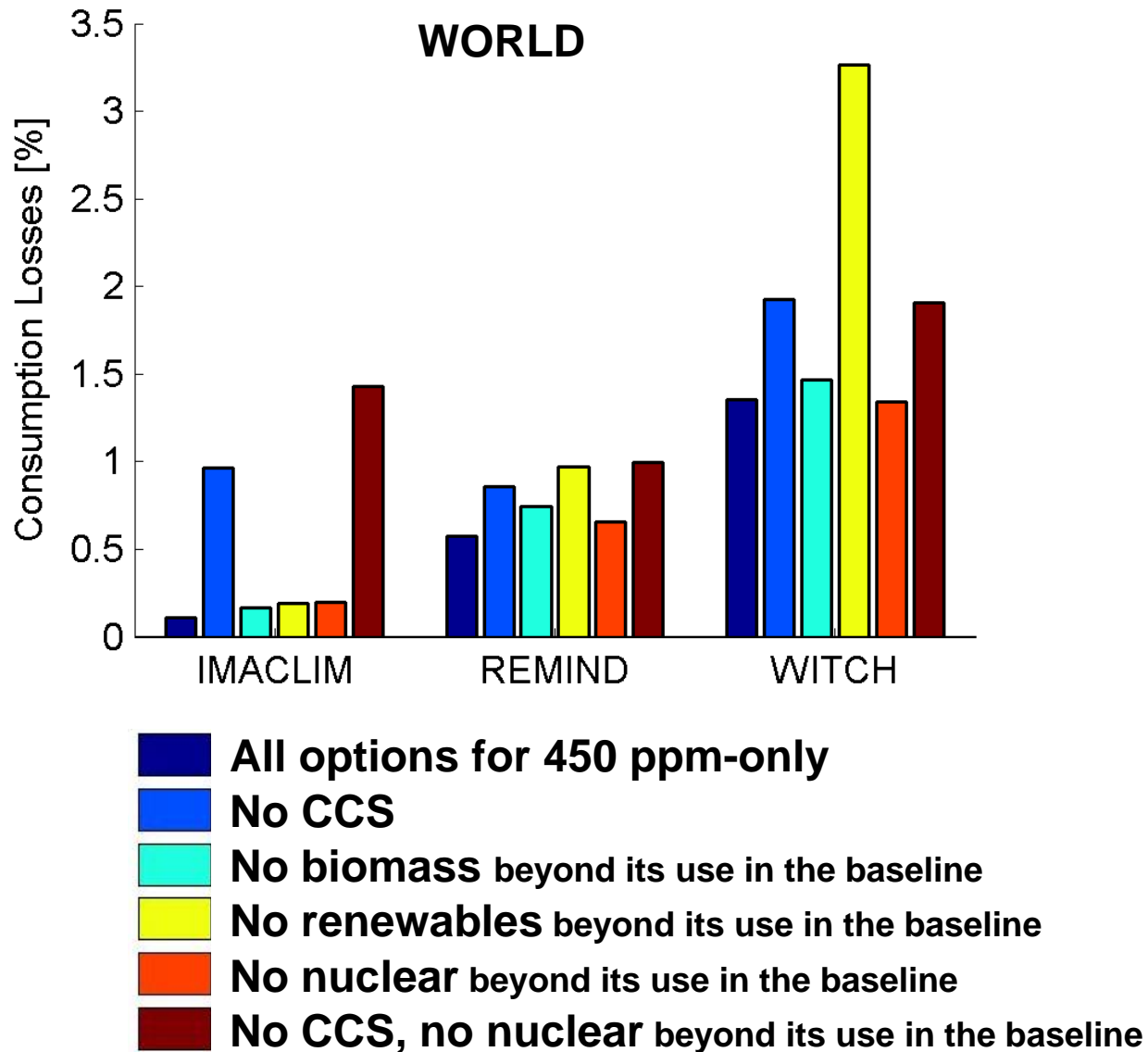
Luderer et al. 2009



Scenarios that could not be modelled under criteria of study

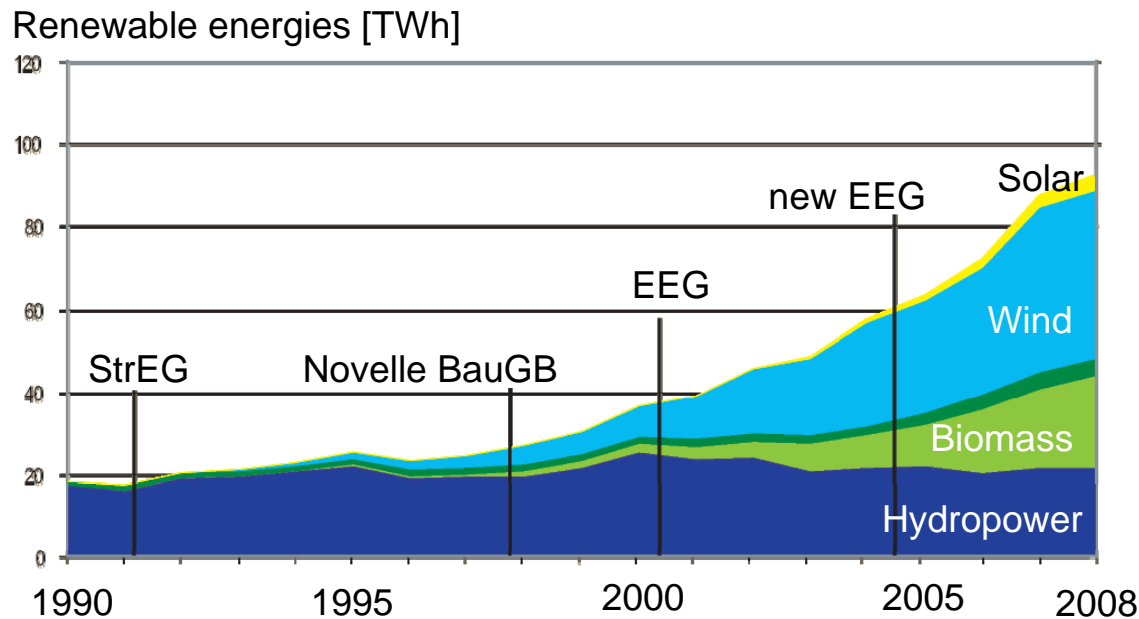
EMF (2009) Overview of EMF 22 International Scenarios

Limited Availability of Technologies

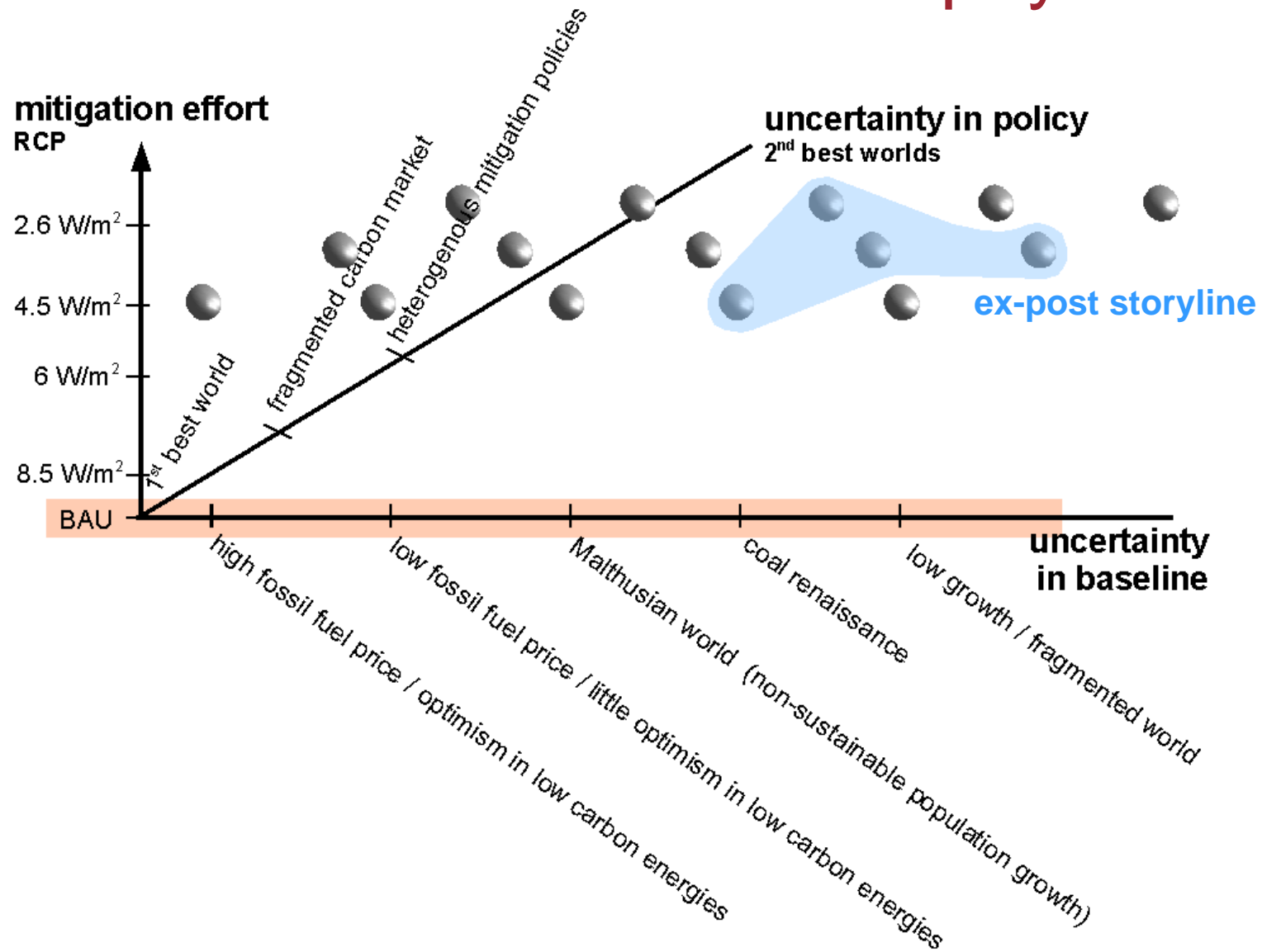


Are Feed-in-Tariffs the most efficient way to increase Renewable Capacities?

In Germany the *Renewable Energy Law* (Erneuerbare-Energien-Gesetz, EEG) greatly increased capacities. What is the interaction with Emission Trading?



AR5 Scenario Philosophy



Ex-post clustering of scenarios defines a **storyline** for each **cluster**. Clustering is essential to derive policy relevant messages.

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IPCC Wish List

Emerged from SRREN Expert Meeting on Scenarios

Issues to be covered by modellers:

- Limited availability of technologies
- Uncertainty
- Delayed participation
- Bottom-up & top-down integration
- Hindcasting
- Timing of policy instruments
- Multiple policy instruments for multiple market failures (“price-only-crowd” vs. “technology policy is needed”)

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Upcoming Scenario Meetings

IAMC Scenario Meeting

February 2010 @ Washington D.C

IPCC SRREN 2nd Scenario Expert Meeting

Spring 2010

Possibly back-to-back to 3rd SRREN LA Meeting
Early March 2010 @ Oxford, UK

IPCC AR5 Scenario Workshop

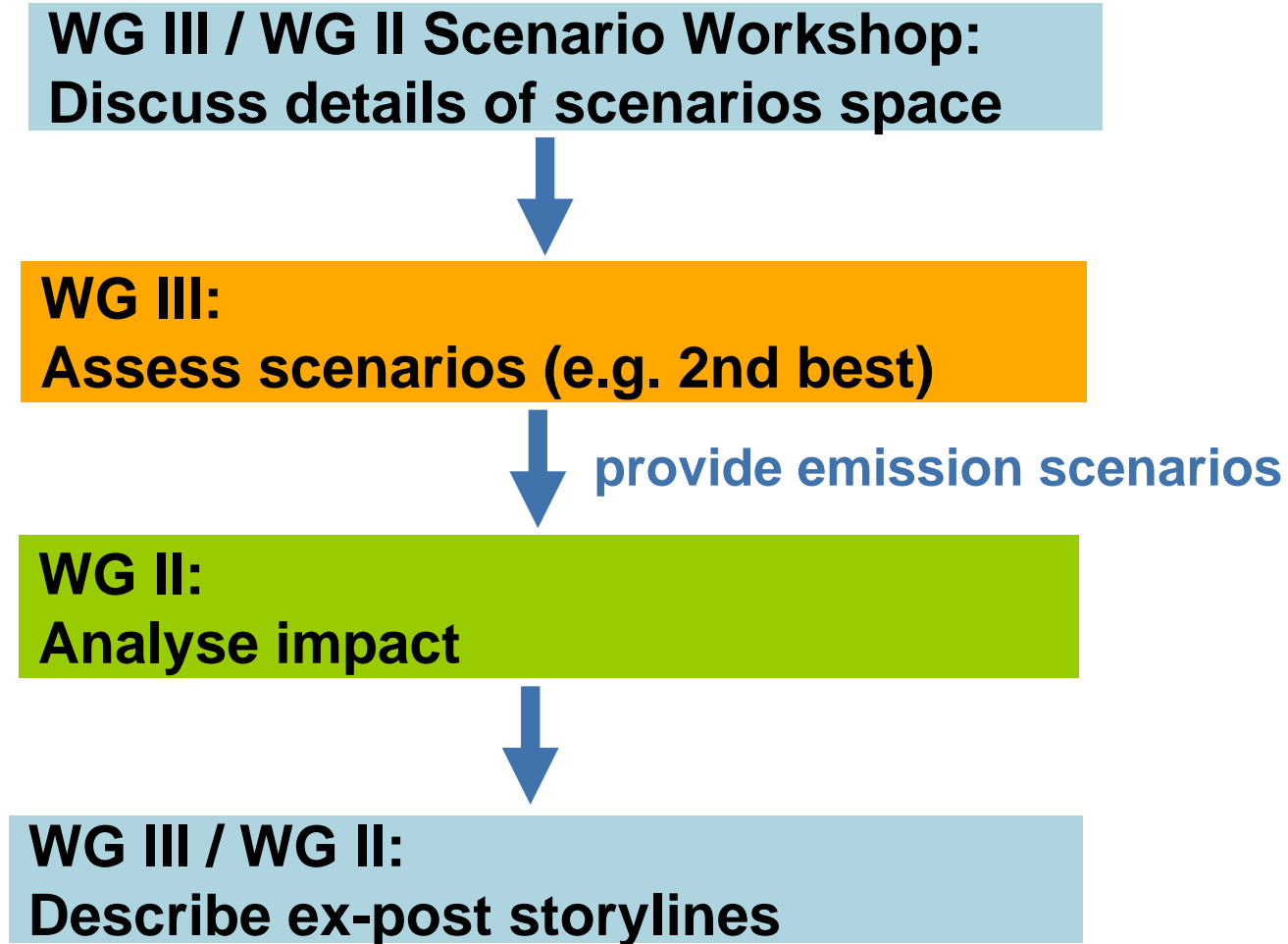
2010

Joint WG II – WG III
TBC at next IPCC plenary in Bali

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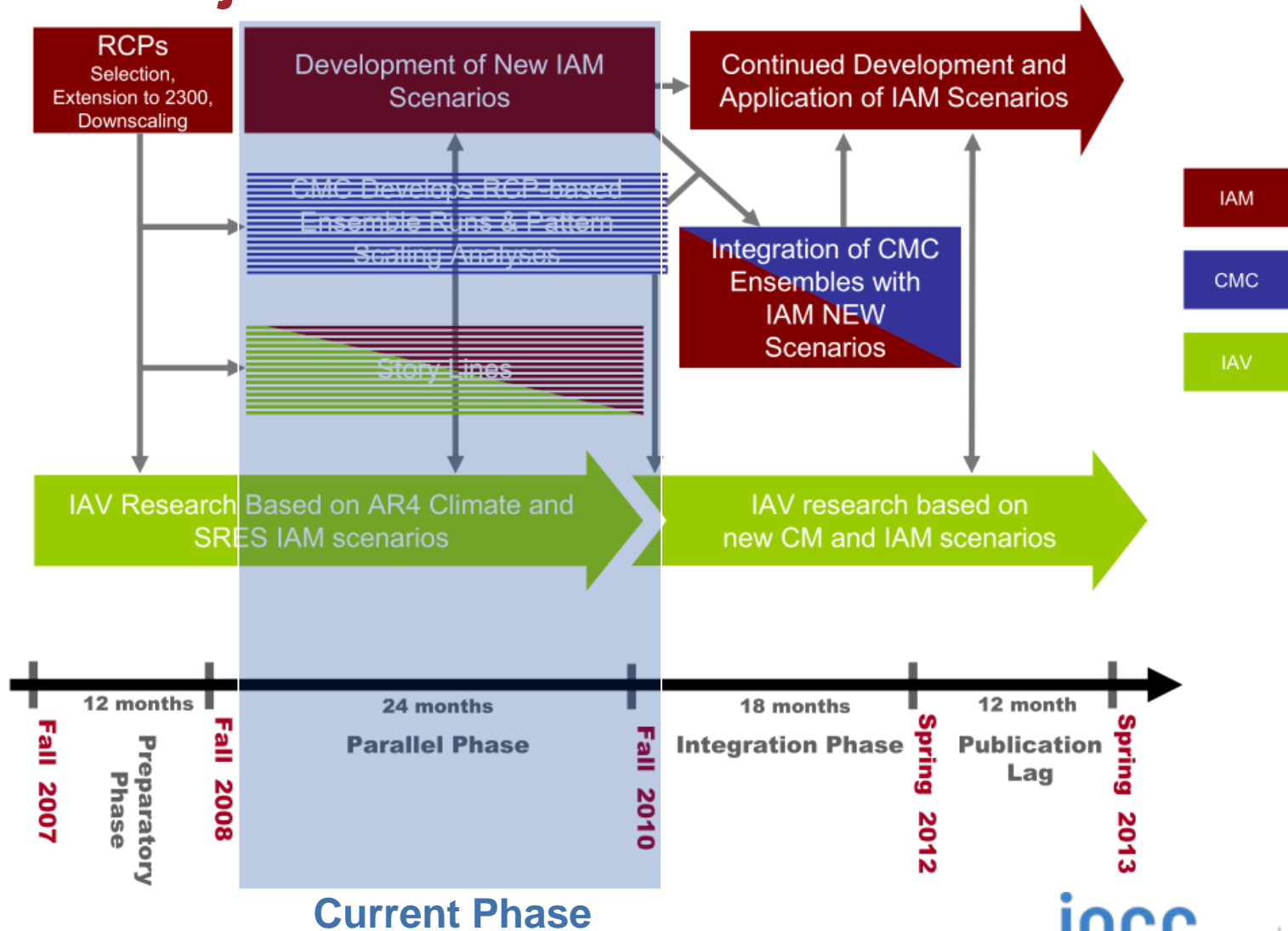
AR5 Run-up: WG II – WG III Interaction



AR5 Run-up: **Vulnerability – Adaptation Interaction**

... organized by **TGICA** (Task Group on Data and Scenario Support for Impact and Climate Analysis) in collaboration with **IAV** (Impacts, Adaptation and Vulnerability) community.

AR5 Run-up: Noordwijkerhout Timeline

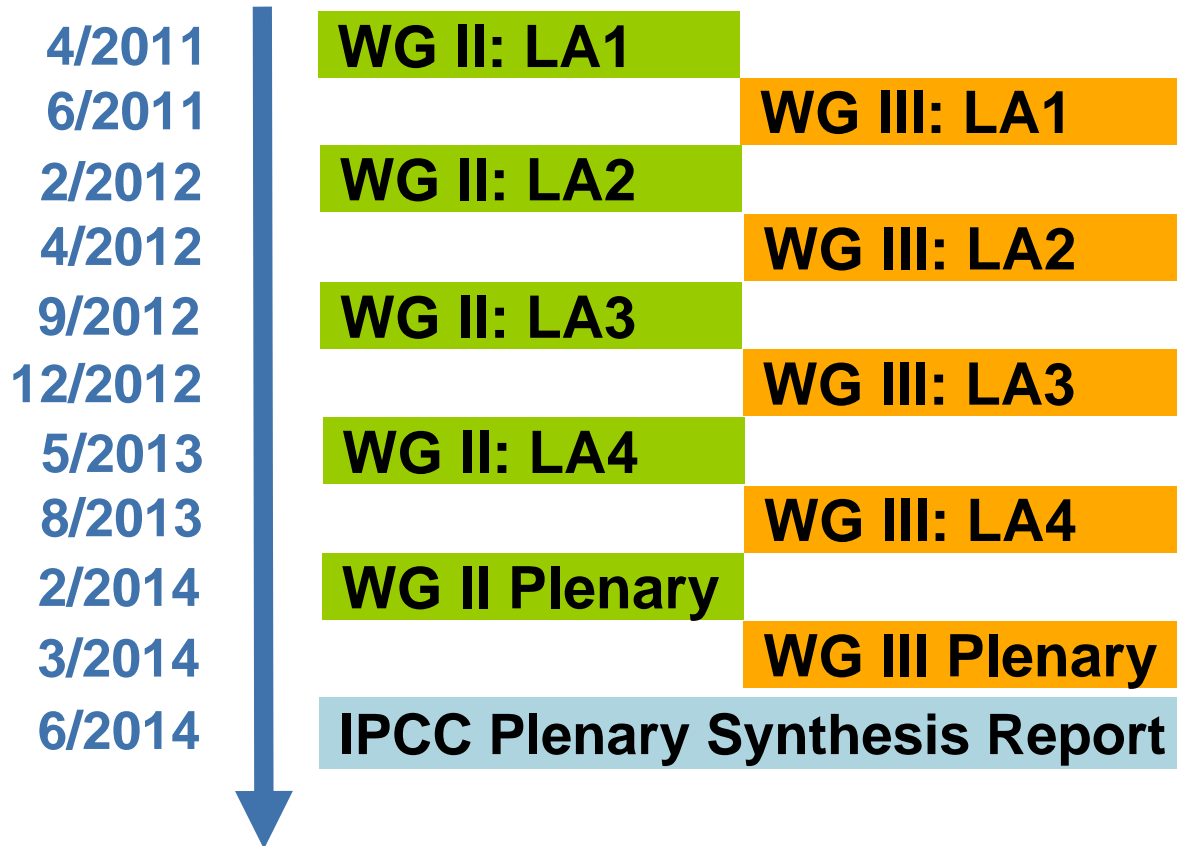


Current Phase

AR5 Run-up:

Preliminary AR5 Timeline

TBC at Next IPCC Plenary (Bali)



Papers should be accepted for publication before 5/2013 (WG II) and 8/2013 (WG III) to be included in AR5 TOD (Third Order Draft).

Almost Final Remark

The IPCC is the honest broker between experts and decision makers in business, politics and civil society.

The IPCC should be policy relevant without being policy prescriptive.