





National workshop:

Generating climate change and disasters indicators for policy decision-making in Saint Vincent and The Grenadines

27, 28 and 29 June 2022



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



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Content



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Principles for constructing indicator sets

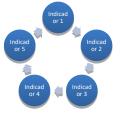
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Methodological road map for constructing indicators

Stage I: Preparation

Stage II: Design and construction of indicators

Stage III: Institutionalization



3

Products resulting from the indicator-building process

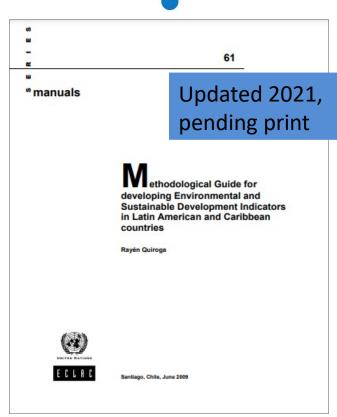
This methodology can be found in ECLAC Manual 61:



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, agrienvironmental, residuals, environmental health, environmental management, etc.)
- Multi-Domain processes:
 - Climate change
 - Disasters



Download:

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



1

Principles for constructing indicator sets



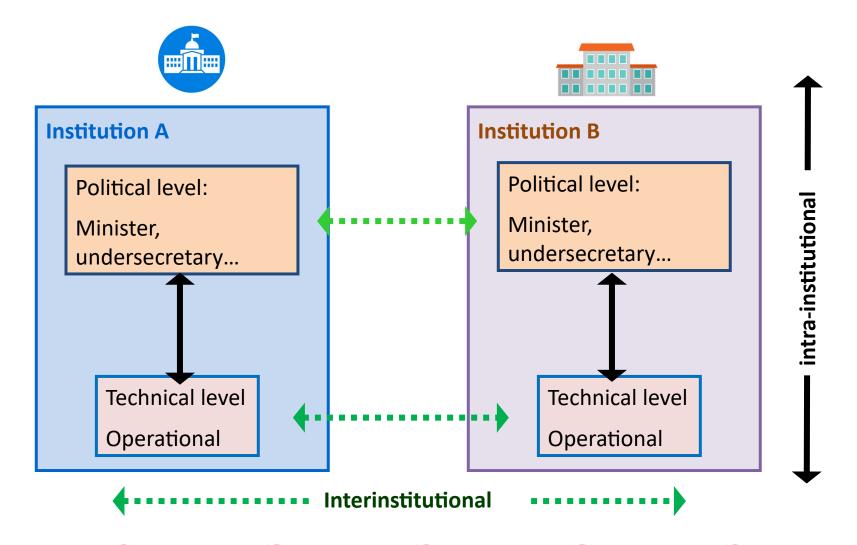


- ▶ Engage **producers**, processors, compilers and **users** of environmental and multi-domain indicators
- Inter-institutional team with work plan, goals and established leadership
- ▶ Capacity building for common methodology, concepts and tools to better construct the indicator set

Principle 2: Inter-institutional coordination and cooperation



Clear organization of cooperation among institutions and levels



Principle 3: Demand-driven indicator sets



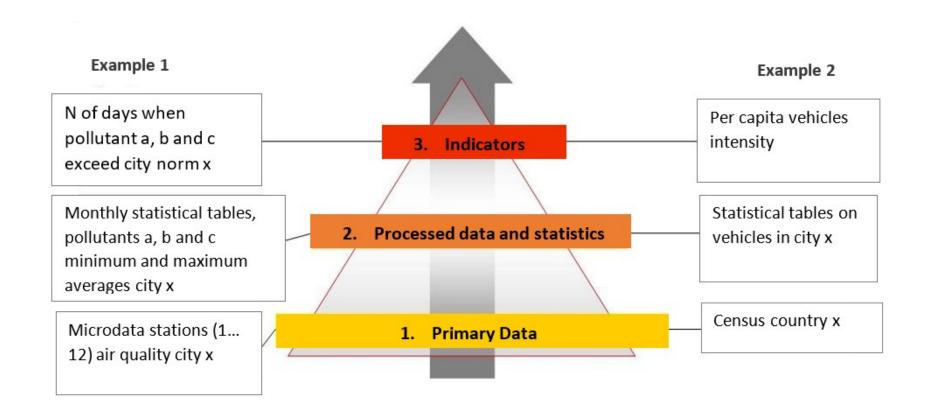
Decision making and interventions

- 1. Identification of the most important and critical decisions
- (Reports or profiles of environment, development sustainability, the situation of climate change and/or occurrence and impact of disasters in the territory)
- 2. Identification and selection of the most useful potential indicators
- (Draft list of potential indicators)
- 3. Verification of statistical feasibility of the potential indicators
- (verification of existence, quality and statistical series and primary data systematization)
- 4. Assessment of primary statistical sources for datamining:
- Surveys and Censuses
- Quality ground monitoring stations and programs (air, water, soil, etc.)
- Remote sensing
- Administrative records
- Estimates
- Scientific research

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!!!



Principle 6: Follow the procedures and take care the statistical quality



- 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

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



Summary Brans

Summary Branch



2

Building indicators: Methodological road map

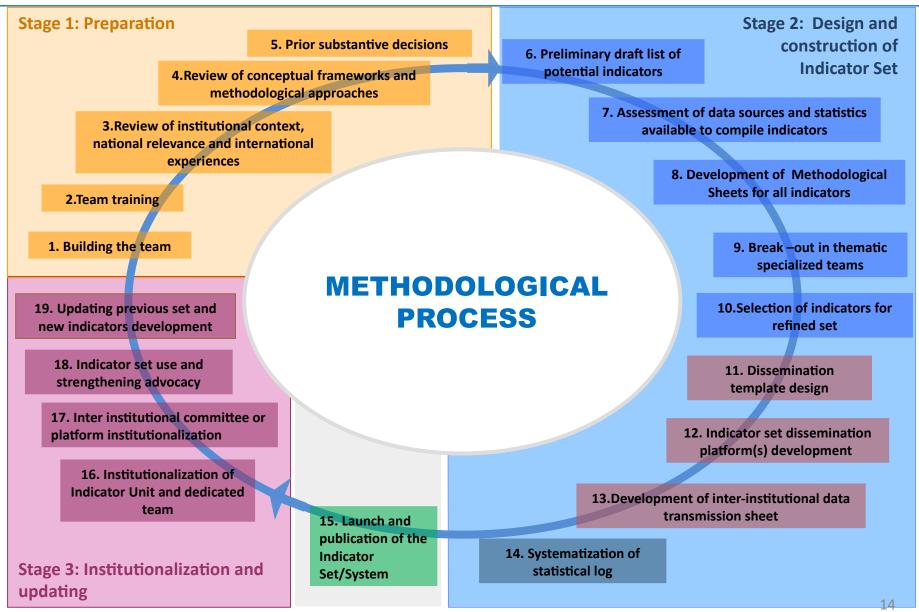
Stage I: Preparation

Stage II: Design and construction of indicator set

Stage III: Institutionalization and updating

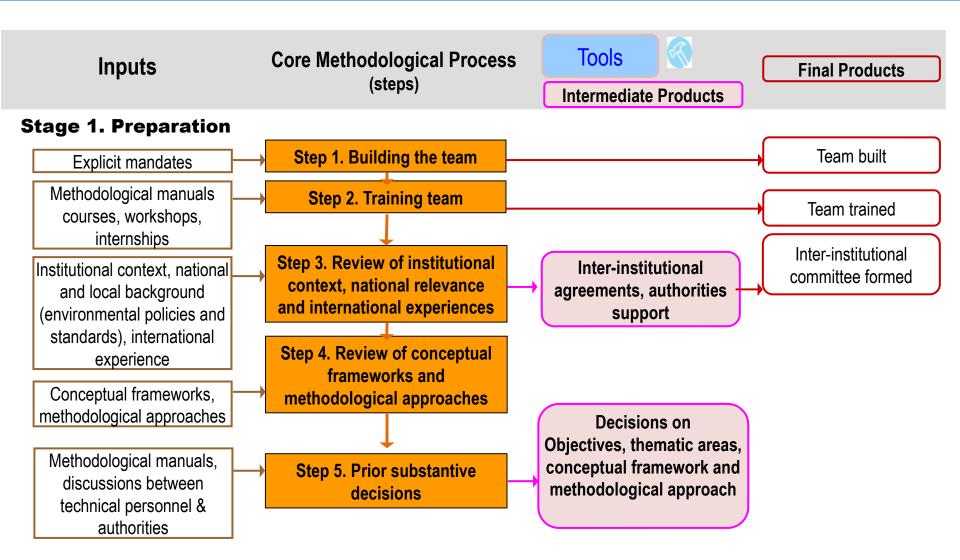
2. Methodological road map

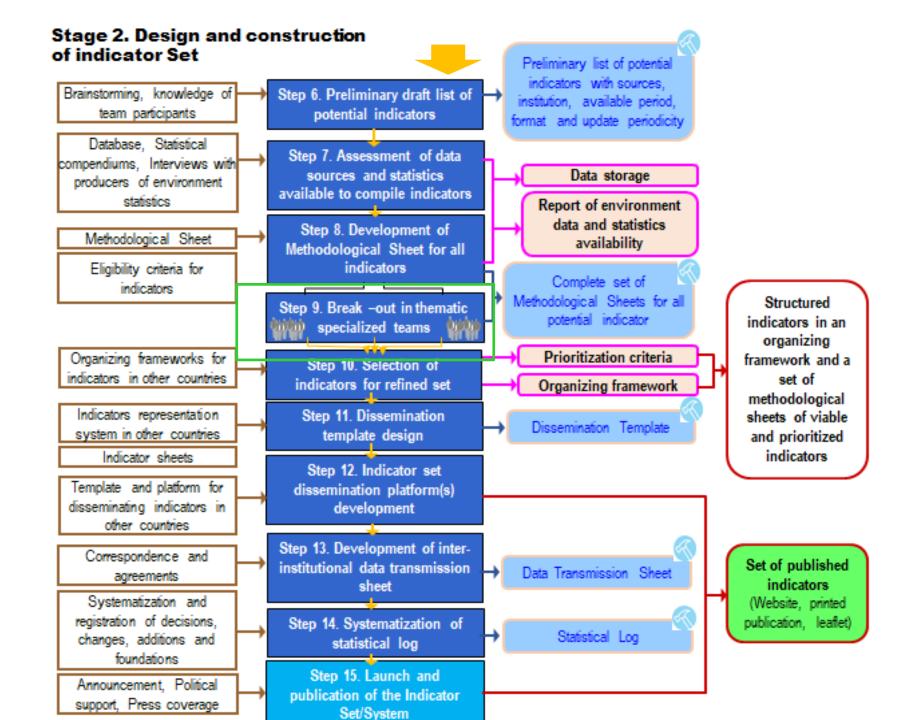












Stage II: Design and development of indicators



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



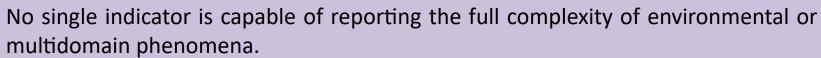
Cor	reputation Method:
Rel	ated indicators as of February 2020
	$X = \frac{(A_2 + A_3 + B_4)}{Glabel Population} \times 100,000$
	ere:
	Number of deaths attributed to disasters;
	Number of missing persons attributed to disasters; and
	Yumber of directly affected people attributed to disasters.
* D	etailed methodologies can be found in the Technical Guidance (see below the Reference section)
Con	mments and limitations:
The	Sendai Framework Monitoring System has been developed to measure the progress in the implementatio
	the Sendai Framework by UNGA endorsed indicators. Member States will be able to report through th
Syst	tem from March 2018. The data for SDG indicators will be compiled and reported by UNISDR.
Pro	xy, alternative and additional indicators:
	most cases international data sources only record events that surpass some threshold of impact and us
sec	ondary data sources which usually have non uniform or even inconsistent methodologies, producir
het	erogeneous datasets.
Da	ata Sources and Collection Method
	ta sources and collection method:
	a provider at national level is appointed Sendai Framework Focal Points. In most countries disaster data a
	lected by line ministries and national disaster loss databases are established and managed by speci
pur	pose agencies including national disaster management agencies, civil protection agencies, ar

Stage II: Design and development of indicators

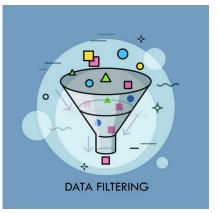


Criteria for selection of indicators (to be included in refined set)

- 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

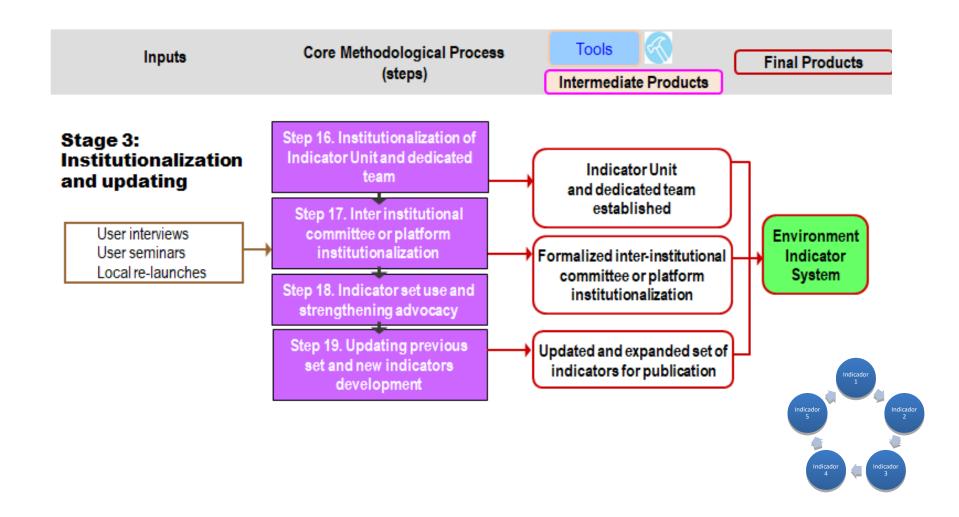


However, each indicator selected must provide sufficient statistical value to justify its place in the indicator set/system.



Stage III: Institutionalization and updating of indicators







3

Products resulting from the indicator-building process

3. Products





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



