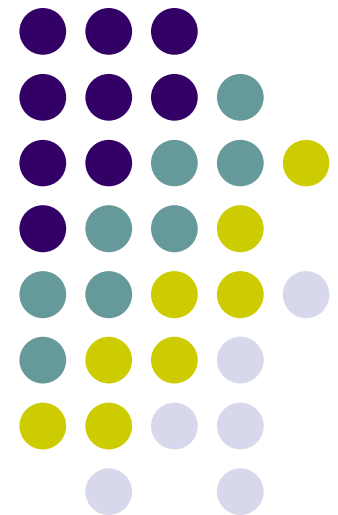


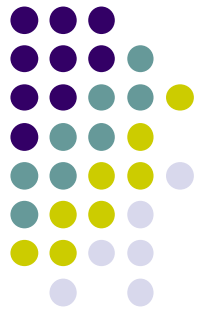
Perspectives on MRV

Dr. Xiang GAO
Energy Research Institute
National Development and Reform Commission
of China

2nd March, 2009

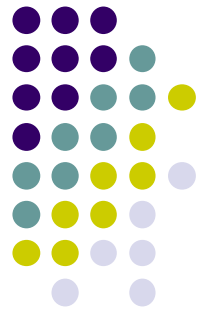
Hanoi, Vietnam





What is MRV?

What is MRV?

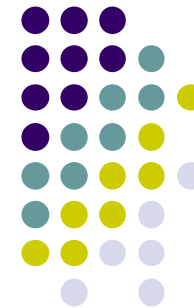


- MRV: Bali Action Plan (BAP): 1(b):
 - ◆ (i) Measurable, reportable and verifiable nationally appropriate mitigation commitments or actions, including quantified emission limitation and reduction objectives, by all developed country Parties, while ensuring the comparability of efforts among them, taking into account differences in their national circumstances;
 - ◆ (ii) Nationally appropriate mitigation actions by developing country Parties in the context of sustainable development,
 - ◆ supported and enabled by technology, financing and capacity-building, in a measurable, reportable and verifiable manner.

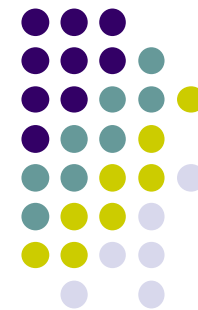
What is MRV? (cont.)



- M: KP-Article 5: to estimate anthropogenic emissions by sources and removals by sinks of all GHGs of AXI.
- R: KP-Article 7: to submit annual inventory & national communication of AXI.
- V: KP-Article 8: to review the information submitted under Article 7

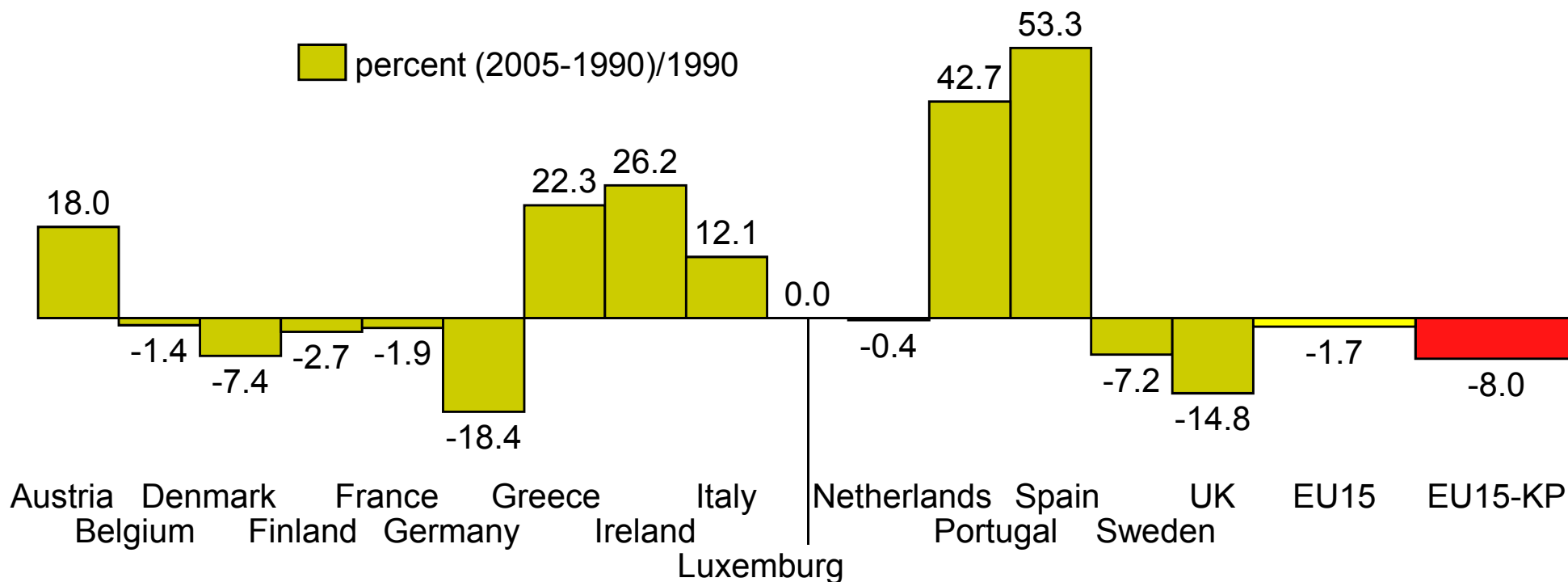


Why MRV?

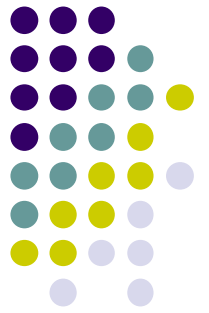


Why MRV?

- APPEARANCE: The implementation of KP and BAP
- ESSENCE: The feasibility of UNFCCC & KP



GHGs emission changes in EU15 (2005 vs. 1990)



What should be MRVed?

What should be MRVed?



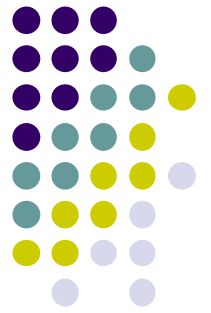
- THE HARD CORE: how much GHGs emission is and could be reduced.
 - ◆ Developed countries (Ded.)– decisive factor of the global action.
 - ◆ Finance & Technology transfer– 1/2 foundation of the mitigation capacity in developing countries.
 - ◆ Developing countries (Ding.)– the other 1/2.

What should be MRVed– Ded.



- Legally-binding quantified emission reduction targets.
- Emission reduction targets committed by Ded. Parties to the Convention shall be comparable to those to KP.
- National mitigation actions in terms of quantified emission reductions and the progress of fulfilling their commitments shall both be MRV-able.
- Similar arrangements shall be with a more robust compliance system based on existing mechanisms to prevent non-compliance.

What should be MRVed– F&T

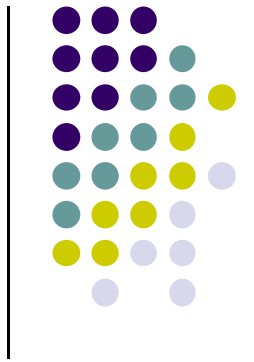


- Provision of support in terms of technology transfer, financing and capacity building by developed country Parties to developing countries shall be measured, reported and verified in a proper manner.

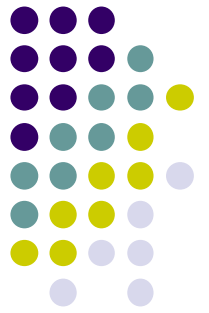
What should be MRVed– Ding.



- Nationally appropriate mitigation actions (NAMAs) by Ding. shall be country-driven.
- MRV requirements on NAMAs by Ding. are only applicable to the mitigation actions per se and shall be undertaken by their national entities in accordance with their national circumstances and practices.

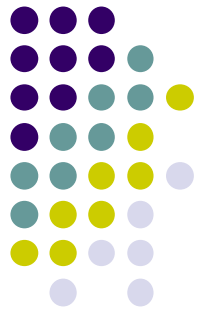


How to MRV?



How to MRV–Technology

- A subsidiary body under the Convention shall be established by the COP to technology development and transfer.
 - ◆ Organizational framework
 - Strategic planning committee; and several panels on:
 - Technology needs assessment and information;
 - Dialogue and coordination for enabling policy and measures, intellectual property management;
 - Management of financial resources targeting at development, transfer, and deployment (D&T&D) of environmentally sound technologies (ESTs);
 - Capacity building; and
 - Monitoring and assessment of performance.



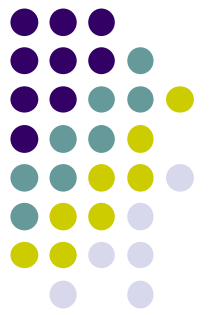
How to MRV–Technology

◆ Functions

- Provide advice, guidance and recommendations;
- Coordinate actions by different international stakeholders and governments' policies;
- Guide and supervise utilization of special TT fund based on public finance;
- Promote communication and info/knowledge sharing; and
- Monitor and assess the performance and progresses.

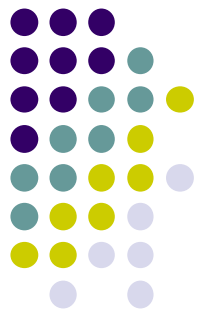
◆ Governance

- The Subsidiary Body for Technology is open to all the Parties. Members of corresponding committee and panels shall be determined by the COP. Decisions shall be made by consensus.



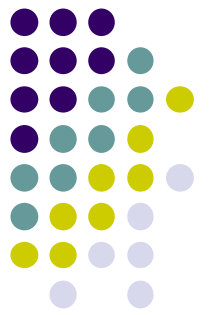
How to MRV–Technology

- Performance assessment and monitoring.
 - ◆ Touch upon the ultimate effectiveness of real development and transfer of ESTs and provide for a data/information and technical basis on which the support from Ded. is MRVed.
 - ◆ The speed, range, scale, and barriers of technological flows from Ded. To Ding. shall be regularly monitored and assessed.
 - ◆ A set of indicators, data base, steps and modalities shall be developed to implement monitoring and assessment.
 - ◆ The results of monitoring and assessment shall be fully used for planning and further decisions.



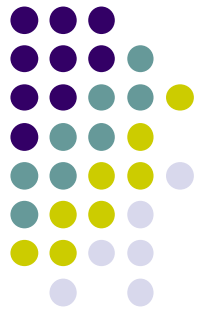
How to MRV–Technology

- Financial mechanism.
 - ◆ A Multilateral Technology Acquisition Fund (MTAF) shall be established with sources mainly from public finance from Ded.
 - ◆ Significant amount
 - ◆ In a timely manner
 - ◆ Incremental costs for D&T&D of ESTs in Ding. shall be compensated.
 - ◆ Methodologies to determine baseline cost of technological are needed.
 - ◆ Full costs of activities as capacity building, technology need assessment, information service, construction of policy infrastructure, among others, shall be covered by the proposed financial mechanism.



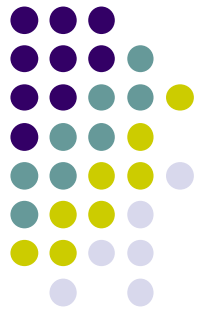
How to MRV–Technology

- Intellectual Property Rights.
 - ◆ Specific measures, steps and modalities should be developed in order to make ESTs developed by public finance in Ding.
- Cooperative Sectoral Approaches and Sector-Specific Actions.
 - ◆ Priority areas shall be identified sector by sector and technology by technology.
 - ◆ A list of major ESTs needs shall be assessed on a regular basis with analysis of reliability, costs, penetration range, sectoral shares of market production capacity and market obstacles.



How to MRV–Finance

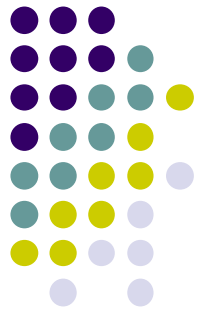
- Amount.
 - ◆ The financial resources provided by Ded. shall be new, additional, adequate, predictable and sustainable.
 - ◆ The funding scale shall be at the level of a certain percentage, e.g. 0.5%-1%, of their annual GNP
 - ◆ In addition to the existing ODA.
- Fulfillment.
 - ◆ Funds pledged outside the UNFCCC shall not be regarded as the fulfillment of commitments for the implementation of Article 4.3 of the Convention and the BAP.



How to MRV–Finance

- Governance.
 - ◆ Under the authority and guidance of the COP
 - ◆ With equitable and balanced representation of all Parties
 - ◆ Transparent and efficient manner
 - ◆ Easy accessibility and low administrative cost
 - ◆ Operated by a Board accountable to the COP, with the support of a Secretariat, a Scientific Advisory Panel, a Monitoring and Evaluation Panel, and a Trustee or Trustees.

Thank you!



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