

# NAMA and MRV: In Market Mechanisms

#### New Market Mechanism and MRV Workshop July 4, 2011

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## **NAMAs are Mitigation Actions**

◆It has been discussed under the UNFCCC since 2007 (COP13)

It refers to the mitigation actions under the convention with MRV component

1. *Decides* to launch a comprehensive process to enable the full, effective and sustained implementation of the Convention through long-term cooperative action, now, up to and beyond 2012, in order to reach an agreed outcome and adopt a decision at its fifteenth session, by addressing, inter alia:

- (b) Enhanced national/international action on mitigation of climate change, including, inter alia, consideration of:
- (ii) <u>Nationally appropriate mitigation actions by developing country Parties</u> in the context of sustainable development, supported and enabled by technology, financing and capacity-building, in a measurable, reportable and verifiable <u>manner</u>;

### NAMAs can be supported by Market Mechanisms

80. *Decides* to consider the establishment, at its seventeenth session, of one or more market-based mechanisms to enhance the cost-effectiveness of, and to promote, mitigation actions, taking into account the following:

 Ensuring voluntary participation of Parties, supported by the promotion of fair and equitable access for all Parties;

(b) Complementing other means of support for nationally appropriate mitigation actions by developing country Parties;

(c) Stimulating mitigation across broad segments of the economy;

(d) Safeguarding environmental integrity;

(e) Ensuring a net decrease and/or avoidance of global greenhouse gas emissions;

(f) Assisting developed country Parties to meet part of their mitigation targets, while ensuring that the use of such mechanism or mechanisms is supplemental to domestic mitigation efforts;

(g) Ensuring good governance and robust market functioning and regulation;

Cancun Agreement (FCCC/AWGLCA/2010/L.7) 3

## NAMAs can be Based on the National Policy for Climate Change

National Development Plan

Climate Change Policy
 ✓Low Carbon Development Strategy
 ✓Mitigation Strategy

#### Mitigation Options

 ✓ Government Program
 ✓ Market Mechanisms (e.g. Emission Trading, Domestic offset scheme)

MRV of NAMAs can be Regional and Sector basis Scope Data		
National Inventory	National Level	IPCC Guideline National Data
<ul> <li>NAMAS</li> <li>Government Program</li> <li>Market Mechanisms (e.g. emission trading, domestic offset scheme)</li> </ul>	Regional Sector Program Project	IPCC+CDM +α Regional/ Sector Data
◆CDM	Project Specific	CDM Methodology Project Specific Data 5

## Calculation of NAMAs Requires Emission Reductions like CDM

National Inventory

Emissions = Activity Actual\* CO<sub>2</sub> EF

NAMAs

Emissions Reductions = BAU(Activity estimated \* CO<sub>2</sub> EF) – Project (Activity Actual \* CO<sub>2</sub> EF)

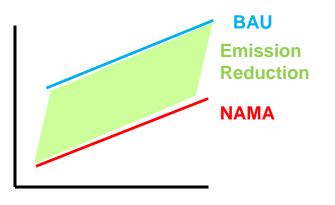
♦CDM

**ER = Baseline Emission – Project Emission** 

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# **ER = Comparing with BAU**

- When calculating emission reductions, most important part is to estimate emissions from BAU
- BAU can be estimated based on:
  - ✓ CDM methodology
  - ✓ IPCC inventory guideline
  - New methodology developed



## What is the Guideline for MRV?

#### CDM < MRV Guideline < ISO14064+65

#### **CDM-PDD**

A.General description B.Baseline/Monitori ng C.Crediting period D.Environmental impacts E.Stakeholder

#### **MRV Guideline**

-Boundary

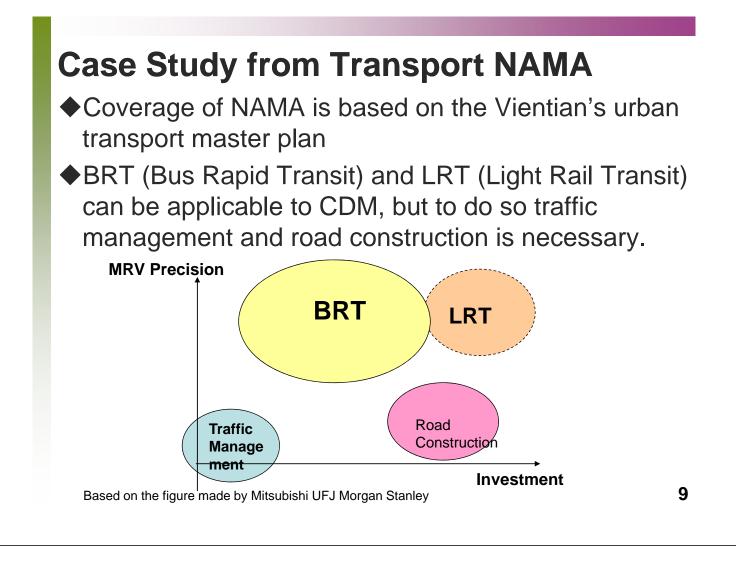
- -Category (NAMA,
- Sectoral, etc)
- -Reference
- scenario/emission -Monitoring

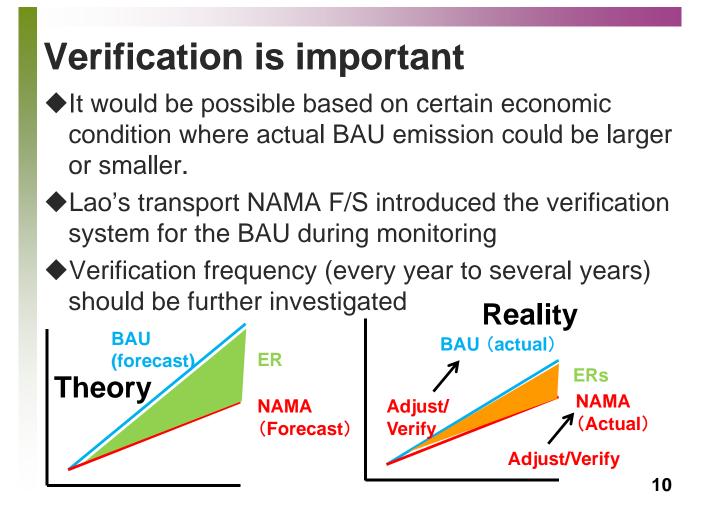
#### ISO14064+65

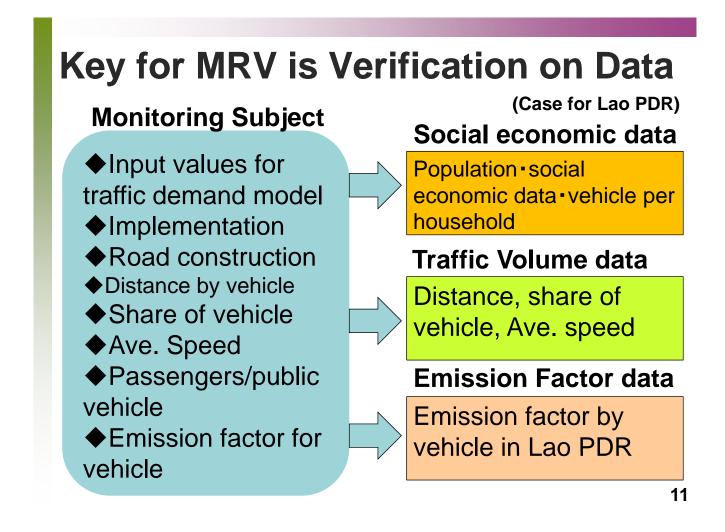
-Boundary -GHG source -Baseline scenario -ER calculation -Monitoring

- -Reporting
- -Verification

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# Support for the next

**1** Development of MRV methodology

Both Forecast and verification

Practical for use

## **②** Test of MRV; can be implemented?

Existing data can be used?

There will be case where MRV is impossible

### **③ MRV institutional framework**

- Monitoring, reporting and verification system
- Training of verifier in host country