

Resilient nations.



#### National GHG Inventory Systems: Regional Context & Best Practices

#### Regional African Workshops On REDD+ National Forest Monitoring Systems & GHG National Inventory Systems

25-27 February 2014 Livingstone, Zambia



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety





**Australian Government** 



Key results to date include:

- **Philippines:** Supported development of Executive Order to institutionalize the National GHG Inventory System
- Lebanon: Ministry of Environment issued a Ministerial Decision introducing GHG emissions reporting for industries and commercial institutions
- Chile: Developed and launched pilot Carbon Management Programme to systematise measurement and monitor GHG emissions in the public and private sectors
- **Peru:** Collaborating with Ministry of Environment to define new Law and Bylaw for establishment of a Data Generation Network for the *"National System of GHG Inventories*

Has an <u>operational unit</u> been established with a <u>clear mandate</u> for the coordination of the GHG inventory? (n = 8)





Have any institutions been given a <u>clear mandate</u> for the collection of sectoral data for the GHG inventory? (n = 8)





Does the GHG <u>coordinating unit</u> have budget dedicated to GHG inventory development? (n = 8)





### Do <u>sectoral</u> data providers have budget dedicated to GHG inventory development? (n = 8)





## Does the inventory team have a documented QA/QC plan? (n=8)







# Do you have the following information documented?



	Yes	Νο
Source of the GHG Inventory data and rationale/assumption for its selection	75% (6)	25% (2)
GHG estimation methodology used for each data source, including rationale for methodological selection	62.5% (5)	37.5% (3)
Uncertainties	14.3% (1)	85.7 (6)

Lessons learned from Annex I countries in developing national inventory systems

 Inventory planning roles, responsibilities and collaboration between relevant organisations should be formalized as much as possible, potentially through the use agreements or law

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- QA/QC activities, national inventory improvement plans, archiving, and documentation should be implemented in a timely manner
- Important to have capacity building to strengthen the skills of national experts
- Regular and sufficient financial resources are needed to maintain the NIS

#### Lessons learned from regional UNDP-GEF inventory project (12 countries)



- Developing an NIS is iterative process
- Set priorities you can not do all in one year
- Enthusiastic (qualified) GHG INV coordinator is key
- Results can be achieved by different strategies national circumstances have to be considered
- Communicate regularly with stakeholders to raise awareness
- Involve universities /students
- Documentation is critical success factor for sustainability of the system

#### Case Study #1: Colombia's National Inventory System



LOW EMISSION

PROGRAMME

CITY BUILDING

#### Colombia's National Inventory System: Distribution of GHG Inventory Sectoral Working Groups



LOW EMISSION CAPACITY BUILDING

PROGRAMME

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## Case Study #2: Mexico's National Inventory System



Capacity Area	Challenges	Solutions/Best Practice
Institutional	<ul> <li>Technical work as well as coordination carried out by research institution</li> <li>No QA function performed and no cohesive improvement planning</li> </ul>	<ul> <li>Institutionalized within the lead institution</li> <li>CCA-UNAM solely responsible for emission estimation</li> </ul>
Human Resources	For early inventories, lacked necessary technical capacity within INECC	Gradually increased number of specialists within INECC and offered continuous training to support long-term performance
Information/Technology	<ul> <li>Incomplete data availability for the following inventory cycle</li> <li>Staff spent most of their time on administrative procedures to recover data</li> </ul>	<ul> <li>Creation of institutional databases</li> <li>Strong technical training has decreased time and need to go back to participating institutions for explanations</li> </ul>

## Mexico: Summary of National GHG Inventory Arrangements





## Good practices contributing to effective inventory system (WRI, 2004)



- Sustained institutional arrangements (not tied solely to e.g., GEF funding cycles)
- 2. Identification and enabling of a lead agency to manage the national GHG inventory process
- 3. Sectoral coordinating institutions with well-defined roles, responsibilities, and processes
- 4. Detailed institutional mandates and data-sharing agreements that include work schedules
- 5. Processes to archive inventory information and retain institutional memory
- 6. Sufficient, well managed, and sustained financial resources
- 7. Taking an iterative approach to improving the GHG NIS



- 1. How can GHG inventory systems gain support from key government agencies?
- 2. What incentives can be provided to sustain such inventory systems?
- 3. How can GHG inventories prepared under the National Communications be used an entry point for the design of inventory systems?