



The 5th Workshop on GHG Inventories in Asia (WGIA5)

Institutional Set-Up for the Second
National Communication of Malaysia

6-7 September 2007



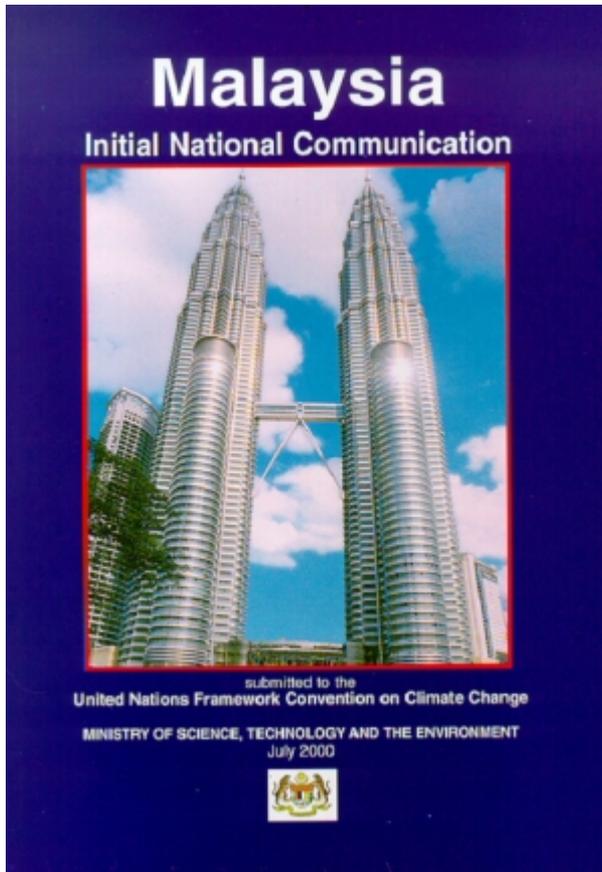
Lavanya Rama Iyer
National Project Coordinator
SNC Malaysia



Contents

1. Background
2. Stocktaking
3. SNC Operational Framework
4. GHG Inventory WG
5. Mitigation WG
6. V&A WG
7. Project Management Group (PMG)
8. Project Steering Committee (PSC)

1. Background



- Submitted in 2000
- Base year for GHG Inventory: 1994
- Project Manager and Technical Coordinator: Institute of Strategic and International Studies, Malaysia (ISIS)
- Stakeholders: scientists, experts, individuals from various government organisations, universities, research organisations and NGOs

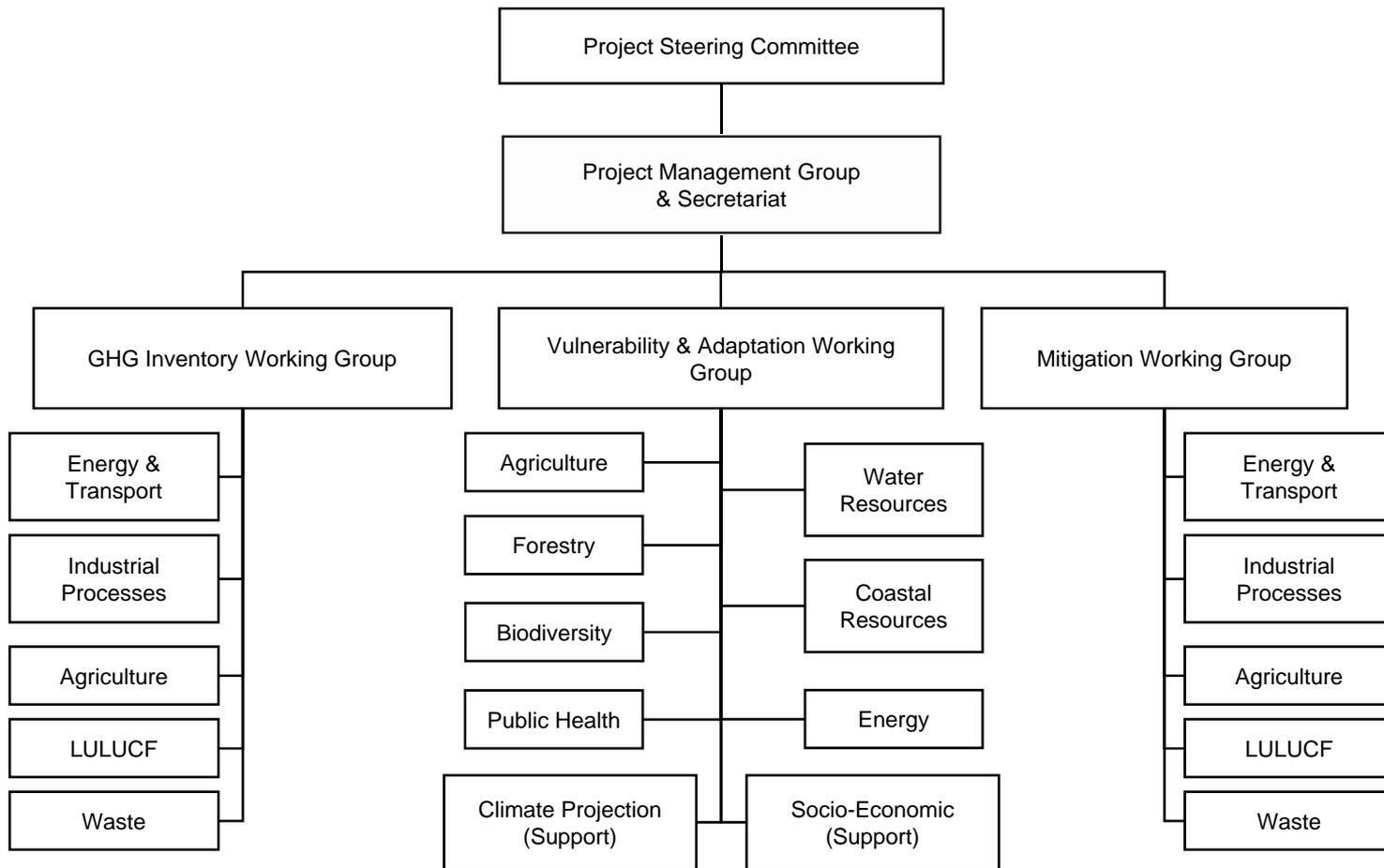


Stocktaking

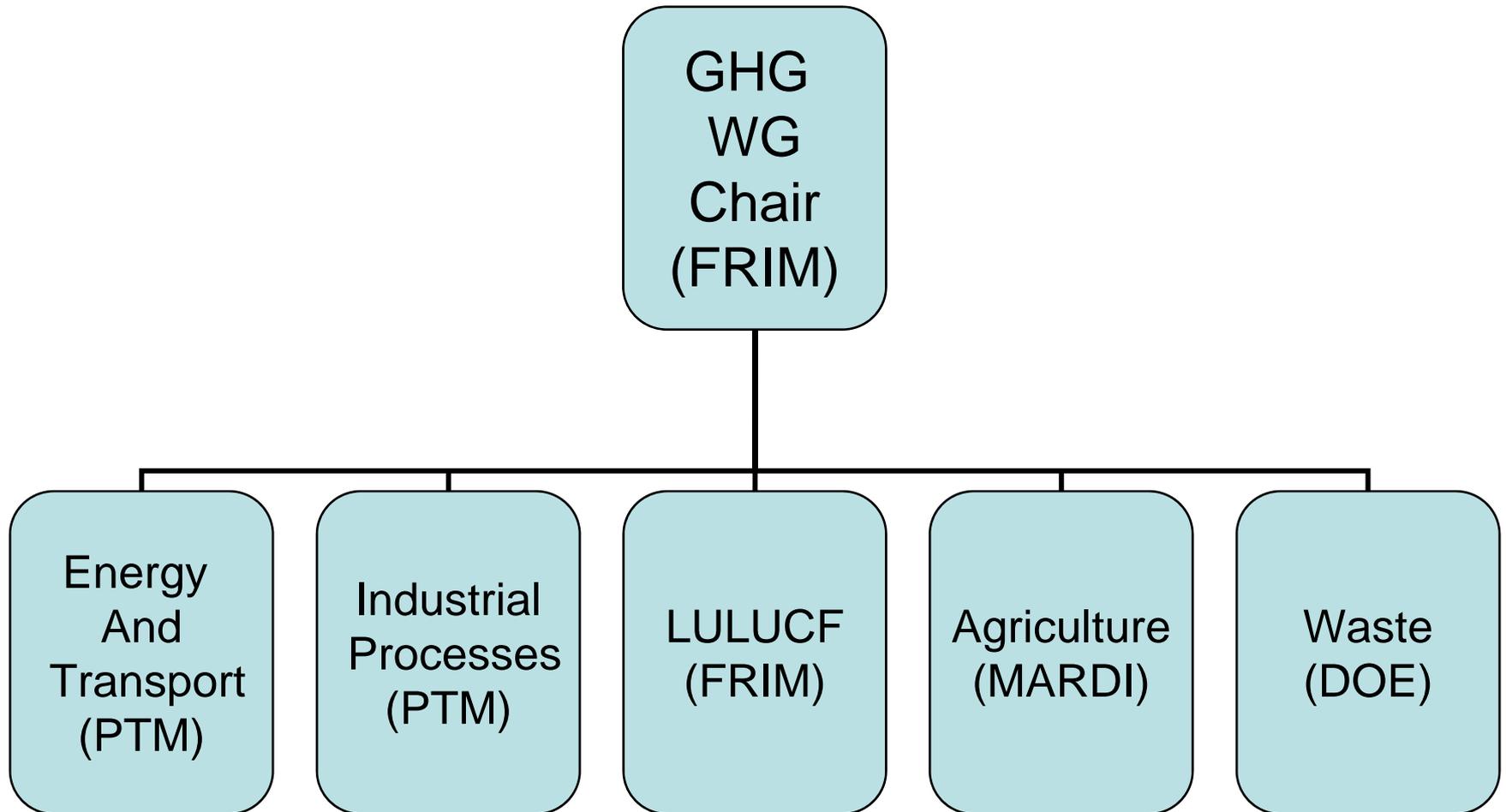
2 stocktaking workshops and consultative interviews found that:

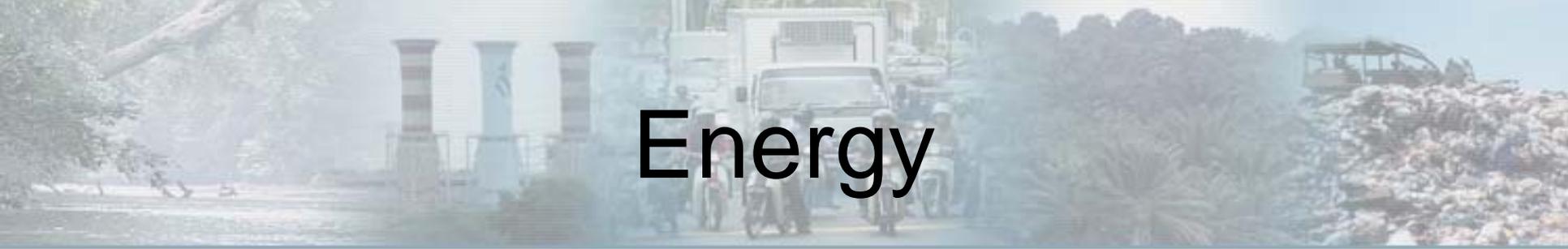
- the **institutional arrangement** for the **continuous reporting** of national communication was recognized as a main concern area that should be addressed.

3. SNC Operational Framework



4. GHG Inventory WG





Energy

Lead Agency: Pusat Tenaga Malaysia (Malaysian Energy Agency)

- PETRONAS
- Ministry of Transport (includes Military Transport);
- KTM Bhd (Malayan Railway);
- Jabatan Laut Semenanjung Malaysia (Maritime Department, Peninsula Malaysia)
- Ministry of Agriculture Peninsular Malaysia, Sabah and Sarawak;
- Jabatan Mineral and Geosains (Mineral and Geoscience Department);
- Department of Statistics ;



Industrial Processes

**Lead Agency: Pusat Tenaga Malaysia
(Malaysian Energy Agency)**

- PETRONAS;
- Cement & Concrete Association (C&CA);
- Malaysian Industrial Development Agency (MIDA);
- Malaysia Iron & Steel Federation (MISF);
- Department of Environment



LULUCF

Lead Agency: Forest Research Institute Malaysia

- Department of Forestry Peninsular Malaysia
- Forestry Department, Sabah
- Forestry Department, Sarawak
- Department of Agriculture, Peninsular Malaysia
- Department of Agriculture Sarawak
- Malaysian Palm Oil Board
- Malaysian Rubber Board
- University Pertanian Malaysia (Malaysian Agricultural University)

A background image showing a rural scene with a white van, several people on bicycles, and a large pile of agricultural produce on the right. The scene is slightly blurred and has a light blue tint.

Agriculture

Lead Agency: Malaysian Agricultural Research and Development Agency

- Department of Agriculture
- Department of Agriculture, Sarawak
- Department of Agriculture, Sabah
- Malaysian Cocoa Board
- Malaysian Rubber Board
- Malaysian Palm Oil Board
- Veterinary Services Department
- Department of Statistics



Waste

Lead Agency: Department of Environment

- Town and Country Planning, Sabah
- Kota Kinabalu Dewan Bandaraya Kota Kinabalu
- Natural Resources & Environment Board Sarawak
- Sewerage Services Department
- Solid Waste Management Department
- Local Government Department,
- Malaysian Statistics Department
- Malaysian Palm Oil Board
- University Pertanian Malaysia
- FELDA
- FELCRA
- Malaysian Rubber Board
- Kualiti Alam Sdn Bhd (Solid Waste)
- Indah Water Konsortium (Sewerage)

GHG Inventory WG

Main Outputs

- Database of data collected for preparation of the GHG Inventory for base year 2000 and time series of GHG inventory for years 1990 to 2004.
- The GHG Inventory Report for Base Year 2000.
- The National Communication Procedural Manual: GHG Inventory.
- The Action Plan for Improvement of the GHG Inventory.



NC Procedural Manual

- Compilation of sectoral reports on the procedures and arrangements for data collection and verification.
- List of agencies, departments and other resources consulted for data collection, including name and contact details of data sources.
- Gaps and constraints encountered.
- Recommendations for improvements.

Action Plan for Improvement of GHG Inventory

- Compilation of sectoral action plans to:
 1. Improve emission calculations.
 2. Create a reliable data management and storage system.
 3. Improving archiving and documentation.
 4. Quality Assurance/Quality Control through improved verification procedures.
- Guidelines to update database continuously and integrate new features.
- Provide recommendations of activities to prepare for the application of new IPCC guidelines in future inventories.

Mitigation WG

Mitigation
WG
Chair
(PTM)

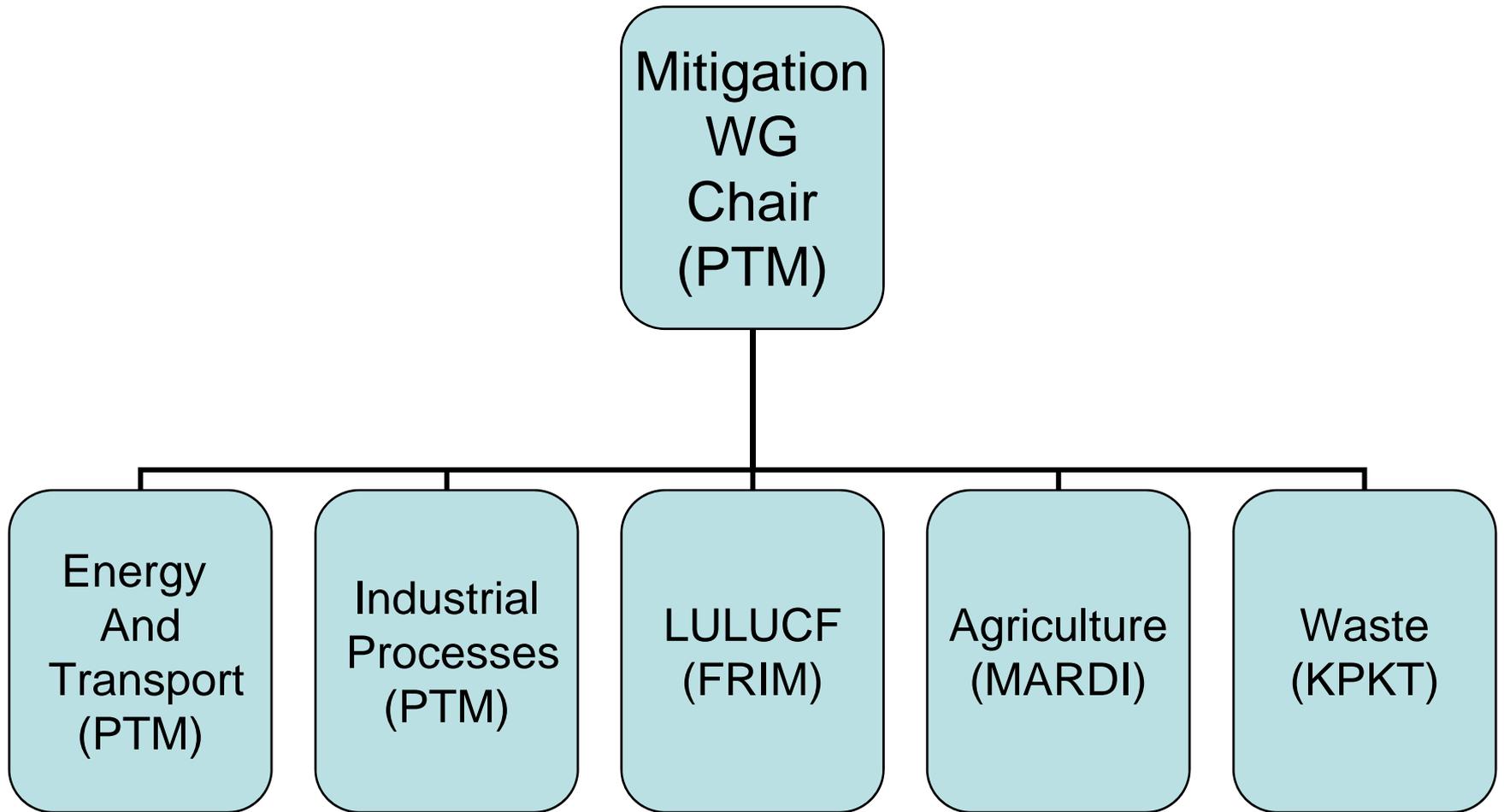
Energy
And
Transport
(PTM)

Industrial
Processes
(PTM)

LULUCF
(FRIM)

Agriculture
(MARDI)

Waste
(KPKT)





Mitigation WG Main Outputs

- The Mitigation Assessment Report.
- The National Communication Procedural Manual: Mitigation Assessment.
- The National Action Plan to Mitigate GHG Emissions.

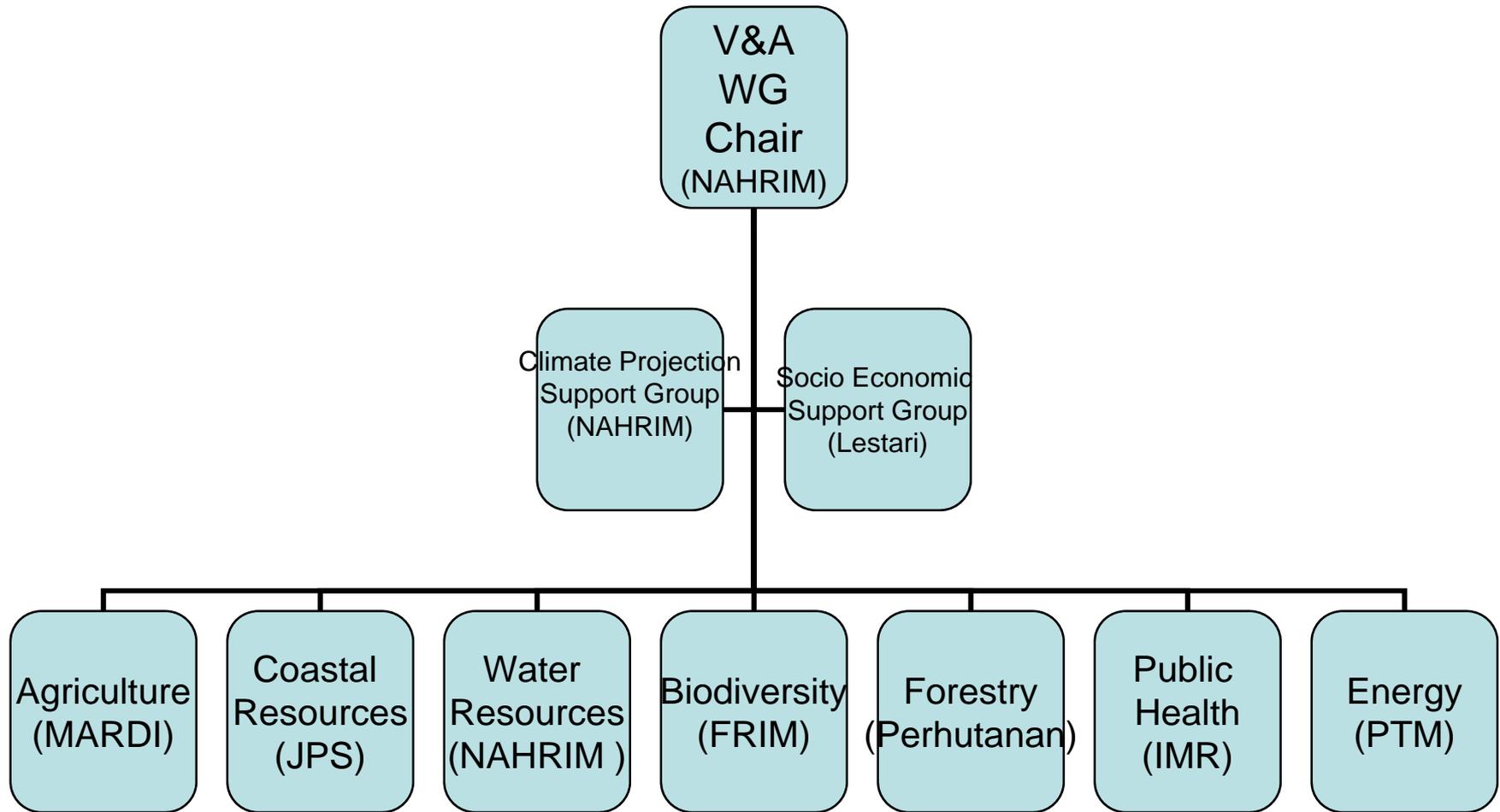
Mitigation Assessment Report

- Compilation of sectoral reports that
 1. Gather and present information on implemented/adopted GHG reduction measures.
 2. Report on progress and impact of CDM projects.
 3. Identify, formulate and prioritise other potential mitigation policies and measures based on national condition and circumstances, reflecting national policies/sustainable development goals.
- BAU projection into 2020 using 2000 GHG Inventory.
- Develop two projections incorporating mitigation measures and analyse their cost benefit using economic tools.

The National Action Plan to Mitigate GHG Emissions

- Main improvement requirements to be identified:
 1. cost analysis,
 2. barriers for implementation,
 3. assessment of technology options for the different mitigation options,
 4. institutional capacity-building needs to sustain mitigation work,
 5. legal and institutional frameworks.

V&A WG





V&A WG

Main Outputs

- The V&A Assessment Report.
- The National Communication Procedural Manual: V&A.
- The National Action Plan: V&A.
- Cross sectoral analysis of V&A assessments to identify linkages.

V&A Assessment Report

- Assessment of Global Climate Model (GCM) outputs.
- Deliberate a 2 way interaction mechanism with GCM to improve climate scenario projections on a regional scale.
- Literature review of vulnerability of different sectors.
- Review, analyse and update sectoral vulnerability analysis in INC using GCM outputs and literature review.
- Analysis of socio economic impacts of sectors vulnerable to CC.
- Adaptation strategies for vulnerable sectors along with a cost analysis.
- Cross sectoral analysis of adaptation strategies to identify linkages.



National Action Plan: V&A

- Gaps and limitations in present analysis
- Improvements for future analyses
- Improving analyses based on identified synergies between sectors
- Identify technical, capacity building and financial requirements
- Identify potential barriers and risks to implementation



PMG

- National Project Director/Alternate: Head, CEMD, NRE/UNFCCC Focal Point
- Principal Assistant Secretary for Climate Change, CEMD, NRE
- Secretariat: NPC and Assistant
- UNDP-Co: Ad-hoc



PMG

- Day to day management of Project Activities

8. PSC

Chair: chaired by the Deputy Secretary-General (I) of Ministry of Natural Resources and Environment (NRE)

1. Conservation and Environment Management Division (CEMD), NRE
2. Natural Resources and Environment Section, EPU, Prime Minister Department
3. Energy Section, EPU, Prime Minister Department
4. Ministry of Energy, Water and Communication
5. Ministry of Agriculture & Agro-Based Industries
6. Ministry of Plantation Industries & Commodities
7. Ministry of Science, Technology & Innovation
8. Ministry of Transport
9. Ministry of Housing & Local Government
10. Ministry of International Trade and Industry
11. Ministry of Health
12. Ministry of Education
13. Ministry of Higher Learning
14. Malaysian Meteorological Services Department
15. Department of Statistics
16. Sabah State Economic Planning Unit
17. Sarawak State Planning Unit
18. Centre for Environment, Technology and Development Malaysia
19. Malaysia Nature Society
20. Federation of Malaysian Manufacturers
21. Institute of Strategic and International Studies Malaysia
22. UNDP representative



7. PSC

- Top Management Support and Policy Advice
- Monitor and review project progress

SNC Partners



GEF





Thank you

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