United Nations – MoST Joint Capacity Building Workshop on Science, Technology and Innovation for Sustainable Development Goals December 9-17, 2019

Guilin, China

Sustainable Development Goals (SDGs) and the Global Sustainable Development Report (GSDR) 2019*

Eun Mee Kim
Professor, Graduate School of International Studies
Director, Global Health Institute for Girls and Women
Ewha Womans University
Seoul, Republic of Korea
December 9, 2019

*Excerpts from Peter Messerli's presentation (2019.9) and GSDR 2019

I. Sustainable Development Goals (SDGs)

Agenda 2030 Leave No One Behind





II. Global Sustainable Development Report (GSDR) 2019

- 1. UN member states requested an independent and critical assessment of the implementation of the SDGs every four years.
- 2. The Mandate of the Global Sustainable Development Report.
 - Science-policy interface with evidence-based research
 - To reflect "the universal, indivisible and integrated nature of the 2030 Agenda for Sustainable Development" (GSDR 2019: xix)
- 3. UNSG appointed 15 scientists as the Independent Group of Sciences (IGS) for the first *Global Sustainable Development Report 2019* (December 31, 2016 September 24, 2019).

1. Independent Group of Scientists (IGS)

Co-Chairs



Endah
Murniningtyas
(Indonesia;
Agriculture
Economics,
Environment,
Indonesia
Development)



Peter Messerli (Switzerland; Geography, Southeast Asia, African Ecosystem)



Wolfgang Lutz (Austria; Demography, Human Capital Population & Environment)



Jean-Pascal van Ypersele (Belgium; Physics, climate Change, Energy & Climate, Climate Change)



Parfait
Eloundou-Enyegue
(Cameroon;
Sociology,
Education,
Inequality)



Katherine Richardson (Denmark; Biology, Bio-Diversity, Marine Biology)



Eeva Furman (Finland; Environmental Policy, Bio-Diversity, Eco-System)



Jean-Paul Moatti (France; Economics, Health Economics, HIV/AIDS)



Ernest Foli (Ghana; Tropical Forest Ecology, Biostatistics)



David Smith (Jamaica; Disaster Management, Climate Change)



Muhammad Saidam (Jordan; Climate Change, Agriculture, Water and Sanitation System)



Jurgis Staniskis (Lithuania; Environmental Engineering, Environment Economics)



Gonzalo Hernández Licona (Mexico; Economics, Poverty, Economic Development, Social Development)



Eun Mee Kim
(Republic of Korea;
Sociology, East Asian
Economic Development,
International
Development
Cooperation)



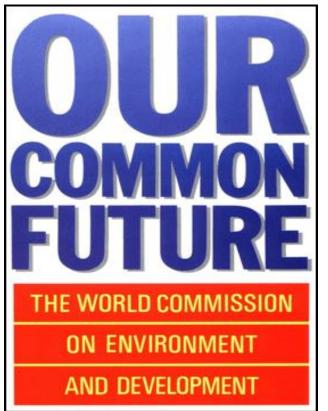
Amanda Glassman (US; Maternal and Child Health, Global Public Health, Social Protection)





2. The Brundtland Report (*Our Common Future*), 1987

The Brundtland Commission Report/ Former Prime of Norway, Gro Harlem Brundtland



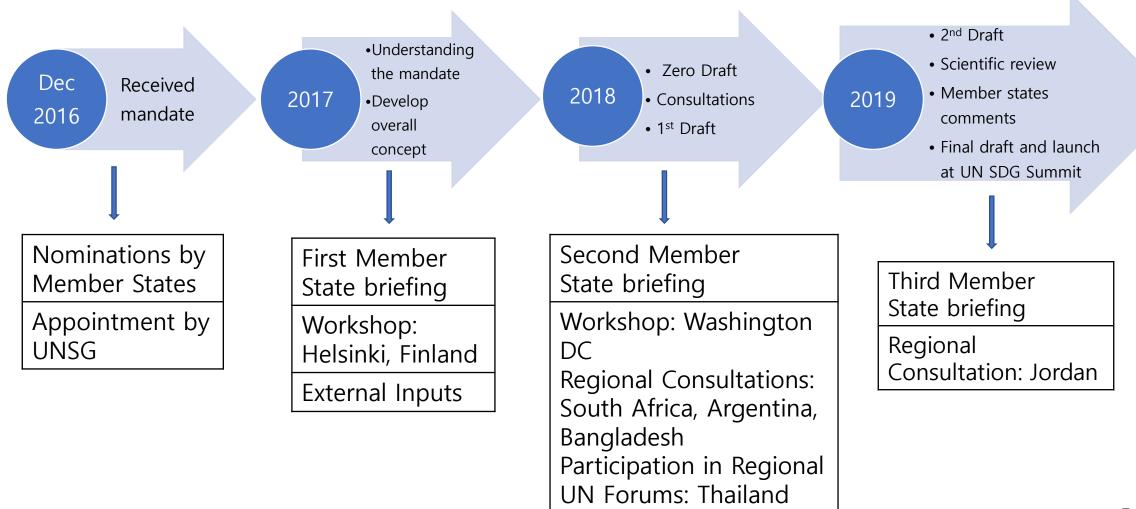
UN World Commission on Environment and Development (WCED): 1987

- Environment became a major global issue at the Stockholm Conference
- Environment & Development as One Global Problem → Presented as a major global political problem to be solved by all
- Poverty eradication, gender equality, redistribution of wealth in order to enhance human development are also important for the sustainability of the environment; Need to limit economic growth in order to save the environment for developed and developing countries
- Research, analysis, and recommendations for Solutions for Sustainable Development



3. Process of GSDR 2019

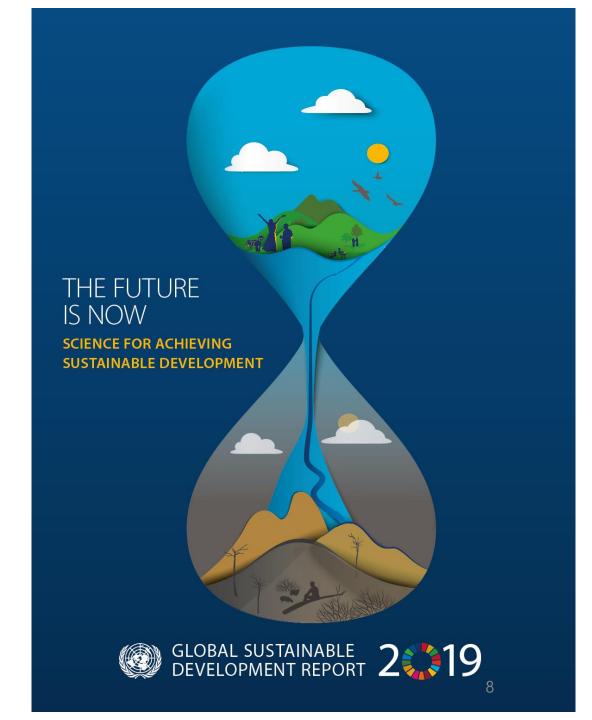
Face-to-face meetings in New York and continuous consultations facilitated by UN DESA. Support by Task Team of six UN Agencies: UN DESA, UNEP, UNCTAD, UNDP, UNESCO, and World Bank.



4. GSDR 2019

Global Sustainable Development Report 2019

The Future is Now:
Science for Achieving Sustainable
Development







UN Secretary General and IGS September 10, 2019

UN Sustainable Development Summit GSDR Fireside Chat September 24, 2019



(1) A decisive decade ahead

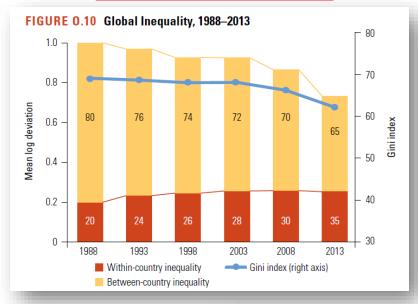
Sounding the alarm bell:
The need to scale-up and accelerate implementation

Business-as-usual approaches

GOAL	L	WITHIN 5%	5-10%	>10%	NEGATIVE LONG-TERM TREND
İ ¥ İ İİ	Goal 1		1.1. Eradicating extreme poverty	1.3. Social protection for all	
<u>""</u>	Goal 2		2.1. Ending hunger (undernourishment)	2.2. Ending malnutrition (stunting) 2.5. Maintaining genetic diversity 2.a. Investment in agriculture*	2.2. Ending malnutrition (o verweight)
-W- (Goal 3	3.2. Under 5 mortality 3.2. Neonatal mortality		3.1. Maternal mortality 3.4. Premature deaths from non-communicable diseases	
	Goal 4	4.1 Enrolment in primary education	4.6 Literacy among youth and adults	4.2. Early childhood development 4.1 Enrolment in secondary education 4.3 Enrolment in tertiary education	
@ **	Goal 5			5.5. Women political participation	
Q (Goal 6		6.2. Access to safe sanitation (open defecation practices)	6.1. Access to safely managed drinking water 6.2. Access to safely managed sanitation services	
*	Goal 7		7.1. Access to electricity	7.2. Share of renewable energy* 7.3. Energy intensity	
	Goal 8			8.7. Use of child labour	
	Goal 9		9.5. Enhancing scientific research (R&D expenditure)	9.5. Enhancing scientific research (number of researchers)	
	Goal 10			10.c. Remittance costs	Inequality in income**
	Goal 11			11.1. Urban population living in slums*	
CO (Goal 12				12.2. Absolute material footprint, and DMC*
	Goal 13				Global GHG emissions relative to Paris targets**
	Goal 14				14.1. Continued deterioration of coastal waters* 14.4. Overfishing*
<u></u>	Goal 15				15.5. Biodiversity loss* 15.7. Wildlife poaching and trafficking*
	Goal 16	ad on most recently available data		16.9 universal birth registration *	10

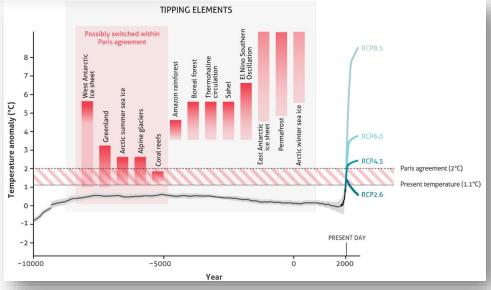
Understanding the systemic challenges

Rising inequalities

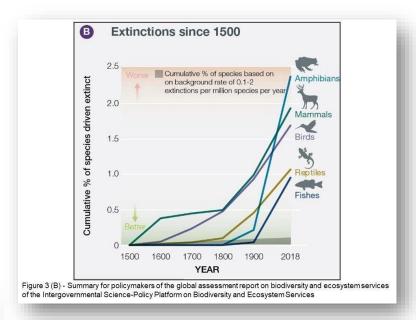


World Bank, 2016

Climate change



Biodiversity loss



IPBES, 2019

Ecological footprint



(2) Knowledge-based transformations

Insight (a): From boxes to arrows – a systems perspective

Moving forward:

- address trade-offs
- harness co-benefits
- turn vicious- into virtuous cycles

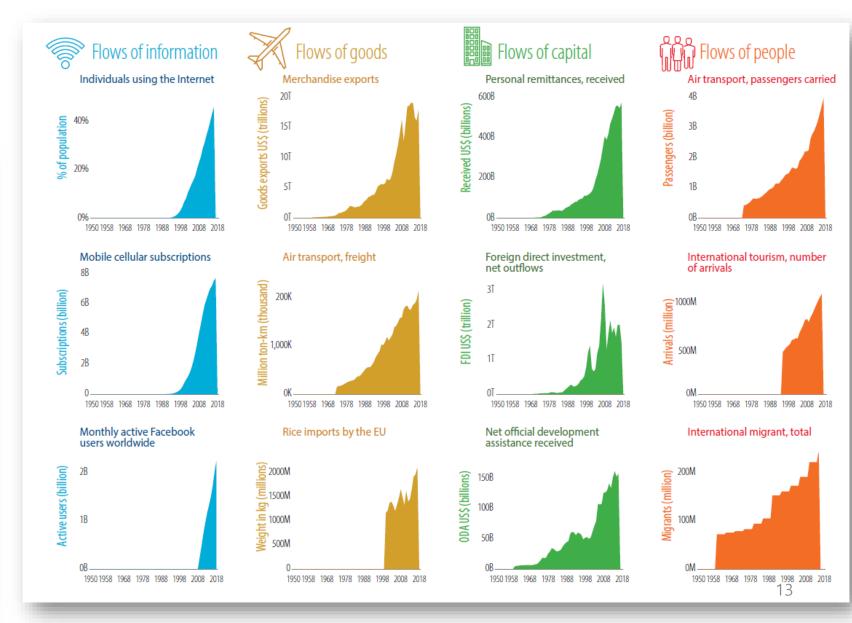






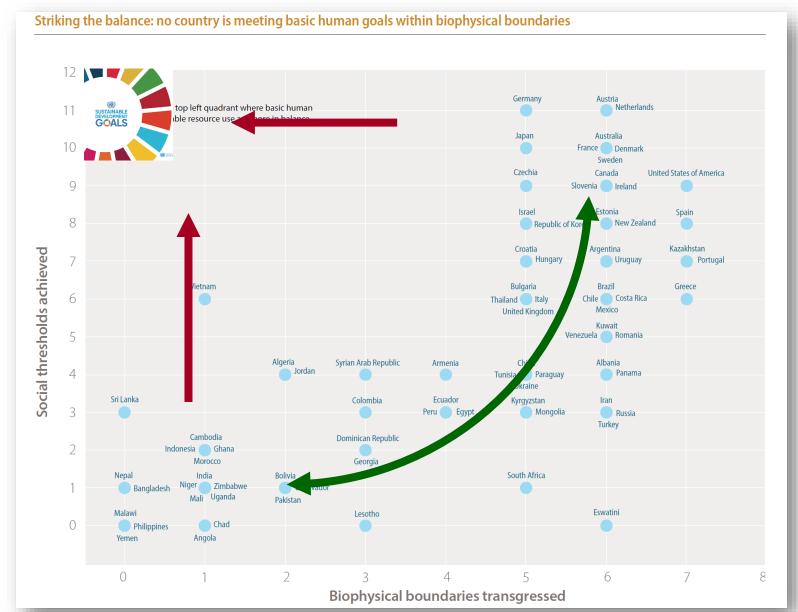
Insight (b): Levers for change in a hyper-connected world







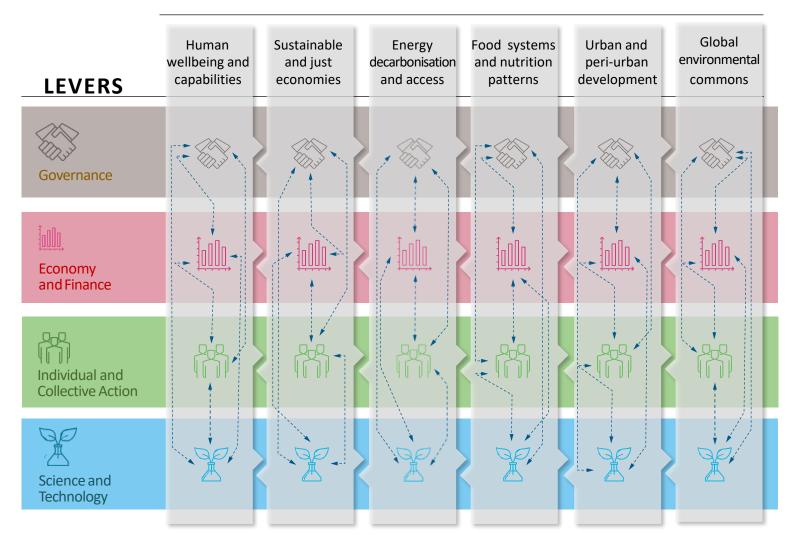
Insight (c): Context and universality matter!





Context-specific pathways to transformation for sustainability

ENTRY POINTS FOR TRANSFORMATION

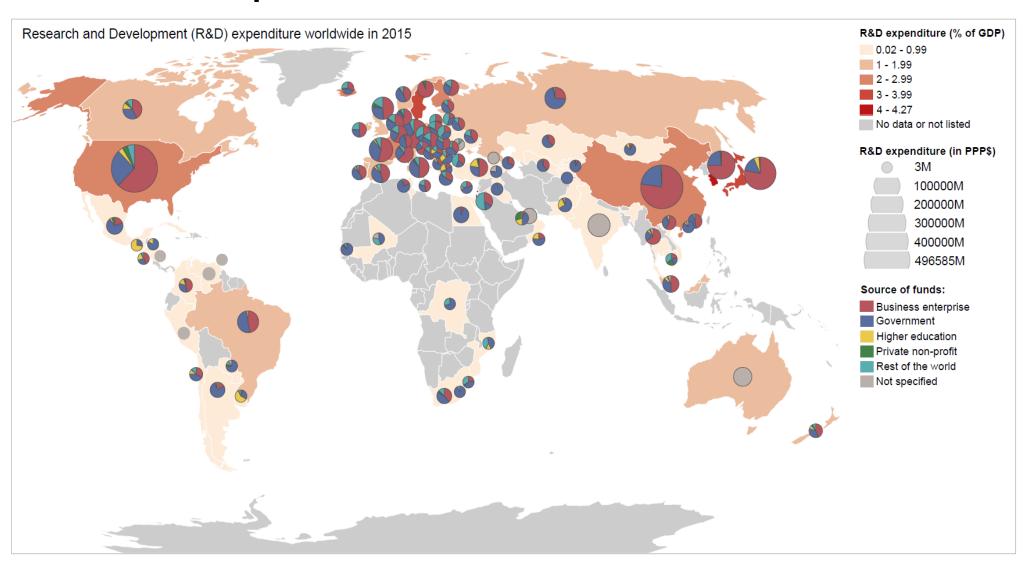


Each entry point:

- ✓ Impediments
- ✓ Levers
- ✓ Integrated and context-specific pathways
- ✓ Call to Action



R&D Gap in the Global North and the Global South: Implications for ODA & GPEDC for SDGs



(5) Summary of Key Points of GSDR 2019

1) Independent and Critical Assessment of SDGs Implementation

Meta Analysis of scientific research publications, UN Reports, Country Reports, etc.

2) Evidence-based Research for SDGs

- Reflect the universal, indivisible and integrated nature of the 2030 Agenda
- Interlinkages and correlation among the 17 goals: Trade-offs and co-benefits
- Policy recommendations to be based on scientific evidence including indigenous knowledge

3) Policy Recommendations

- Message to the UN and Member States to implement SDGs: STRONG POLITICAL WILL → WE NEED TO MAKE HARD CHOICES and MAKE SDGs TOP PRIORITY!
- ALARM BELL: We only have 10 years left until 2030
- BUT, WE CAN DO IT: 6 ENTRY POINTS FOR TRANSFORMATION and 4 LEVERS



III. Concluding Remarks



- (1) Use science and scientific evidence to guide and inform policy for SDGs (GSDR 2019)
- (2) Interlinkages among SDGs: Address trade-offs, and harness co-benefits
- (3) 6 entry points for transformation and 4 levers for SDGs
- (4) Take advantage of existing science and technology including indigenous knowledge to achieve the SDGs

➤ Gap in STI between the Global North and the Global South:

- (1) Large gap in research and development (R&D): Large investments in R&D and innovation in the Global North, largely from the private sector
- (2) Disaggregated data to measure inequalities and to find workable solutions are needed in the Global South
- (3) Good higher-education is needed in the Global South
- (4) Use Official Development Assistance (ODA) and South-South Cooperation (SSC) to assist developing countries to reduce the gap in STI
- ➤ We must work together, hand in hand between developed and developing countries as partners for SDGs!

Thank you very much!

