RESULTS • EMPOWERMENT • CHANGE

REC • 25 Years • 1990-2015

Regional Consultation on the Implementation of the UN 2030 Agenda for Sustainable Development in Central and Eastern Europe

11-12 April 2016
Szentendre, Hungary

REGIONAL ENVIRONMENTAL CENTER

IISD
International Institute for Sustainable Development

CEU Department of Environmental Sciences and Policy
CENTRAL EUROPEAN UNIVERSITY

Taking the right approach to managing a complex program: A systems view of the SDGs

Laszlo Pinter, PhD

April 11, 2016

Regional Environmental Center

Szentendre, Hungary

IISD
International Institute for Sustainable Development

CEU Department of Environmental Sciences and Policy
CENTRAL EUROPEAN UNIVERSITY

Key points

1. The SDGs come at a critical moment in planetary socio-ecological evolution
2. They are a cornerstone of an integrated agenda
3. They are the result of a multi-stage, complex process, they are strongly mandated, and they are unprecedented in ambition – *this needs to be replicated at other levels*
4. Many goals are linked and through these links SDGs form a *goal system*
5. We need to think about *transformative transition pathways*
6. Implementation can start from existing foundations
7. We have to stop deceiving ourselves

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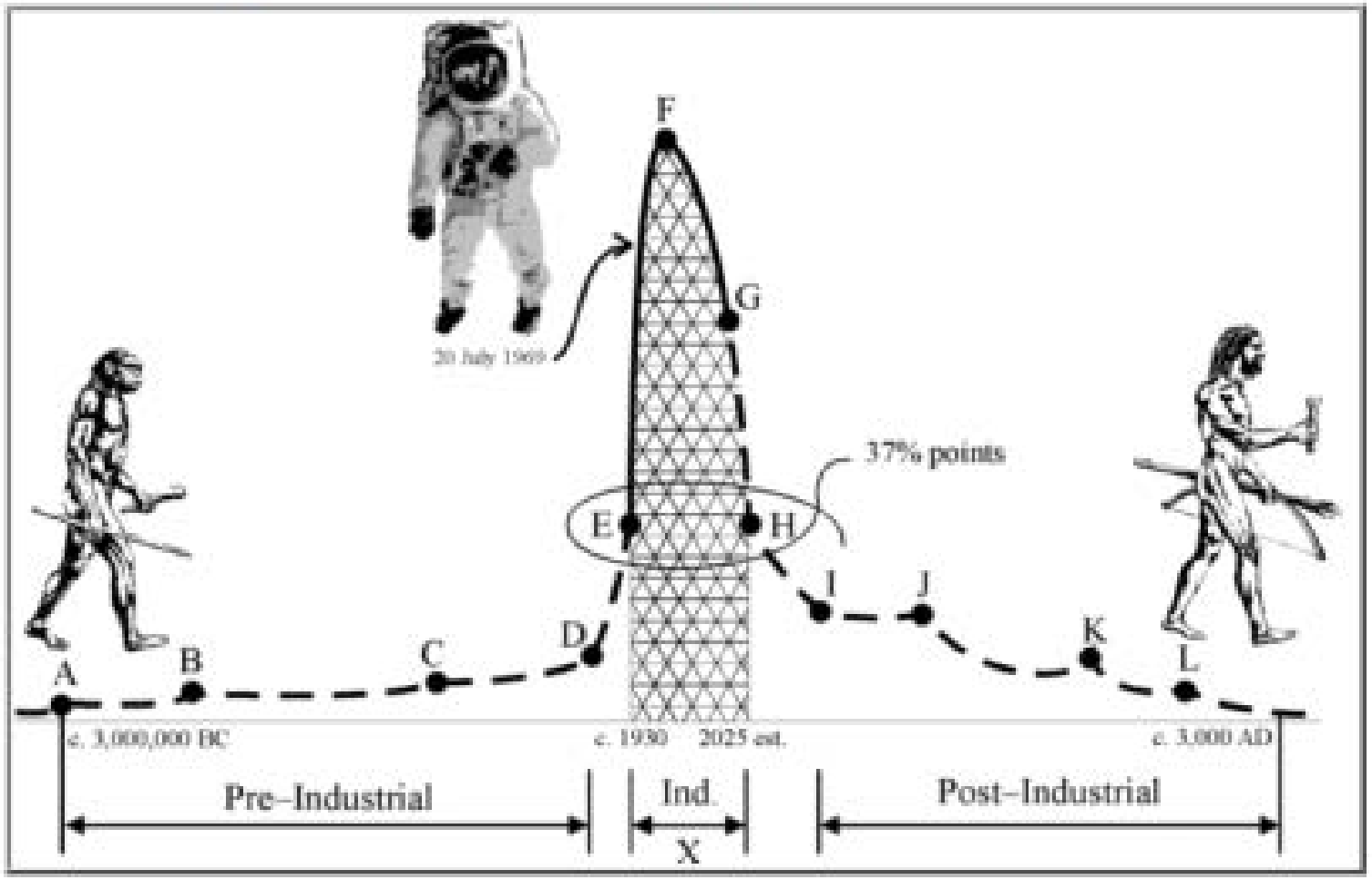
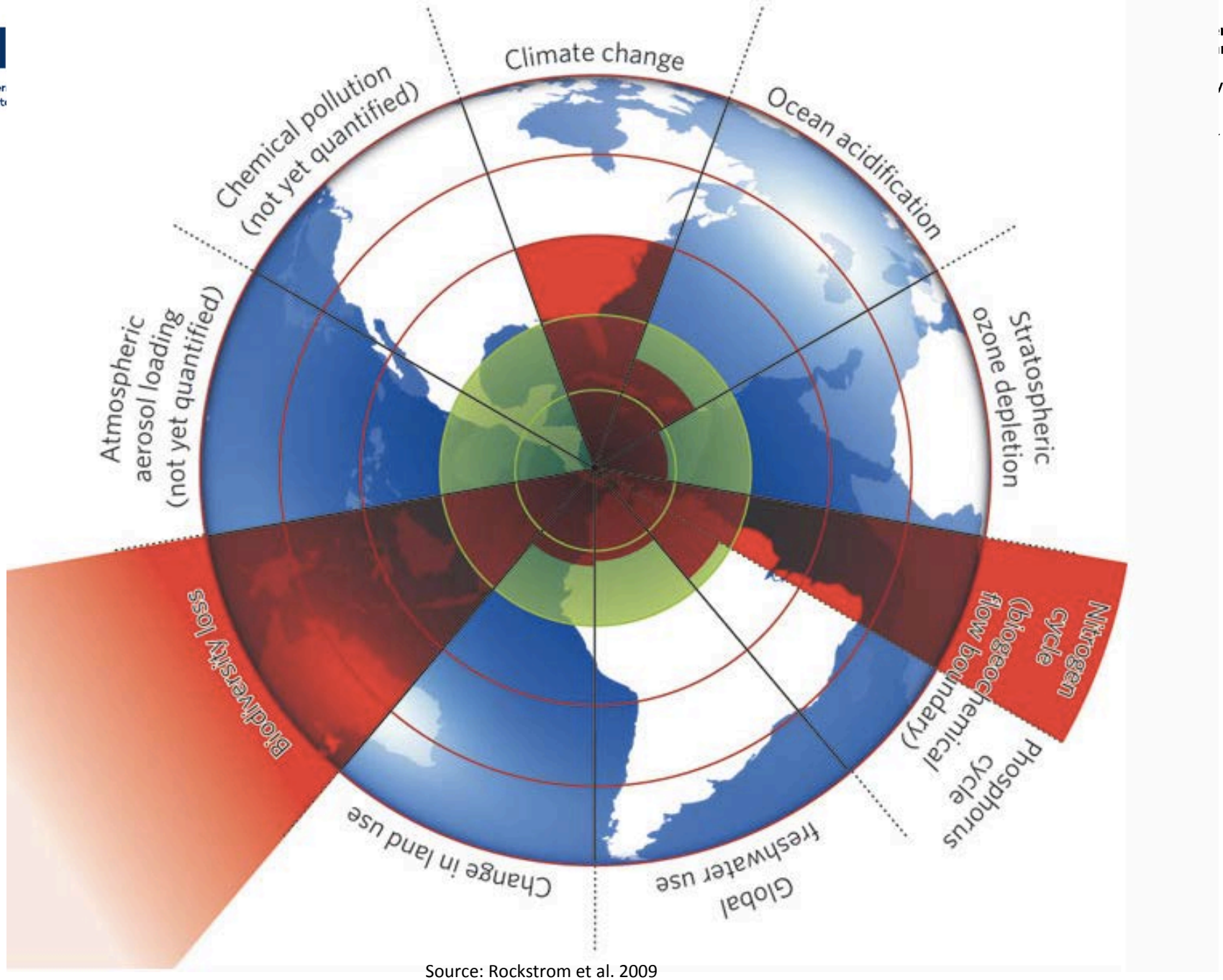
THE GREAT ACCELERATION

REFERENCE: Steffen, W., W. Broadgate, L. Deutsch, O. Gaffney and C. Ludwig. The Trajectory of the Anthropocene: the Great Acceleration. The Anthropocene Review, 16 January 2015.

MAP & DESIGN: Félix Pharand-Deschênes / Globaia

Figure 1. The Olduvai Theory of Industrial Civilization





Source: Rockstrom et al. 2009
http://www.nature.com/articles/461472a.epdf?referrer_access_token=epBhX_MfbRfL5BmF0U7Yn9RgN0jAjWel9jnR3ZoTv0P37Gs3zKRDU9gfE3JMDFVzgJJt2Zx9nqsHugtbqZV27CFJfcx_W461RjW-U2Hxzhs%3D

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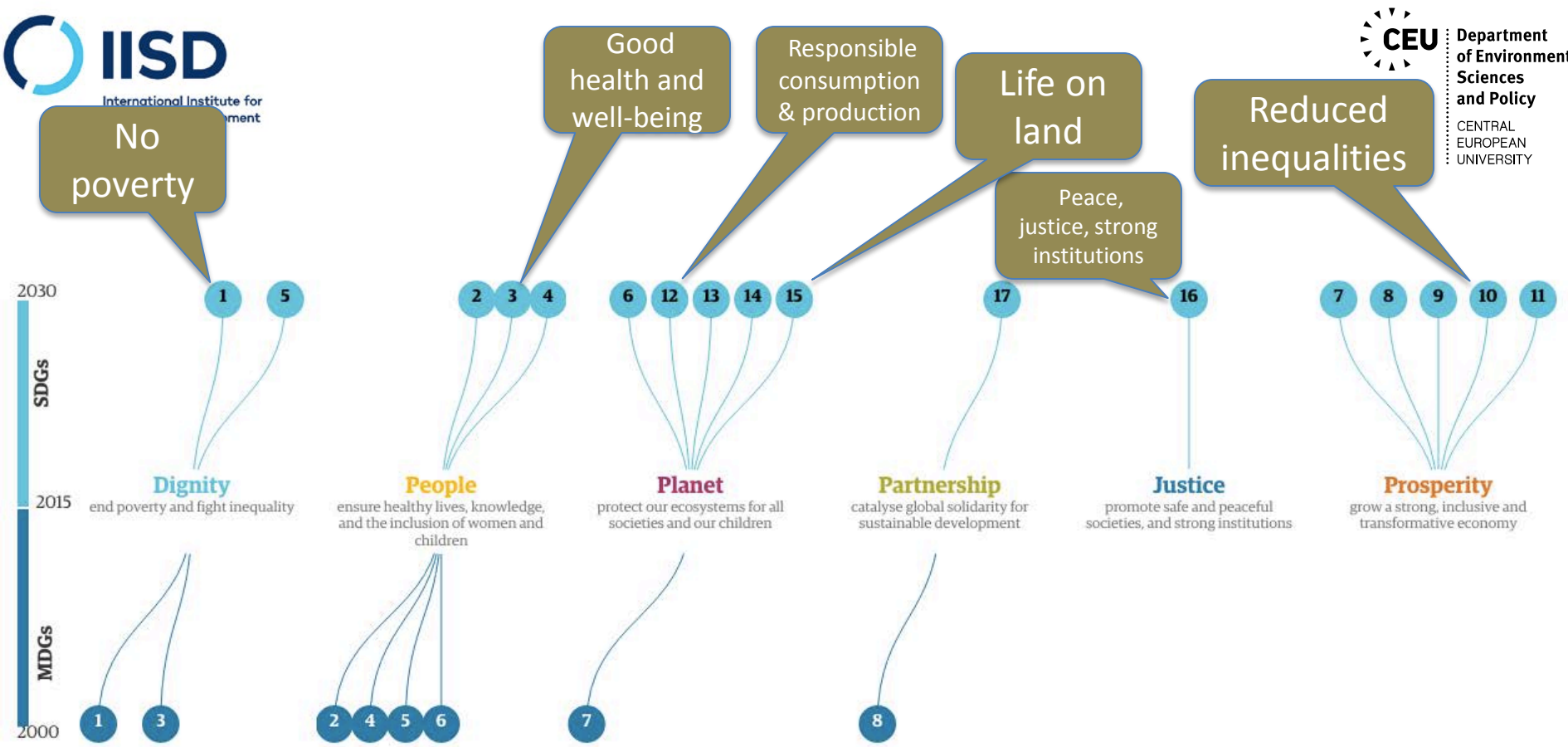
Source: http://www.kateraworth.com/doughnut/



Source: http://www.theguardian.com/global-development/ng-interactive/2015/jan/19/sustainable-development-goals-changing-world-17-steps-interactive

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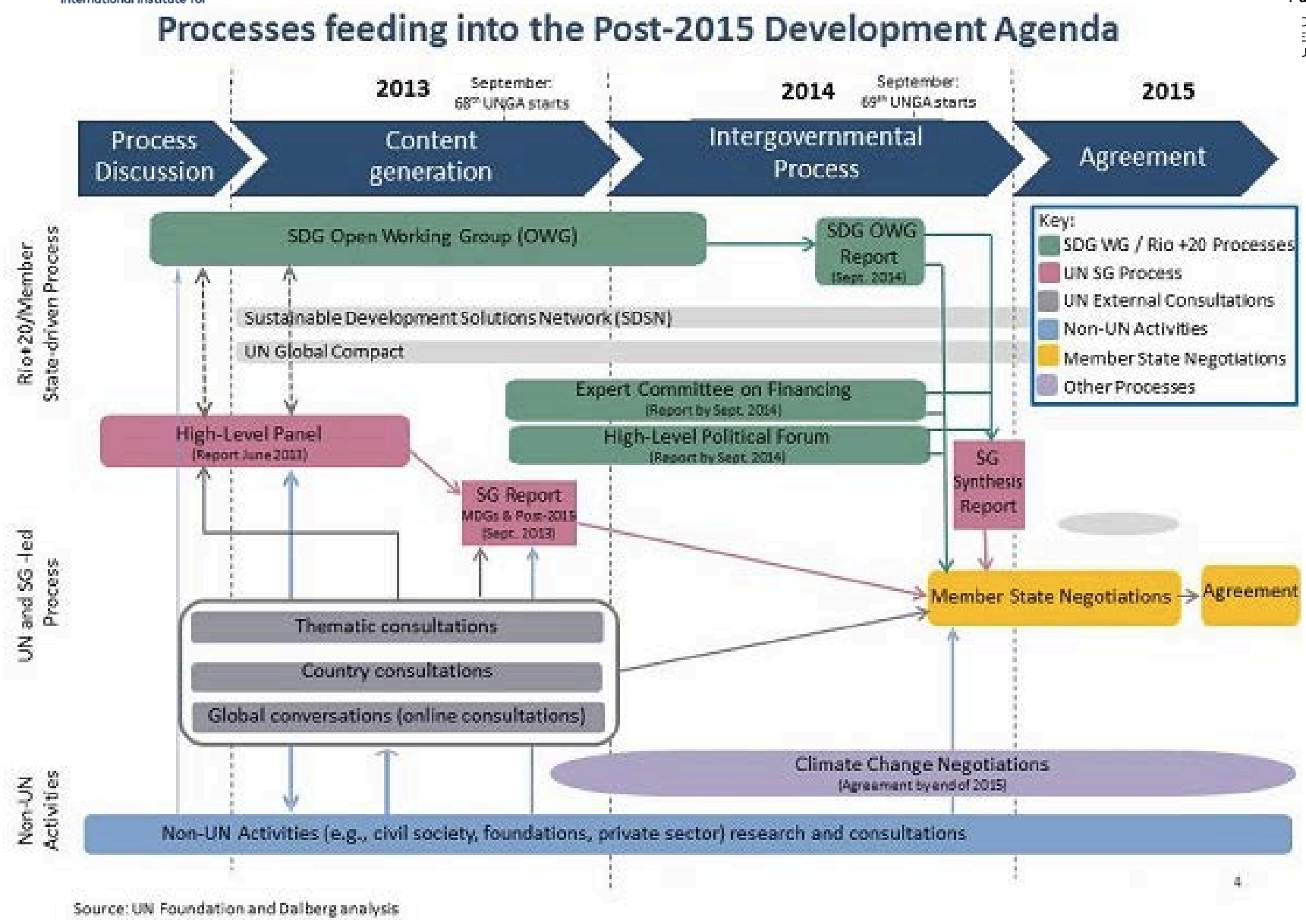

Source: http://post2015.unssc.org/mod/lightboxgallery/view.php?id=283

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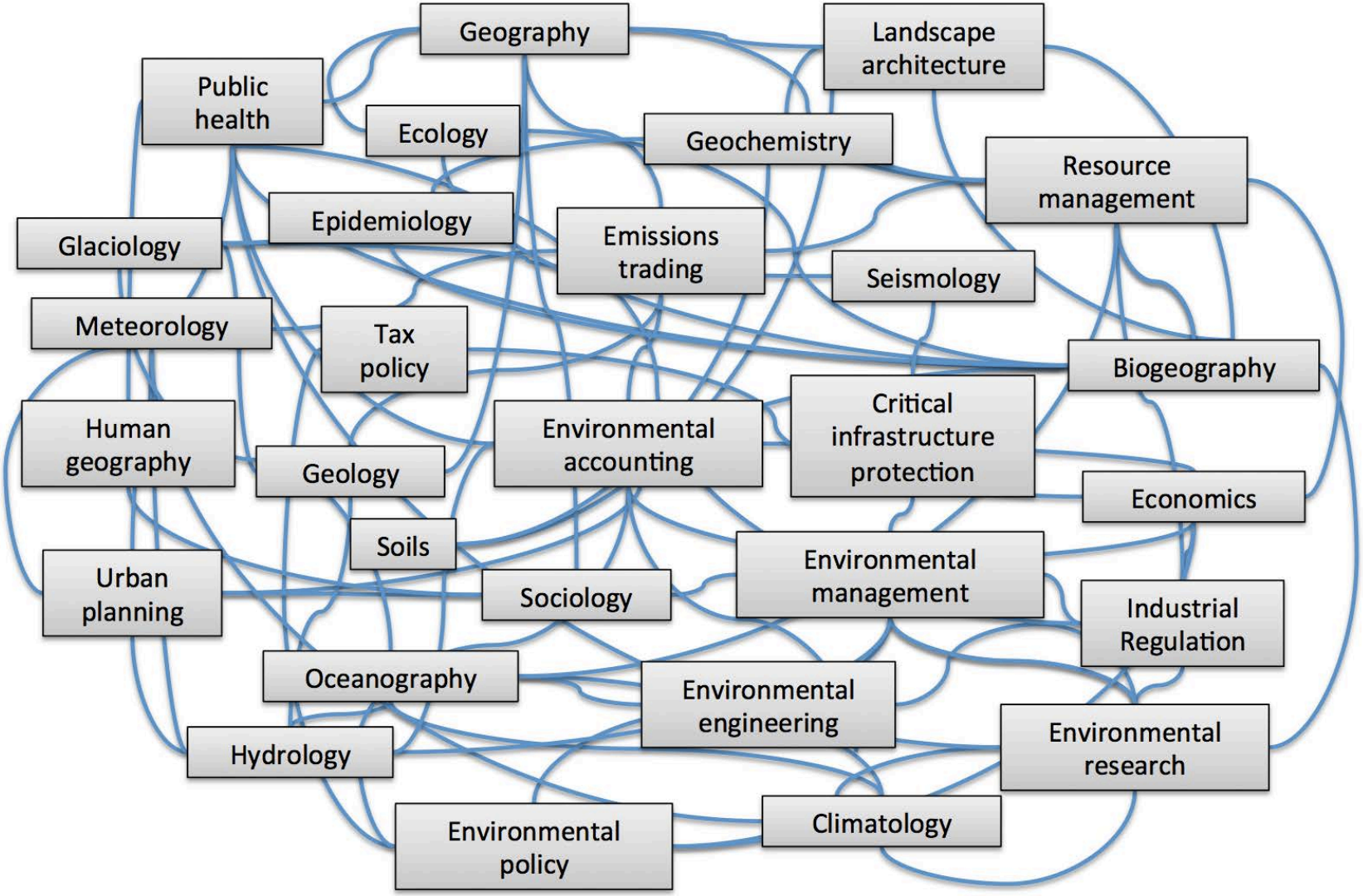
SUSTAINABLE DEVELOPMENT GOALS
1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE, JUSTICE AND STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS


Geography
Landscape architecture
Public health
Ecology
Geochemistry
Resource management
Epidemiology
Glaciology
Emissions trading
Seismology
Meteorology
Tax policy
Biogeography
Human geography
Environmental accounting
Critical infrastructure protection
Geology
Economics
Soils
Urban planning
Sociology
Environmental management
Industrial Regulation
Oceanography
Environmental engineering
Hydrology
Environmental research
Environmental policy
Climatology

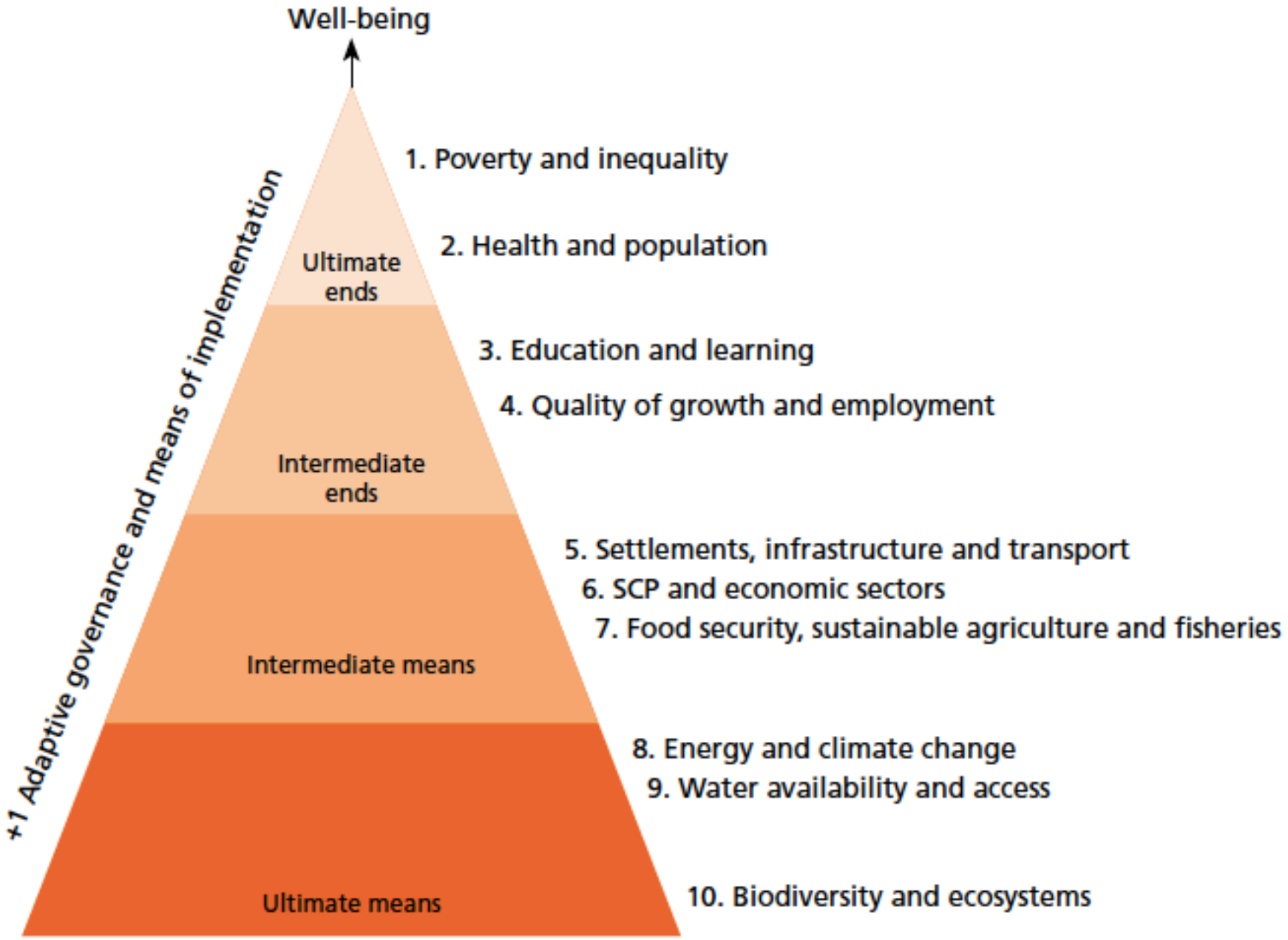
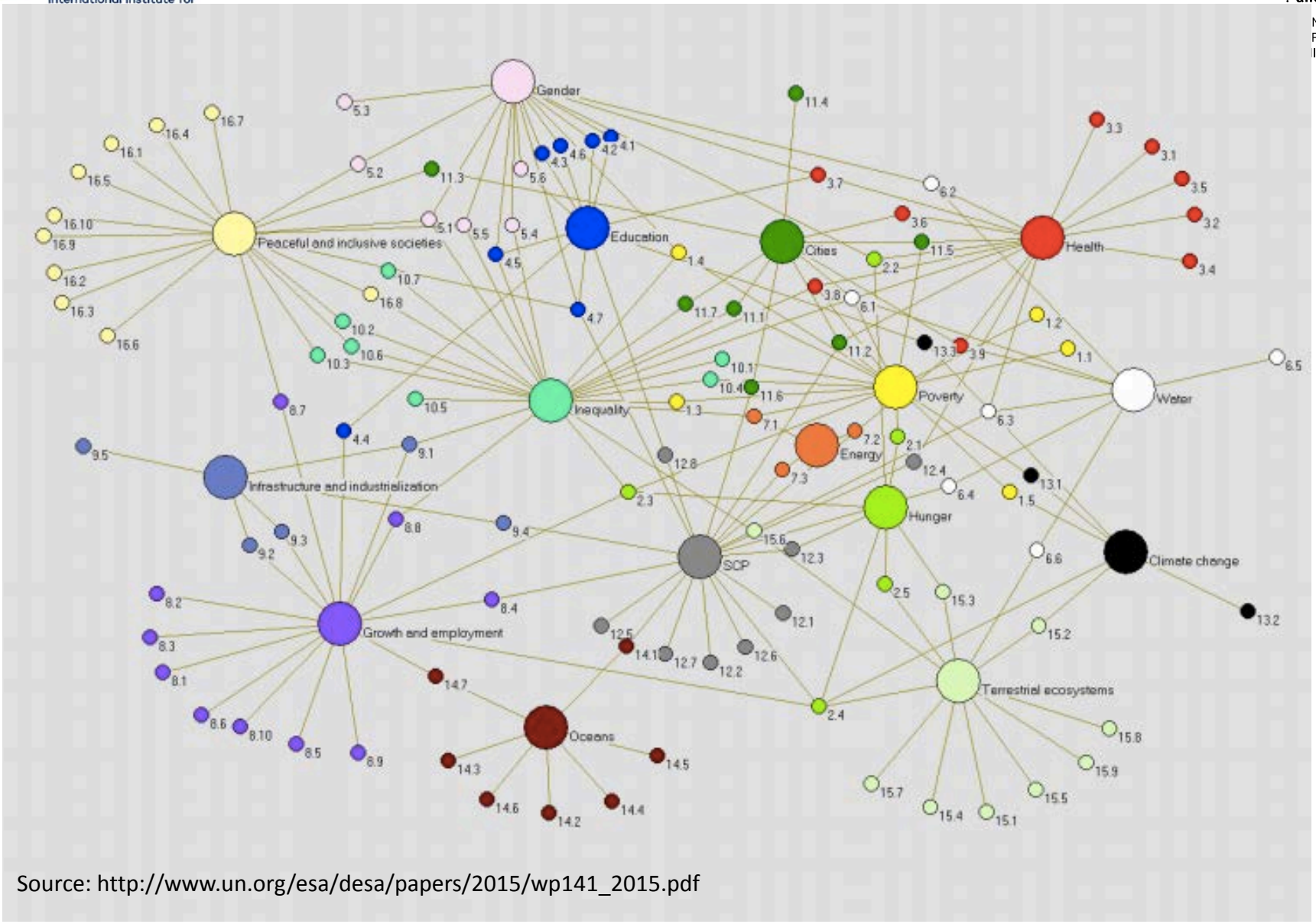
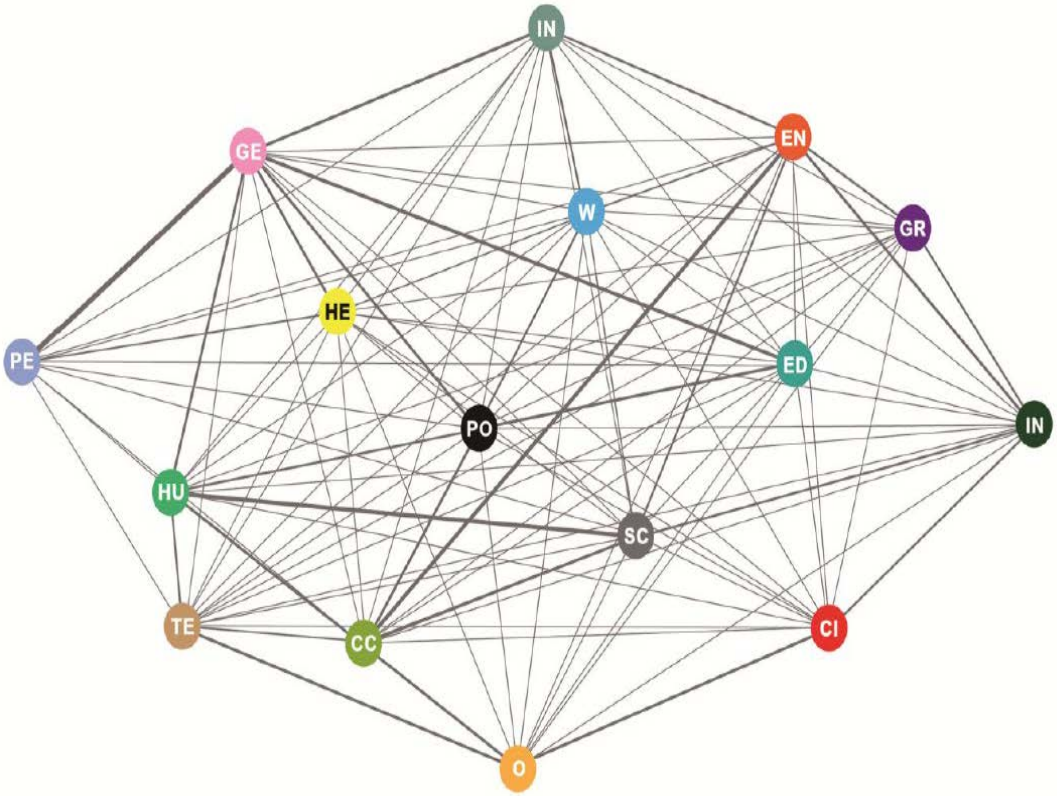


Figure 3.1: The alignment of the 10+1 Small Planet goals with the ultimate means-ends framework

Source: ASEF



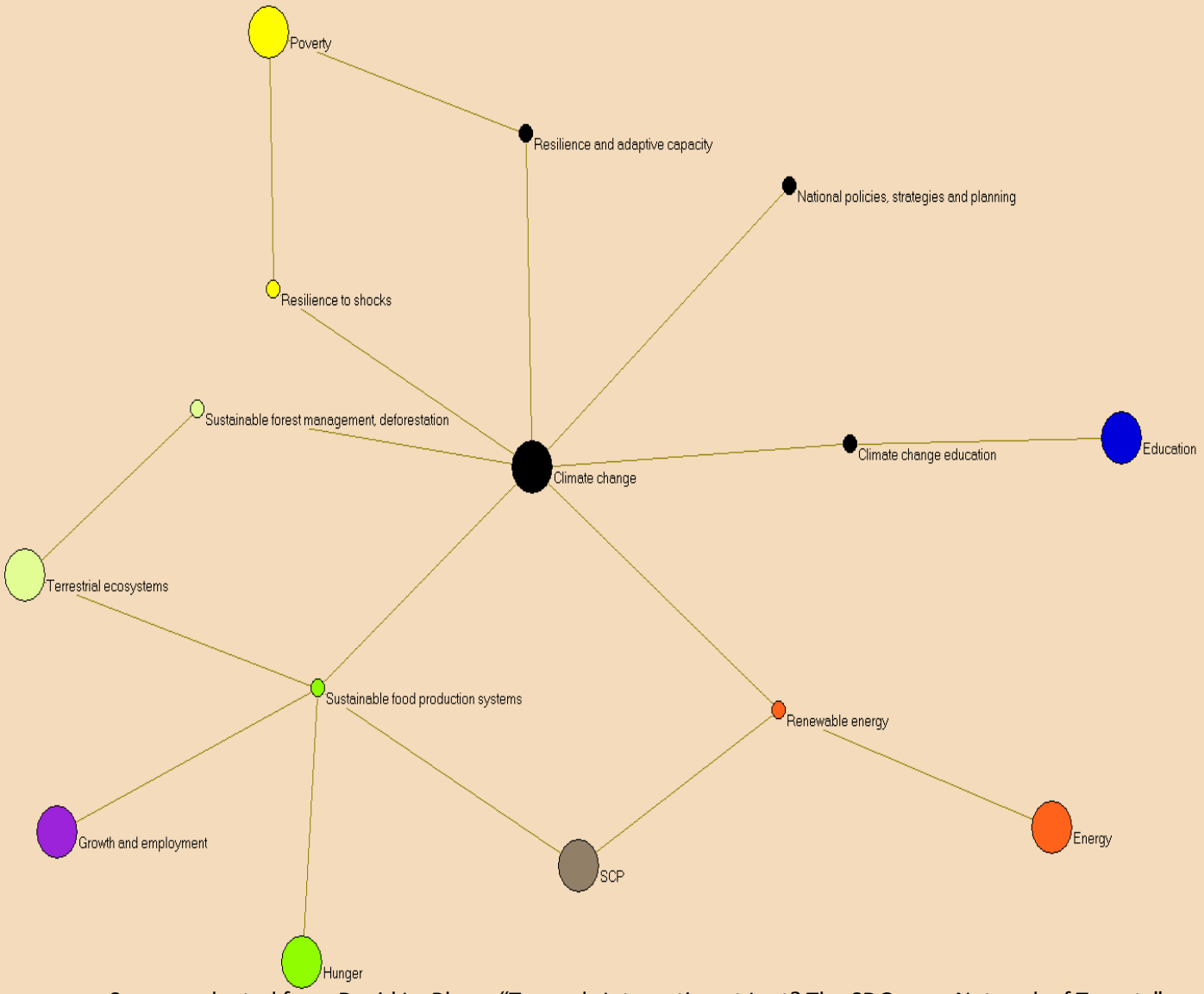
Source: http://www.un.org/esa/desa/papers/2015/wp141_2015.pdf



CI CITIES
CC CLIMATE CHANGE
ED EDUCATION
EN ENERGY
GE GENDER
GR GROWTH & EMPLOYMENT
HE HEALTH
HU HUNGER
IN INEQUALITY
IN INFRASTRUCTURE & INDUSTRY
O OCEANS
PE PEACEFUL & INCLUSIVE SOCIETIES
PO POVERTY
SC SCP
TE TERRESTRIAL ECOSYSTEMS
W WATER

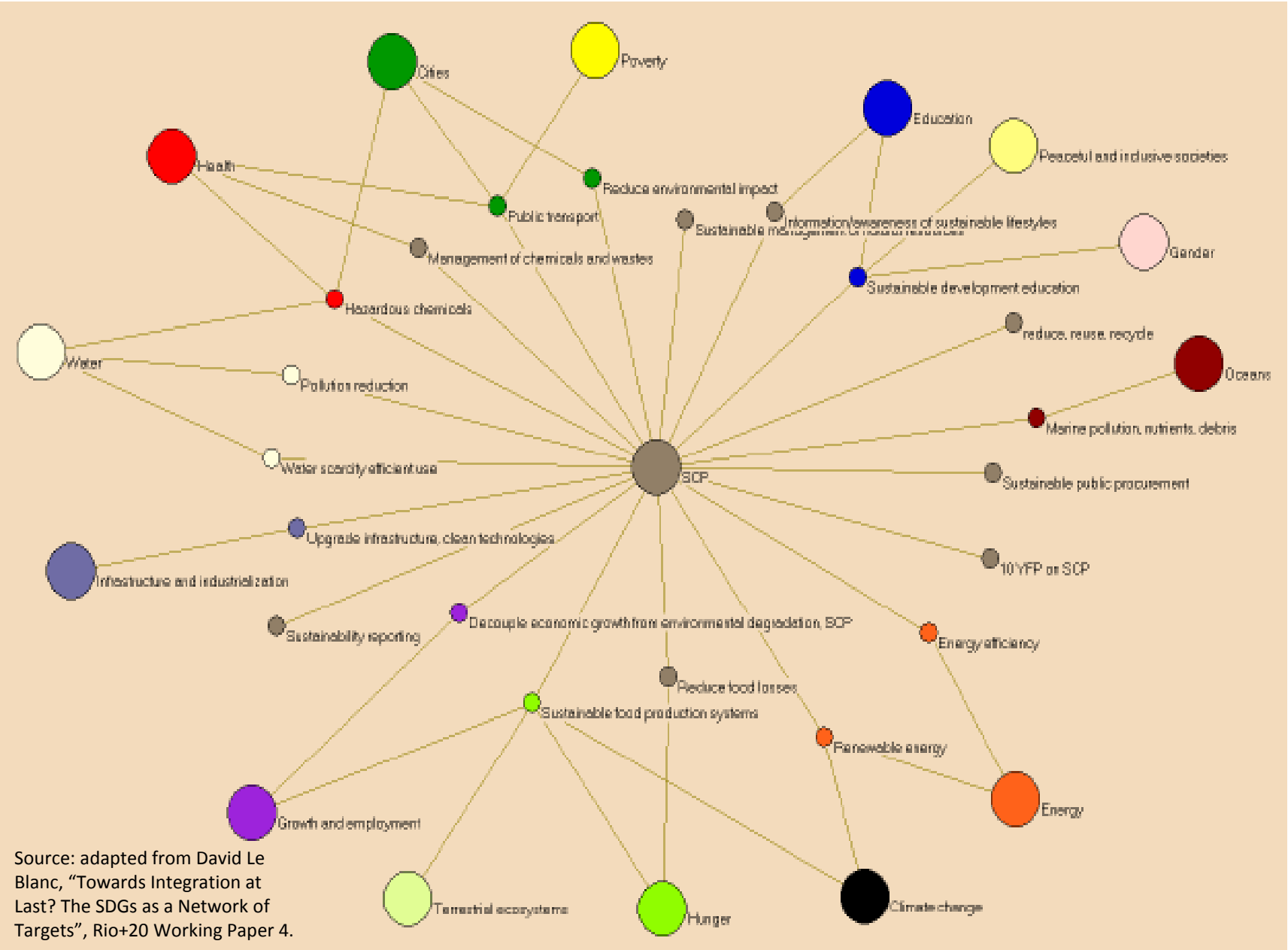
Source: elaborated in GSDR 2015 based on ICSU report.

Goal 13: Climate change links

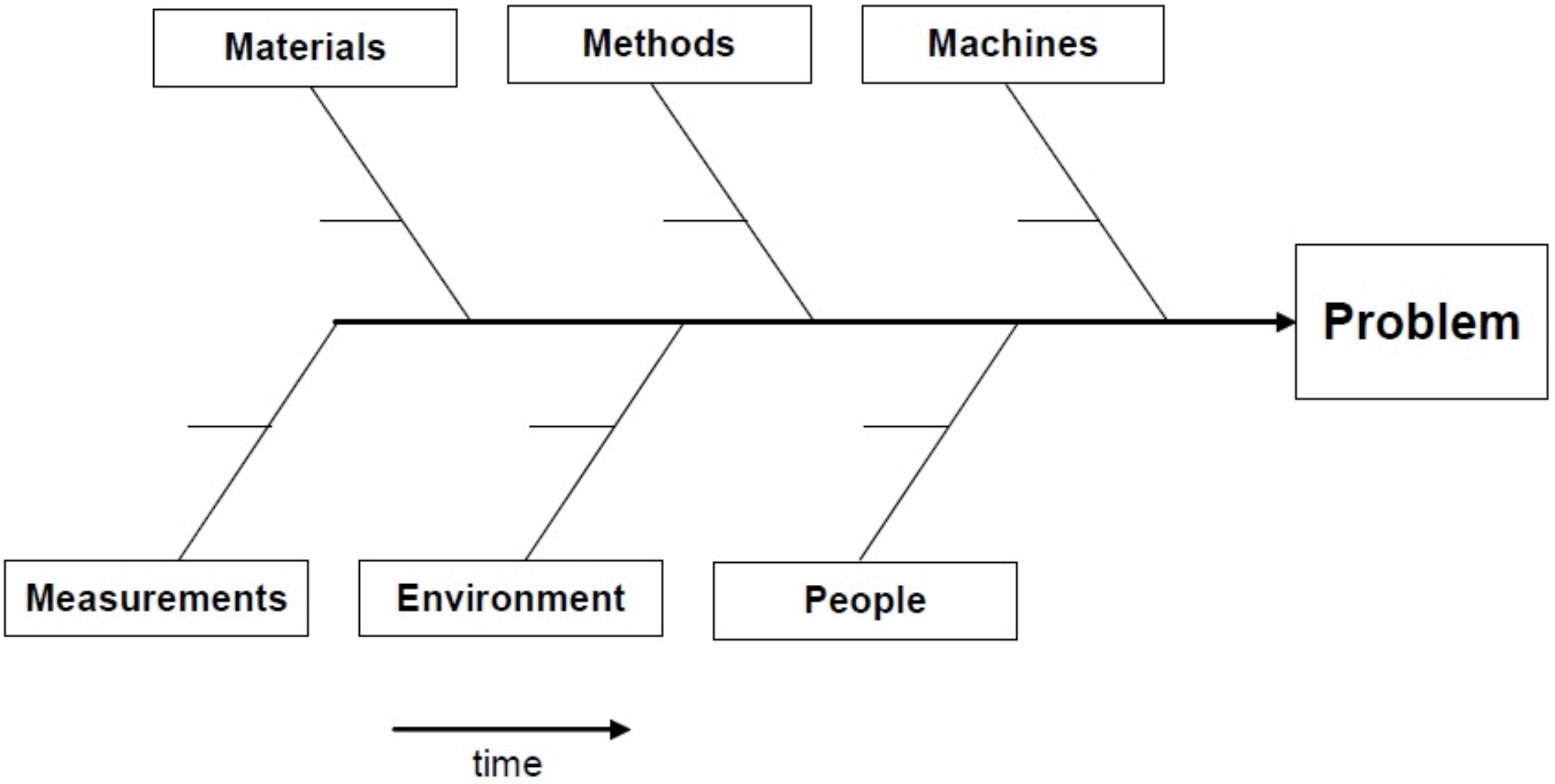


Source: adapted from David Le Blanc, "Towards Integration at Last? The SDGs as a Network of Targets", Rio+20 Working Paper 4.

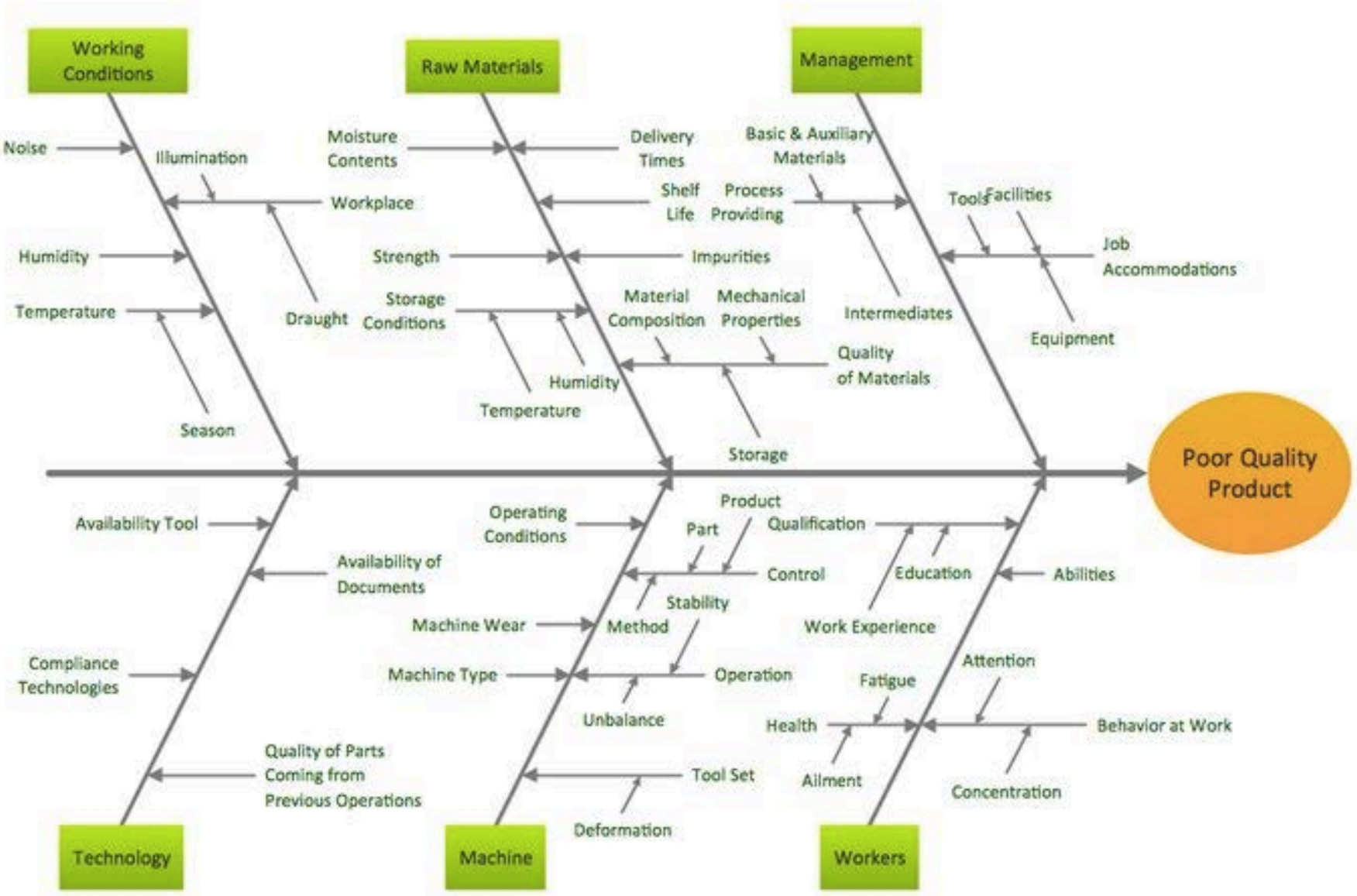
Goal 12: SCP links



Source: adapted from David Le Blanc, "Towards Integration at Last? The SDGs as a Network of Targets", Rio+20 Working Paper 4.


Materials
Methods
Machines
Problem
Measurements
Environment
People
time

Fishbone Diagram - Causes of Low-Quality Output



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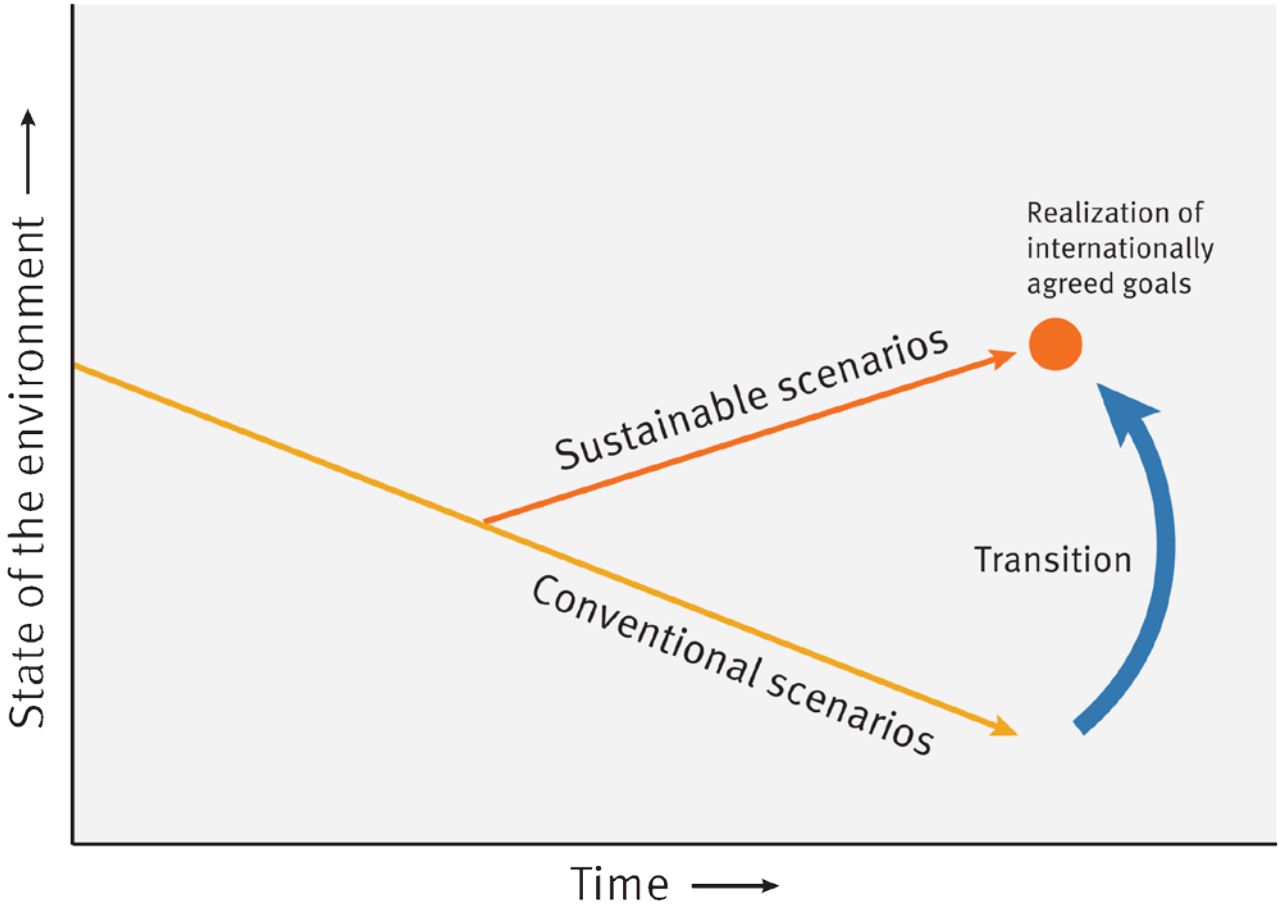
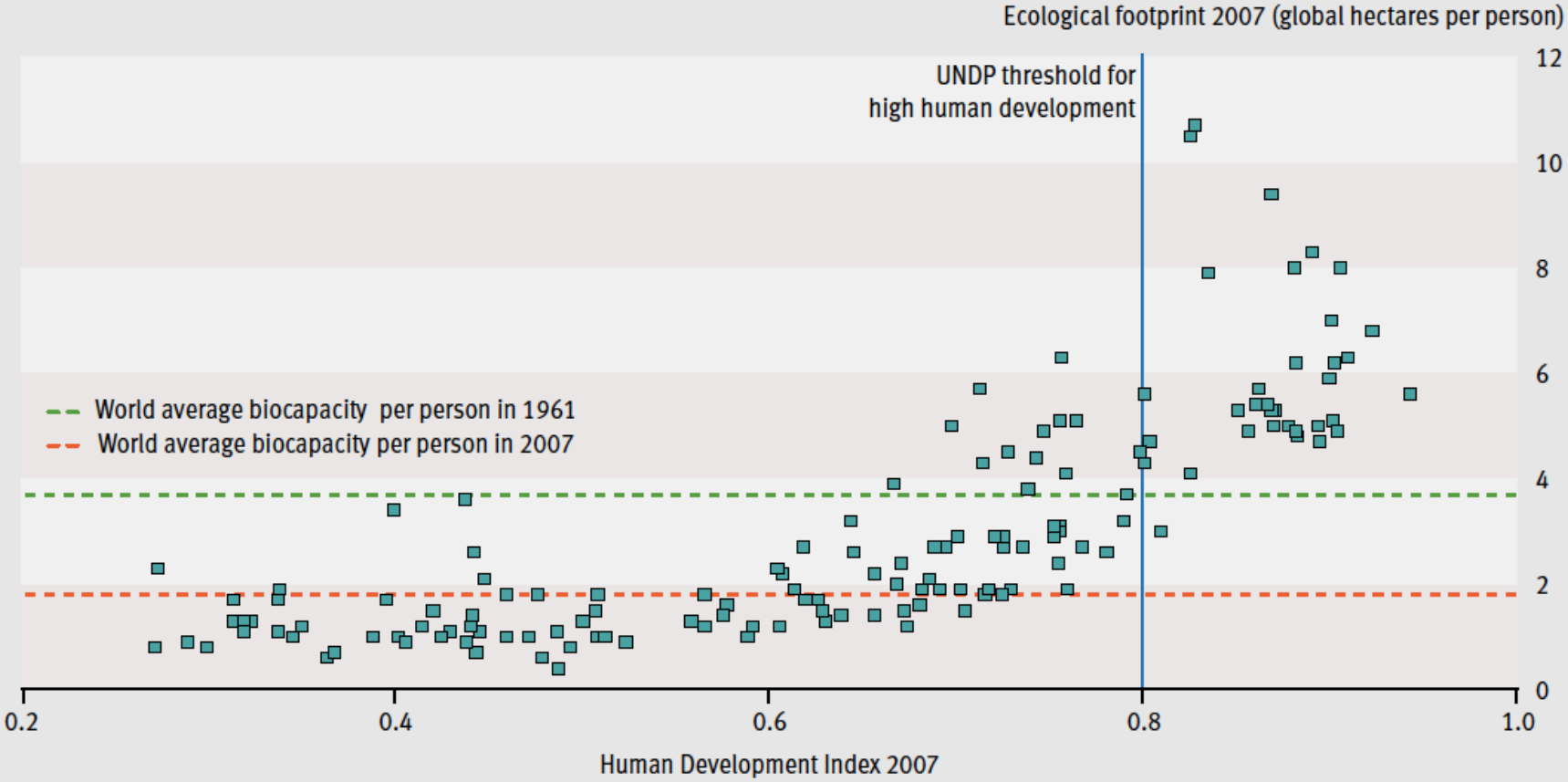


Conventional scenarios = Business as usual

Sustainable scenarios = Sustainability

Source: GEO-5

Figure 16.3 Twin challenge

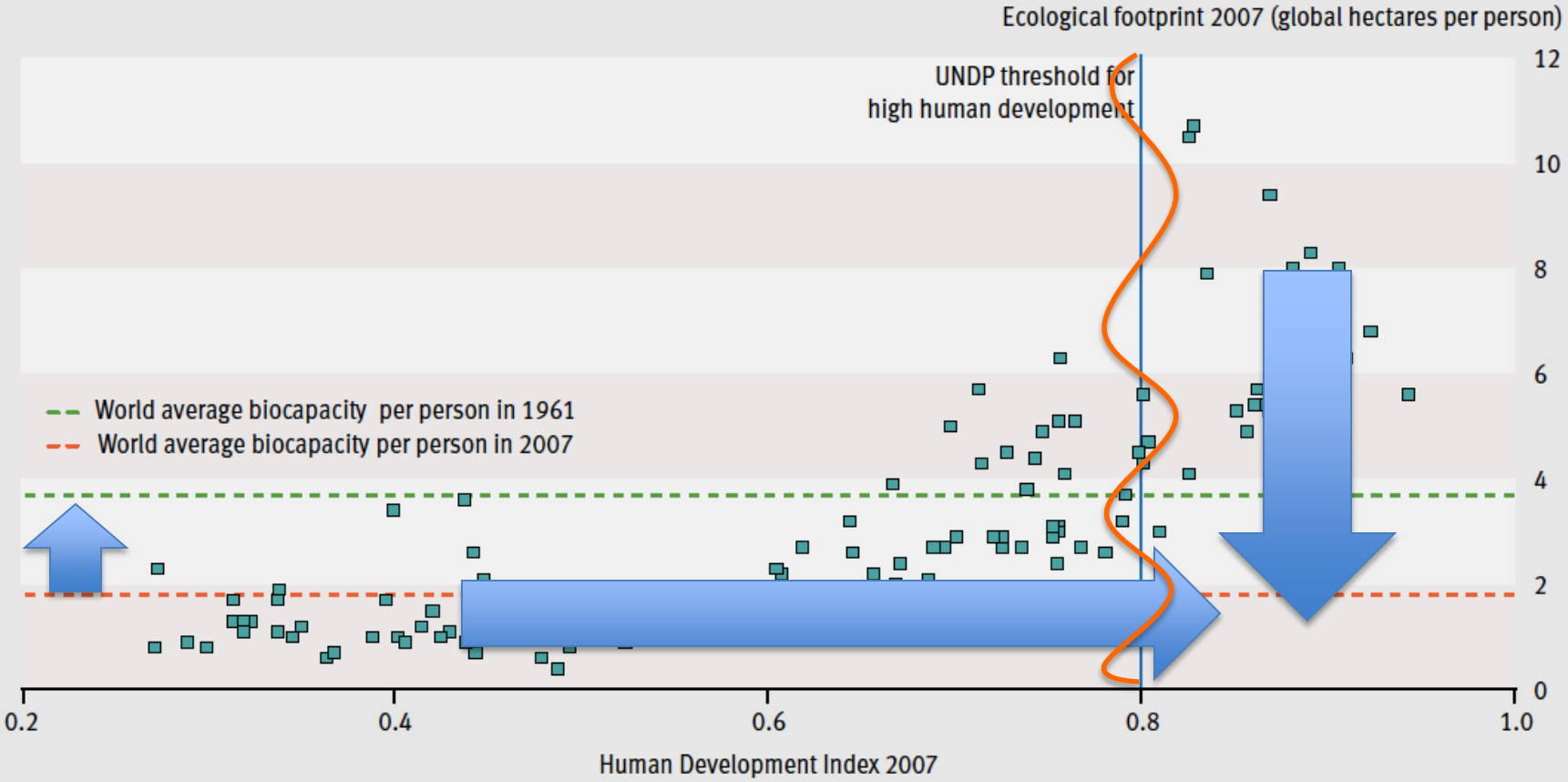


This figure plots countries on the basis of two indicators: the Human Development Index (HDI) and the ecological footprint per person. In order to achieve sustainability, countries must move towards the bottom right corner and as such decouple human development from natural resource use and environmental impacts (UNEP 2011c). The figure shows that worldwide, no country held that position in 2007.

Note: A global hectare is a hypothetical area equivalent to 1 hectare of globally averaged productivity.

Source: Global Footprint Network 2010; UNDP 2009

Figure 16.3 Twin challenge



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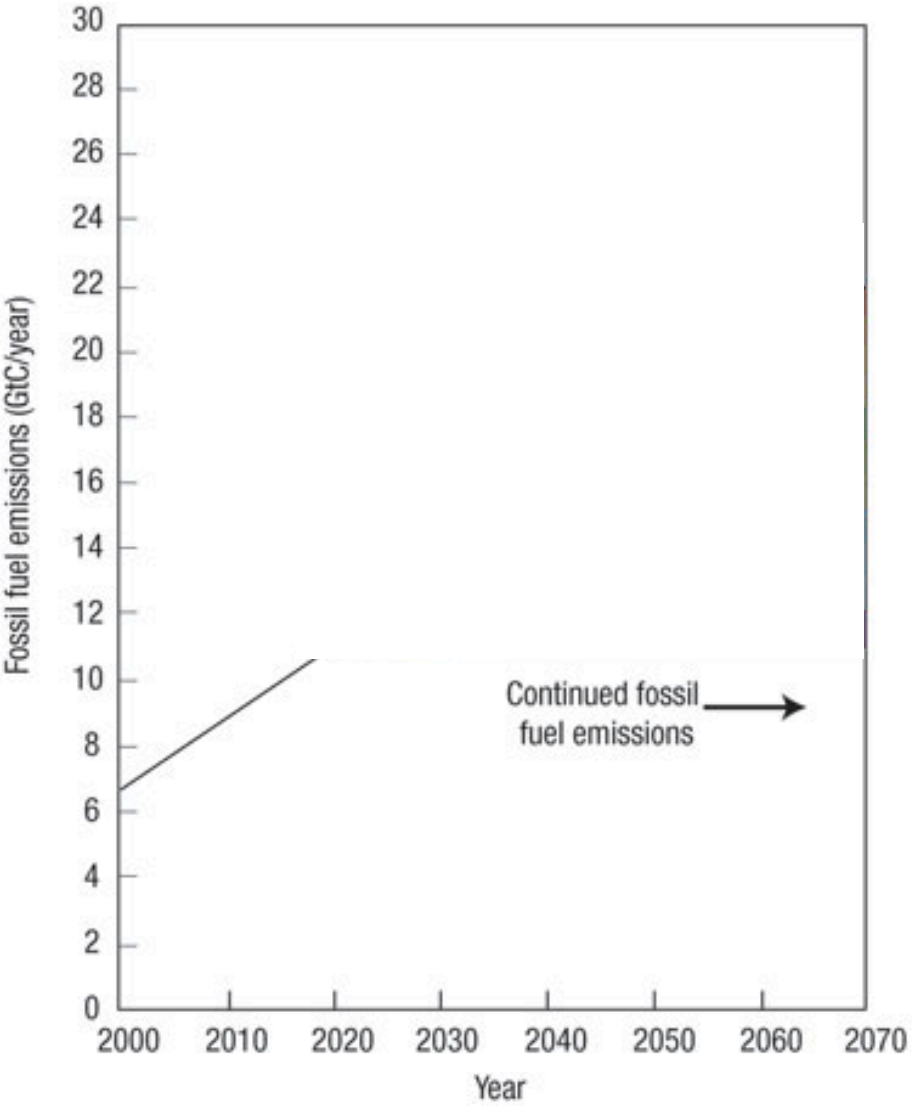
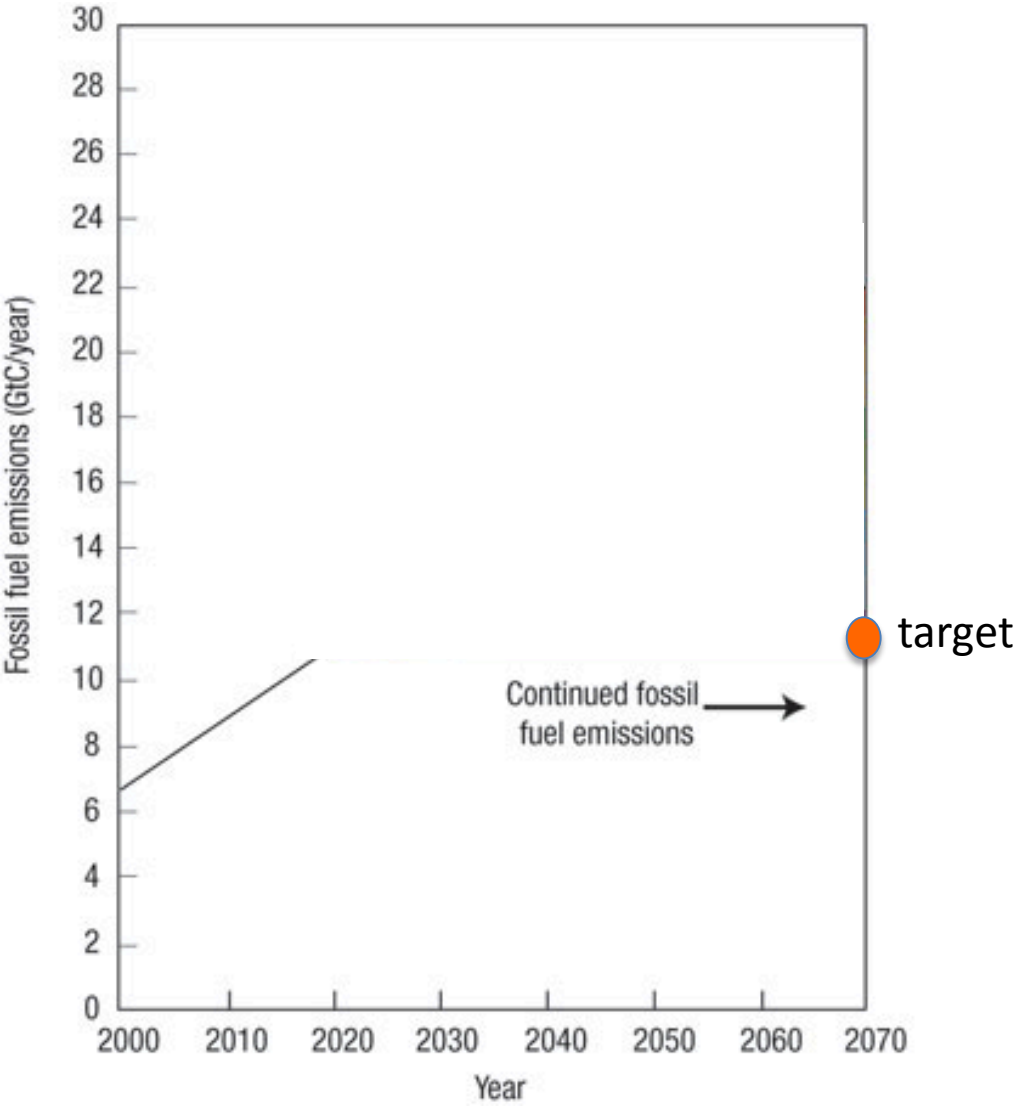


Source: http://www.nature.com/climate/2008/0807/fig_tab/climate.2008.59_F1.html



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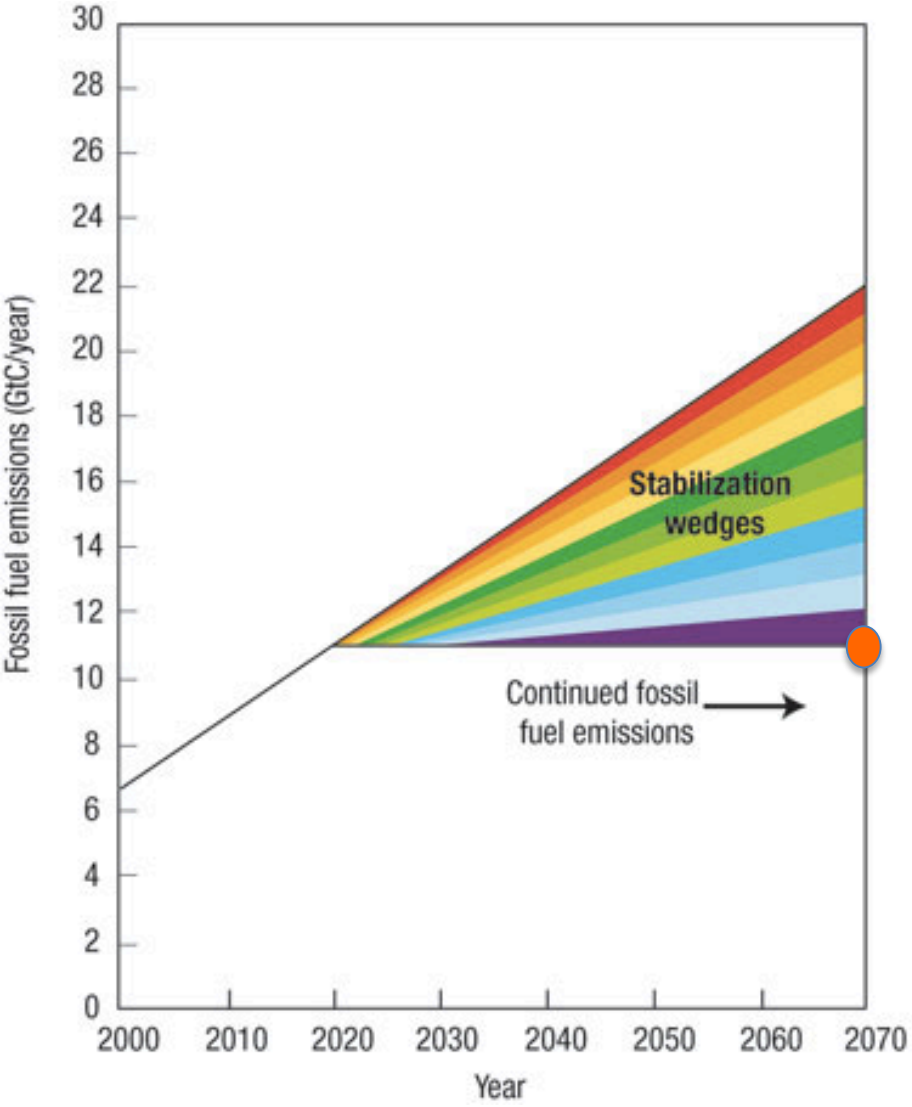

- Coal: 800 gigawatt-sized plants with all the carbon captured and permanently sequestered
- Nuclear: 700 new gigawatt-sized plants (plus replacement plants)
- Concentrated solar thermal electric: 1,600 gigawatts peak power
- Solar photovoltaics: 3,000 gigawatts peak power
- Efficient buildings: savings totalling 5 million gigawatt-hours
- Efficient industry: savings totalling 5 million gigawatt-hours, including co-generation and heat recovery
- Wind power: 1 million large wind turbines (2 megawatts peak power)
- Vehicle efficiency: all cars 60 miles per US gallon
- Wind for vehicles: 2,000 gigawatts wind, with most cars plug-in hybrid electric vehicles or pure electric vehicles
- Cellulosic biofuels: using up to one-sixth of the world's cropland
- Forestry: end all tropical deforestation

Source: http://www.nature.com/climate/2008/0807/fig_tab/climate.2008.59_F1.html

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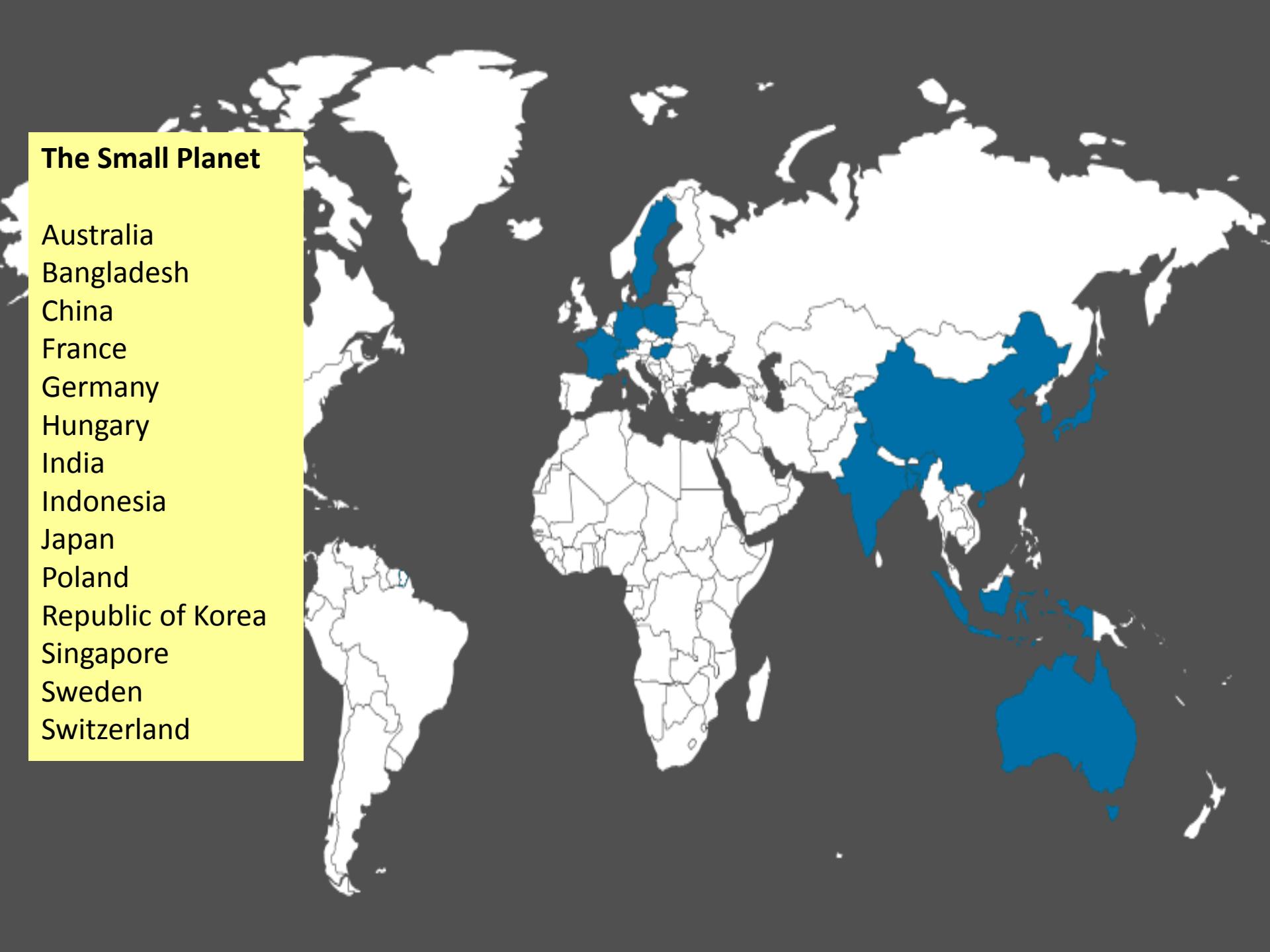

The Small Planet
Australia
Bangladesh
China
France
Germany
Hungary
India
Indonesia
Japan
Poland
Republic of Korea
Singapore
Sweden
Switzerland

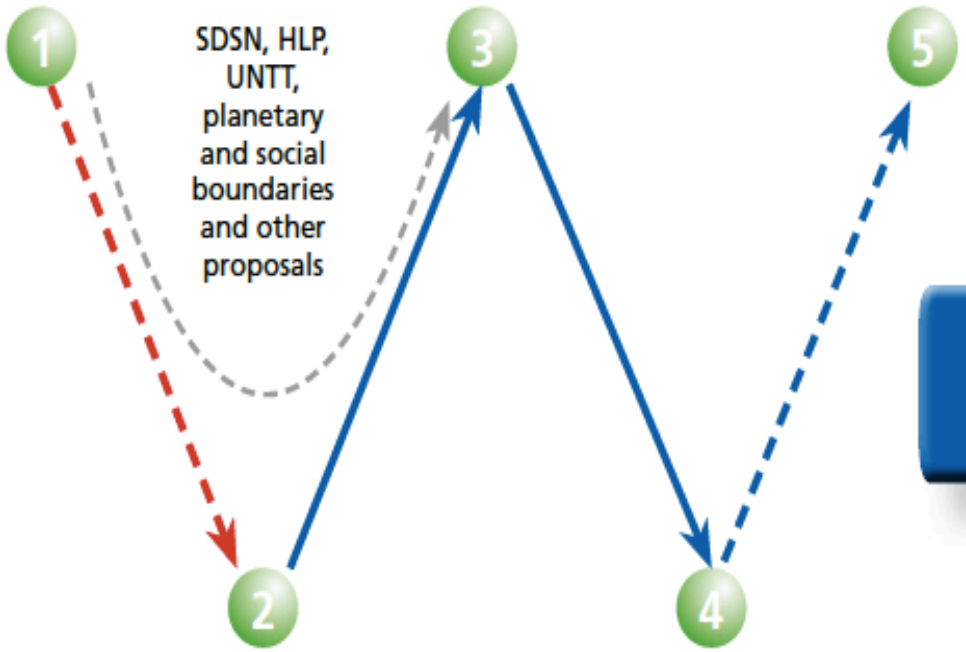
Global SDGs

Global SDGs relevant for country

Dashboard of goals, targets, indicators for global reporting and comparison

Global Level

National Level

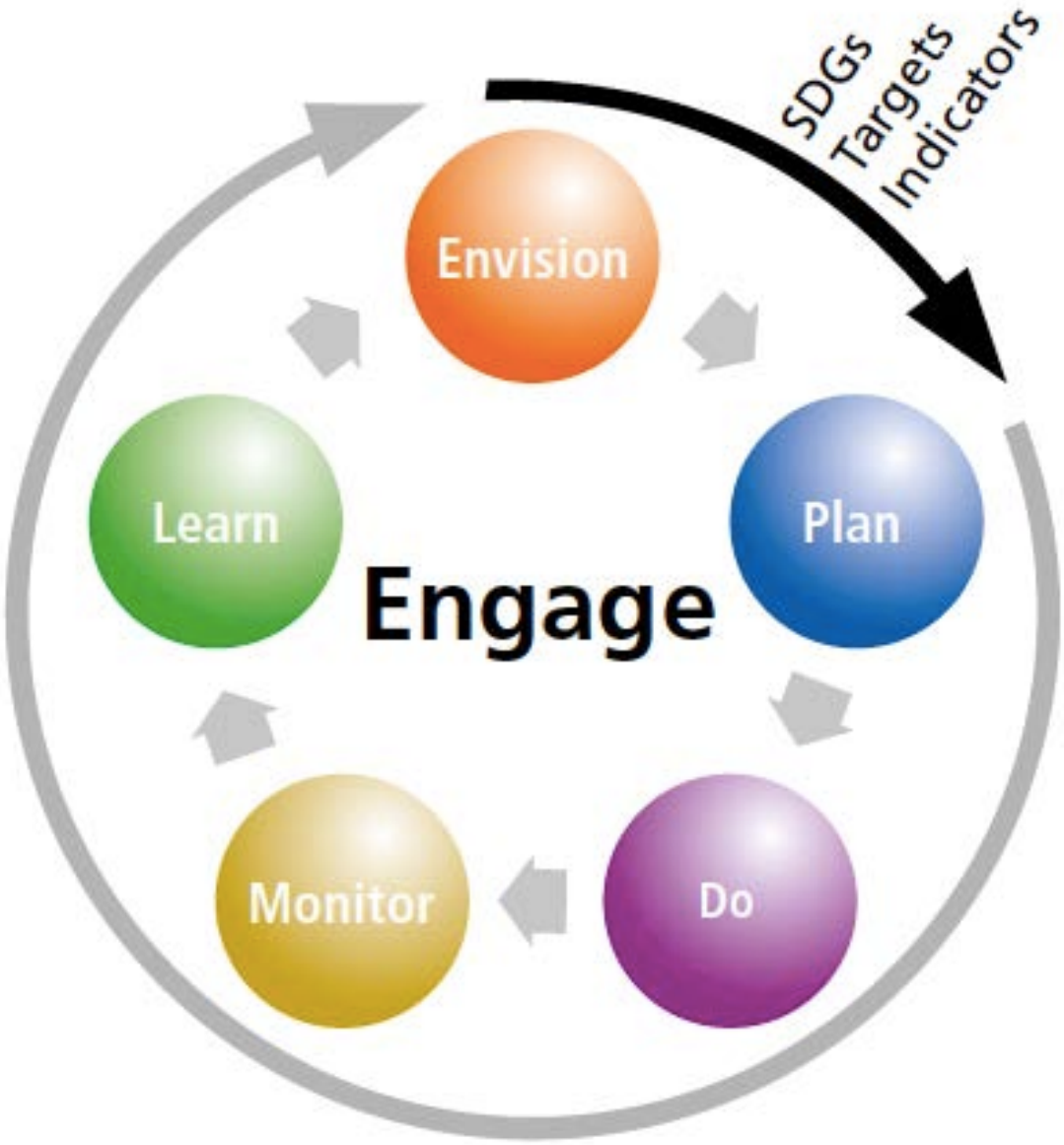


Process and conceptual insigths

Existing national priorities and goals

National SDGs, sub-goals, targets, indicators

Source: ASEF


SDGs
Targets
Indicators
Envision
Plan
Do
Monitor
Learn
Engage

Source: ASEF

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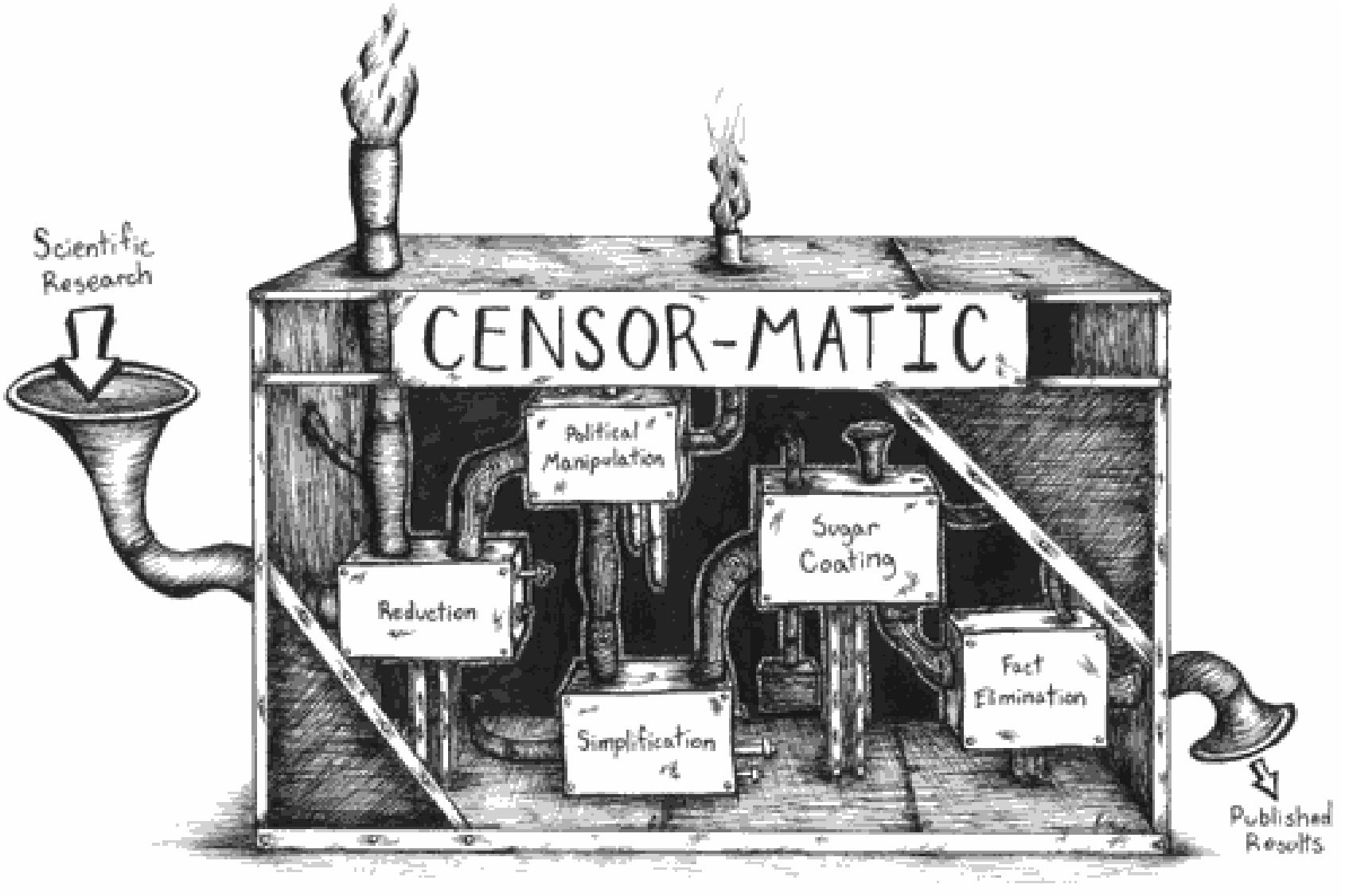
The facts are coming! The facts are coming!


Scientific Research
CENSOR-MATIC
Political Manipulation
Sugar Coating
Reduction
Fact Elimination
Simplification
Published Results

Links to reports:

- https://www.iisd.org/pdf/2009/brochure_bellagiostamp.pdf
- http://www.asef.org/images/stories/publications/ebooks/ASEF_Report_Sustainable-Development-Goals-Indicators_01.pdf
- http://asef.org/images/stories/publications/documents/ENVforum-Part_II-Measuring_Sustainability.pdf
- http://www.icsu.org/publications/reports-and-reviews/review-of-targets-for-the-sustainable-development-goals-the-science-perspective-2015/SDG-Report.pdf
- http://www.iisd.org/publications/global-goals-and-environment-progress-and-prospects