# Developing and testing performance indicators for the development and transfer of EST's under the UNFCCC: about process and methodology

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Capacity-building in Developing Countries
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# Content of the presentation

- Introduction
- Developing and testing indicators:
   a participative co-design process
- Indicators to monitor and to evaluate effectiveness
- Experiences with performance indicators inside the convention
- 'Unravelling' the TT Framework
- Next steps

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### **UNFCCC – Art.4. Commitments**

. . .

§ 5. The developed country Parties and other developed Parties included in Annex II shall take all practicable steps to promote, facilitate and finance, as appropriate, the transfer of, or access to, environmentally sound technologies and know-how to other Parties, particularly developing country Parties, to enable them to implement the provisions of the Convention. In this process, the developed country Parties shall support the development and enhancement of endogenous capacities and technologies of developing country Parties. Other Parties and organizations in a position to do so may also assist in facilitating the transfer of such technologies.

. . .

# History of the development and transfer of EST's as seen under UNFCCC

#### COP 7

Establishment of the UNFCCC Expert Group on Technology Transfer

- Phase
  - Phase 3 (2002-2008): 'common understanding'
  - Phase 4 (2008-2012): acceleration on implementation
  - Phase 5 (Post-2012): massive deployment and diffusion

# Development and transfer of EST's under the UNFCCC: 5 key elements

- Technology Needs Assessments
- Technology Information
- Capacity Building
- Enabling Environments
- Financial and Institutional Mechanisms

← cf. link with CB Framework& CB priorities 2, 8 and 10)

### The overall objective of the assignment

- "... to develop and test a balanced and robust set of performance indicators **that could be used** by the SBI to monitor and evaluate the effectiveness of the implementation of the technology transfer framework."
- The outcome of this work can also provide input to the work of the SB's
  - (i) on reviewing and assessing the effectiveness of the implementation of Article 4, paragraphs 1(c) and 5,
  - (ii) on considering the role of new financing mechanisms and tools for scaling up development and transfer of technology
  - (iii) on Long-term Cooperative Action under the Convention

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### IISD Bellagio Principles

These principles deal with four aspects of assessing progress toward sustainable development:

- **Principle 1** deals with the starting point of any assessment establishing a 'vision' and defining 'clear goals'.
- *Principles 2 through 5* ('holistic perspective', 'essential elements', 'adequate scope' and 'practical focus') deal with *the content of any assessment*.
- Principles 6 through 8 ('openness', 'effective communication' and 'broad participation') deal with key issues of the process of assessment.
- Principles 9 and 10 ('ongoing assessment' and 'institutional capacity') deal with the necessity for establishing a continuing capacity for assessment.

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#### Text 1: UN Normative frame 'DTT'

Feedback and selection

B

#### Text 1: UN Normative frame 'DTT'

= Rio Declaration, Agenda 21 and UNFCCC (in particular the references to DTT)

Feedback and selection

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#### Text 1: UN Normative frame 'DTT'

Text 2: Current situation analysis

Feedback and selection

#### Text 1: UN Normative frame 'DTT'

Text 2: Current situation analysis 'The promise of technology', 'Results of the assements by the Expert Group on Technology Transfer' and 'Expert Group on Technology Transfer: Five years of work'

plus detailed reports on one of the key elements of the technology transfer framework

Feedback and selection

=

#### Text 1: Normative frame 'DTT'

Text 2: Current situation analysis Text 3: Vision of the UNFCCC on DTT

Feedback and selection

#### Text 1: Normative frame 'DTT'

Text 2: Current situation analysis Text 3: Vision of the UNFCCC on DTT TT Framework
(Annexes to 4/CP.7 & 3/CP.13)

Feedback and selection

#### Text 1: Normative frame 'DTT'

Text 2: Current situation analysis Text 3: Vision of the UNFCCC on DTT This is an ex-post exercise!

Feedback and selection

#### Text 1: UN Normative frame 'DTT'

Text 2: Current situation analysis Text 3:
Vision of the UNFCCC on DTT

Text 4:
Tree structure

# Feedback and selection

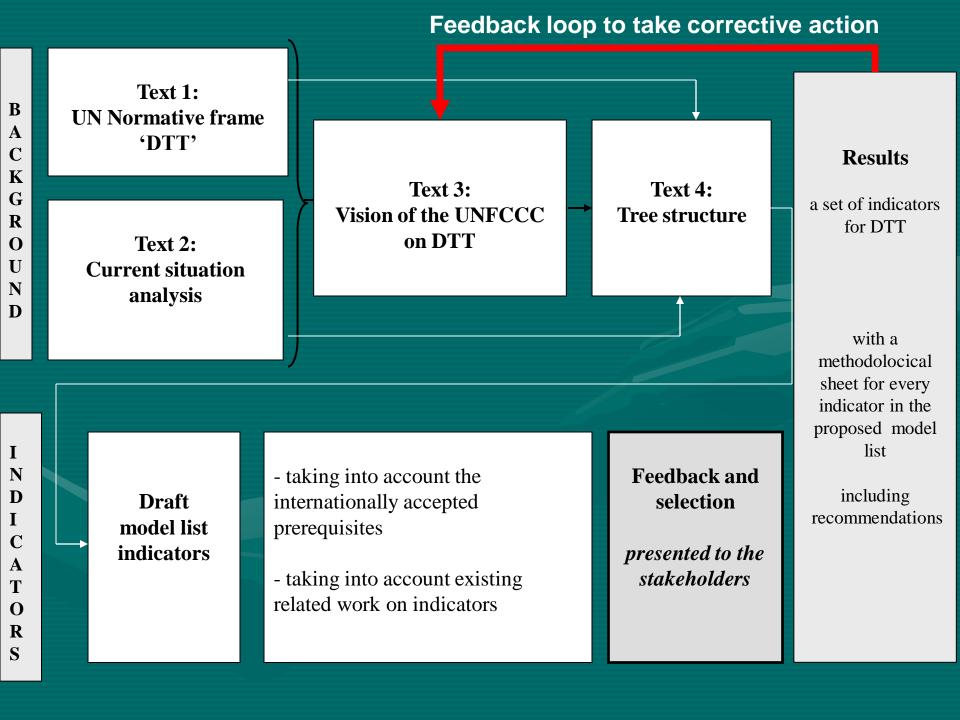
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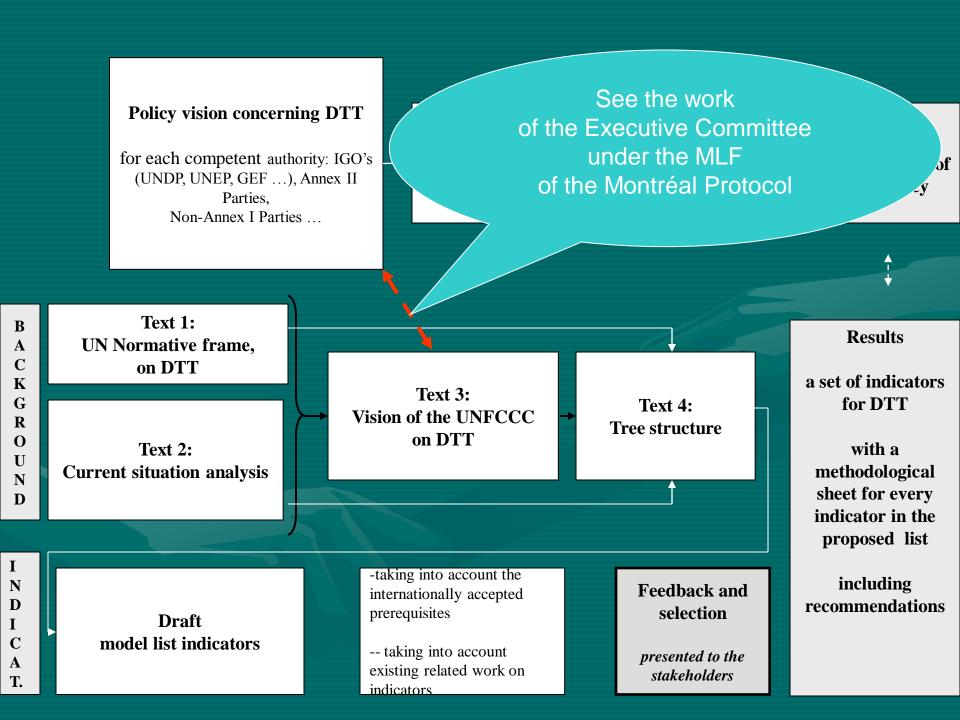
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'unravel' exercise

Feedback and selection

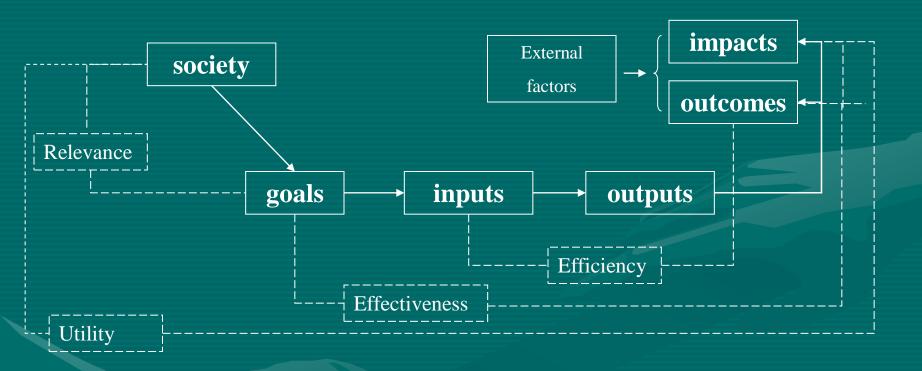




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### Evaluation of a policy



Relevance: to what extend are the goals justified in relation to needs?

Effectiveness: to what extend have the expected goals been achieved?

Efficiency: Have the goals been achieved at the lowest cost?

Utility: Are the goals or unexpected effects contributing to a net increase in social welfare?

### What are we looking for?

- 'A set of measures enabling to monitor performance, to track progress towards the achievement of objectives, to demonstrate results, and to take corrective action.'
- They can be expressed as qualitative or quantitative measures, financial and non-financial metrics, SMART (Specific, Measurable, Achievable, Relevant, and Timebound) formulated. Quid link with MRV?
- The indicators will measure 'means' (methods to achieve objectives) or 'ends' (achievement of objectives) or a combination at any point along the continuum (inputs, processes, outputs, outcomes, and impacts) from means to ends.

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# Monitoring and evaluation of capacity-building

Source of information, inter alea:

- A proposal for the collection, processing and dissemination of information on monitoring capacity and capacity-building activities in developing countries (Document FCCC/SBI/2005/5)
- A possible format for reporting on the regular monitoring of the implementation of the capacity-building framework in accordance with decision 2/CP.7, paragraph 9. (Document FCCC/SBI/2007/5)
- Report on the expert workshop on monitoring and evaluating capacity-building in developing countries.
   (Document FCCC/SBI/2007/33)

### A proposal for structuring available information

Priority areas for capacity building	Strategic areas of support	Methodological approaches	Targets	Outcomes or expected results	Performance indicators (progress, gap, effectiveness)	Metrics & data sources
Participatio n in UNCCCC	Human	e.g. training for negotiations	Critical mass of negotiations	Capacity to mobilize information	No of negotiators	Attendance at UNFCCC conferences
	Institutional	Strengthen UNFCCC focal points	Focal points working within 1 year	Capacity to monitor	Existence of the focal points	Dates of establishmen t
	Systemic	Enhance enabling environment	Change in public perceptions	Capacity to engage and build consensus	Attitude and perceptions	Submission from Parties & surveys

# Comparison with the present exercise for the technology transfer framework

The following similarities and differences can be observed:

- 'Priority areas for capacity building' = the key themes of the TT-framework;
- Strategic areas of support': this does not exist in the present exercise;
- 'Methodological approaches' = the 'unravelled' objectives (= actions/activities);
- "Targets': it seems that sometimes real targets are formulated and in other proposed targets are more going in the direction of 'measurement' of the indicator;
- Outcomes or expected results': there is no distinction between 'outputs' and 'outcomes'; it seems there is no intention to formulate 'impact' indicators;
- Performance indicators': the proposed indicators are linked to the possibility to report on 'progress', 'gap' and/or 'effectiveness';
- 'Metrics and data sources': this information will be reflected in the TT-methodological sheets.

# Other relevant initiatives inside the Convention

- Reporting on global observing systems for climate
- Administrative and financial matters
- Kyoto Protocol
- Climate related risks and extreme events

In general it can be concluded the experiences are rather limited and that processes have been initiated but are not well advanced yet in their implementation.

### Lessons learnt

- Learning curve
- Framework with causal relations
- Performance indicators
- Data availability
- Stakeholders
- Capacity building

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#### Text 1: UN Normative frame 'DTT'

#### **Results**

ot of indicators
DTT

#### Reductionist approach?

What is the rationale for labelling the TT Framework, in particular the key element 'enabling environments'?

The difference is the starting point: a comprehensive TT Framework adopted as a vision.

for every indicator in the proposed model list

including recommendations

#### Draft model list indicators

- taking into account the internationally accepted prerequisites
- taking into account existing related work on indicators

# Feedback and selection

# The 'unravel' exercise: a step-by-step approach

- 1. Objectives for the key theme
- 2. Regrouping by synthesized objective
- 3. Re-grouping by stakeholder
- 4. Re-grouping by indicator category
- Checking against earlier proposals (i.e. submissions by Parties)
- 6. Identification of missing links between vision, objectives and effects

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### Objectives for each theme

The technology transfer framework - contained in the Annex to decision 4/CP.7, complemented with the set of actions set out in decision 3/CP.13, annex I, for each theme consists of the following elements:

- in the Annex to decision 4/CP.7, under C. Key themes and areas for meaningful and effective actions,
  - definition
  - purpose
  - implementation
- in the Annex I to decision 3/CP.13,
  - recommendations for enhancing the implementation

In addition there are cross-references in other key theme.

# The 'unravel' exercise: a step-by-step approach

- 1. Objectives for the key theme
- 2. Regrouping by synthesized objective (incl. the formulation of performance indicators)
- 3. Re-grouping by stakeholder
- 4. Re-grouping by indicator category
- Checking against earlier proposals (i.e. submissions by Parties)
- 6. Identification of missing links between vision, objectives and effects

#### CB: re-grouping by synthesized objective

- 'to report on Capacity Building Needs and experiences for DTT of the developing country Parties'
- 'to implement/support CB activities for DTT in developing country Parties.
- 'to establish/strengthen capacity for DTT in institutions of developing country Parties'.
- 'to increase/enhance/improve awareness/knowledge on ESTs in developing country Parties'.
- 'to provide training on ESTs in developing country Parties'
- 'to develop and implement standards and regulations for ESTs'

## The 'unravel' exercise: a step-by-step approach

- 1. Objectives for the key theme
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## An overview of the number of indicators by category for capacity-building

	Input- indicator	Process- indicator	Output- indicators	Outcome- indicators	Total
			4.		
СВ	7	8	11	10	36
		5			

## And, in terms of stakeholders for capacity-building...

- ... the 36 indicators are targetting:
- UNFCCC (Secretariat, EGTT, SBSTA, SBI)
- IGO's
- Developed country Parties
- All Parties

## The 'unravel' exercise: a step-by-step approach

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In the document FCCC/SBI/2008/MISC.1 and Add.1, Parties have made proposals of performance indicators, which are summarized in FCCC/SBI/2008/7. In Annex IV each of the proposed indicators is discussed. It seems that most/some of the performance indicators by Parties in their submissions are

- or already taken up by making explicit the causal relationship;
- or targeting the very short term;
- or emphasizing a number of (new) objectives;
- or need to be unravelled in clearly formulated separate objectives;
- or are included and will be checked later on against the SMART-principles.

It is clear that further in the process a check against indicators already proposed in other experiences inside and outside the UNFCCC could help to finalize the set of performance indicators.

## The 'unravel' exercise: a step-by-step approach

- 1. Objectives for the key theme
- 2. Regrouping by synthesized objective
- 3. Re-grouping by stakeholder
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#### Capacity-building

to build
to develop

'process to strengthen existing scientific and technical skills/capabilities/institutions
to enhance
to improve

in NAII Parties in order to enable

to access
to adapt
to manage
to develop

EST's

→ to strengthen capacities of NAII to promote

dissemination application development

of EST's"

#### Capacity-Building

- From the goal as spelled out, it can be taken the focus is on 'strengthening the capabilities in Non-Annex II Parties', through the support of 'existing scientific and technical skills/capabilities/institutions'.
- But CB is a cross-cutting theme through all the other key themes of the technology transfer framework.
- Furthermore, it can be concluded from the objectives in the technology transfer framework that the burden lies with different stakeholders.
- There is need for streamlining with your exercise before selecting the final list of performance indicators for the key theme 'Capacity-Building' under the technology transfer framework.

# At the EGTT Meeting in Dublin, the initial list of indicators has been reduced to ...

#### ... a preliminary list of 4 key indicators for CB (1)

• Amount of financial inputs (scholarships, institutional financing, technical assistance) by developed countries into capacity building for development and transfer of technology in developing countries.

(cf. the relation with 'human capacity')

(input-indicator) (Annex II Parties)

 Reported needs and agreed priorities for capacity building for development and transfer of technology (cf. the relation with 'institutional capacity') (input-indicator) (Non-Annex I Parties)

#### ... a preliminary list of 4 key indicators for CB (2)

- Number of participants/experts in DTT training programmes, in particular on the development of standards and regulations (cf. the relation with 'human capacity') (output-indicator) (Non-Annex I Parties)
- Number of new and existing national and regional institutions, operating as centers of excellence, on DTT (cf. the relation with 'institutional capacity') (output-indicator) (Non-Annex I Parties)

## No indicators related to the 'systemic' strategic area of support, because there were to related objectives

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For each of the 5 key themes of the TT Framework: testing the preliminary list of key indicators

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#### Draft Methodological Sheet

The next step is to look if the indicators can be formulated SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). Filling in the methodological sheet for each and every indicator is a way of checking these requirements.

- DESCRIPTION OF THE PERFORMANCE INDICATOR
- POLICY RELEVANCE
- METHODOLOGICAL DESCRIPTION
- ASSESSMENT OF DATA
- ALTERNATIVE DEFINITION(S) OR PERFORMANCE INDICATOR(S)
- REFERENCES
- FACTUAL DATA AND EVALUATION

### Linking with MRV (measurable, reportable and verifiable)

- The notion of MRV (measurable, reportable and verifiable) appears in the sub-paragraphs (i) and (ii) of paragraph 1(b) of 1/CP.13, the so-called Bali Action Plan. There is an exclusive reference to 'mitigation (commitments and) actions' of Parties.
- One could wonder about the link with performance indicators. Taking into account the methodological approach described in this report, the following observations about the communalities can be made:
  - the performance indicators will be formulated in a SMART-way; the 'M' stands for 'measurable';
  - a methodological sheet will be developed for each performance indicator in order to be reportable and verifiable.

## Reflections on the discussion during the RJ Expert Meeting

- Bidirectional cross-linking with other processes under the UNFCCC
- Development of indicators should not be pre-conditioned (cf. conceptual indicators, 2nd choice indicators, etc.)
- Indicators → Monitoring → Evaluation
- About indicators
  - Number?
  - Targeting who? Related to accountability?
  - At macro (= national) level.
- Does size matters?

### Thank you.