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# Capacity Building for National Greenhouse Gas Inventories

*WRI-MAPT Workshop, Doha – 2 December, 2012*

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# Agenda

- 16.00-16.20**      **Welcome & WRI presentation of the Measurement and Performance Tracking (MAPT) project's national GHG inventory component activities.**
- 16.20-17.00**      **Country experiences developing national GHG inventory systems: capacity challenges and lessons learned**
- 17.00-17.40**      **National inventory capacity-building experiences: resources, tools, and lessons learned**
- 17.00 -18.20**      **Breakout discussion & report back: Scaling capacity building for national inventories**
- 18.20-18.30**      **Wrap up**
- 18.30**              **Dinner**

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# Measurement and Performance Tracking

A WRI initiative, supported by



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Focusing on enhancing **capacity** to measure emissions/emissions reductions and track performance towards meeting climate and energy goals.

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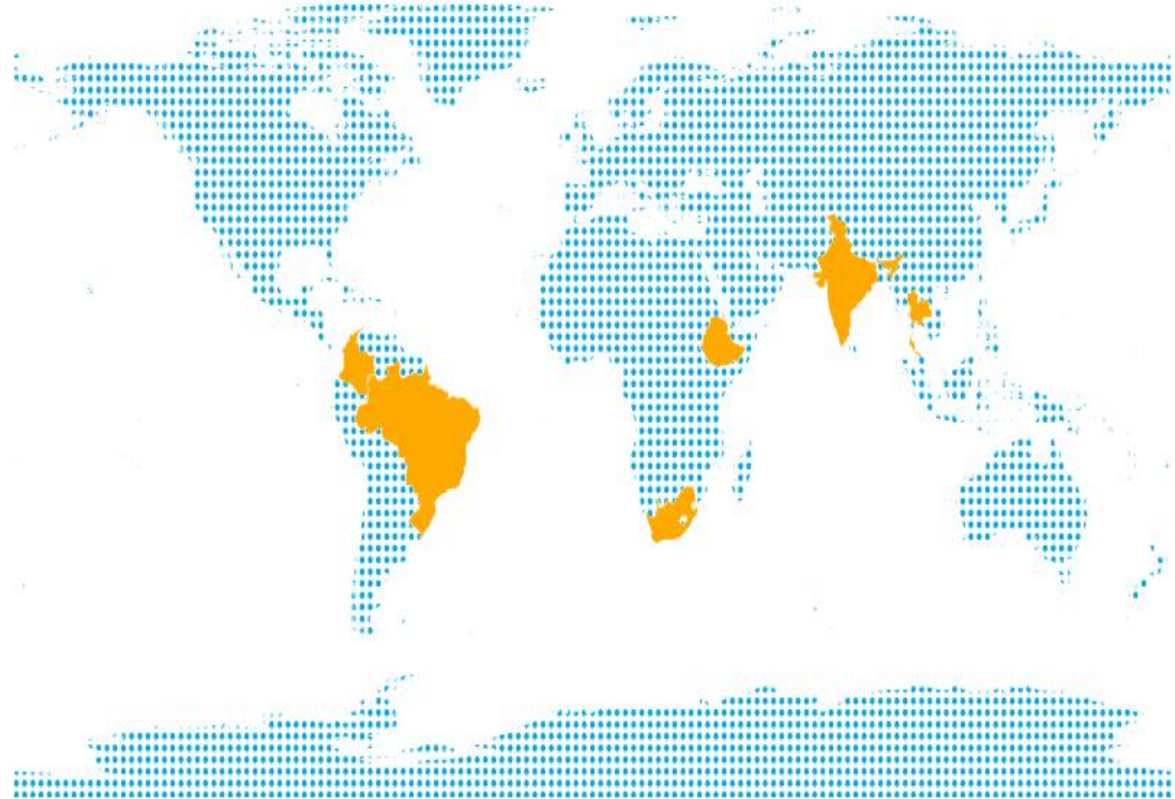
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# Priority Countries

- Brazil (tbc)
- Colombia
- Ethiopia
- India
- South Africa
- Thailand



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# Areas of Work

-  **National Greenhouse Gas Inventories**
-  Greenhouse Gas Mitigation Accounting
-  Industry
-  Institutions
-  Civil Society Policy Implementation
-  Forestry and Land Use
-  International Sharing of Experiences

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# Why Build Capacity for National GHG Inventories?

- Reporting to UNFCCC
- Domestic benefits
  - Establishing a baseline; prioritizing mitigation actions
  - Improving data management systems
  - Coordination of institutional arrangements
  - Build technical skills for policy implementation & GHG accounting
  - Others

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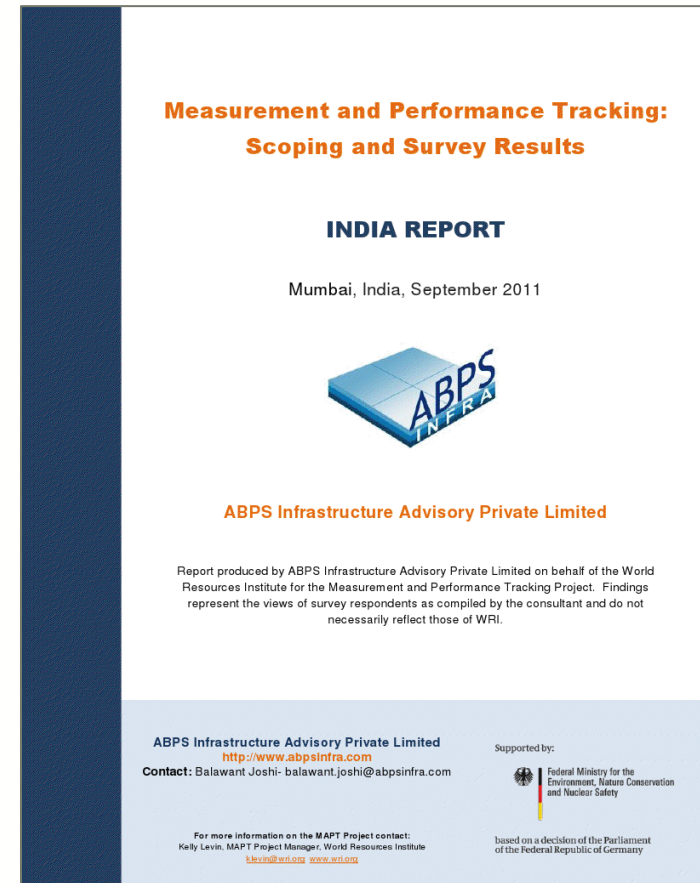
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# WRI's Research Approach

- Understanding or unpacking 'capacity'
- In-country scoping (interviews, research)
- Learning from other capacity-building organizations



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<https://sites.google.com/site/maptpartnerresearch/home>



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# Common Capacity Challenges

- Long-term institutional support and formal agreements that describe coordination of contributing organizations and agencies;
- Sufficient and well-trained personnel;
- Robust technical systems to regularly collect and use data, and document and archive relevant inventory information;
- Sector-specific challenges – e.g., LULUCF.

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# Activities: Capacity Framework Development

Capacity Category	Examples
Human Resource	<ul style="list-style-type: none"><li>• Capacity and skills of individual staff, including managerial abilities and technical skills.</li><li>• Recruitment and retention of skilled staff.</li></ul>
Institutions	<ul style="list-style-type: none"><li>• Ability of institutions to perform functions to achieve objectives.</li><li>• Effective institutional arrangements, processes and coordination mechanisms, leadership, and institutional mandates.</li><li>• Capability to identify problems and develop and implement solutions.</li></ul>
Information & Technology	<ul style="list-style-type: none"><li>• Availability and quality of data and information.</li><li>• Retention of institutional memory, archiving, and documentation procedures.</li><li>• Collection and dissemination of information.</li><li>• Technical and technological infrastructure (e.g. data collection platforms and monitoring technology).</li></ul>
Financial Resource	<ul style="list-style-type: none"><li>• Adequate financial resources to perform functions and achieve objectives, and the ability to manage these resources.</li></ul>

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# Activities: Case Study Development

## WHY?

- To document and share the details of country experiences widely;
- Assess common capacity challenges (no inventory is perfect!) and provide country-relevant successes and solutions.

## WHAT?

- Coordination and management of the national inventory by the lead Institution
- Initiating a national inventory system and moving toward a sustainable system
- Producing an inventory for the LULUCF sector

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# Activities: Technical Trainings



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# Activities - Year 3-4

- Commission additional case studies based on practitioner priorities.
- National inventory capacity assessment tool that aids countries in identifying challenges while providing supporting documentation to assist in addressing these challenges. [more later]
- Piloting of tool.

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# Workshop Objectives

- Reflect on the capacities needed to develop and manage a national inventory system
- Share good practices and lessons learned domestically and internationally
- Explore capacity building tools and resources
- Brainstorm recommendations for capacity building efforts

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# Breakout discussion: Scaling capacity building for national inventories

1. What capacity building activities are needed moving forward?
2. Are there any key capacity gaps not sufficiently addressed by existing capacity building initiatives (e.g. guidance documents, trainings, expert groups for sharing information, etc.)?
3. Are there existing resources that are particularly useful that need to be deployed in more countries?

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# Proposed Capacity Assessment Tool

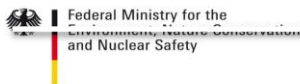
A set of assessment questions that countries can apply to identify capacity gaps. Potential assessment areas can include (but are not limited to):

- Institutional coordination
- Mandates, roles and responsibilities
- Human resource capacity
- Data and information gaps
- Methodological challenges

The tool can also include supporting documentation for each of the assessment categories. These supporting documents could include:

- Case studies highlighting various country approaches to this category (e.g. institutional arrangements etc.)
- A list of the data that will need to be collected for a national inventory
- Examples of the staff functions required for a national inventory
- A resource guide detailing capacity building tools and resources
- Primers on key topic areas

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# Feedback on Capacity Assessment Tool

1. Would this be a useful resource?
2. What should be the most important elements of such a tool? *For example, should it address specific sectors/sources; institutional arrangements; data sources?*
3. Who should the audience be - practitioners, government leaders, both, others?
4. What else should be considered in assessing countries' capacity?

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# Tools and Resources

- UNFCCC
- IPCC TSU
- UNDP GHG Inventory Handbook
- U.S. EPA AFOLU Tool and Documentation Templates
- CD-REDD
- JICA Workshops

# Institutions

There is well-established expertise related to national GHG inventory however, “there is no formalised system of coordinating data”



There is no “official organization [acting] as GHG Inventory and registry coordinator”. As a result, “competences are divided among different institutions in different ministries”

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# Financial and Human Resources

Ministries involved in the preparation of the national GHG inventory “have no permanent teams, and the ones they have are often reduced”



The lack of sufficient funds precludes the retention of skilled personnel “creating weaknesses in terms of human capacity and continuity of the processes”

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# Information and Technology



Despite India's 20 years of experience producing national GHG inventories, a formalized "inventory management system" is critical

Activity data are not easily accessible due to the lack of adequate monitoring systems



In South Africa, the "LULUCF sector is the less developed in measurement and activity data availability".



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