Building Stronger Data Ecosystems


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The Global Sustainable Development Goals

MDGs (2000-2015)

- Developing country focused
- Social
- Foreign Aid
- Official Statistics and Administrative Data

Universal

Social, Economic, and Environmental

Domestic Investment, Private Flows, and Aid

Big Data, Citizen Generated Data, Geospatial and Earth Observation Data, Open Data, and more
The Goals

17 Goals, 169 Targets, 230 Indicators = Huge Data Needs
The Global Partnership for Sustainable Development Data (GPSDD) is a multi-stakeholder partnership consisting of over 350 member organizations across sectors focused on leveraging data and technology to support achievement against the Sustainable Development Goals (SDGs) and national development frameworks.

GPSDD was launched during the United Nations General Assembly in September, 2015 to support countries around the world and stakeholders across sectors to better harness the data revolution to achieve the SDGs.
Our Approach

• We work with people and institutions who want to be in the forefront of change.

• We are demand-driven.

• We focus on Data ecosystems: a system that integrates people, institutions and technology, organized and incentivized to promote data production, share and use.
Key Data issues and challenges?

- Political
- Technical
- Capacity
- Financial
- Coordination + Collaboration
Ecosystem?

- Term first defined by A.G. Tansley (1935) ‘as the system resulting from the interaction of all living and non-living factors of the environment’.

Components of Ecosystem

- Ecosystem
  - Abiotic components
    - Climatic factors
      - Rain
      - Light
      - Wind
      - Temperature
    - Edaphic factors
      - Soil
      - pH
      - Minerals
      - Topography
  - Biotic Components
    - Producers (Autotrophs)
    - Consumers (Heterotrophs)
    - Decomposers (Saprotrophs)
    - Primary Consumers
    - Secondary Consumers
    - Tertiary Consumers
    - Quaternary Consumers
Data Ecosystem?

- An environment in which a number of actors interact with each other to exchange, produce and consume data.

- Such ecosystems provide an environment for creating, managing and sustaining data sharing initiatives.

Marcello and Bernadette (2018)

- system that integrates people, institutions and technology, organized and incentivized to promote data production, share and use.
1. Promote an inclusive membership
   a. Promote a transdisciplinary, multi-stakeholders, cross-Govt versus a Silo approach.
   
   b. Provide clear and sticky objective: objective should be aligned to institutional or national need.
   
   c. Promote trust and equity: relevant Agreements and Open Data

2. Provide a Governance Framework: provides the power and management role structure, rules, procedure
3. Provide a shared value proposition
   a. Promote a value proposition that is mutual, and aligned with the need of the parties.

4. Leverage Neutral Brokers
   a. Cross-institutional collaborative data ecosystems are sometimes best brokered by neutral third-party.
5. Promote Open Data
   a. Data ecosystems thrive and are sustained by quality data that is open (available, accessible, legally allowed to use, reuse and distribute etc.)

The 6 Charter Principles of Open Data encourages that Data should be:

i. Open by default
ii. Timely and comprehensive
iii. Accessible and usable
iv. Comparable and Interoperable
v. For Improved Governance & Citizen Engagement
vi. For Inclusive Development and Innovation
What to Address?

1. Finding the right anchor or lead for the collaborative data collaborative (Data champions).

2. Establish a clear line between what is political and what is technical.


4. Simplify data production outcomes such that policy makers can easily use to make decision.
Key questions to consider

1. What are the key data and technology gaps/challenges (access, availability, fit) in your local community/data community that can be addressed for the common good?

2. What sort of partnership model is required within your community to address your data gaps and challenges?

3. What could the incentives be and how would you measure success?
Conclusion

Our society, community and larger world would become more sustainable and thus able to continue to sustain all of us if we continue to create the right and required environment for everyone to thrive.

Leave No One Behind!
Thank you!

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