



1. A decisive decade ahead

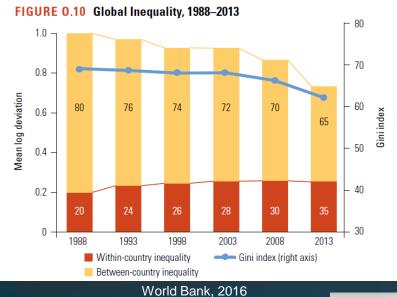
Sounding the alarm bell:

The need to scale-up and accelerate implementation

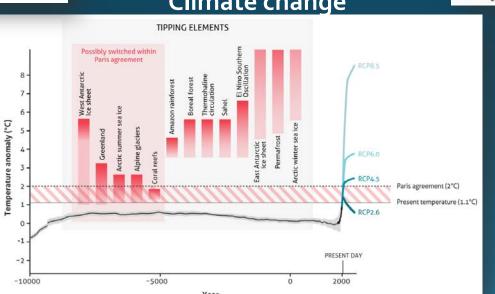
GOAL		WITHIN 5%	5-10%	>10%	NEGATIVE LONG-TERM TREND	
İ _t əə;İ	Goal 1		1.1. Eradicating extreme poverty	1.3. Social protection for all		
"	Goal 2		2.1. Ending hunger (undernourishment)	2.2. Ending malnutrition (stunting) 2.5. Maintaining genetic diversity 2.a. Investment in agriculture*	2.2. Ending malnutrition (o verweight)	
- ₩	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		
Å	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		
-0-	Goal 7		7.1. Access to electricity	7.2. Share of renewable energy* 7.3. Energy intensity		
11	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**	
ALL	Goal 11			11.1. Urban population living in slums*		
00	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*	
Y	Goal 16			16.9 universal birth registration *		

Understanding the systemic challenges

Raising inequalities



Climate change



Biodiversity loss

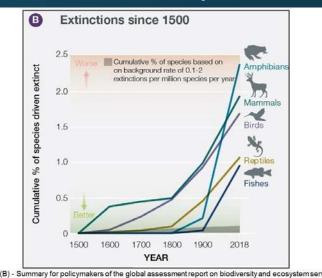


Figure 3 (B) - Summary for policymakers of the global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services

IPBES, 2019



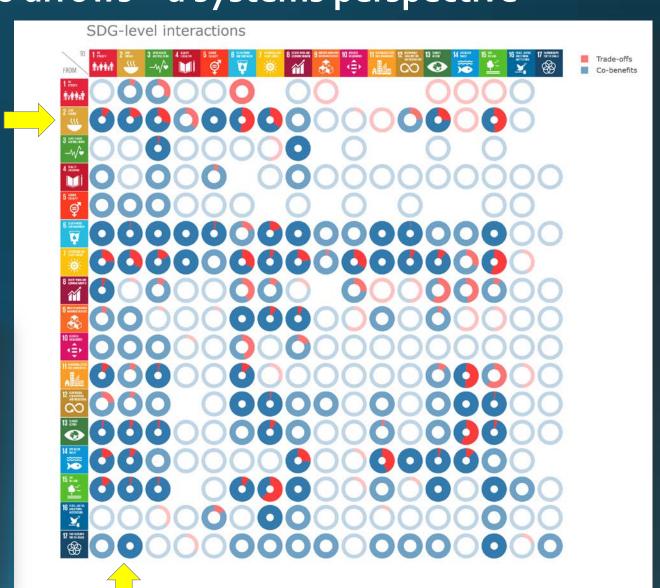
2. Knowledge-based transformations

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

Moving forward:

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







2. Knowledge-based transformations Systemic entry points

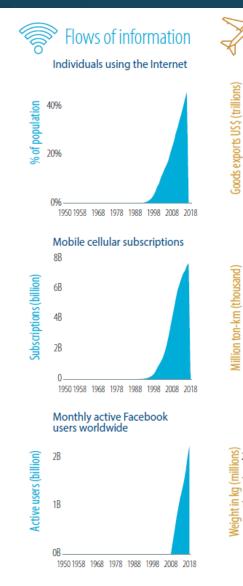
ENTRY POINTS FOR TRANSFORMATION

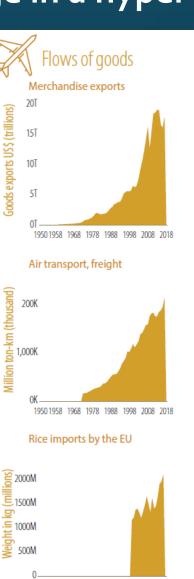
ENTRY TORTS FOR TRANSFORMATION							
Human wellbeing and capabilities	Sustainable and just economies	Energy decarbonisation and access	Food systems and nutrition patterns	Urban and peri-urban development	Global environmental commons		



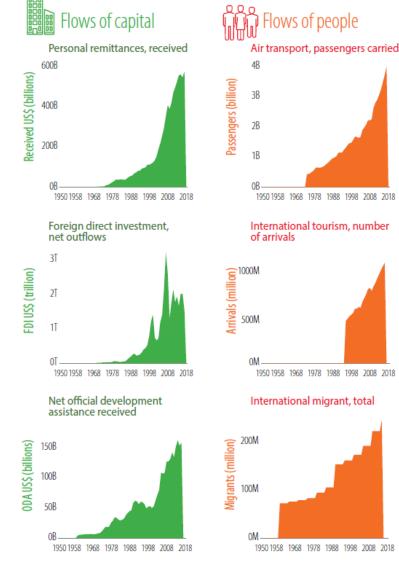
Insight (b): Levers for change in a hyper-connected world







1950 1958 1968 1978 1988 1998 2008 2018





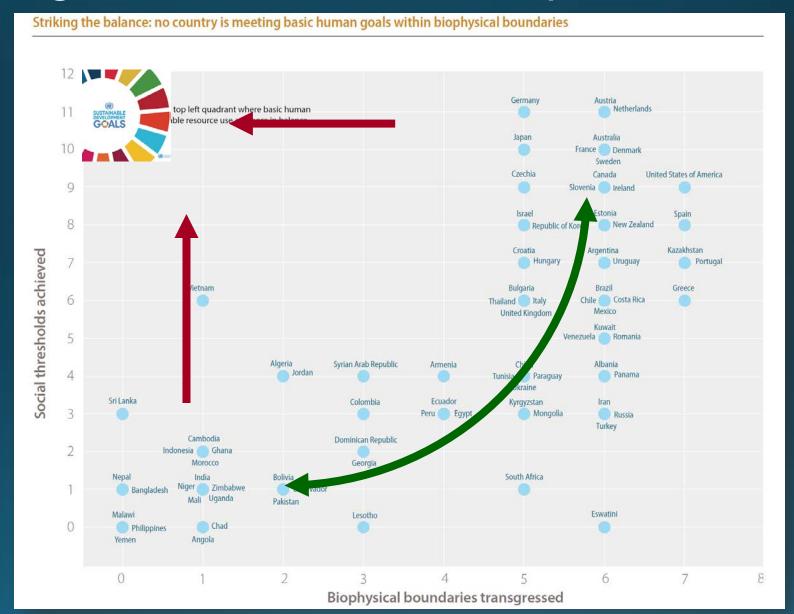
2. Knowledge-based transformations Innovation through combined levers and new partnerships

FNTRY POINTS FOR TRANSFORMATION

	LININT FOINTS FOR TRANSFORMATION					
LEVERS	Human wellbeing and capabilities	Sustainable and just economies	Energy decarbonisation and access	Food systems and nutrition patterns	Urban and peri-urban development	Global environmental commons
Governance						
Economy and Finance						
Individual and Collective Action						
Science and Technology						



Insight (c): Context and universality matter!

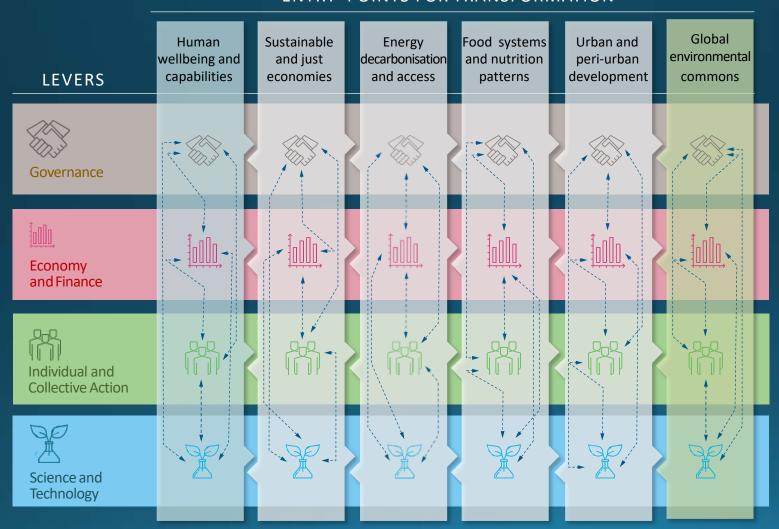




2. Knowledge-based transformations

Context-specific pathways to transformation for sustainability

ENTRY POINTS FOR TRANSFORMATION



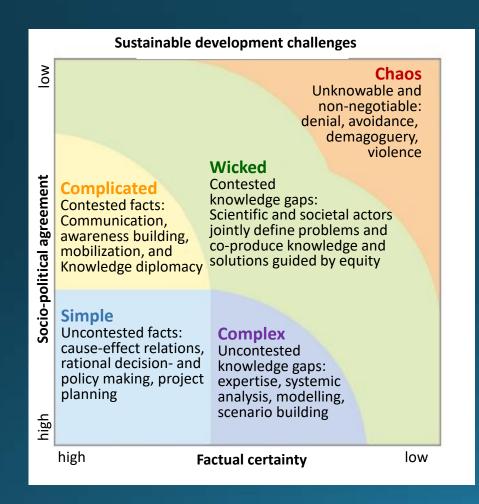
Each entry point:

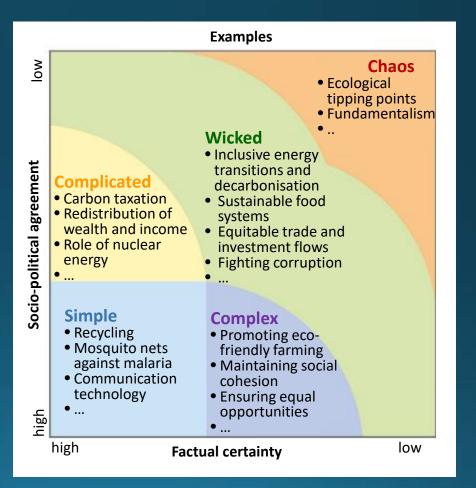
- ✓ Impediments
- ✓ Levers
- ✓ Integrated and context-specific pathways
- ✓ Call to Action

Pathways to Transformation as context-specific configurations of levers to achieve transformation in each entry point



3. The role of science in knowledge-based transformations to sustainable development







Call to Action (1/3):

Harness existing knowledge for accelerated SDG implementation

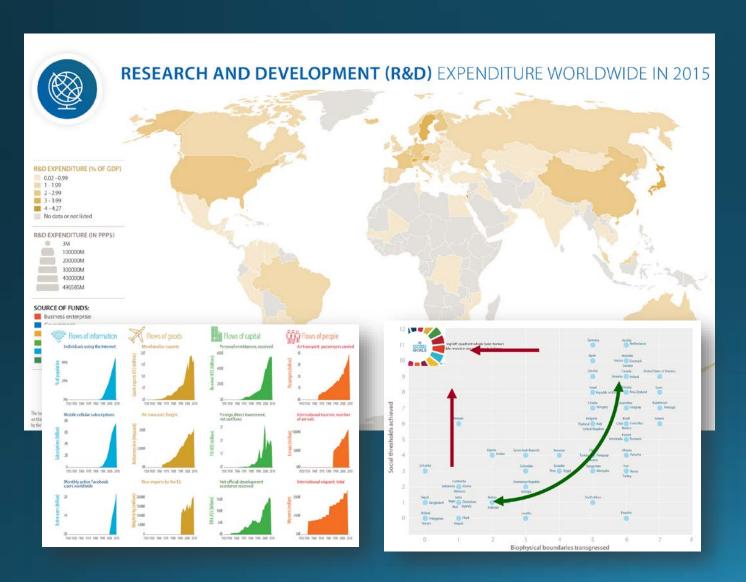


- 1. Continued support for international scientific assessments and synthesis and their increased coherence
- 2. Open access to scientific publications
- 3. Sustainable <u>development councils</u> and <u>knowledge diplomacy</u>
- 4. Support <u>novel partnership</u> of science (public-private-civil society) and building of competencies



5. Call to Action (2/3):

Boosting scientific knowledge in low and middle income countries

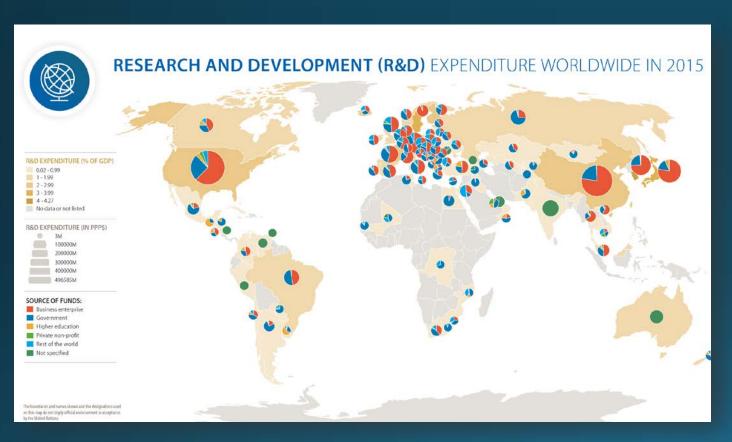


- 1. Build <u>open-access SDG knowledge</u> and technology platforms to design, monitor, and evaluate transformations to SD
- 2. Harnessing and boosting <u>scientific</u> <u>capacities</u> through North-South and South-South <u>transboundary</u> <u>research partnerships</u>
- 3. Support <u>curricula and education in</u> <u>sustainable development</u>
- 4. Build national and regional scientific funding institutions



Call to Action (3/3):

A 'moon-shot' mission for Sustainability Science



- Rapid increase of <u>mission-oriented</u> research guided by the 2030 Agenda
- 2. Scientific <u>assessment of existing</u> <u>transformation knowledge</u> including non-academic sources
- 3. Adapt funding schemes to programme structures supporting inter- and transdisciplinary research
- 4. Expand <u>incentive- and evaluation</u> <u>schemes</u>
- 5. Create <u>experimental spaces and</u>
 <u>transformation labs</u> for next
 generation science-policy interfaces



https://sustainabledevelopment.un.org/globalsdreport/2019#contributions