



NAMAs on Waste Management: Identification of possible NAMAs on MSWMSs

Sandra Aparcana
UNEP DTU Partnership

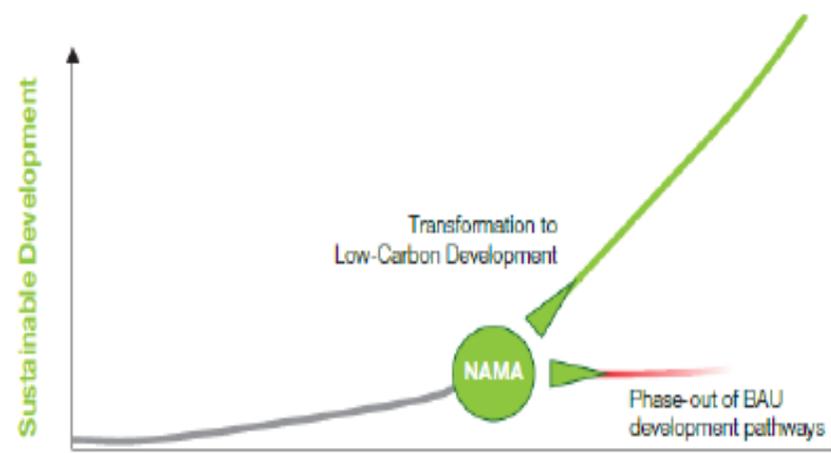
NAMA training
Maputo, Mozambique - Sep
2015

Ideas/initiatives for NAMA on waste should target:

- ✓ Sustainable waste management practices
- ✓ Reduction of GHG emissions
- ✓ Contribution to the national sustainable development and GHG reduction goals/low carbon development goals (referring to high level policy objectives)
- ✓ A NAMA on waste should consider including key legal, financial, institutional and/or technical measures that support and ensure the implementation of sustainable and socially inclusive waste practices.
- ✓ To contribute to transformational change in the sector/country: a NAMA on MSWM should aim to achieve permanent changes e.g through policy initiatives, strategies or regulations that include sustainable management approaches (NAMA on MSWM at the policy/strategy level)
- ✓ Other objectives not directly related to climate change -- e.g. reducing demand for resources or achieving social inclusion in the waste sector, social and environmental awareness, public health, etc.

Transformational change in NAMAs on waste

- ✓ NAMAs should result in transformational change by shifting the sector towards a low-carbon pathway on a permanent basis.
- ✓ Interventions are generally without an end date
- ✓ Exceptions to this rule are short-term technology oriented NAMAs that would have the objective to renovate or improve inefficient waste facilities or installations (e.g. installation of landfill gas and leachate collection systems in controlled dumps, or the elimination of open dumpsites)



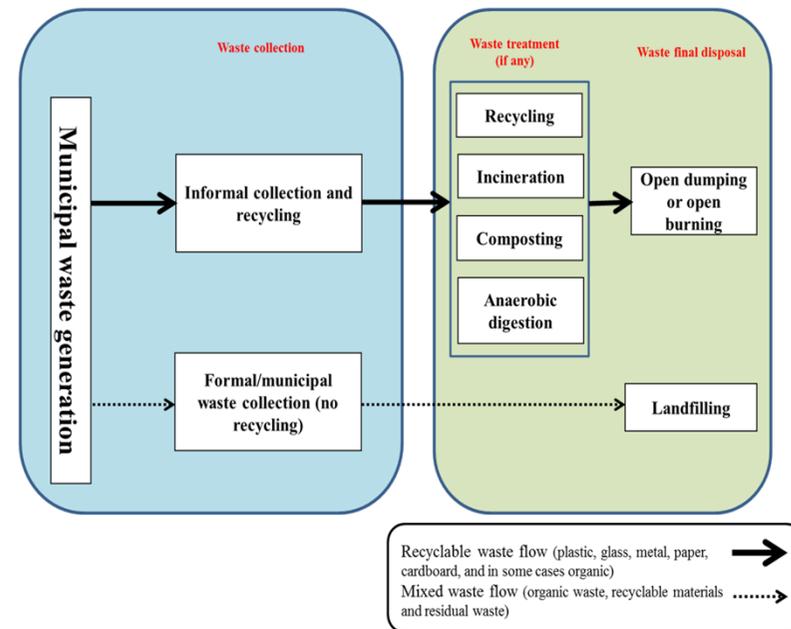
NAMA provides an opportunity to change development paths

To be included in a NAMA according to its level of intervention:

NAMAs are not limited to just one of both scopes.

- - ✓ E.g.: to take action on waste generation, collection and recycling requires work at the policy and legal level -- including the 3R hierarchy, separation at source policies (waste generation) or formalization of recyclers
 - ✓ Measures such as the upgrading of open dumps to landfills or installation of gas collection and flaring systems can be found in operation-oriented NAMAs

NAMA at the policy and institutional level NAMA at operational/technical level



Solar power

Possible NAMA actions

Action level	Description	Examples
Policy/strategy	<ul style="list-style-type: none"> ✓ Establishment of national waste management goals ✓ Favourable national regulations; enforcement mechanisms; including microcredit initiatives, financial incentives ✓ National policy on formalization of illegal waste activities 	<ul style="list-style-type: none"> ✓ x% reduction of CO₂ emissions from the waste sector ✓ x% increase of renewable energy from waste ✓ x% increase of national recycling rate ✓ x% decrease of waste volume diverted to landfills ✓ National adoption of 3Rs waste hierarchy ✓ Organisation of the informal sector, formation of cooperatives/micro- and small-enterprises, and associations
Project (technological/operational)	<ul style="list-style-type: none"> ✓ Focus on infrastructure ✓ Reorganisation of waste elements (collection, treatment, disposal) ✓ Upgrading of waste facilities and technologies 	<ul style="list-style-type: none"> ✓ Pilot projects ✓ Adequate sorting spaces, infrastructure, topography considerations, improve quality of secondary raw materials ✓ Implementation of source separation systems ✓ Appropriate technology, economic and technical assistance ✓ Implementation of gas collection and flaring system or energy recovery from landfill gas

Identifying Appropriate Actions in the waste sector in Colombia

The NAMA is aimed at overcoming existing policy, financial, market and social barriers for the introduction of alternatives to landfill disposal, promoting alternative waste treatment technologies and the integration of informal recyclers into the formal sector.

- **A pre-feasibility study was conducted:** it was found that not all technologies are suitable for Colombia. (not possible to compete with cheap hydro power)

The measures under this NAMA include:

- ✓ Regulatory and policy reform: aimed at reforming the waste handling tariff to create a strong incentive for the involvement of the private sector to shift from landfill to alternative treatment methods
- ✓ Promotion of alternative waste management technologies and waste management treatment processes e.g. RDF for cement plants
- ✓ Establishment of a fund and innovative financing mechanisms: a NAMA Equity Fund to finance alternative waste treatment facilities in order to facilitate their financial feasibility and reduce the risk perception of the private sector.
- ✓ National and subnational capacity building activities
- ✓ Formalization of informal waste pickers.
- ✓ City-level action for integrated waste management policies (towards optimization of waste materials' quality (for recycling, compost and RDF)
- ✓ Public awareness and education programmes to promote waste separation

Group work: Identifying NAMA ideas/opportunities

Identify a reporter

- 1. Describe and analyze current situation and problematic of the sector
 2. Describe national LCD, SD and GHG reduction goals
 3. Identify NAMA ideas contributing to these goals
 4. Describe NAMA project

- # Questions & Discussion

