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IAMC Meeting, Tsukuba, September 15<sup>th</sup>, 2009 Professor Dr. Ottmar Edenhofer



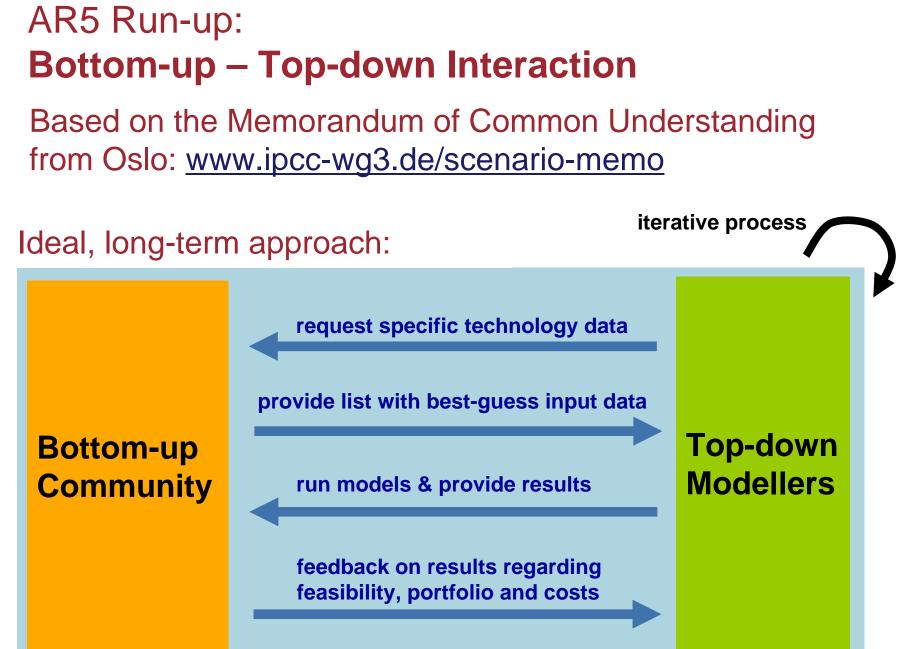
Dr. Brigitte Knopf (PIK, TSU), Dr. Timm Zwickel (TSU)

Results from Expert Meeting in Oslo
Catalytic Role of IPCC
Scenario Philosophy
Portfolio of Scenarios
Upcoming Scenario Meetings
AR5: Collaboration between IPCC Working Groups

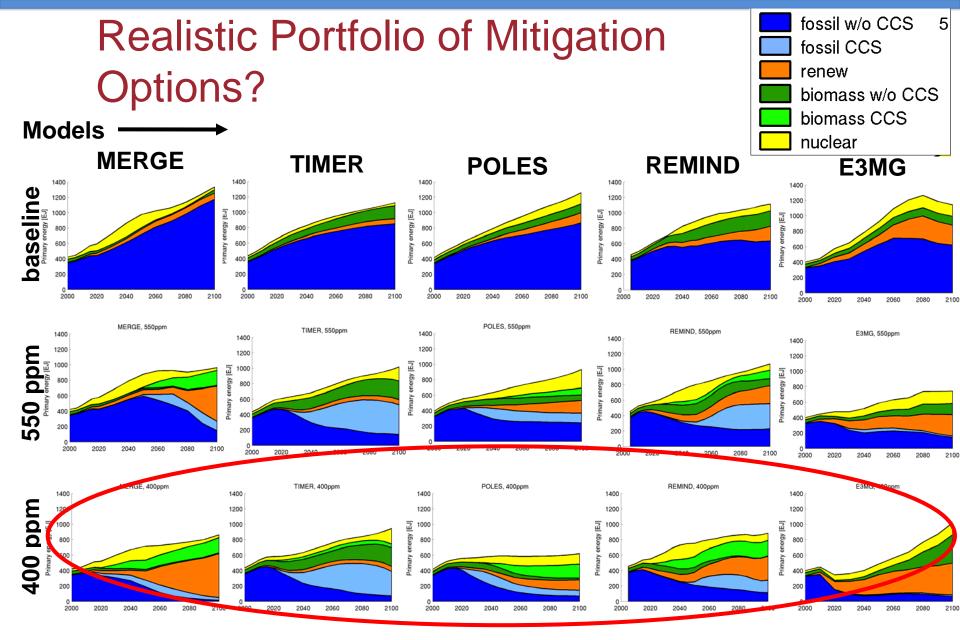


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#### Goal: More realistic representation of policy space.



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

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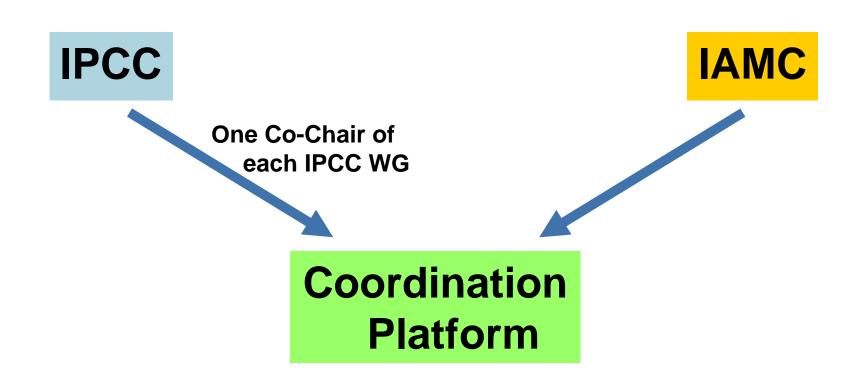


## Short- & Long-term Coordination of Scenarios

- "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

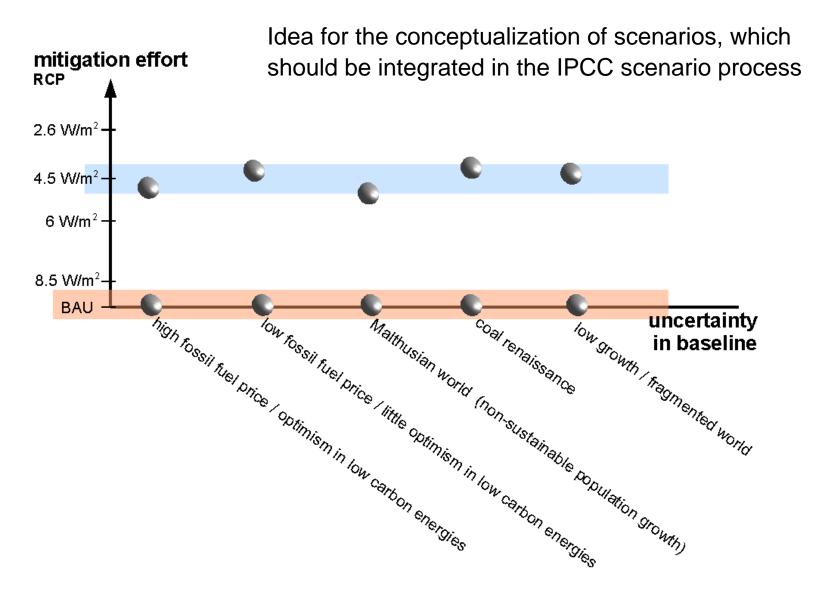
   IAMC communicates this to the scientific community
- Sharing information



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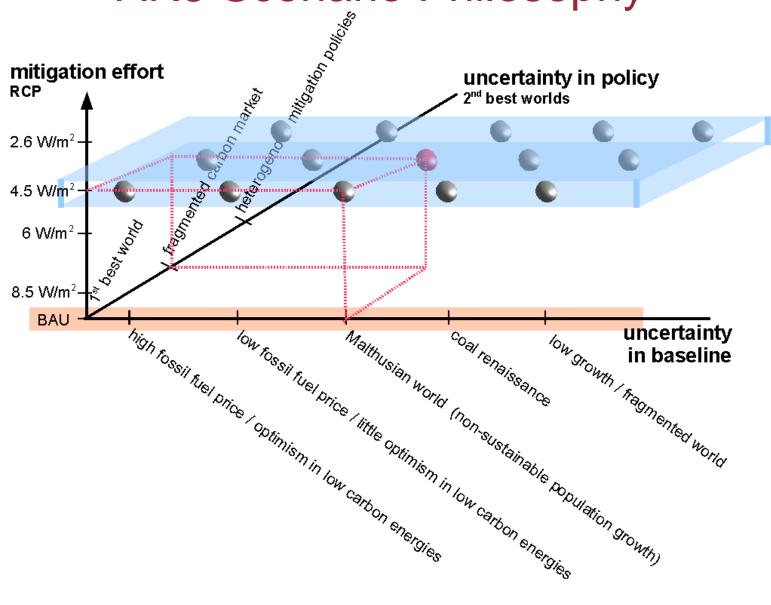


# **AR5 Scenario Philosophy**

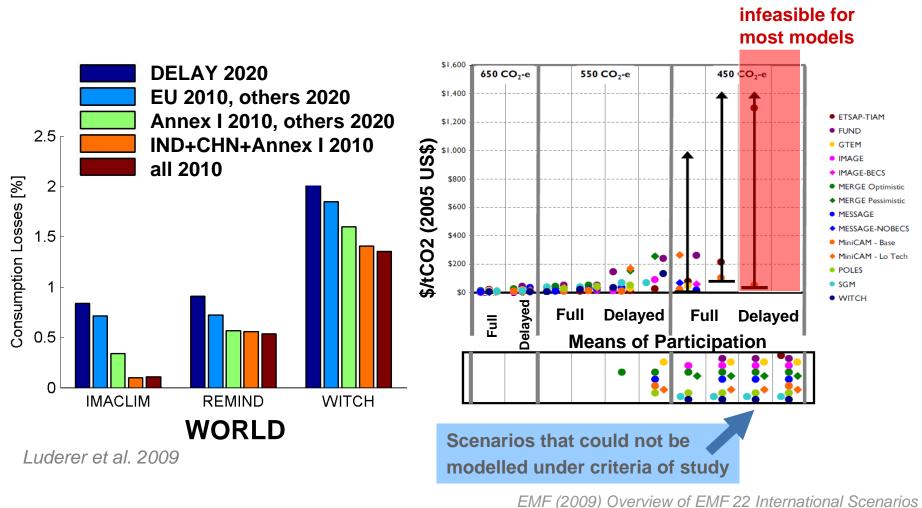


Baselines should be self-consistent

### **AR5 Scenario Philosophy**



#### **Costs & Other Problems of Delay**

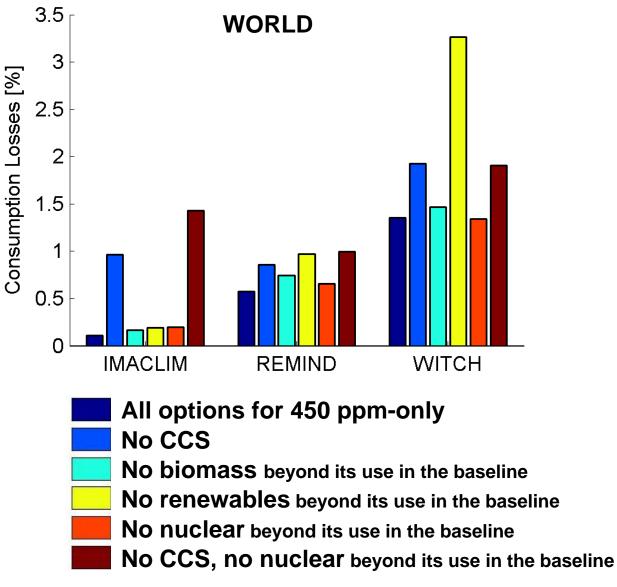


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WMO

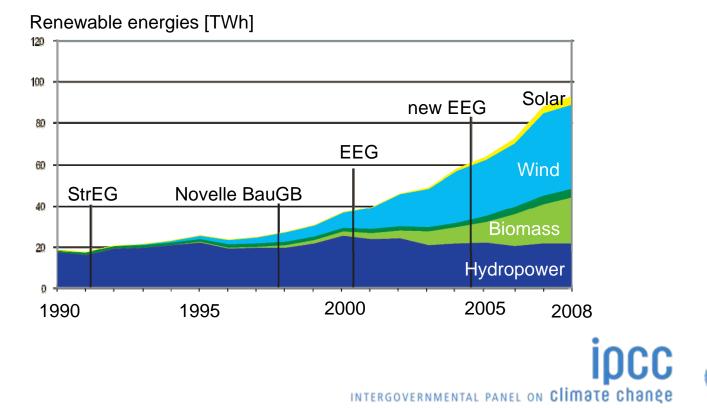
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#### Limited Availability of Technologies

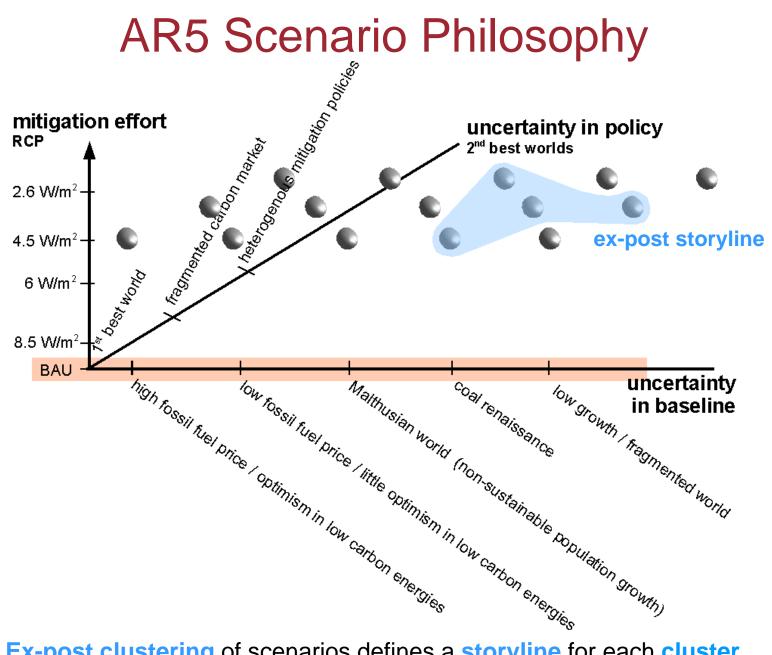


# Are Feed-in-Tariffs the most efficient way to increase Renewable Capacities?

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



BMU: Erneuerbare Energien in Zahlen (2008)



**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

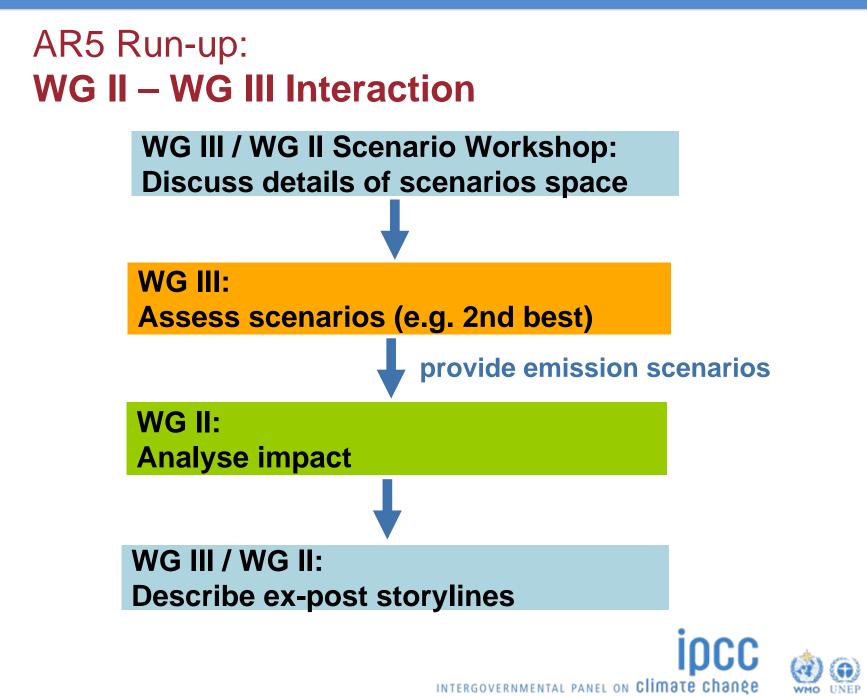
#### **IPCC AR5 Scenario Workshop**

2010 Joint WG II – WG III TBC at next IPCC plenary in Bali



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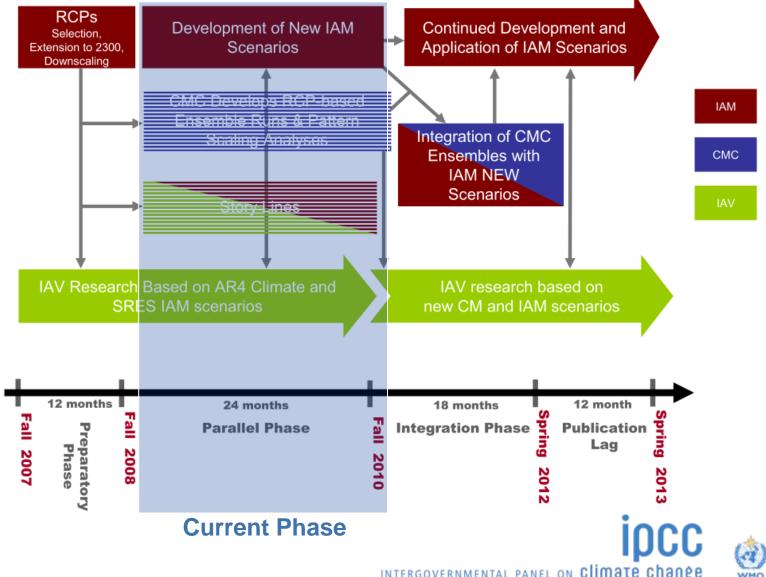


#### AR5 Run-up: Vulnerability – Adaptation Interaction

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



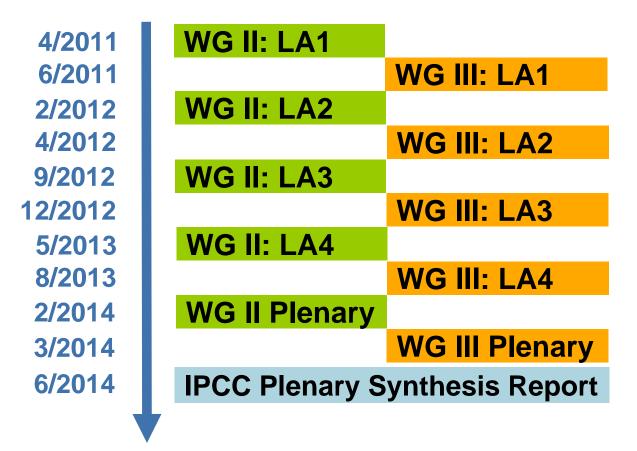
#### AR5 Run-up: **Noordwijkerhout Timeline**



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#### 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).



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# **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.

