

Integrated Approach to the Post 2015 Agenda: SEEA and SDGs



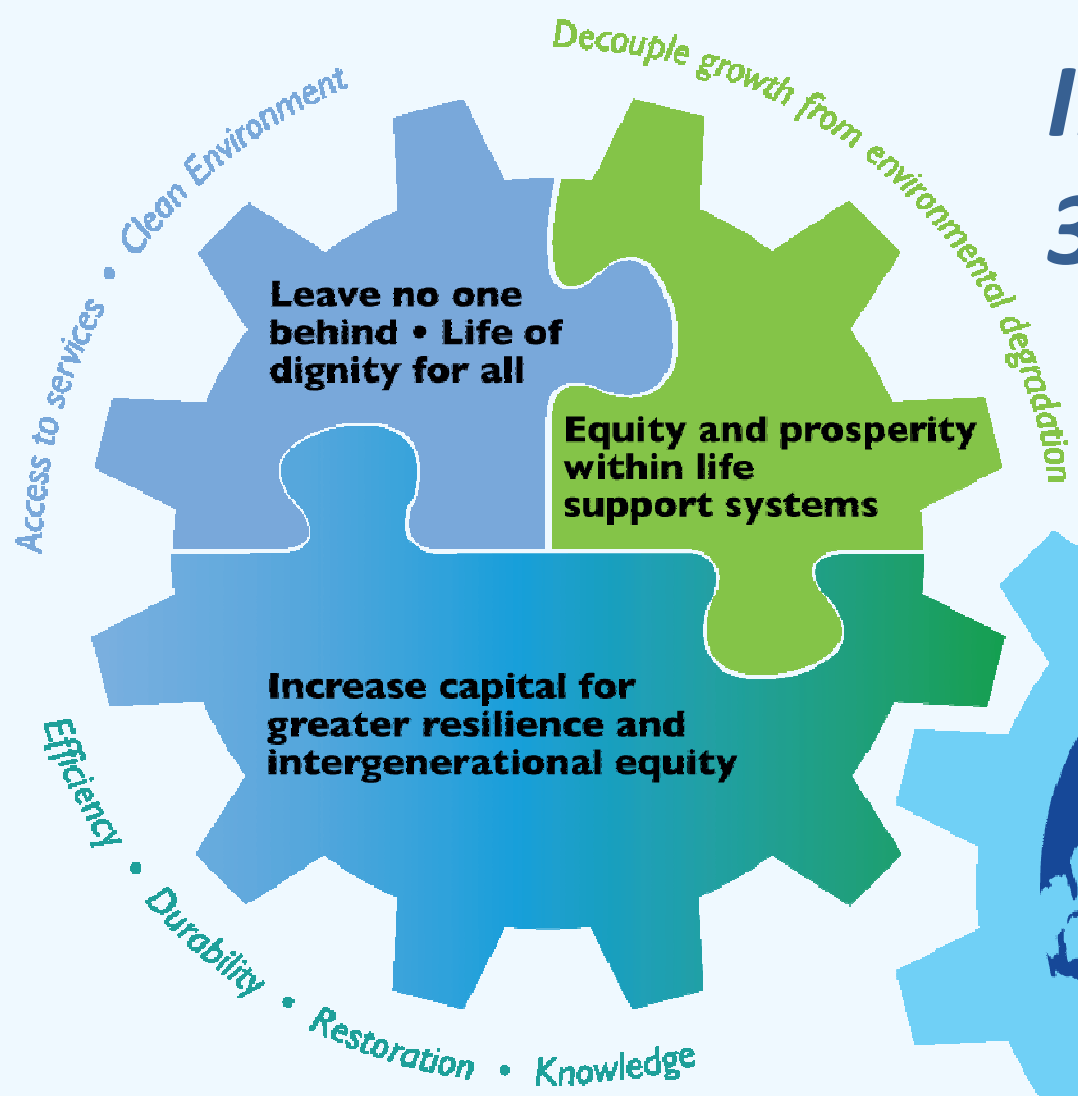
*Poverty alleviation and sustainable
development by 2030*



Jacqueline McGlade UNEP
February 2015



INTEGRATION: **3 principles**



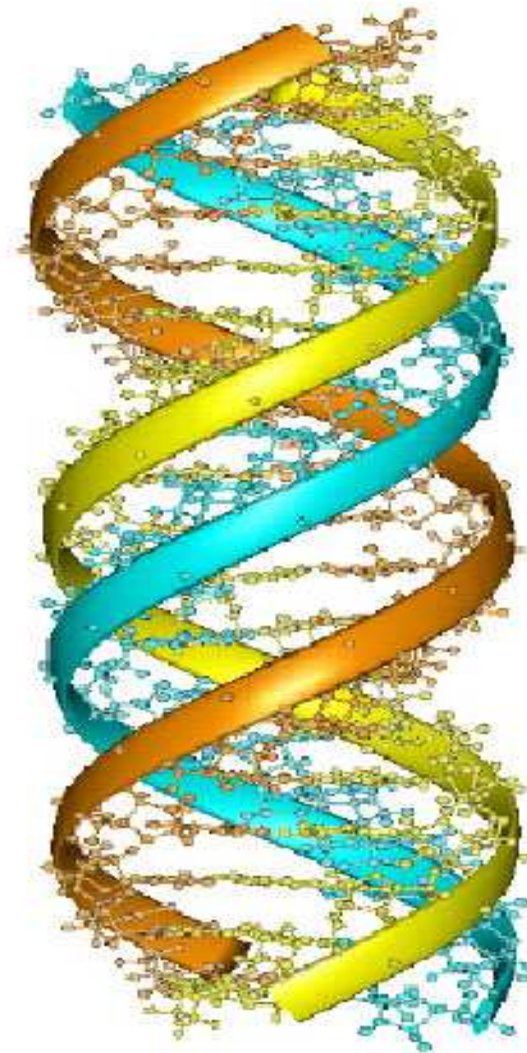
Holistic approach



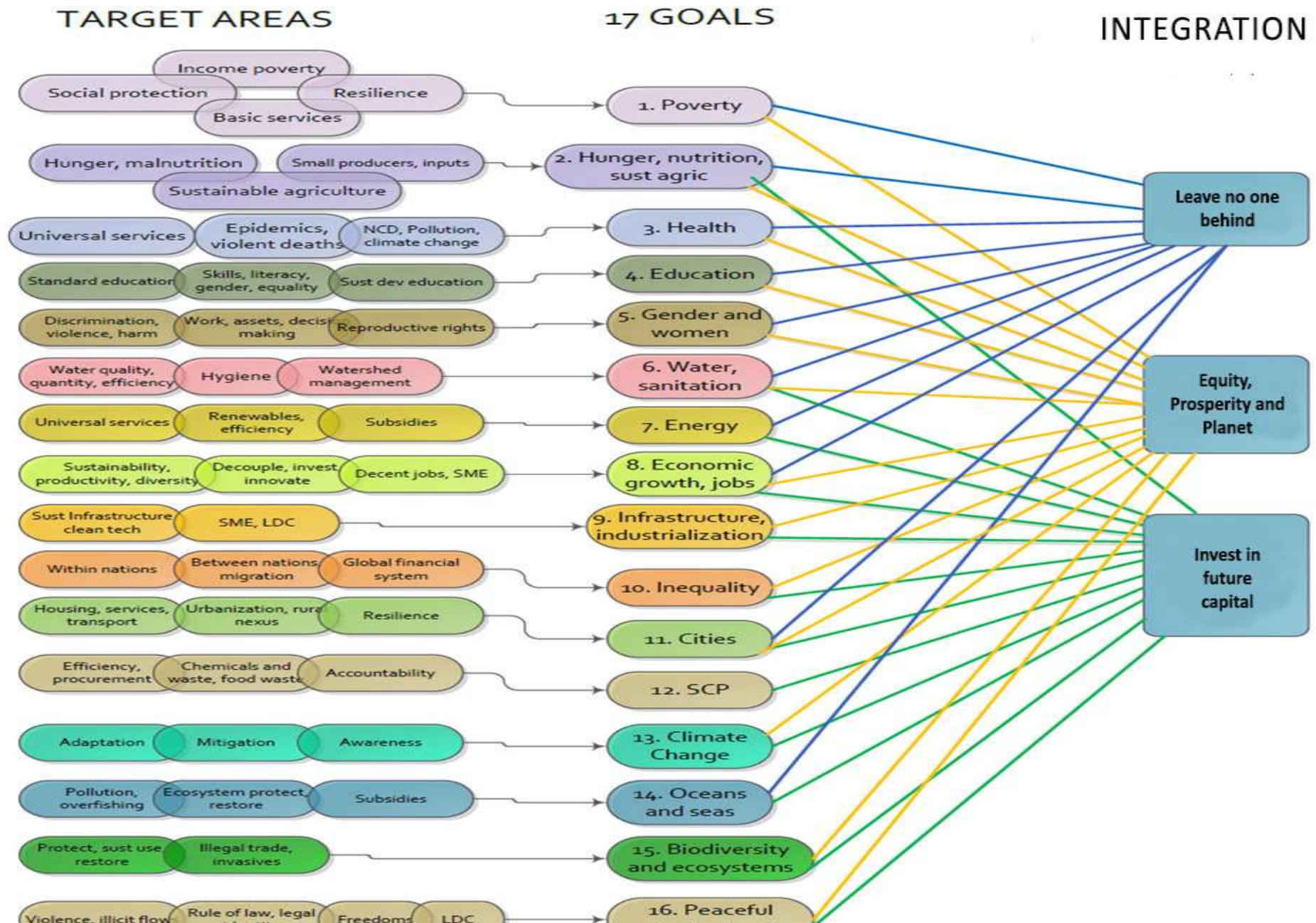
**Fully integrated
and complex**

**Focus on
fundamental
drivers of
change**

**Manage trade-
offs and
synergies**



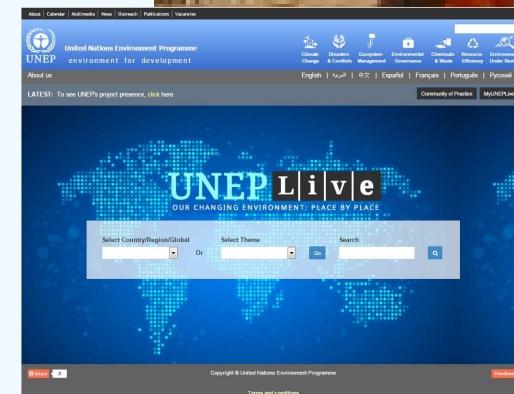
SDG goals and targets in an integrated framework



Building the SDG Information System



- SDG Ontology Framework - interoperability
- Existing and new indicators
- Data revolution and privacy
- Transparency and information access
- UN Live
- Citizen science





United Nations Environment Programme
environment for development

- Climate Change
- Disasters & Conflicts
- Ecosystem Management
- Environmental Governance
- Harmful Substances
- Resource Efficiency
- Environment Under Review

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Anglian Water wins prestigious Green Economy Award with geo's in-home 1

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National Information & Policies

Open Data for Morocco

OPEN DATA for Africa

Arable land and land under permanent crops

	1994	1999	2004	2009
Agricultural land (% of land area)	69.38	68.77	67.31	67.34
Arable land (% of land area)	20.44	19.76	18.40	18.05
Arable land (hectares per person)	0.34	0.31	0.27	0.25
Agricultural irrigated land (% of total agricultural land)			4.30	4.61
Permanent cropland (% of land area)	1.88	1.96	1.86	2.24

Export Share

Land use - 2009

Evolution of land use

Evolution of arable land as % of total area

Evolution of fertilizer consumption

Arable land and land under permanent crops

Global, Regional and National Environmental Goals,

UNEP environment for development

Climate Change | Disasters & Conflicts | Ecosystem Management | Environmental Governance | Chemicals & Waste | Resource Efficiency | Environment Under Review

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Measuring Progress Towards Global Environmental Goals

Map

Marine Dead Zones

Hypoxic and Eutrophic Coastal Areas

- Eutrophic
- Hypoxic
- Recovering

Source: Diaz et al. (2018). Global hypoxic and hypoxic coastal systems

Reporting Obligations Database (ROD)

Reporting deadlines: Morocco

Select issue: All issues | Select deadline: All deadlines | Select client: All clients |

The list includes also recently passed deadlines, until 10% of the time difference between last deadline and next deadline has passed + 3 days for a monthly deadline, 36 days for a yearly deadline etc.

57 items found, displaying 1 to 50. (First|Prev|1, 2|Next|Last)

Reporting obligation	Reporting to	Deadline	Responsible	Delivered
Annual Report	CITES	2014-10-31	Morocco	None
Yearly report to the Basel Convention	SEC	2014-12-31	Morocco	None
Species Network	Basel Convention	2014-12-31	Morocco	None
Regional National Report	Basel Convention	2015-12-31	Morocco	None
Regional national report and report on i...	MAR	2015-12-31	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
General Report	Basel Convention	2017-01-31	Morocco	None
Morocco 2010 Intensive for air pollution	SEA	2015-04-30	Morocco	None
National Report	CMS	2014-06-30	Morocco	None
Information on the number of certificates	CITES	2014-10-31	Morocco	None
Information on the number of live animals	CITES	2014-10-31	Morocco	None
Information on the export of live animals	CITES	2014-10-31	Morocco	None
Regional Report	CITES	2014-12-31	Morocco	None
IRA Country Report	FAD Forestry Report	2014-12-31	Morocco	None
Report on the conservation of wild birds	CITES	2015-03-31	Morocco	None
Annex 21 National Report	SEC	2015-06-30	Morocco	None
National Report	SUBCRATS	2015-06-30	Morocco	None
National Report on the technical impleme...	MAR	2015-12-31	Morocco	None
Report on implementation	UNCCD	2016-09-31	Morocco	None
Information on the conservation status of...	Ramsar Convention	2005	Morocco	None
Information on the impact of dams on wetl...	Ramsar Convention	2005	Morocco	None
Triennial National Report	ACCORAMS	2005	Morocco	None
Report on indicators	CEI	2005	Morocco	None
Report on pilot studies on early warning	CST	2005	Morocco	None
Information on significant cases of tra...	CITES	2006	Morocco	None

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Monitoring data, Traditional Knowledge, Citizen Science

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Sea Ice Extent

Original data source: National Snow and Ice Data Center

Extent (Millions of square kilometers) vs Date (1 Jan to 1 Aug)

Legend:

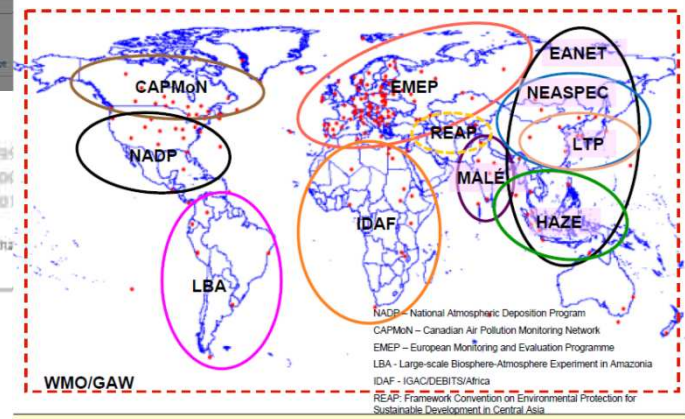
- 1981–2010 Average
- █ ±2 Standard Deviations
- 1979
- 1980
- 1981
- 1982
- 1983
- 1984
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- 1989
- 1990
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- 2013
- 2014

More information: [UNEP Resources](#) | [Partner Resources](#) | [Latest Knowledge](#)

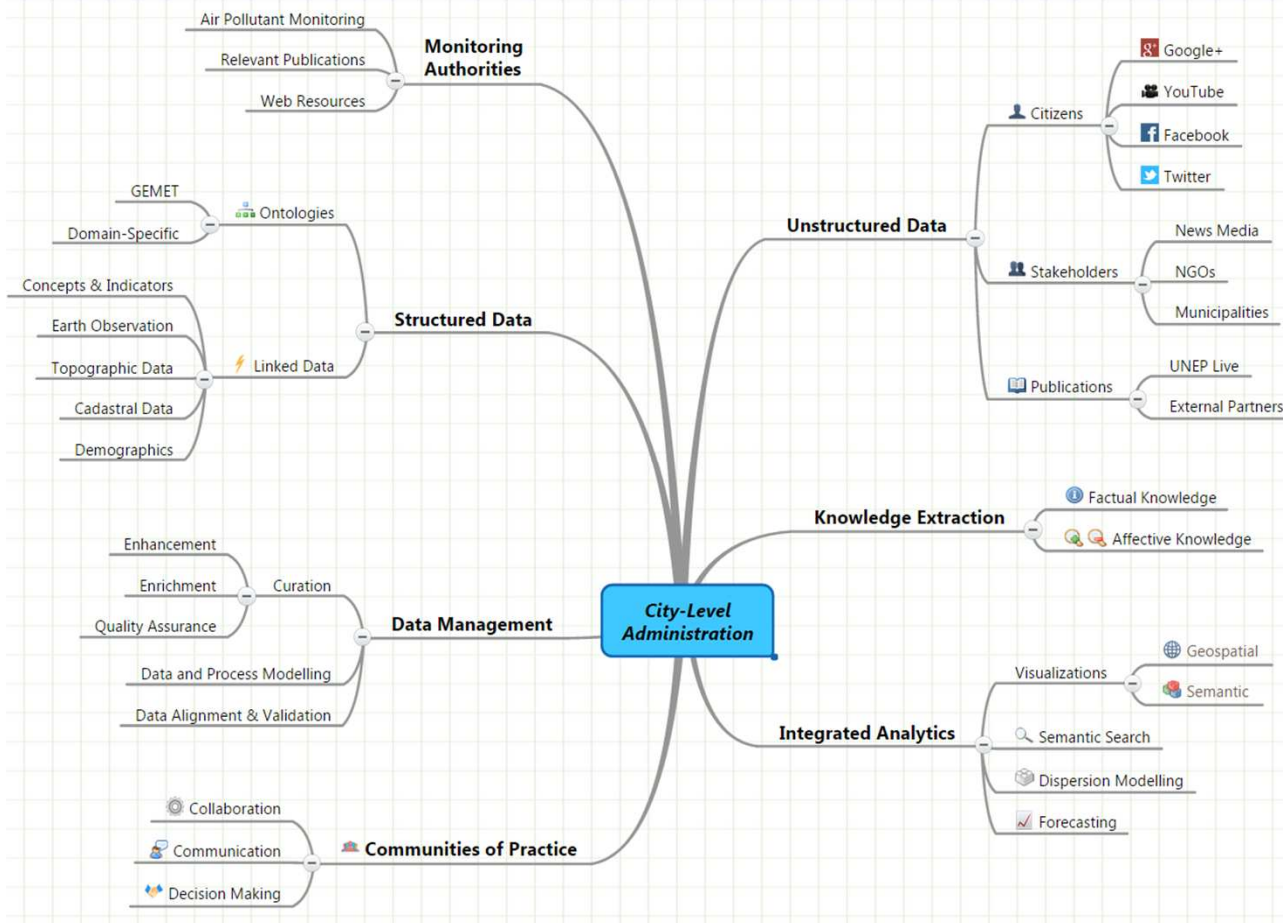
Salmon Waters today and before

Source: Adapted from the Mustonen, Tero and Mustonen, Tero

Regional Air Pollution Monitoring Networks



Co-production of Knowledge



UNEP Website Screenshot:

- Header: United Nations Environment Programme - environment for development
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- Language: English, العربية, 中文, Español, Français, Português, Русский
- Search: Search

Goal 13 Dashboard Screenshot:

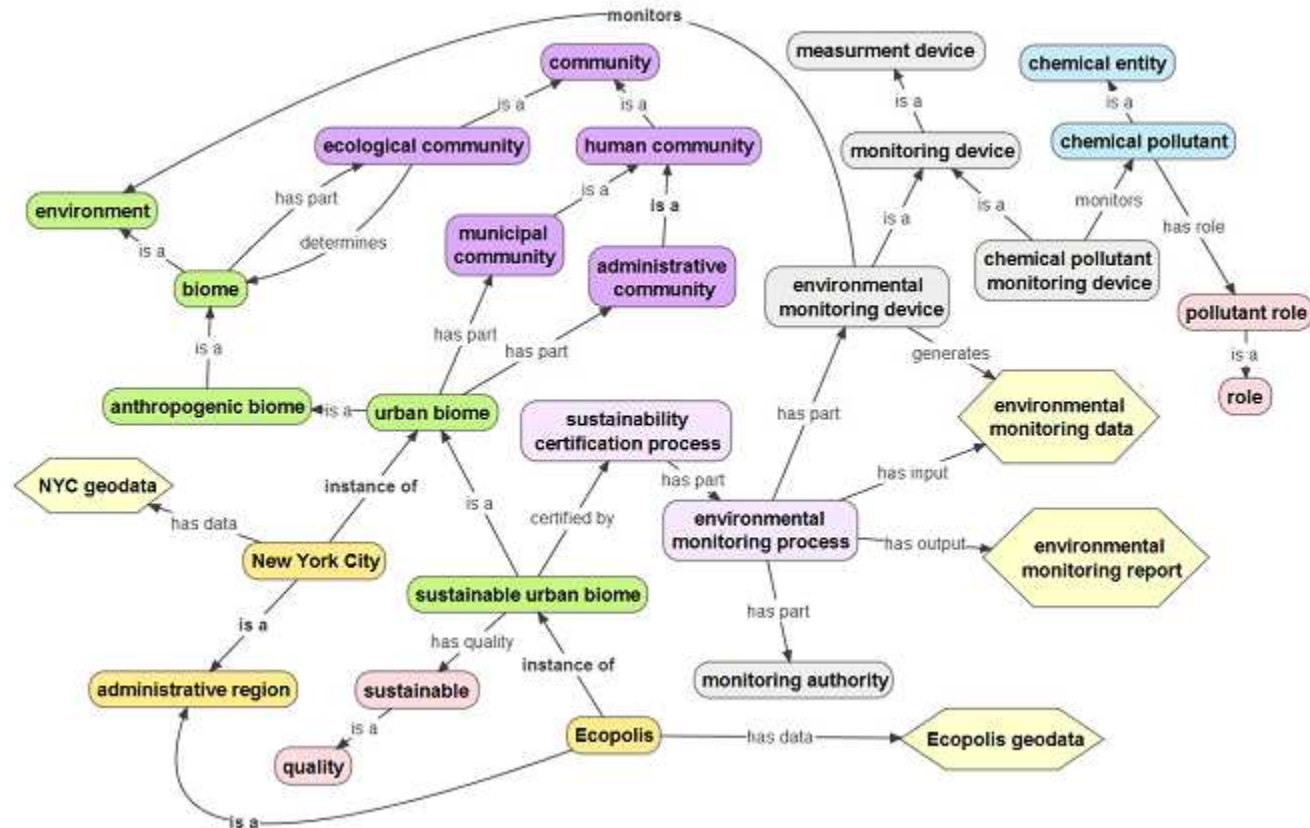
Goal 13: Take urgent action to combat climate change and its impacts

DASHboards Table:

Year	Value	Unit
2010	1.4	°C
2011	1.5	°C
2012	1.6	°C
2013	1.7	°C
2014	1.8	°C
2015	1.9	°C
2016	2.0	°C
2017	2.1	°C
2018	2.2	°C
2019	2.3	°C
2020	2.4	°C
2021	2.5	°C
2022	2.6	°C

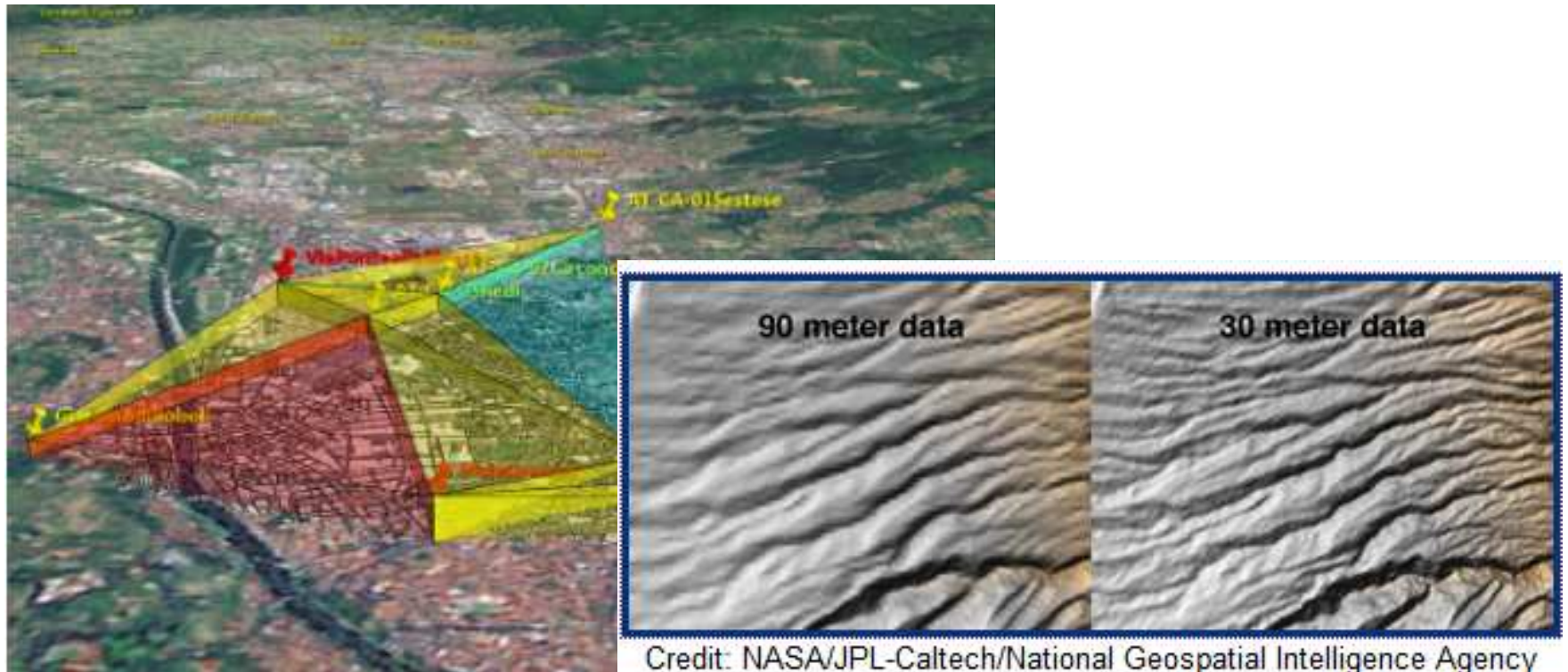
Ontology for urban monitoring and UNEP Live

Classes from environmental (green), chemical (blue), gazetteer (yellow), and community (purple) ontologies, other classes created as needed (grey). Both instance-level (e.g. objects present in the real world) and class-level (e.g. an urban biome with common properties). Data, documents, or other informational entities (pale yellow hexagons) can be linked into this web for semantically-aware mobilisation



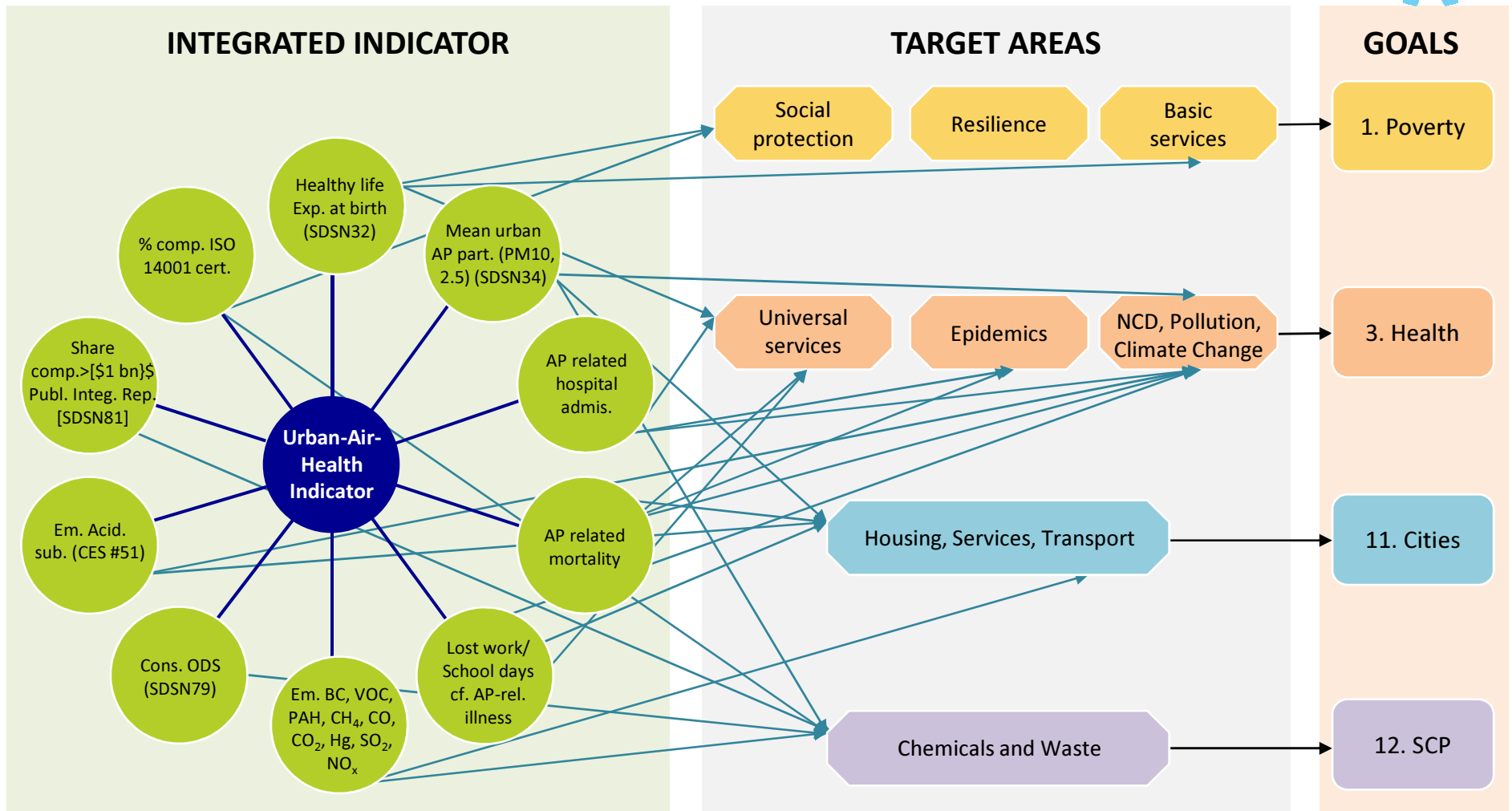
Air-Quality Data 3D Visualization

www.cirgeo.unipd.it/nasaww



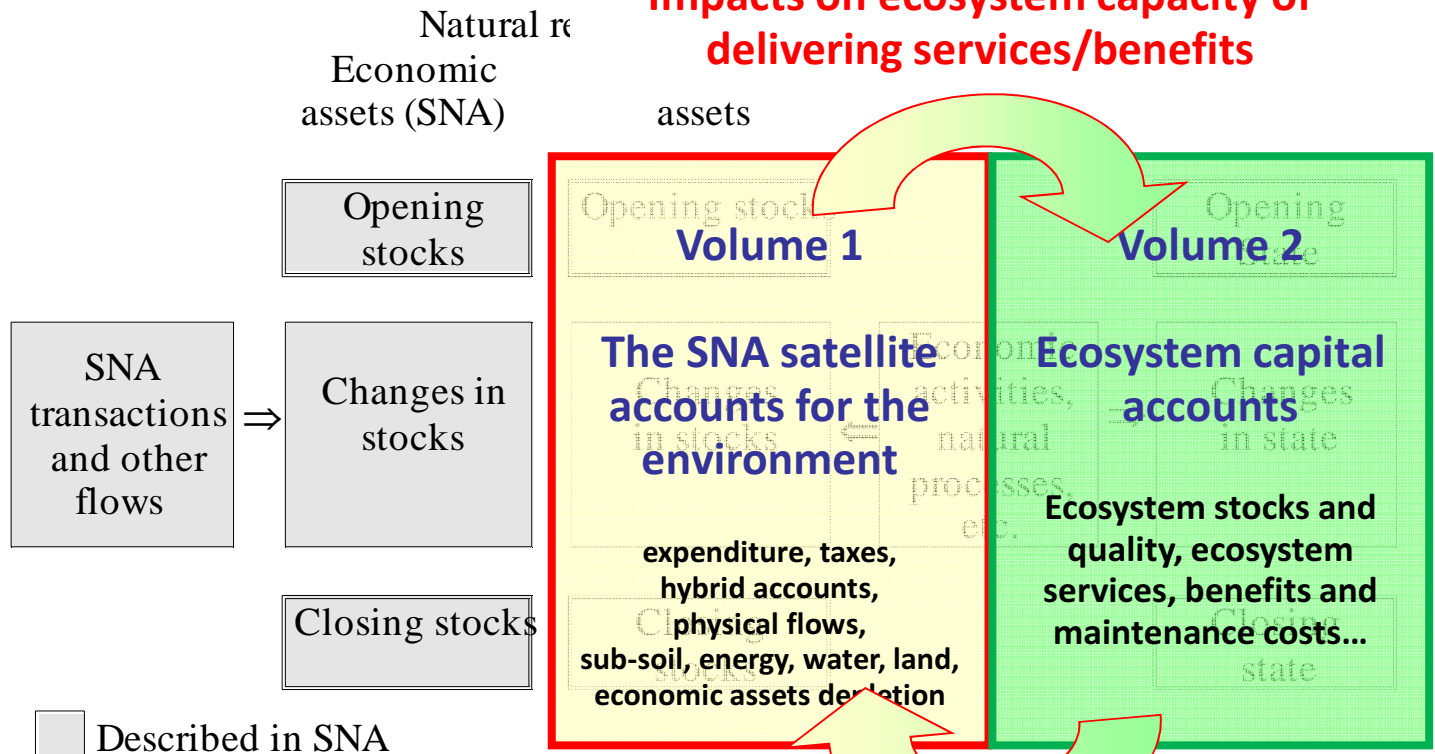
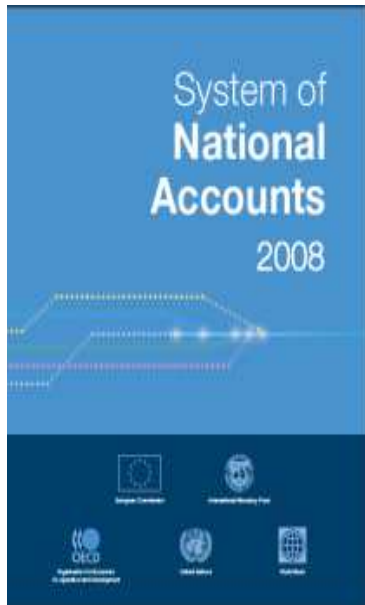
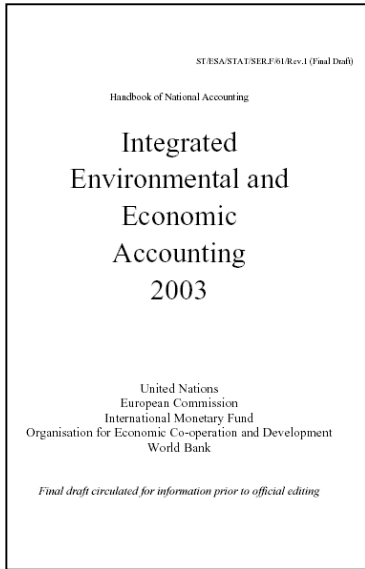
Shuttle Radar Topography Mission 2 NASA

Urban air quality health indicator



UN manual for environmental-economic accounting: *Enlargement of the System of National Accounts*

Revision SEEA2012/13



Impacts on ecosystem capacity of delivering services/benefits

Negative feedbacks of ecosystem degradation on production and wellbeing

SDG ONTOLOGY FRAMEWORK

top level	Basic Formal Ontology (BFO)		
mid-level	Information Artifact Ontology (IAO)	Ontology for Biomedical Investigations (OBI)	Phenotypic Quality Ontology (PATO)
	Sociome Ontology (SociO)	Banking and Economic Development (FIBO)	stress ontologies, resilience, access
Populations and Communities Ontology (PCO)			
domain level	Environment Ontology (ENVO)	Legal ...	Disease Ontology (DO)
	Common Reference Ontologies for Plants (cROP)		
	NCBI Taxonomy	Healthcare ...	Infectious Disease Ontology (IDO)
	Regions (GAZ)		
	Chemistry (ChEBI)		

ENVO Ecosystem and Services definition development

Lives Monitoring of Earth Skin - Demonstrator

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¶ Papua, Indonesia ¶



▷ ID: 123

▷ Theme: Ecosystems

▷ Keywords: Agriculture & Aquaculture, Forests

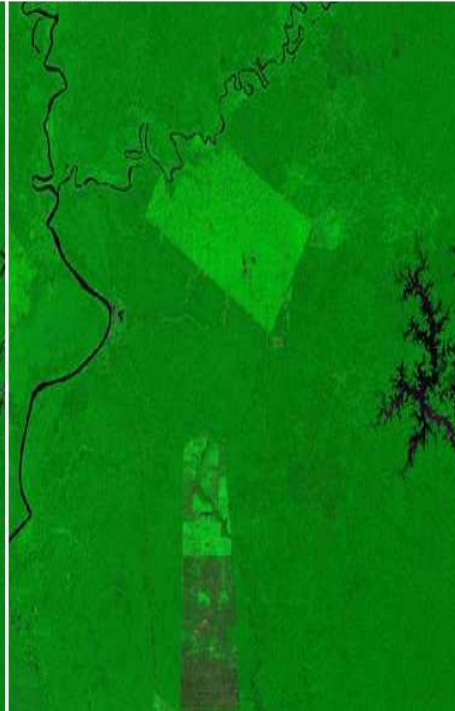
▷ Description of the site & environmental issue(s)

Indonesia is the second largest producer of palm oil in the world, after Malaysia. The drive to meet the demand for palm oil is resulting in conversion of forested areas into palm oil plantations. These three satellite images reveal how a combination of transmigration, logging interests, and palm oil plantation development have transformed an area that was previously tropical lowland rain and swamp forest. While the 1990 image shows the first signs of development in this region, with the jagged access road network forming the only break in the forest cover, the October 2000 image reveals an area being prepared for palm oil plantations, and evidence of an influx of plantation workers. The 2002 image clearly shows a checkered pattern of plantations in the primary development area, and the extension of the road network to the north, south, and southwest.

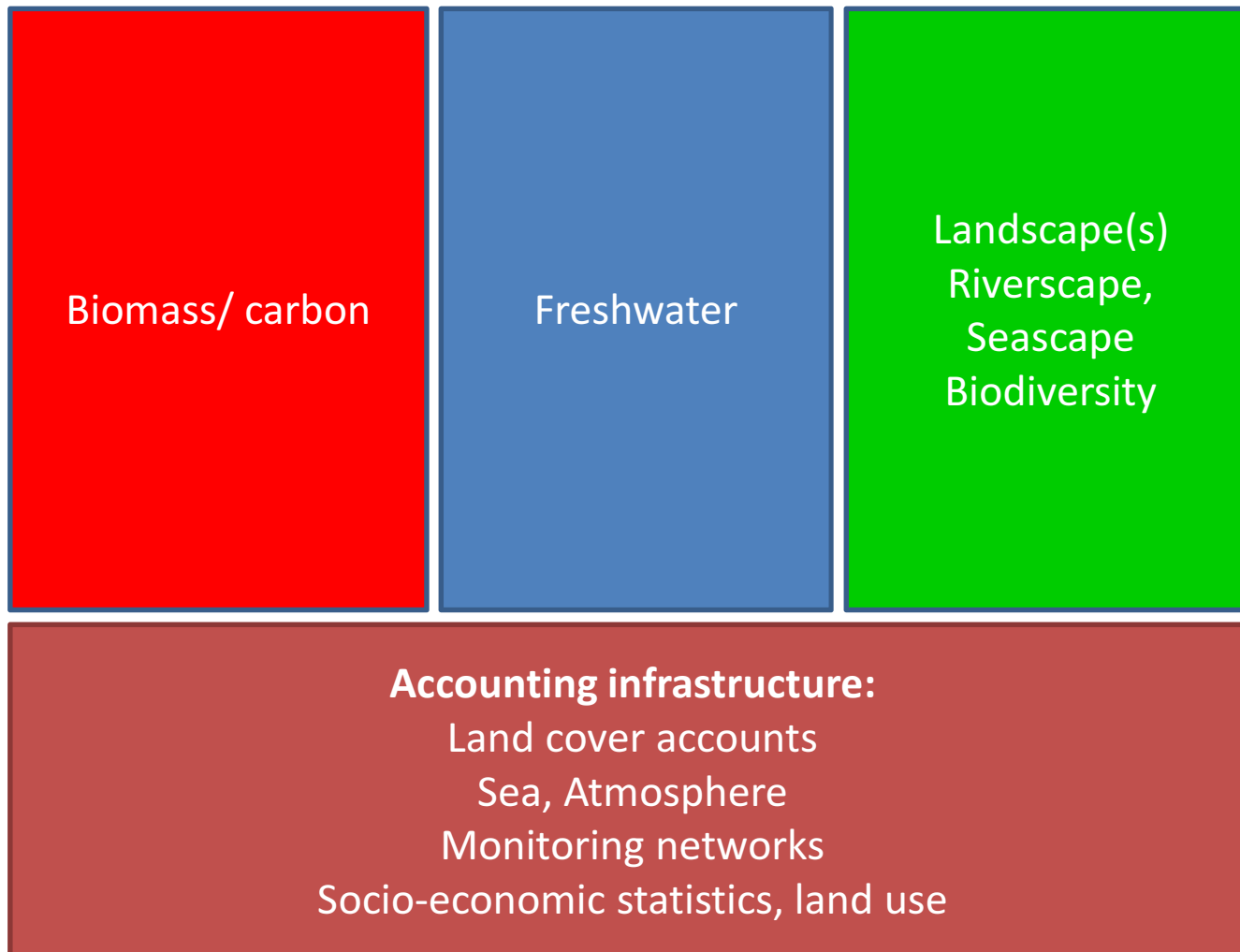
▷ Landsat 5 - 20.11.1990



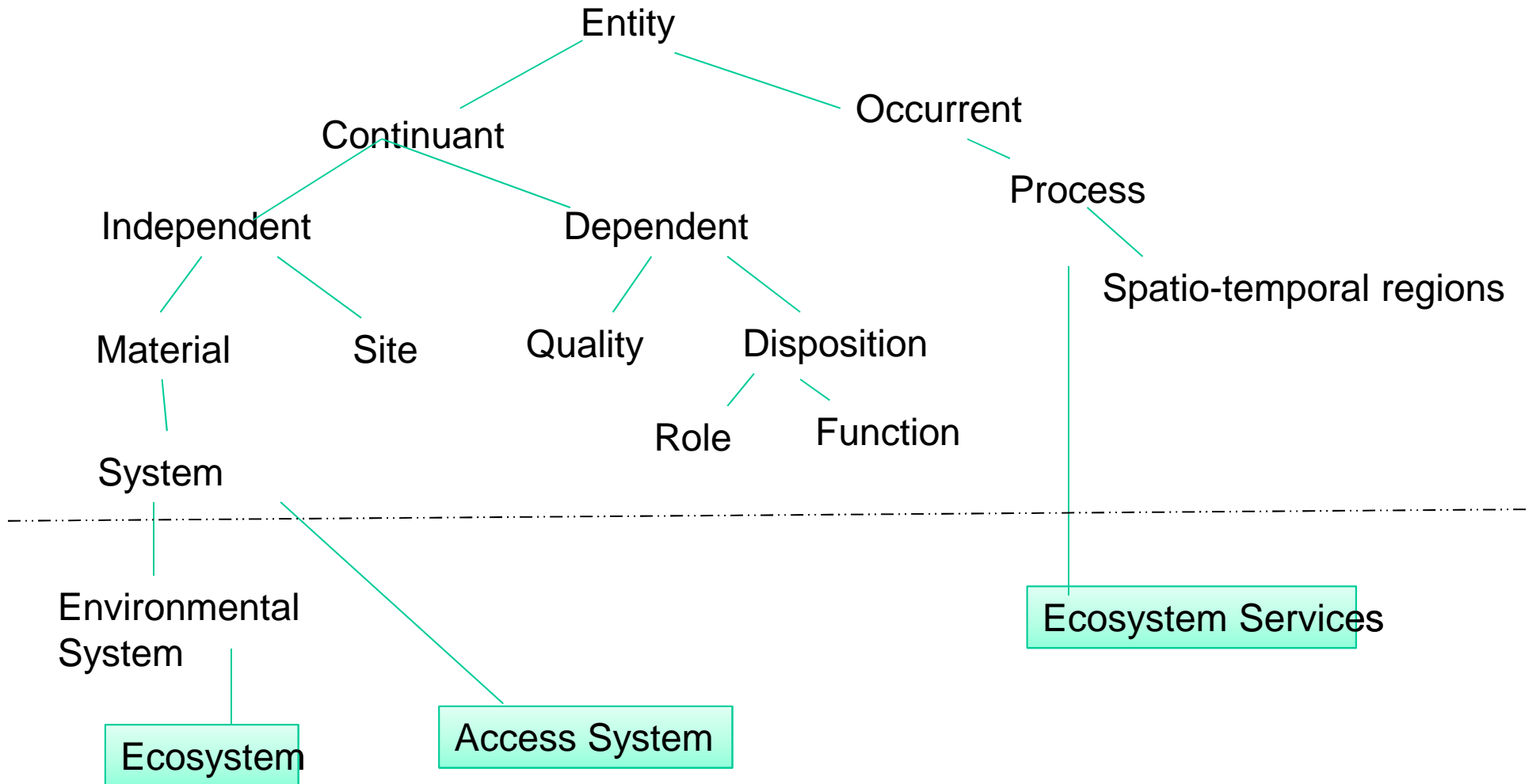
▷ Landsat 8 - 25.01.2015



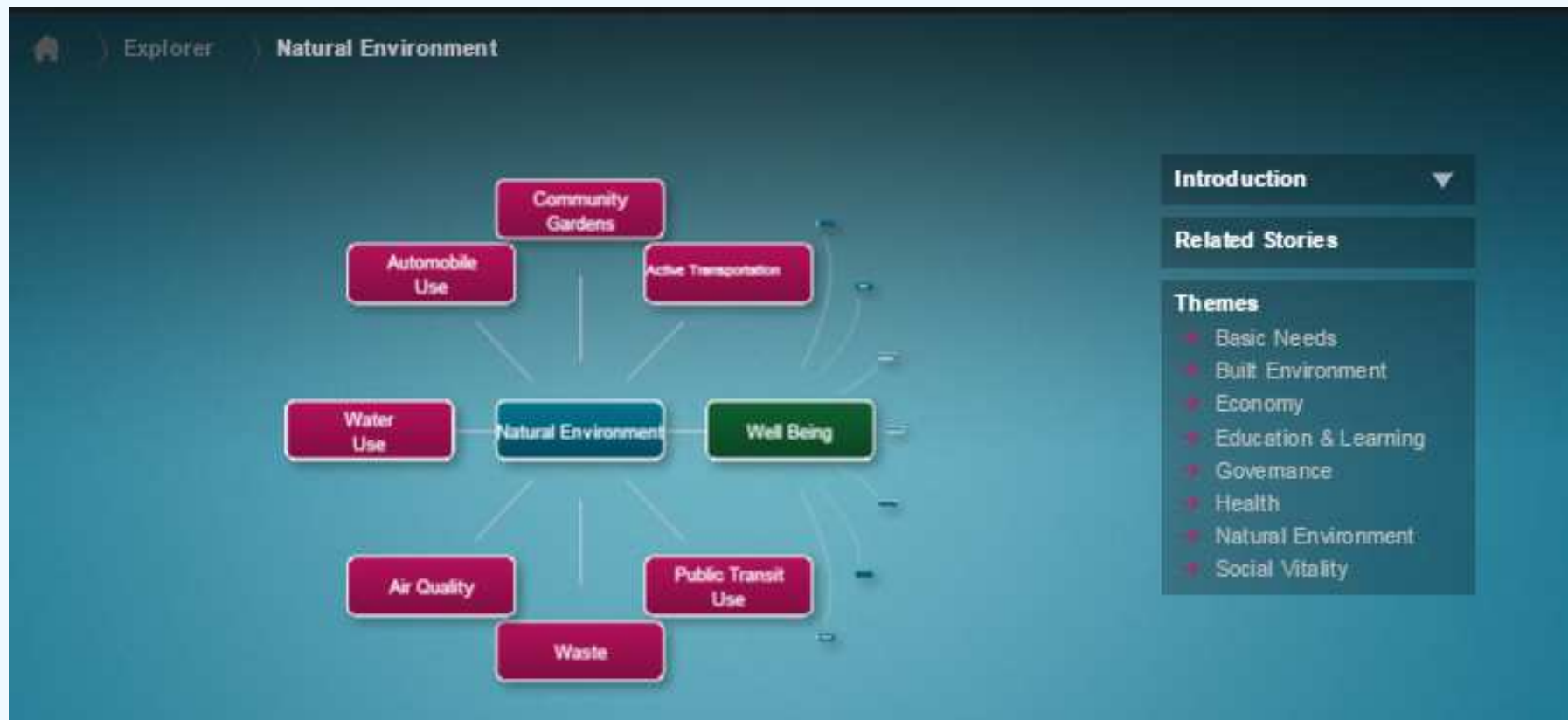
SEEA focus is on accessible flows and stocks without degrading the ecosystem



SDG ONTOLOGY ELEMENTS



SDG Ontology Framework Integration of indicators





Thank you

