Measurement Reporting Verification

SISTEM REGISTRI NASIONAL

PENGENDALIAN PERUBAHAN IKLIM

BHINNEKA TUNGGAL IKA

LESSON LEARNED AND EXPERIENCES FROM EXISTING MRV ARRANGEMENTs IN INDONESIA

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NATIONAL COMMUNICATION AND BUR

2000-2005
Submitted UNFCCC
14 Jan 2011

2000-2012
Summitted Dec 2014
Result 18 Mar 2016
FSV June 2017

2000-2014
Submitted UNFCCC
14 Feb 2018

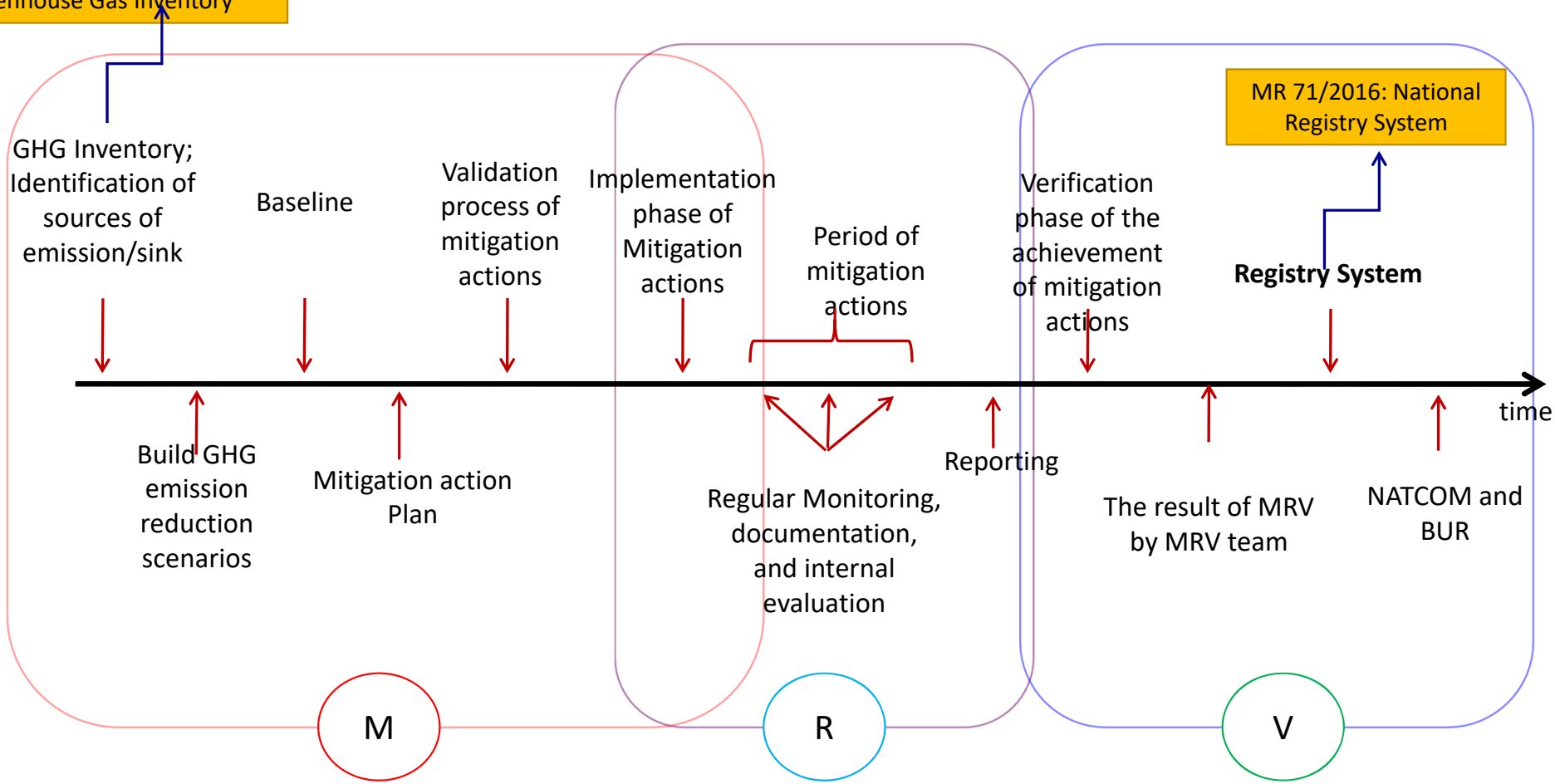
2000-2016
Summitted UNFCCC
21 Dec 2018
ICA BUR 23-27 Mei 2019
Result and FSV ?

STEPS OF INDONESIA SECOND BUR DEVELOPMENT

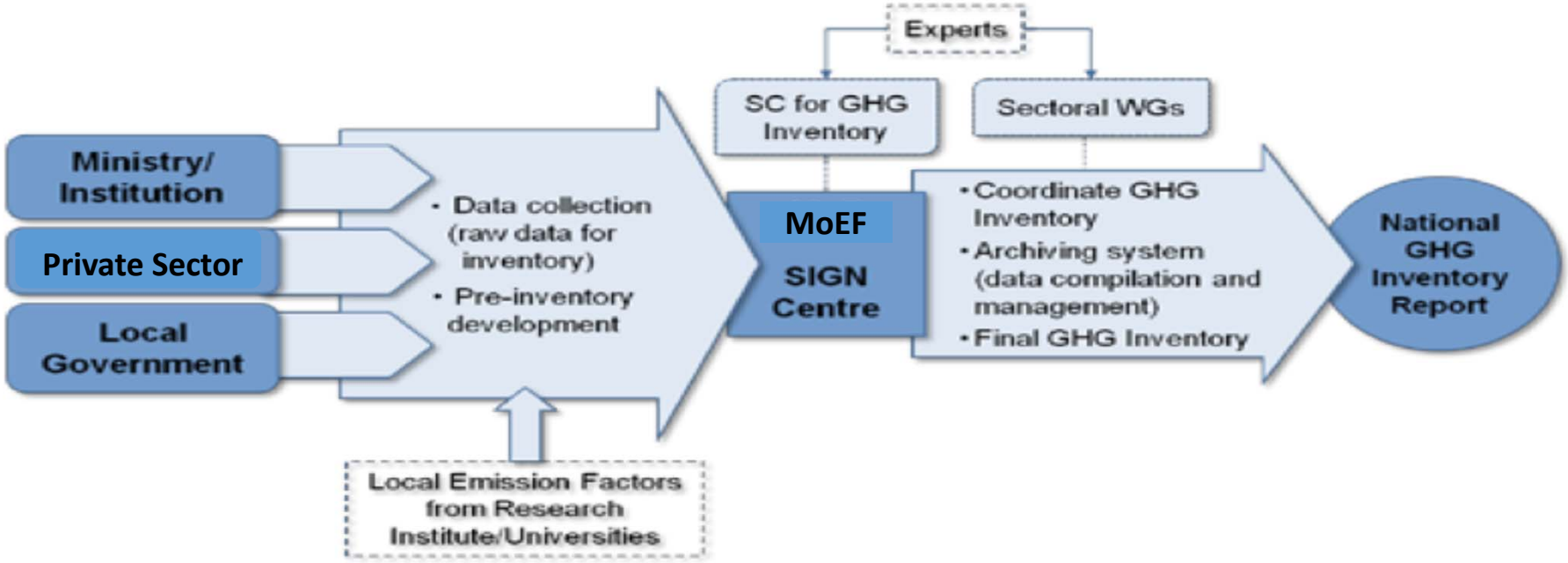
1. **DEVELOPED SECOND BUR (2017 DAN 2018):**
   - Kick of Second BUR development (NFP, Sector, Sub Sector, NGO, Experts)
   - Identify improvement plan from first BUR to second BUR
   - Developed of National Circumstances
   - GHG Inventory
   - Mitigation Action and Their Effects (mitigation action per sector)
   - Support (Finance, Technology Transfer and Capacity Building)
   - MRV (Reporting from Sector, verification by Verificator Team, *emission reduction based on actual* emission and baseline)
2. **SUBMITED SECOND BUR: 27 DEC 2019**
3. **ICA BUR 23-27 MAY: AREAS FOR CLARIFICATION BY EMAIL AND CONFERENCE CALL**
4. **FINAL CLARIFICATION AND ADDITIONAL DATA AS NEEDED 14 JUNE 2019**
5. **WAITING FOR RESULT BY TTE**
6. **FACILITATIVE SHARING OF VIEWS (PREDICTED in COP 25)**

Institutional Arrangement For Each Steps of M – R - V

1. PR 71/2011 : National Registry System
2. MR 73/2016 : National Greenhouse Gas Inventory



PR 71/2011: National Greenhouse Gas Inventory



BUSINESS PROCESS OF MRV PROCESS OF NATIONAL MITIGATION ACTIONS

CO-COORDINATOR:
MoEF AND NATIONAL PLANNING AGENCY
(COORDINATE 5 SECTORS)

1. Consolidation of Baseline and emission reduction target, led by Co Coordinator (MoEF and National Planning Agency)
2. Establishment of Baseline and Emission reduction Target, by MoEF
3. Low Carbon Development Planning by Co Coordinator National Planning Agency and MoEF (energy sector; IPPU sector; forestry sector; agriculture sector; waste sector; and Blue Carbon)
4. Budget Tagging, by MoF

Proponent (energy sector; IPPU sector; forestry sector; agriculture sector; waste sector)
→ Claim of Emission reduction

1. Monitoring, evaluation, and reporting of mitigation actions by National Planning Agency
2. National Registry System

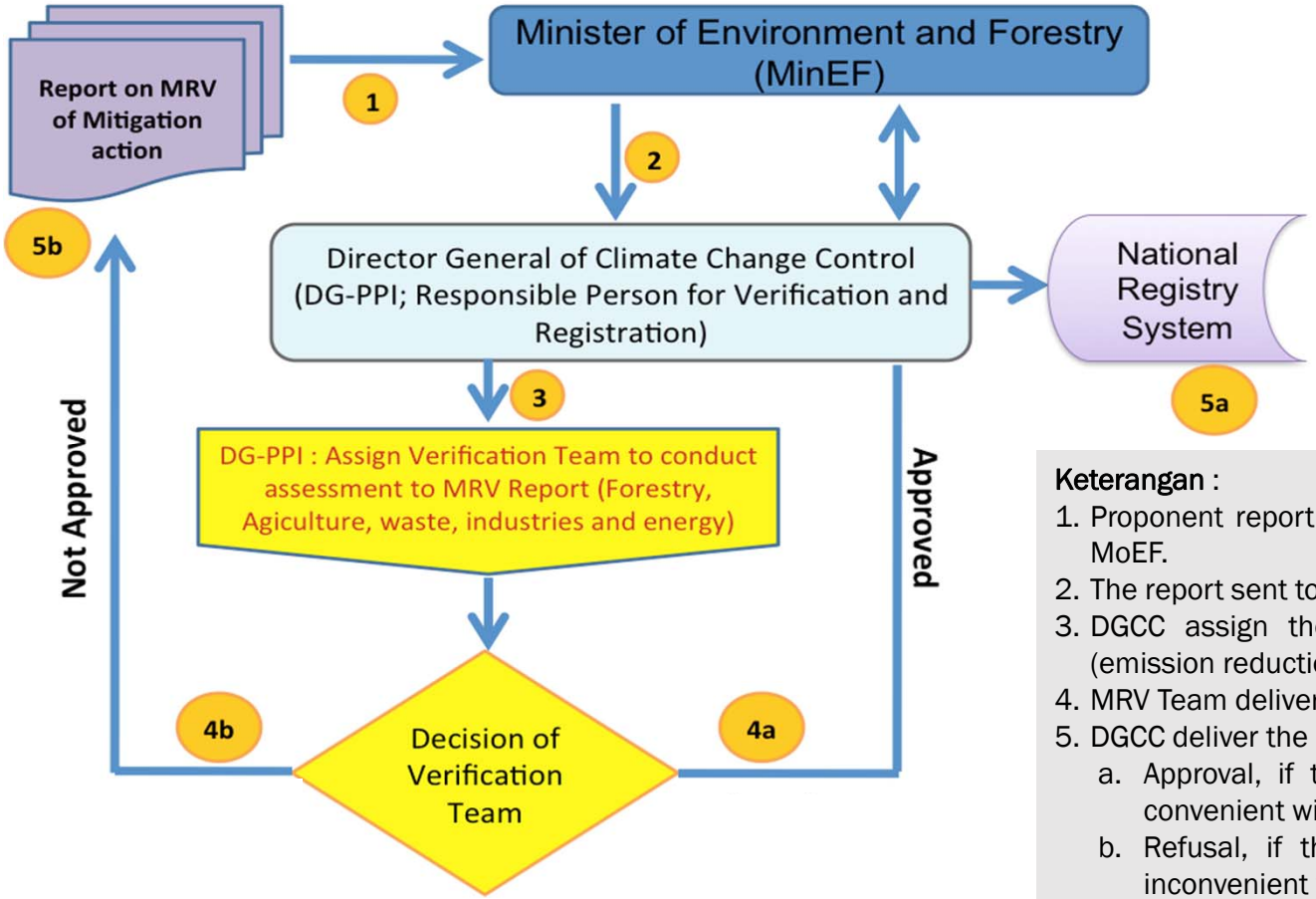
National Planning Agency :
1. Validation
2. Claim of Emission reduction
3. Documentation
4. Archiving

MoEF:
1. Validation
2. Verification
3. Verified Emission reduction
4. Documentation
5. Archiving

Ministry of Economic Affairs and Ministry of Environment and Forestry:
National Reporting to President
MoEF:
NATCOM dan BUR

Procedure for the evaluation of MRV report

(MR 72/2016: National MRV System)



Keterangan :

1. Proponent report the emission reduction from mitigation actions to MoEF.
2. The report sent to DGCC as an authority for verification process.
3. DGCC assign the National MRV Team to verify the performing (emission reduction claimed) of mitigation actions.
4. MRV Team deliver the verification result to DGCC.
5. DGCC deliver the recommendation to Minister :
   a. Approval, if the appraisal showed that the reduction claimed convenient with the document.
   b. Refusal, if the appraisal showed that the reduction claimed inconvenient with the document.

CHALLENGES IN THE MRV PROCESS

1. Technical challenges

- To address the database weaknesses, data providing and information management → Guideline for Emission reduction Methodology;
- QC and QA for each Level → QA/QC guideline
- Disagreements in terms of methodology of proponents and vinificator's → Methodology by Experts Panel
- Lack of technical to calculate of uncertainty →QA/QC Guideline including uncertainty guideline analysis (Cooperation Netherland)
- Land Sector: peat decomposition and peat fire (natural disturbances and anthropogenic); role conservation of carbon stock and land degradation to enhance carbon stock

CHALLENGES IN THE MRV PROCESS

1. **Technical challenges**
   - Energy Sector: Disaggregation transportation for train and land transportation; disaggregation energy use for agriculture, construction and mining
   - IPPU Sector: Enhancing data collection for ammonia, nitride acid, aluminum, metal, pulp and paper and chemical
   - Agriculture sector: mitigation action for organic fertilizer, liming use, manure management as biogas
   - Waste sector: solid and liquid waste Industry, sludge recovery and bio digester

CHALLENGES IN THE MRV PROCESS

2. Human Resources challenge

- Lack certified vinificator resource
- Lack of Experts in energy, waste and IPPU sector
- Independent vinificator accredited by National Accreditation Committee
- Research Institution involved
- Student research in climate change

STRENGTHEN INDIVIDUAL CAPACITY TO ENHANCE TRANSPARANCY ON REPORTING

1. Capacity building for sector and sub sector:
   a) GHG Inventory and reporting, using sign smart web application (target 2020 for each sector self developing and reporting of GHG Inventory)
   b) MRV training for independent verification from experts and also from accredited private company
   c) Public Registry Registration for proponent of mitigation action
   d) QA/QC, KCA, Uncertainty analysis
2. Improving individual capacity analysis for GHG Inventory and Mitigation Action

Design for Tracking Progress NDC

NDC should be "MRV – able"

Avoiding double counting in estimating NDC Performance

Portal information for mitigation and adaptation actions and resources (finance, capacity building, and technology transfer) by government and NPS

NDC ROADMAP up to 2030

Methodology review through **Methodology panel**

Methodology

M R V

National Registry System


THANK YOU