



Indo-German Cooperation

Development and Management of NAMAs in India: An example

Policy Research Workshop
How to enhance climate actions to meet a long-term goal

29 September 2015
India Habitat Centre, New Delhi, India

Enrico Rubertus
Project Director,
Development and Management of NAMAs in India
GIZ India

On behalf of:



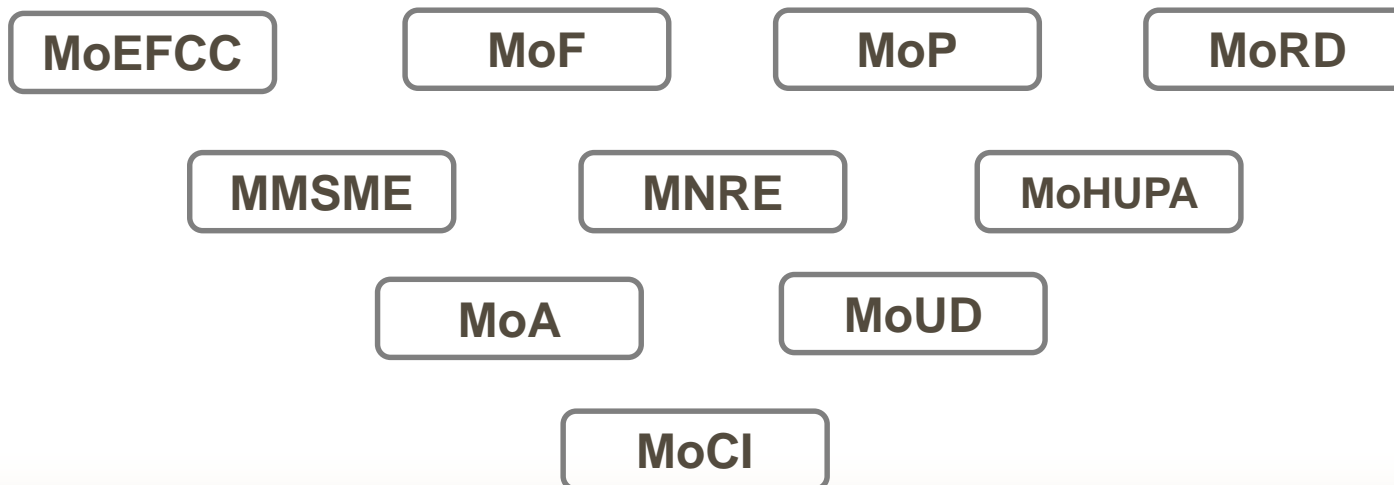
Federal Ministry for the
Environment, Nature Conservation,
Building and Nuclear Safety

of the Federal Republic of Germany



GIZ India

- Indo-German Cooperation: since > **50 years**
- > **300** national personnel, >**50** seconded experts
- **3** sectors, >40 projects, ~**15** Public Private Partnerships
- Clients: BMZ, BMU, BMWi, EU, Govt. of India,
- Indian Partner Ministries





Development and Management of NAMAs in India



Ministry of Environment, Forest and Climate Change

Government of India



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

of the Federal Republic of Germany

- **Indo- German** Bilateral Cooperation Project with Ministry of Environment, Forests & Climate Change (**MoEFCC**).
- **4 years** duration (September 2013 – August 2017)

The Indian Government uses NAMAs as one option for mitigation of greenhouse gases and technical support is provided through a NAMA coordination cell in the MoEFCC





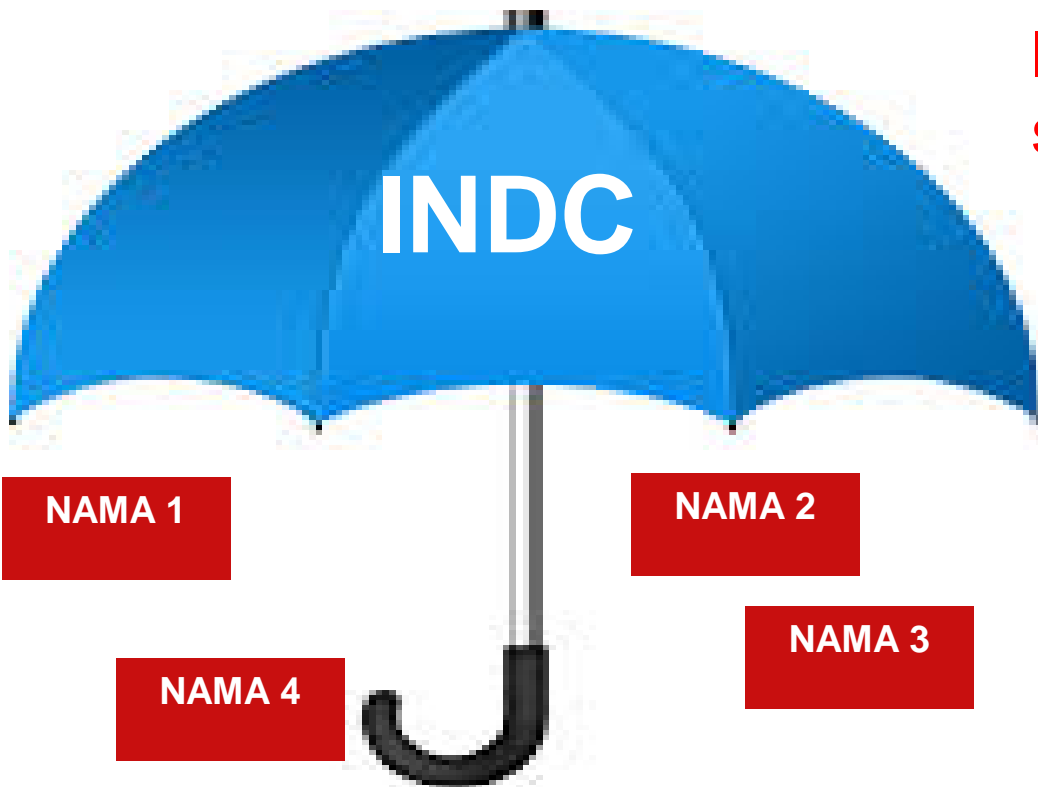
Project Update

- ✓ MoEFCC decided to develop NAMAs in **Forest** and **Waste** sectors to begin with.
- ✓ Several Stakeholder consultations and expert interviews conducted
- ✓ **Feasibility studies** for the two sectors carried out – to identify potential NAMA options
- ✓ Climate Finance Study on '**The Role of the Private Sector to Scale Up Climate Finance in India**' conducted
- ✓ DRAFT NAMA manual developed



The link between INDCs and NAMAs

Each country is to specify an “Intended Nationally Determined Contribution” to greenhouse gas mitigation (and adaptation)



Implementation of INDC should be done via NAMAs

- Barriers are known
- Emissions baselines have been assessed
- Financing requirements have been discussed
- Monitoring, Reporting, Verification (MRV) is in place
- International support for implementation of NAMAs



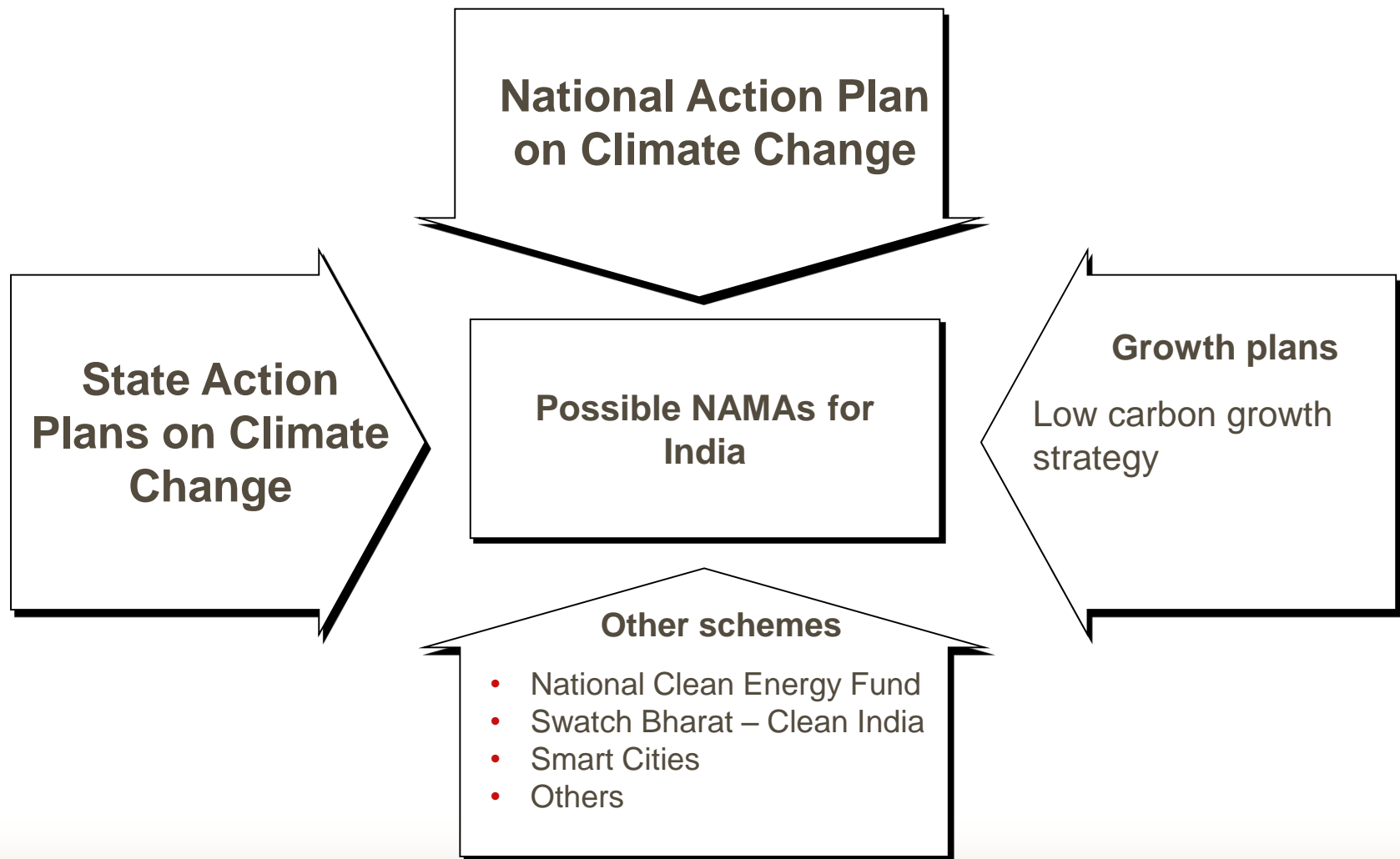
How should NAMAs seeking international support look like?

Criteria from *Green Climate Fund* and other funding options

- NAMAs should be **national appropriate** and
- Support **sustainable development** (Socio-economic and environmental sound)
- NAMAs should be **Transformational** – sector wide approaches for low carbon development
- Monitor, Report, Verify – **MRVability**
- **Leveraging finance** – public finance to leverage private sector investments
- Make NAMAs **competitive** in international landscape



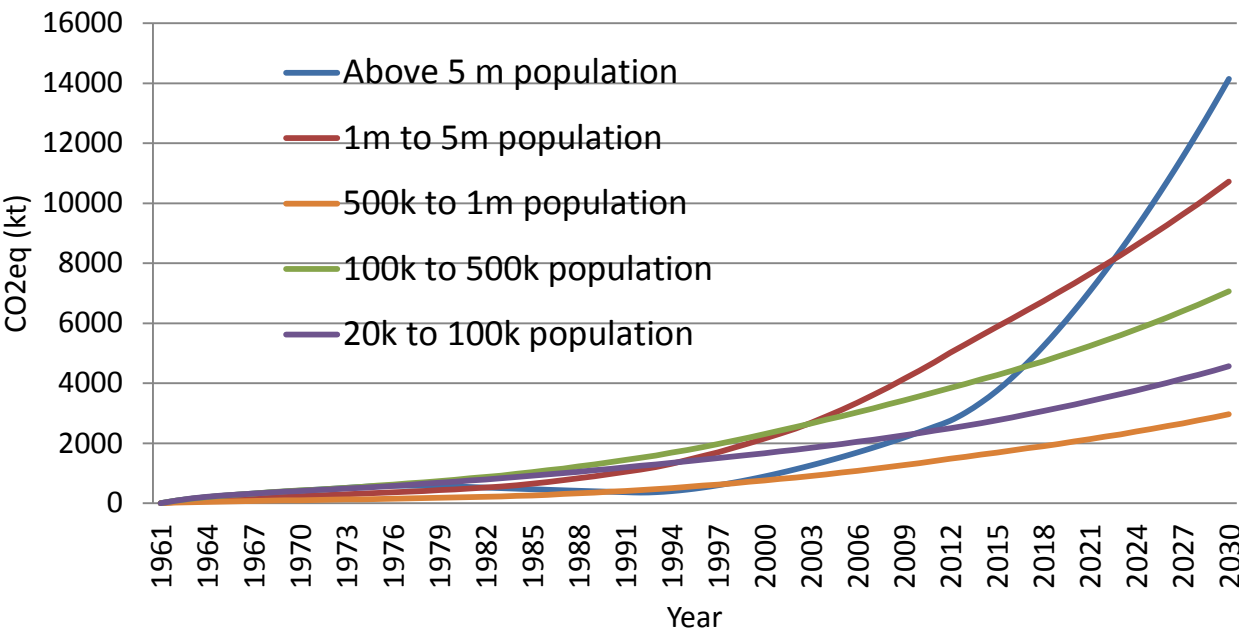
Identifying NAMAs from Domestic Policies and Schemes



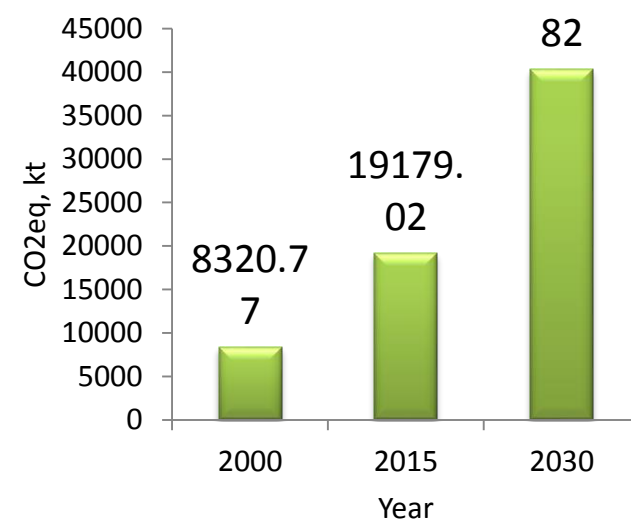


GHG Emissions from Municipal Waste in India

Emissions from MSW disposal in Urban India



Emissions from MSW disposal



- GHG emissions from solid waste disposal to be **doubled by 2030**
- **Cities with >1 million population** will contribute **>50%** of total emission by 2030



Waste NAMA Options from Feasibility Study

Technology based mitigation actions

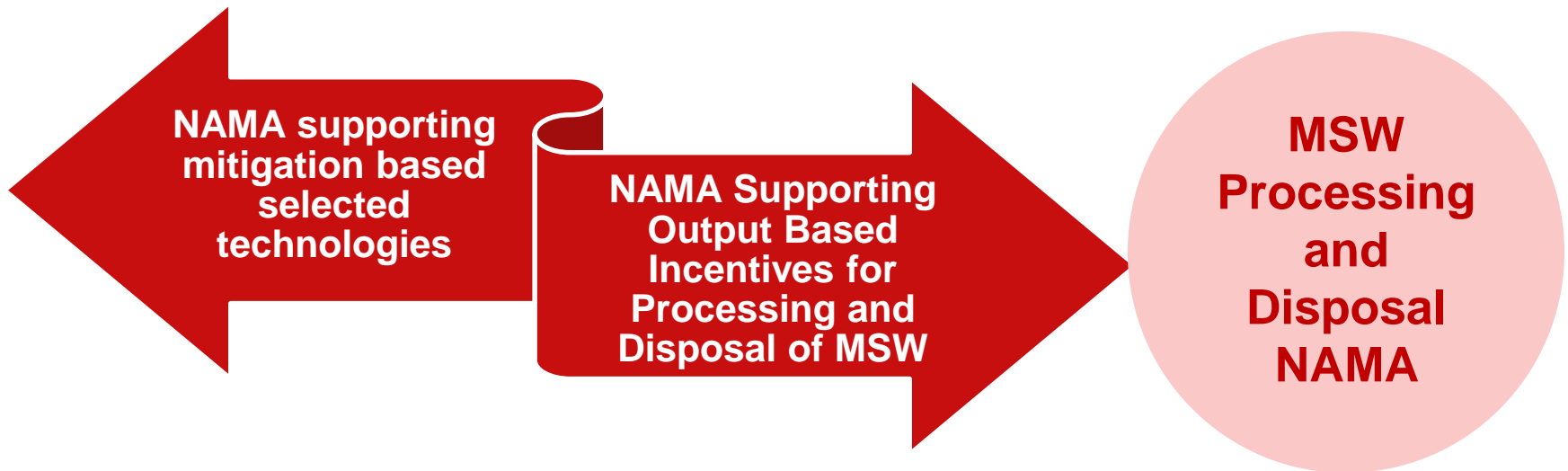
- Refuse Derive Fuel (RDF) for co-processing in Cement Plants.
- Composting and Vermi Composting
- Biomethanation

Policy based instruments

- Fiscal incentives for scientific waste processing and disposal of MSW
- Enforcement of mandatory segregation of waste



NAMA could be Integration of both?



- Robust MRV
- Facilitating private sector participation leveraging private investment.
- Transformational impact on sector

Proposed NAMA Options in the Forest Sector



Supporting the National Target – 33% of Land under Forest Cover

NAMA supporting GIM

NAMA elements

- Supporting Afforestation with high mitigation potential
- Peri-urban and Trees Outside Forests – an area under explored

OPTION 1
Green India Mission NAMA
National Level Policy

OPTION 2
Green Credit Mechanism NAMA
Involvement of States

High political will necessary for state target setting

NAMA elements

- develop national platform for generation trading of *Green Credits*
- provide start up financial support

Unsustain. Fuelwood consumption by local communities – DRIVER for deforestation

NAMA elements

- Clean energy – EE cook-stoves, biogas
- Energy/ Fuelwood Plantation

OPTION 3
Driver NAMA
Addressing Local Communities

OPTION 4
Agroforestry NAMA
Private Sector Participation

Incentivize Private Sector and Support National Agroforestry Policy 2014

NAMA elements

- Develop technical & legal features of the incentive scheme
- Design could be based Karnataka experience



Way Forward

- Bankable NAMA proposals to be developed in the Waste and Forestry Sectors
- NAMA Cell to be institutionalized
- Capacity Development strategy and deployment



Thank you!

Enrico Rubertus

Project Director

Development and Management of NAMAs in India & Global Carbon Markets

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH
B-5/2, Third Floor,
Safdarjung Enclave,
New Delhi- 110029

T: +91-11 4949 5353

E: enrico.rubertus@giz.de