

National workshop:

Generating climate change and disasters indicators for policy decision-making in Saint Kitts and Nevis

22, 23 and 24 June 2022

Introduction to ECLAC's methodology to produce environment, climate change and disaster indicators

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Principles for constructing indicator sets



Methodological road map for constructing indicators

Stage I: Preparation Stage II: Design and construction of indicators Stage III: Institutionalization





Products resulting from the indicator-building process

This methodology can be found in ECLAC Manual 61:



Methodological Guide to develop Environment and Sustainable Development Indicators in Latin American and Caribbean countries

It is based on an **inter-institutional collaborative** work approach to build and agree on the technical specifications of relevant and quality **indicators set** that describe or quantitatively report on the situation and trends of:

- Environment as a whole
- **Components of the environment** (water, air quality, forest, ecosystems and biodiversity, renewable energy and energy efficiency, agri-environmental, residuals, environmental health, environmental management, etc.)
- Multi-Domain processes:
 - Climate change
 - Disasters

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- «	61	
[∞] manuals	Updated 2021, pending print	
	Methodological Guide for developing Environmental and Sustainable Development Indicators in Latin American and Caribbean countries Rayén Quiroga	
UPTER RATIONE E C L A C	Santiago, Chile, June 2009	

Download:

https://www.cepal.org/en/publications/37890-met hodological-guide-developing-environmental-and-s ustainable-development





Principles for constructing indicator sets



1. Principles for building indicators



- **1. Teamwork** and effective organization
- 2. Inter-institutional coordination and cooperation
- 3. <u>Demand-driven</u> indicator sets.
- 4. Selection of **information and organization** of processes
- 5. Manageable number of indicators ... progression
- 6. Follow the procedures and take care the statistical quality
- 7. User-friendly and attractive indicators dissemination
- 8. Flexibility and perseverance

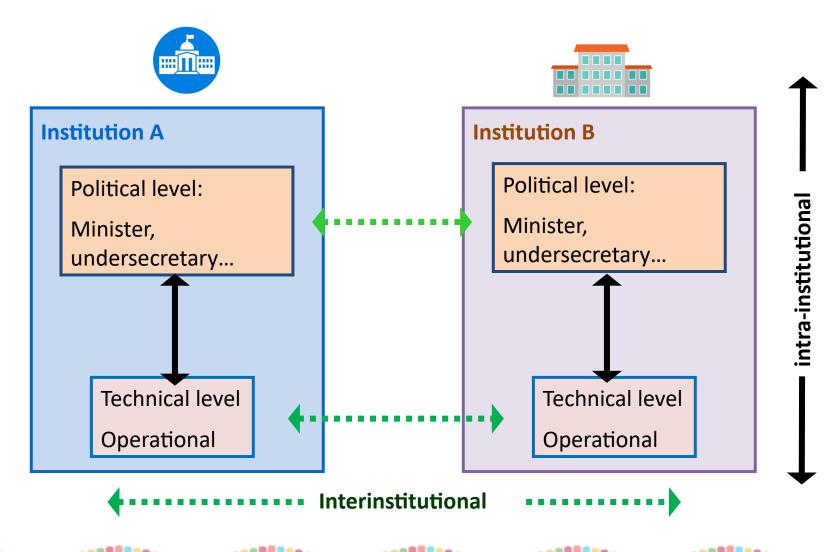


- Engage producers, processors, compilers and users of environmental and multi-domain indicators
- Inter-institutional team with work plan, goals and established leadership
- Capacity building for common methodology, concepts and tools to better construct the indicator set



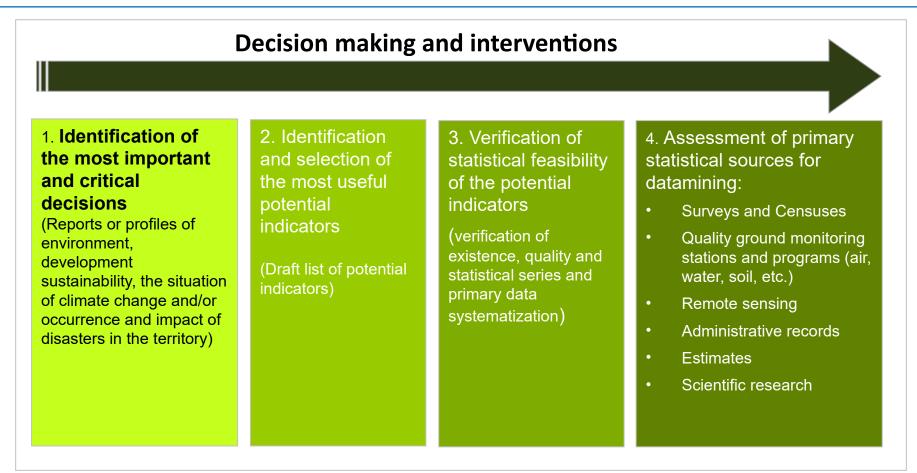


Clear organization of cooperation among institutions and levels



Principle 3: Demand-driven indicator sets



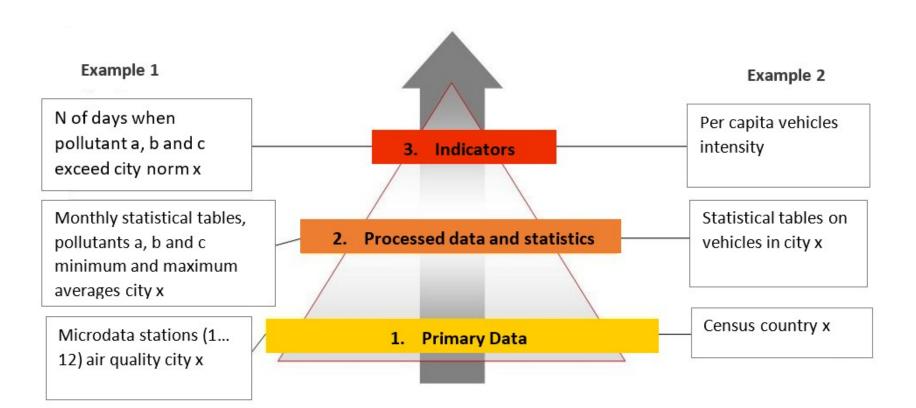


Building **demand-driven** indicators for decision-makers, **we make better use of limited resources**

Principle 4: Selection of information and coordination of



processes



Principle 5: Manageable number of indicators (modular progressive approach)



- Each indicator (design, construction, publication, update) requires:
 - a strong investment of time
 - energy
 - dedication (knowledge, coordination, creativity, consultation, decision, consensus building)
- The first set of indicators should be manageable with available resources
- Each indicator counts and must contribute to the whole set

Don't forget : Less is more!!!





- Protect the quality of the primary data
- Describe fully each indicator using the Methodological Sheet
- Carry out consultations with agencies and scientific experts to understand the value of each of the indicators and its main implications.
- Sustain critical working attitude and frequent evaluations of the indicators.









- Indicators should be displayed in an **attractive and easily understood by the users**.
- **Give sufficient time and trained staff** to the design phase of the platform of the indicators
- Carefully select the appropriate language used and the presentation for the indicator
- Proper selection of the publication media
- Plan and spend time on the launching of the indicators, complete with media coverage and institutional backing

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Principle 8: Flexible attitude/Perseverance

- There are always methodological, institutional, financial, capacity and primary information challenges to face during the work:
 - Deal with changes
 - Review
 - Improve
 - Remove
- Identify and develop new potential indicators at any time during their work.
- Avoid inflexibilities of any sort









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Building indicators: Methodological road map

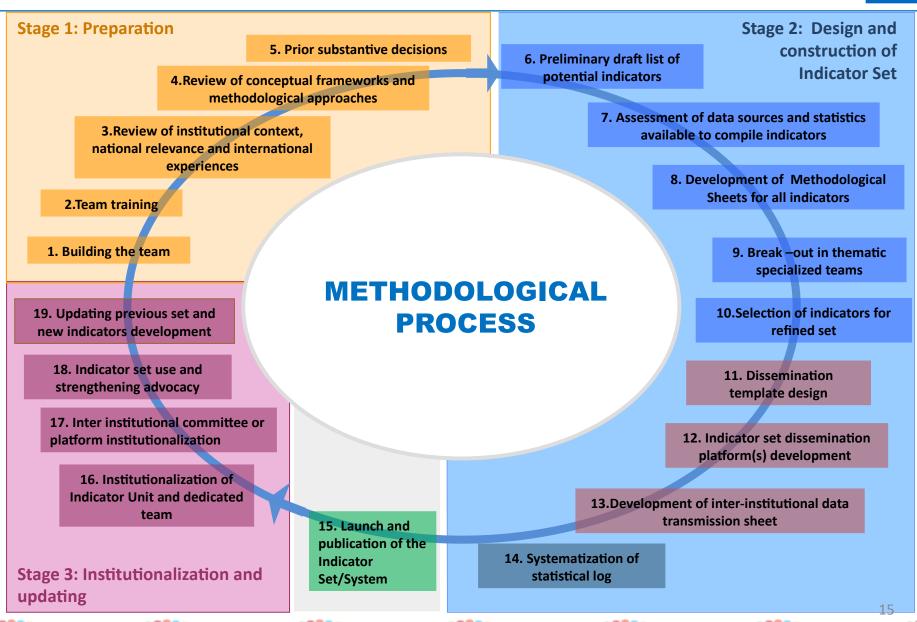
Stage I: Preparation

Stage II: Design and construction of indicator set

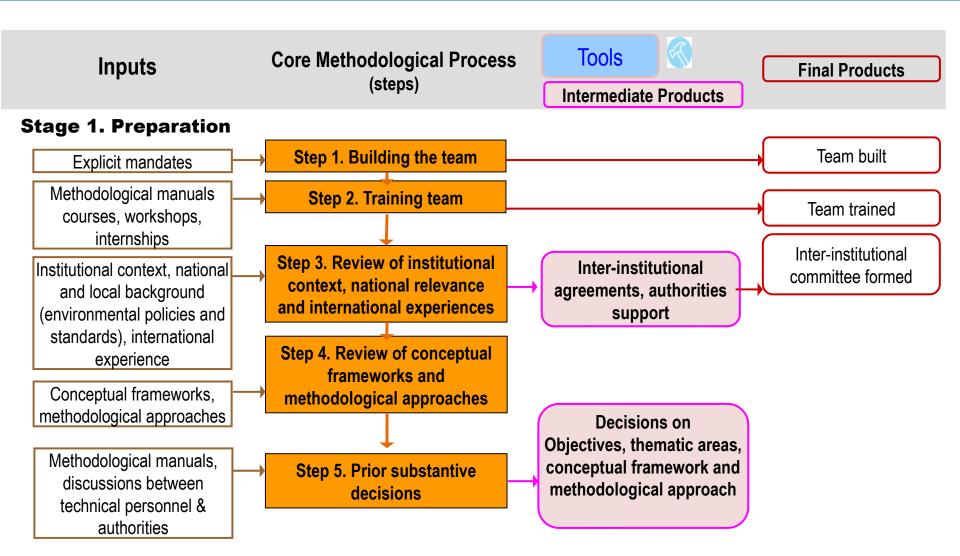
Stage III: Institutionalization and updating

2. Methodological road map

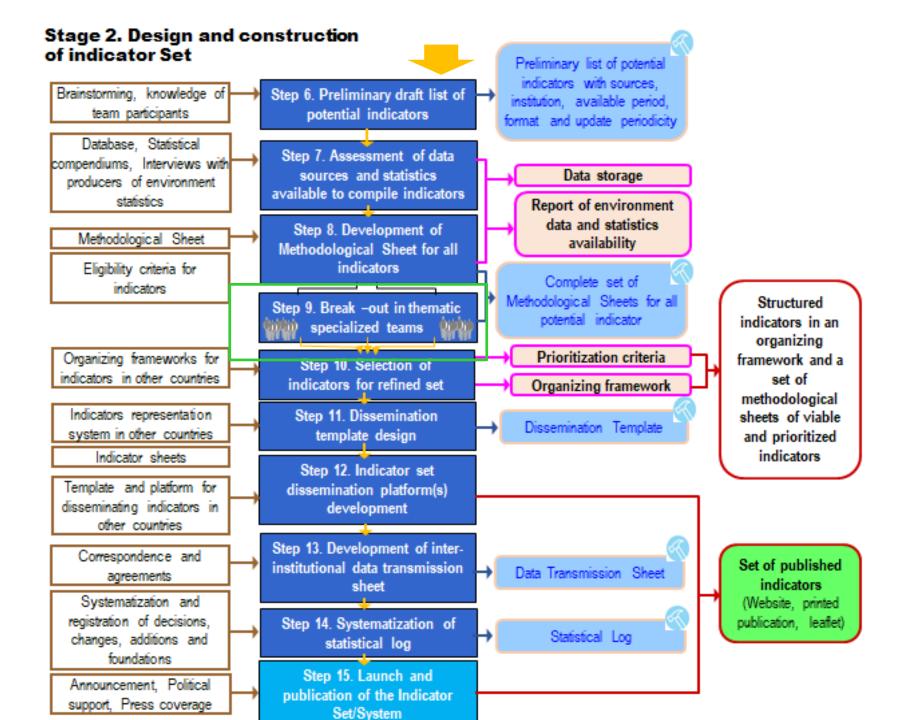








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Development of Methodological Sheet for all indicators

- **Key tool** in constructing the indicators set
- Internal use
- Contains all the technical specifications and its underlying variables
- Clarifies technical content and specificities
- Allows for a common comprehension and building process
- Informs about the design/construction progress of each indicator
- Facilitates the technical analysis of each indicator
- Content will be used in the dissemination template
- Enables comparability of the indicator over time and across space



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ny, alternative and additional indicators: out cases international data sources only record events that surpass some threshold of impact and use moley data sources which usually have non uniform or even inconsistent methodologies, producing regeneous datasets.

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Data sources and cellection method: Data provider at national level is appointed Sendai Framework Focal Points. In most countries disaster data are collected by line ministries and national disaster loss databases are established and managed by special purpose agencies including national disaster management agencies, civil protection agencies, and

Stage II: Design and development of indicators

Criteria for selection of indicators (to be included in refined set)

- Indicator relevance and pertinence to target or policy objective
- Statistical feasibility, availability of data series
- Data quality of underlying variables
- Robustness
- Simplicity
- Clarity and user friendliness
- Directionality safety
- Integrity and coherence between fields in the methodological sheet
- Optimal representation and graphic design for dissemination purposes

No single indicator is capable of reporting the full complexity of environmental or multidomain phenomena.

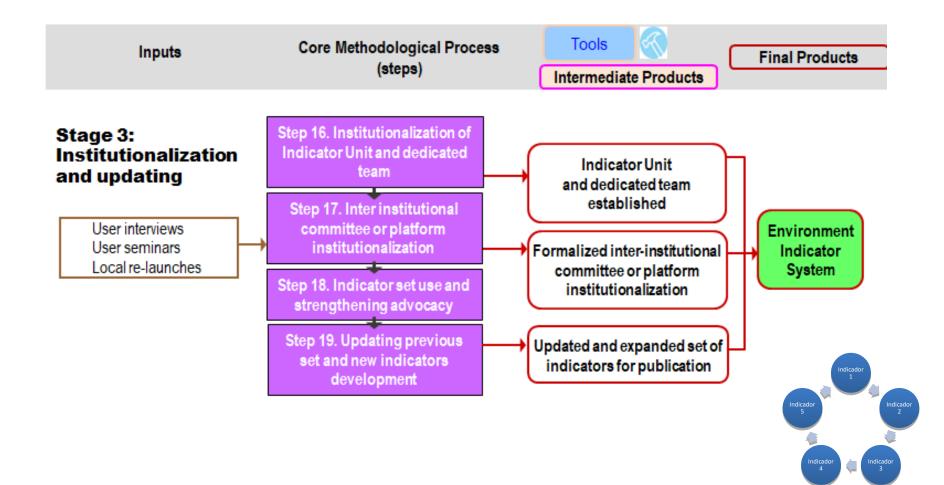
However, each indicator selected must provide sufficient statistical value to justify its place in the indicator set/system.





Stage III: Institutionalization and updating of indicators







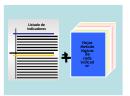


Products resulting from the indicator-building process

3. Products



1. Developers of first set of indicators Indicators Unit Operations, team and resource allocation in annual program of work and regular budget



2. First set of Indicators Set of MS and dissemination template and platform Published or ready to be published





3. National environment/climate change/disasters indicator system

Institutions, dedicated teams, resources, network and equipment



4. Inter-institutional committee or formal mechanism To organize and facilitate data sharing, regular updating and further development of new indicators



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Thank you for your attention!

https://www.cepal.org/en/topics/environmental-statistics



