

Design Thinking for SDGs

Session 5:
Call to Action to Build Back Better

Tuesday August 17, 2021

Prof Semee Yoon



Today's agenda

- 1) Setting the tone for SDG12
- 2) DT Reminder: “Leaving no one behind for SDG12”

25 min lecture

15 min questions



Human Development Report 2019



Beyond income, beyond averages, beyond today:
Inequalities in human development in the 21st century



Human Development Report 2019



Beyond income, beyond averages, beyond today:
Inequalities in human development in the 21st century



PRESS RELEASE

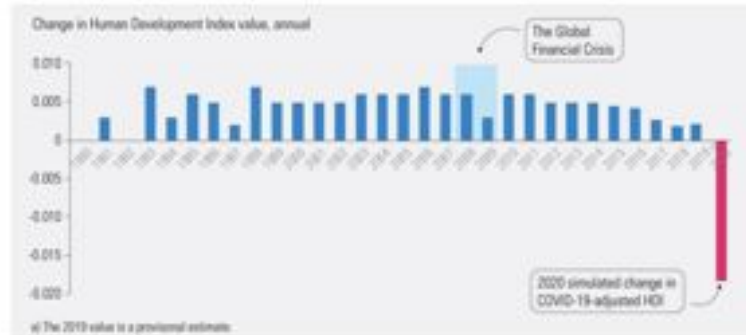


COVID-19: Human development on course to decline this year for the first time since 1990

Concerted action with a focus on equity could still limit the impacts of this unprecedented crisis: closing the digital divide would reduce by more than two-thirds the number of children currently not learning because of school closures.

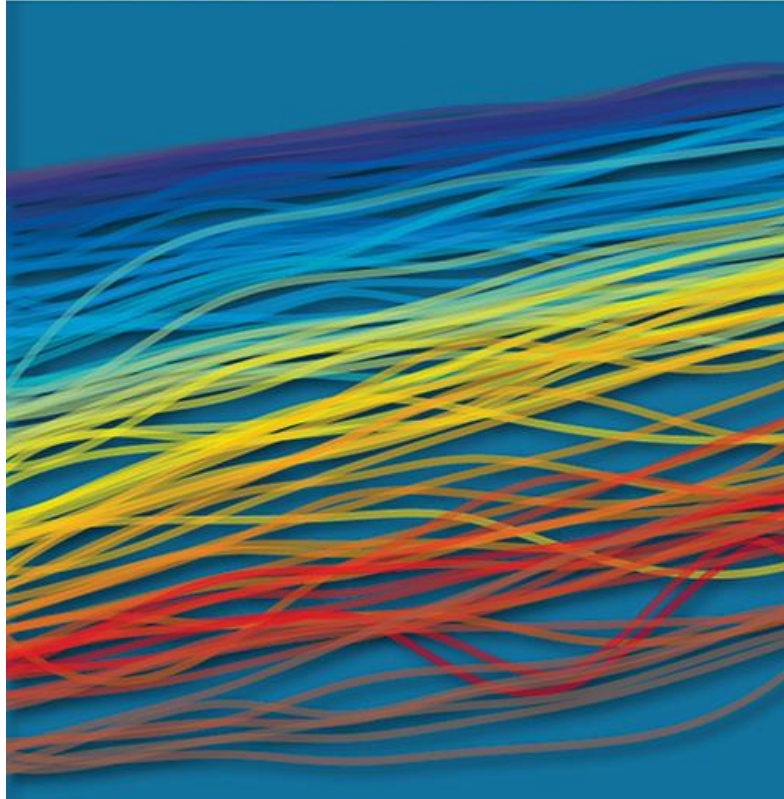
New York, 20 May 2020 – Global human development – which can be measured as a combination of the world's education, health and living standards – could decline this year for the first time since the concept was introduced in 1990, the United Nations Development Programme (UNDP) warned today.

“The world has seen many crises over the past 30 years, including the Global Financial Crisis of 2007-09. Each has hit human development hard but, overall, development gains accrued globally year-on-year,” said UNDP Administrator Achim Steiner. “COVID-19 – with its triple hit to health, education, and income – may change this trend.”



Human Development Report 2010

20th Anniversary edition



"Human development is the expansion of people's freedoms to live long, healthy and creative lives; to advance other goals they have reason to value; and to engage actively in shaping development equitably and sustainably on a shared planet. People are both the beneficiaries and drivers of human development, as individuals and in groups.



Reaching SDG targets by 2030

Table 1-1
Projected distance from reaching selected targets by 2030 (at current trends)

GOAL	WITHIN 5%	5-10%	>10%	NEGATIVE LONG-TERM TREND
Goal 1		1.1. Eradicating extreme poverty	1.3. Social protection for all	
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 (overweight)
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	
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*	
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*
Goal 15				15.5. Biodiversity loss* 15.7. Wildlife poaching and trafficking*
Goal 16			16.9 Universal birth registration **	



Country Overshoot Days 2021

When would Earth Overshoot Day land if the world's population lived like...



Source: National Footprint and Biocapacity Accounts, 2021 Edition
data.footprintnetwork.org



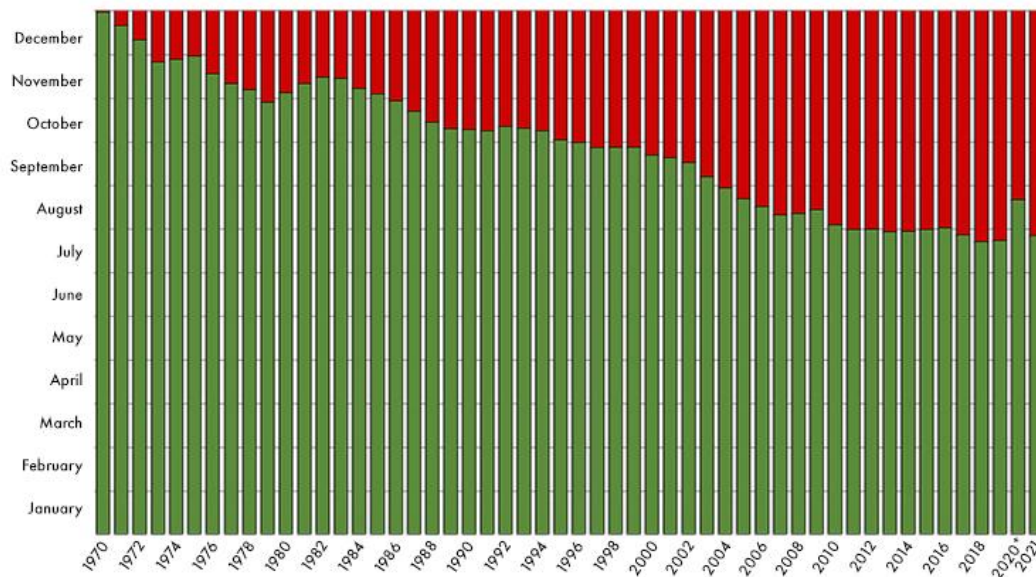
1 Earth

Earth Overshoot Day

1970 - 2021



1.7 Earths



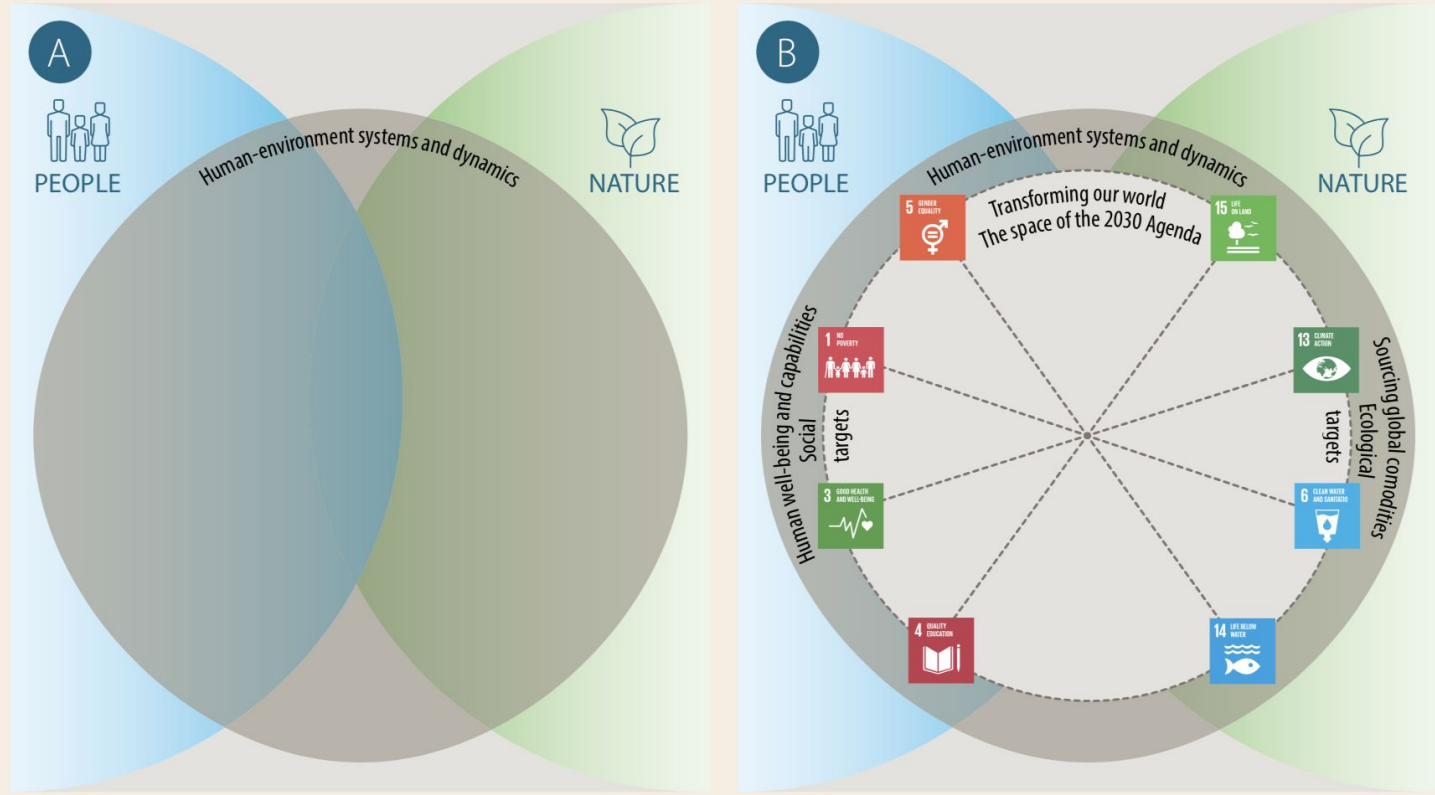
*The calculation of Earth Overshoot Day 2020 reflects the initial drop in resource use in the first half of the year due to pandemic-induced lockdowns. All other years assume a constant rate of resource use throughout the year.



Source: National Footprint and Biocapacity Accounts 2021 Edition
data.footprintnetwork.org

Box 1-8

The Global Sustainable Development Framework for knowledge-based transformations towards sustainable development



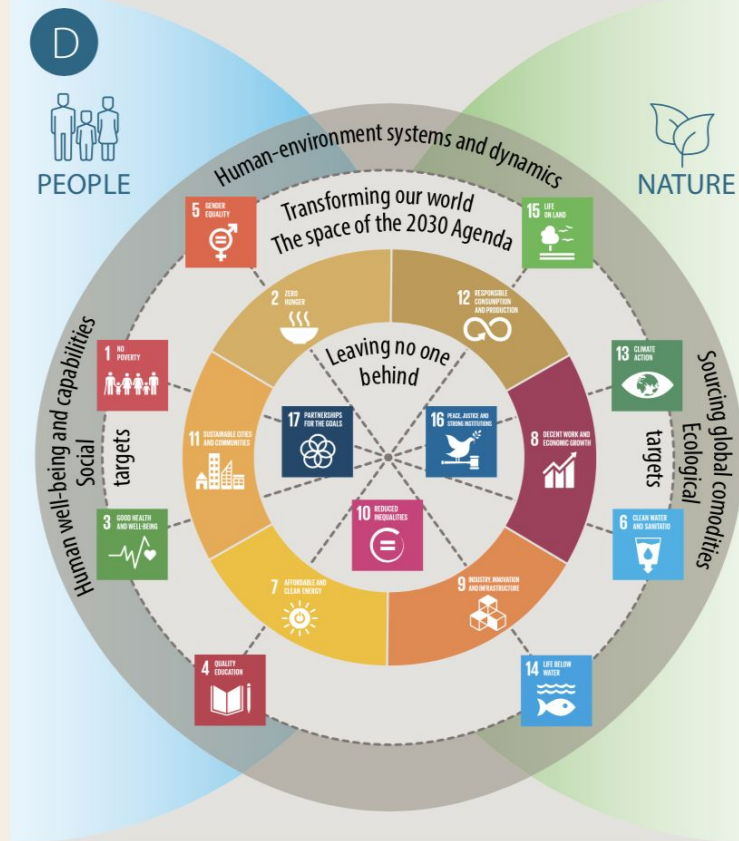
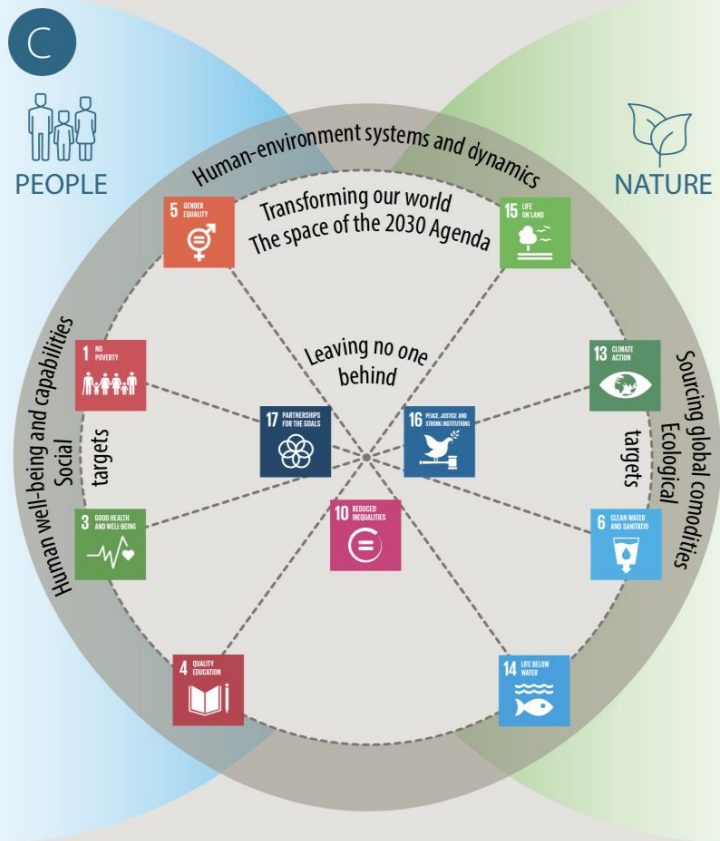
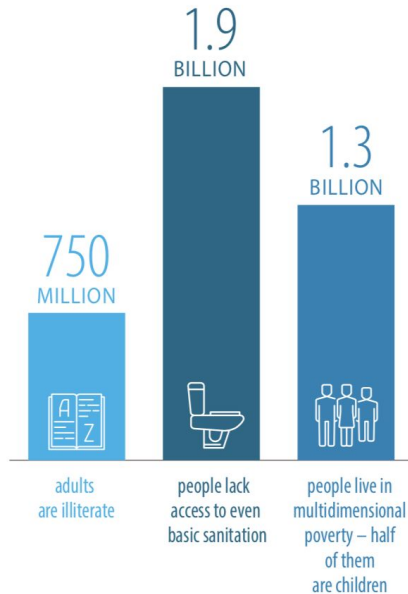
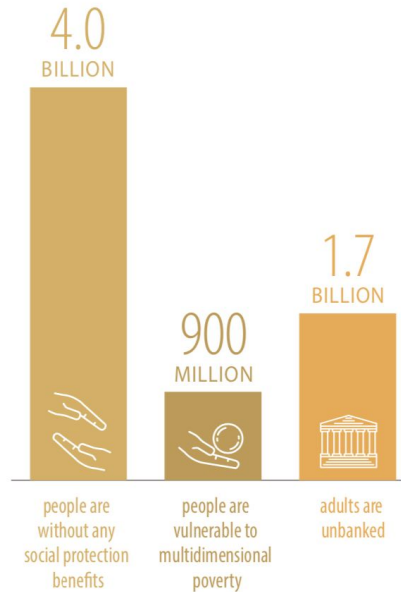


Figure 2-3
Human well-being and capabilities: where the world is falling short

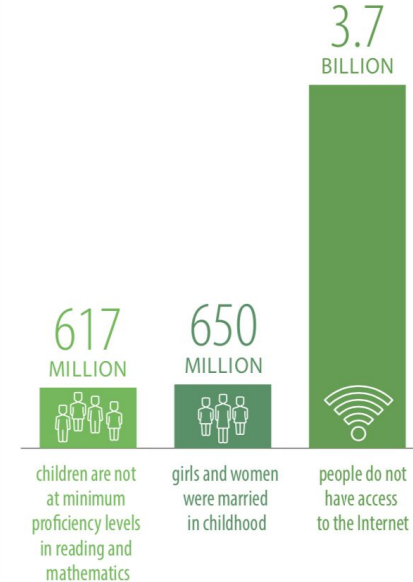
Basic deprivations are shrinking, but action is needed toward full eradication



Building resilience to shocks is imperative to secure gains in well-being



Inequalities in opportunities must be eliminated to expand human capabilities





Sachs, J. et al. (2019).
Nature Sustainability,
2:805-814.

Fig. 1 | Six SDG Transformations. Each Transformation describes a major change in the organization of societal, political and economic activities that transforms resource use, institutions, technologies and social relations to achieve key SDG outcomes (represented by the SDG wheel in the centre). Figure adapted from ref. ¹, TWI2050; SDG colour wheel courtesy of UN/SDG.

Story of Stuff



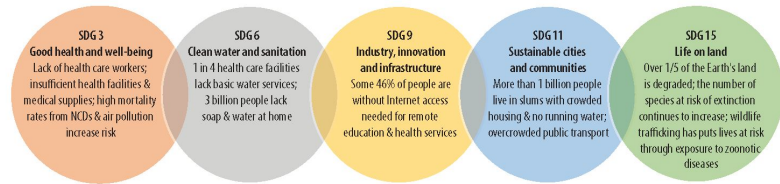
SDG12 & COVID19



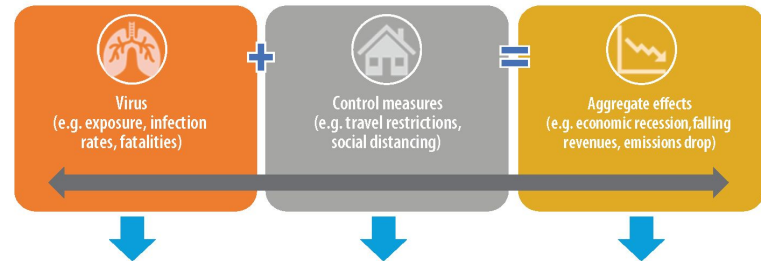
Figure 1

Pathways of COVID-19 impact on select SDGs*

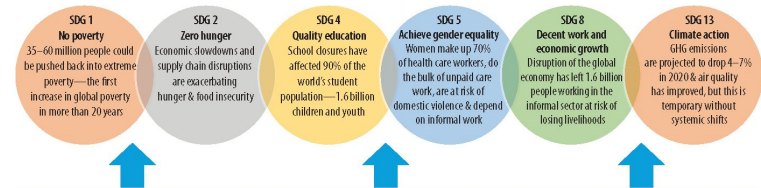
Severity of impacts influenced by pre-pandemic SDG progress through 2019



IMPACT CHANNELS



Outcomes for the SDGs in 2030 look dire without transformative action



MITIGATING THE IMPACTS and BUILDING BACK BETTER



* This figure is indicative. All SDGs are impacted by COVID-19.

SDG12 & COVID19



TWI2050 - The World
 in 2050 (2020).
 International
 Institute for Applied
 Systems Analysis
 (IIASA), Laxenburg,
 Austria.

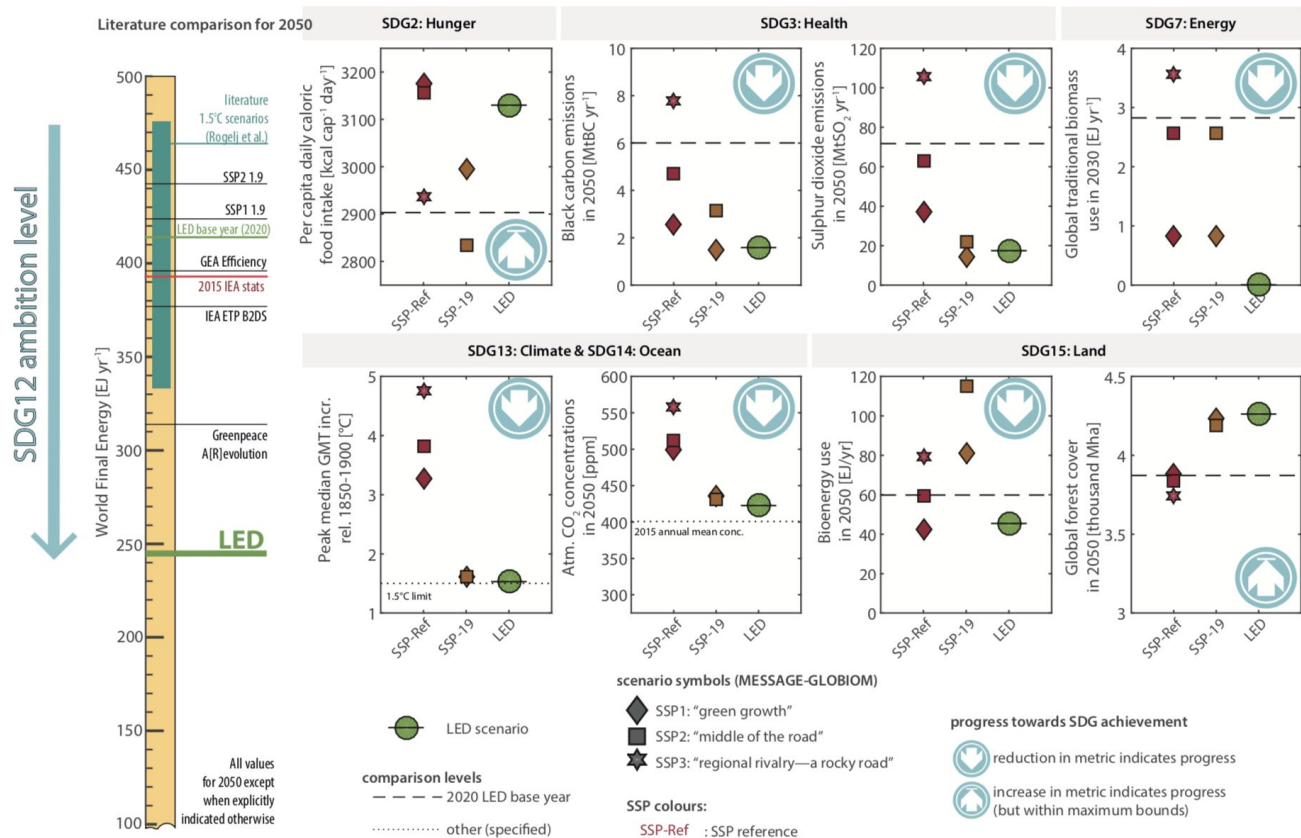


Figure 27. Scenario comparison of SDG synergies and co-benefits of a demand-side focused (SDG12) versus supply-side focused scenarios for meeting a 1.5°C climate target (SDG13). Also shows desirable direction for various SDG indicators. Source: After Grubler et al. (2018), cfr. TWI2050 (2018), Figure 3.7.

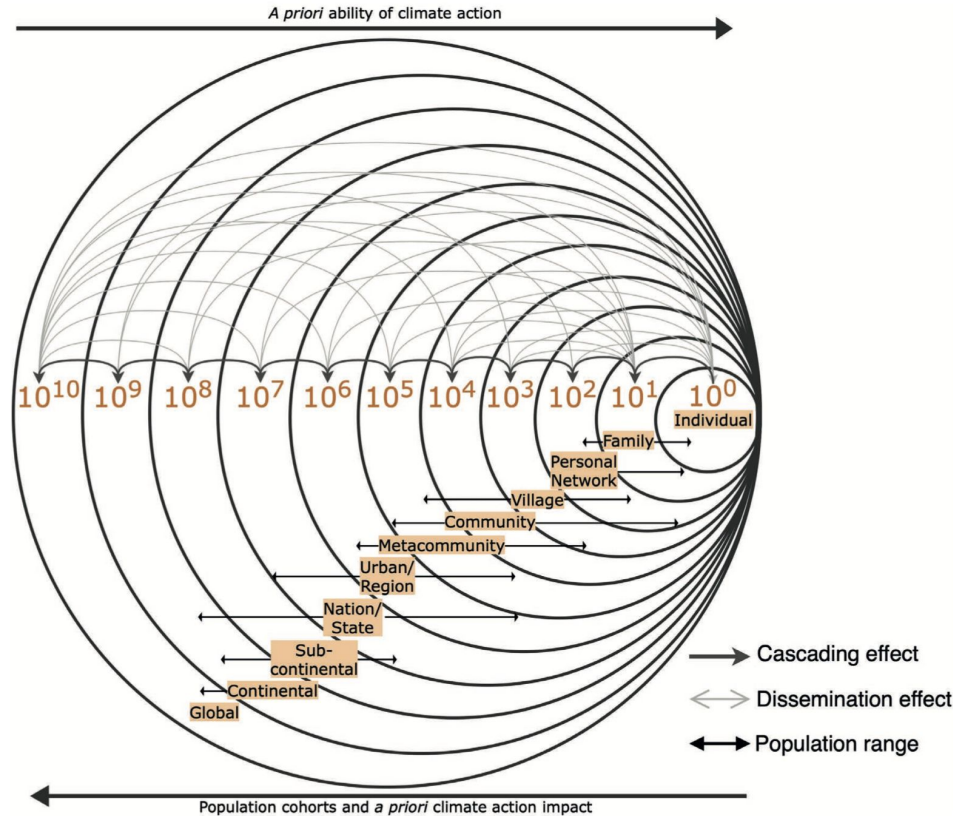


Figure 37. A networked governance approach for societal transformation Note: A 'Powers of 10' approach to form agencies and polycentric networked governance between every individual and estimated 10 billion people by 2050. The community to urban level or a community of 10,000–1,000,000 people may provide a sweet spot for maximizing the sustainability action impact through polycentric networked governance. Source: Bhowmik et al. (2020).

TWI2050 - The World in 2050 (2020). International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.

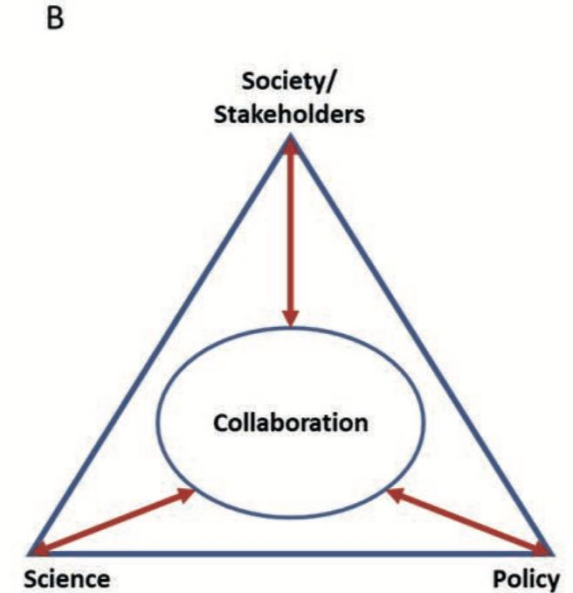
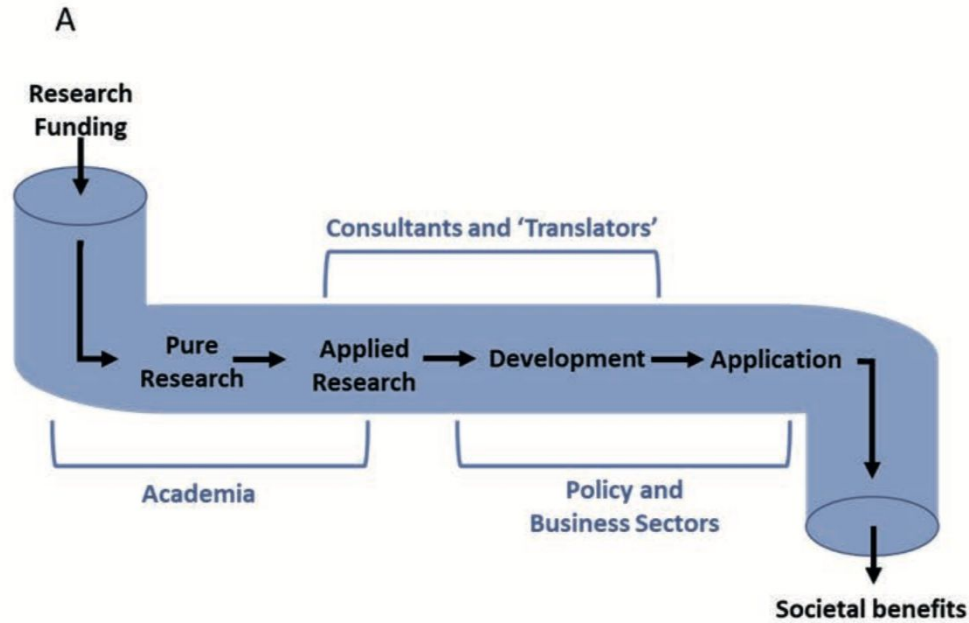


Figure 41. From a standard linear model (A) to the Science-Policy-Society Triangle (B). Source: Ullah (2017), adapted from Hessels and Van Lente (2008).



Final Pitch Criteria


Two teams will be rewarded


Creativity/ Innovativeness	The innovativeness of the idea to solve an evidence-based problem or issue
Compatibility	The compatibility of the idea to the 2030 Agenda and the Sustainable Development Goals and specific targets
Plausibility	The applicability and feasibility of the solution for practical implementation to accelerate the SDGs
Process	The application of the Design Thinking Methodology throughout the whole design process
Influence/Pitch delivery	The ability of the presentation and presenters to captivate and persuade the audience

Be mindful of interconnectedness of SDGs

As you resume with DT process (empathize and define)

- Outline which SDG targets your idea addresses
- - Background research on relevant targets, specific to your user group

	Target 1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance

Indicators ▲	
1.4.1 Proportion of population living in households with access to basic services	
1.4.2 Proportion of total adult population with secure tenure rights to land, with legally recognized documentation and who perceive their rights to land as secure, by sex and by type of tenure	
	Target 1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters
Indicators ▲	
1.5.1 Number of deaths, missing persons and persons affected by disaster per 100,000 people	
1.5.2 Direct disaster economic loss in relation to global gross domestic product (GDP)a	
1.5.3 Number of countries with national and local disaster risk reduction strategies	