The Global Sustainable Development Goals

MDGs (2000-2015)		SDGs (2015-2030)
Developing country focused	⟩	Universal
Social		Social, Economic, and Environmental
Foreign Aid	⟩	Domestic Investment, Private Flows, and Aid
Official Statistics and Administrative Data		**Big Data, Citizen Generated Data, Geospatial and Earth Observation Data, Open Data, and more**

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The Goals

17 Goals, 169 Targets, 230 Indicators = Huge Data Needs

BETTER DATA. BETTER DECISIONS. BETTER LIVES.

A global network using data to achieve the Sustainable Development Goals - improving lives, fighting inequality, and promoting environmental sustainability.

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.
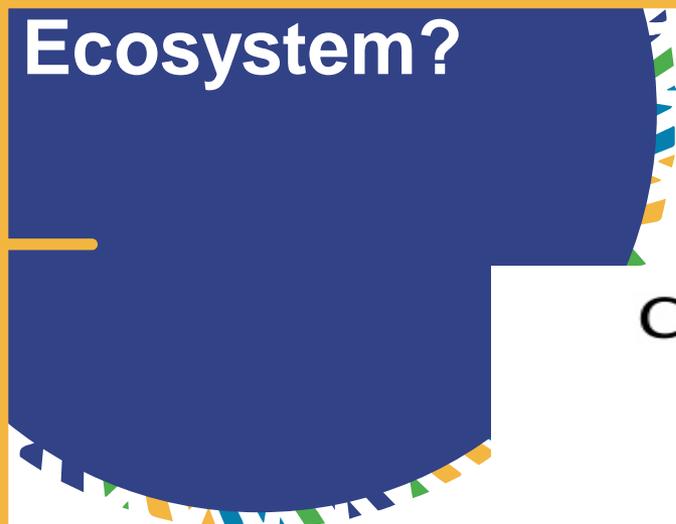
Key Data issues and challenges?

Capacity

Technical

Enabling Environment

Political

Financial

Coordination+ Collaboration

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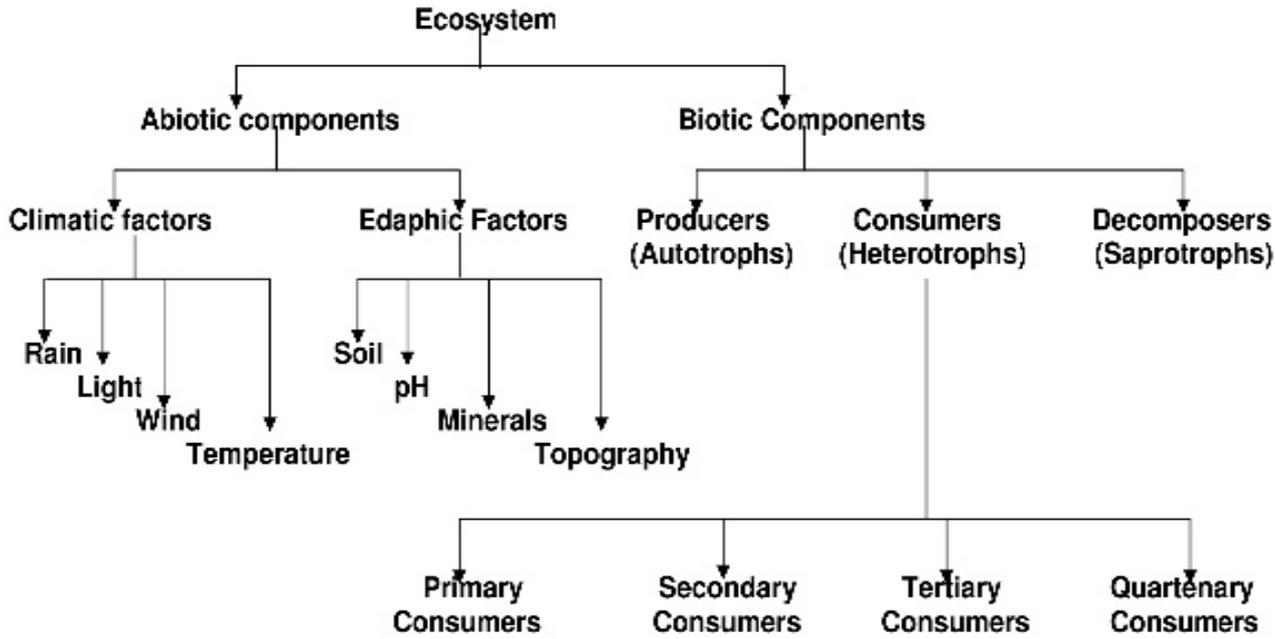
Ecosystem?

- 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)
    - Primary Consumers
    - Secondary Consumers
    - Tertiary Consumers
    - Quartenary Consumers
  - Decomposers (Saprotrophs)

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.

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Data Ecosystem building blocks?

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

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Data Ecosystem building blocks contd.?

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.

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Data Ecosystem building blocks contd.?

Open data is digital data that is made available with the technical and legal characteristics necessary for it to be freely used, reused, and redistributed by anyone, anytime, anywhere…IODC

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

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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.

3. Balance and prioritize national interests with Individual and institutional interests

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

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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?

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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!

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Thank you!

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