Impacts and implications of COVID-19 crisis and its recovery for achieving Sustainable Development Goals (SDG) in Asia

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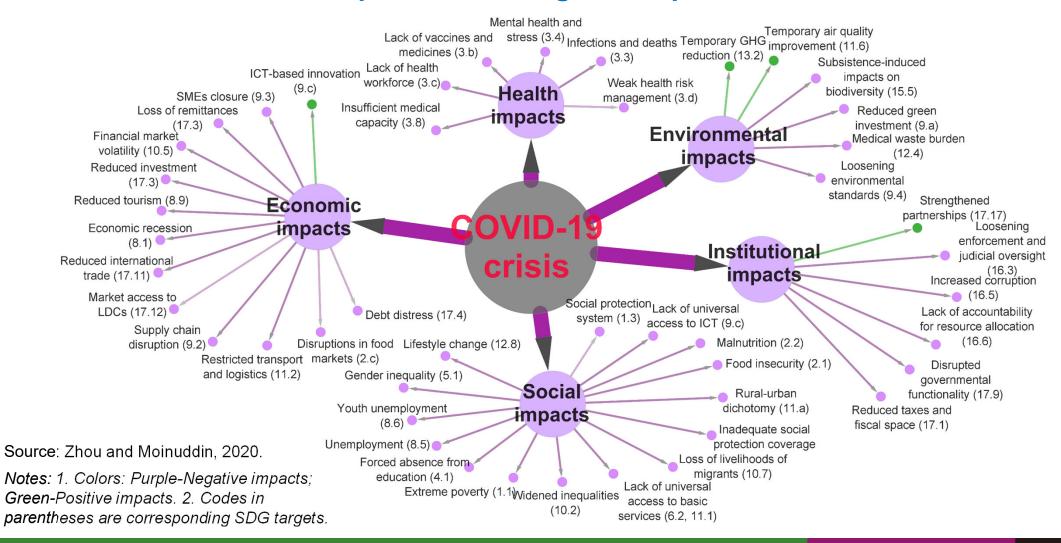
JSPS-ICSSR Seminar on Understanding and Addressing Systemic Risks Behind the Socio-economic Impacts of COVID-19 in Japan and India: Developing a Roadmap for a Resilient and Sustainable Future

21 November 2022, Tokyo, Japan

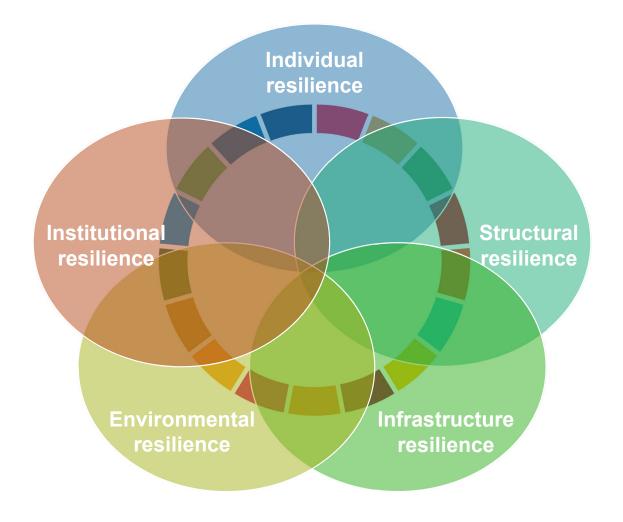
Background

- The rapid repercussion of the COVID-19 pandemic and its evolution into a global crisis reaffirm the indivisibility of the economy, society and environment and the importance of taking an integrated approach.
- Lessons learnt from the COVID-19 crisis and its responses are valuable for preparing and preventing the triple planetary crises (climate change, biodiversity loss and air pollution).
- The pandemic has exposed the weaknesses and loopholes in the global systems without addressing which the progress in SDGs will not be achieved.
- In the wake of the COVID-19 pandemic, the significance of SDGs is more relevant than ever and the recovery efforts need to be calibrated to address the gaps in achieving the SDGs.
- From an SDG interlinkage perspective, we suggest how the COVID-19 recovery measures can pave the road for building a resilient and sustainable future in Asia.

COVID-19 pandemic and global repercussions

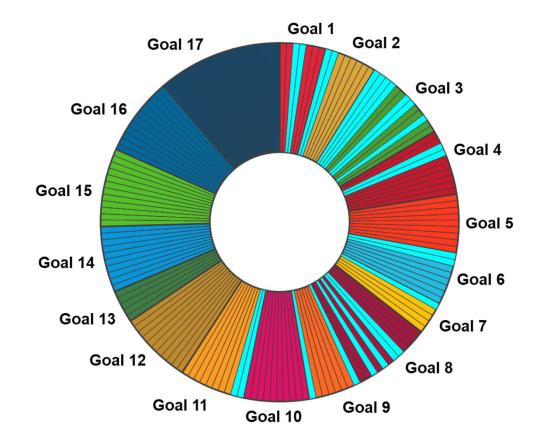


Framework for building resilience and sustainability (R&S) of human-environment systems



Individual resilience and corresponding SDGs

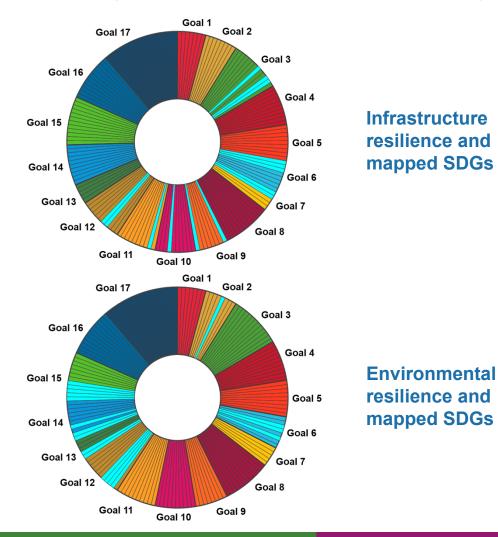
R&S areas	Sub-areas	SDG targets	
Individual resilience	Food security and nutrition	2.1, 2.2	
	Good health	3.1, 3.2, 3.3, 3.4	
	Access to basic services and economic resources	1.4, 3.7, 3.8, 3.b, 6.1, 6.2, 7.1, 8.10, 9.1, 9.c, 11.1, 11.2	
	Stable job and decent work	8.5, 8.6, 8.8	
	Social protection system	1.3	
	Level of education attainment and skills	4.3, 4.4	
	Migrants	10.7	



Individual resilience and mapped SDGs

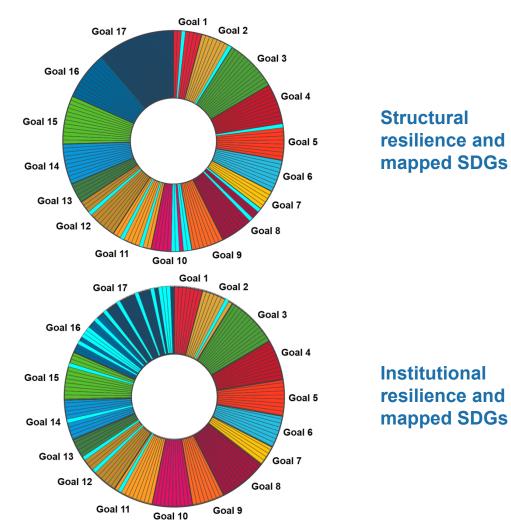
A Framework for building resilience and sustainability (R&S) of human-environment systems

R&S areas	Sub-areas	SDG targets	
Infrastructure	Healthcare systems	3.8, 3.b, 3.c	
resilience	Water and sanitation	6.1, 6.2	
	Energy systems	7.1, 7.2	
	Telecommunication systems	9.c	
	Transport systems	9.1, 11.2	
	Municipal solid wastes management and sewage systems	6.3, 12.4, 2.5	
Environmental	Freshwater systems	6.3, 6.4, 6.6	
sustainability	Marine systems	14.1, 14.2, 14.4	
	Terrestrial systems	2.5, 15.1, 15.2, 15.3, 15.4, 15.5	
	Climate system	13.1, 13.2	
	Resource use	12.2, 12.3, 12.4, 12.5	

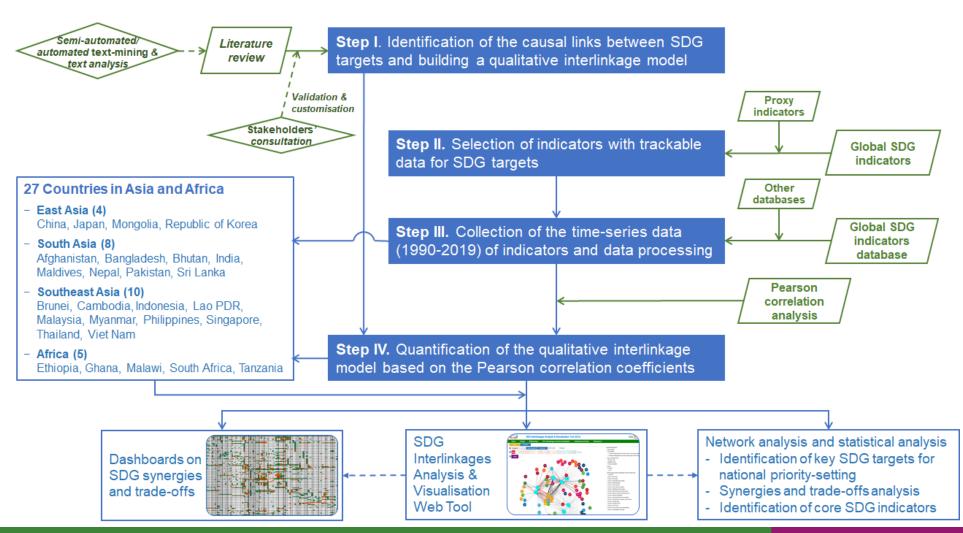


A Framework for building resilience and sustainability (R&S) of human-environment systems

R&S areas	Areas	SDG targets		
Structural resilience	Social protection system	1.3		
	Market systems	2.c		
	Gender equality	5.1		
	Economic structure	8.1, 8.4, 17.13		
	Social equalities	10.1, 10.2, 10.4		
	Financial system	10.5		
	Urbanisation and urban- rural linkages	11.3, 11.a		
	Lifestyles	12.8		
	International trade	17.11		
Institutional resilience	Mobilisation and allocation of resources	12.7, 17.1, 17.5 (public expenditure)		
	Policy-making, implementation and enforcement	2.b, 12.c, 14.5, 15.9, 17.14, 17.18		
	Good governance	16.3, 16.5, 16.6, 16.7, 16.10		
	Partnership	17.10, 17.16, 17.17		
	DDR strategies for good preparedness	11.b		



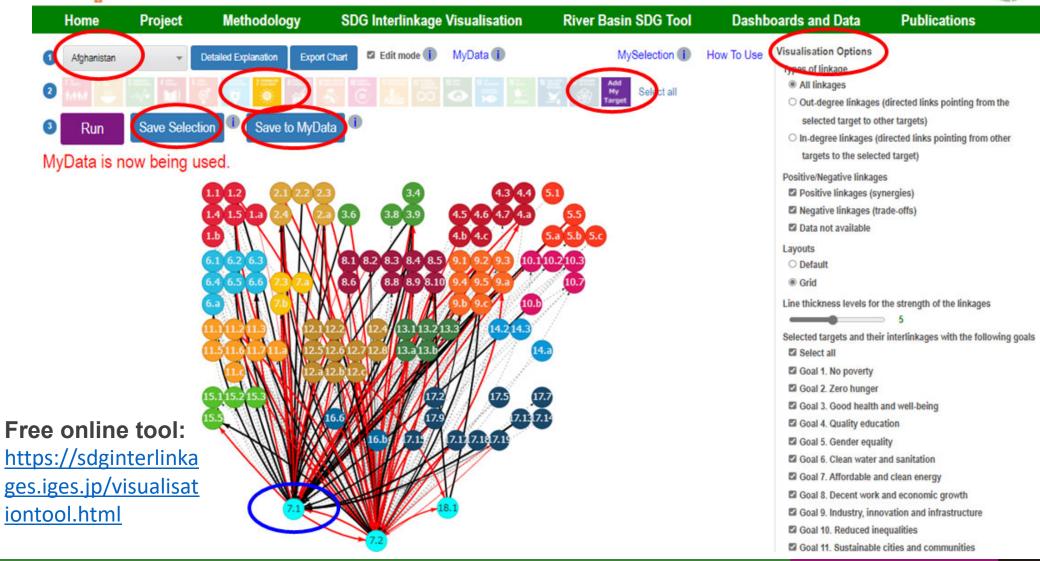
IGES developed a four-step methodology for identification and quantification of the SDG interlinkages



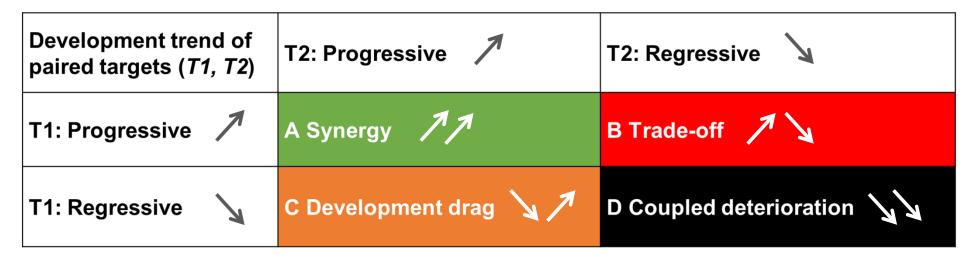


SDG Interlinkages Analysis & Visualisation Tool (V4.0)





Classification of the SDG interlinkages



Source: Based on Zhou and Moinuddin (2021).

Seven countries covering South Asia, Southeast Asia and East Asia





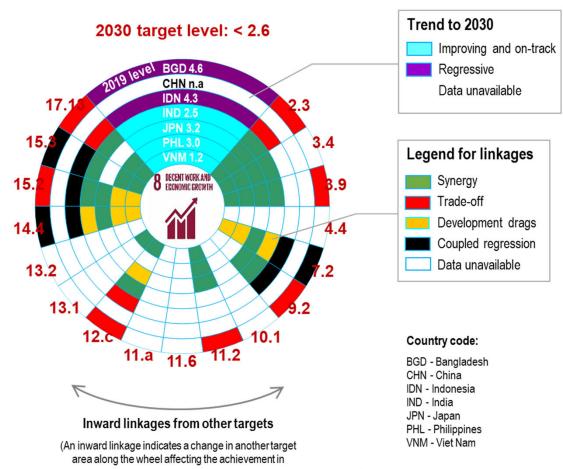






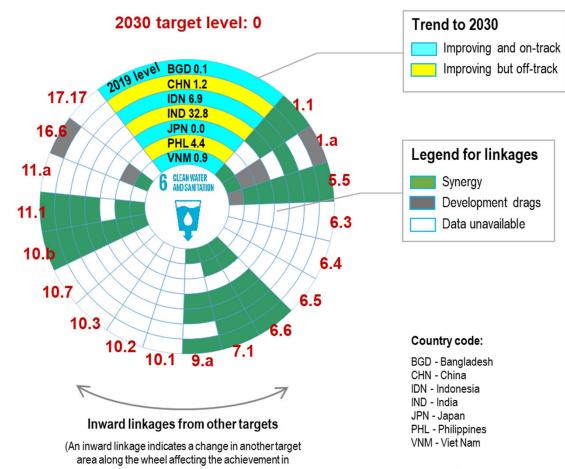
SDG gaps in individual resilience: An example of Target 8.5 (decent work for all)

- Measured by the unemployment rate (%);
- Employment is an enabling condition for other individual resilience aspects;
- Asian countries are exposing to great vulnerability of individuals in COVID-19 crisis;
- Most countries are on track however the employment structure with 68% jobs in the informal sectors cause vulnerability.



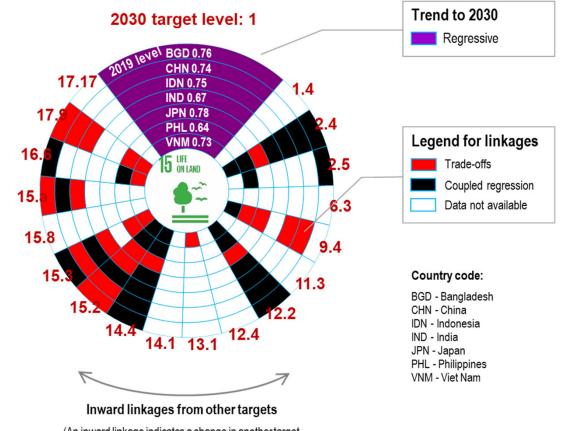
SDG gaps in infrastructure resilience: An example of Target 6.2 (access to sanitation and hygiene)

- Measured by the proportion of population practicing open defecation (%);
- Resilient infrastructure plays a vital role in enabling socioeconomic progress and achieving sustainable development;
- The COVID-19 pandemic pronounced even more significance of sanitation and hygiene.
- Asian countries in general performed well related to this target.
- Insufficient investment due to lack of financial resources is a development drag to achieve resilient infrastructure for all.



SDG gaps in human-environment interactions: An example of Target 15.5 (biodiversity)

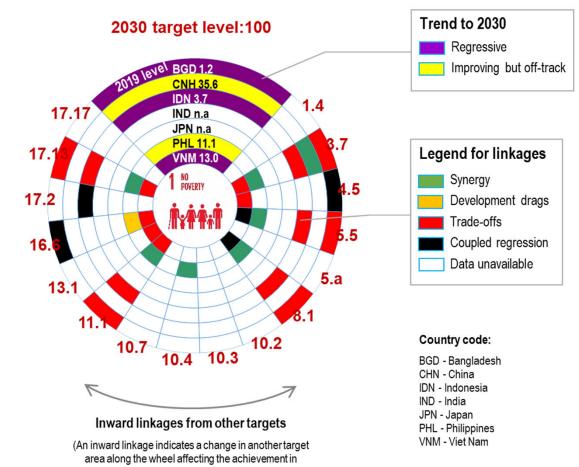
- Measured by the Red List Index;
- Regressive in all countries;
- Driven by unsustainable agricultural and industrial production and fisheries and the interactions with various ecosystems and coupled with unsustainable resource use.



(An inward linkage indicates a change in another target area along the wheel affecting the achievement in Target

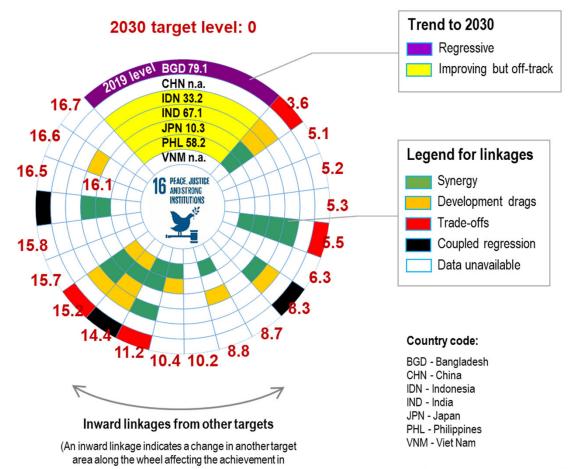
SDG gaps in structural resilience: An example of Target 1.3 (social protection systems)

- measured by proportion of population covered by social insurance programs (%);
- Fundamental for systems resilience maintaining systems functions in the face of a sudden shock and adapt to the changes.
- Building structural resilience, such as social protection system and gender equalities, is a longterm and critical strategy for developing Asian countries.



SDG gaps in institutional resilience: An example of Target 16.3 (promoting the rule of law)

- Measured by unsentenced detainees as a proportion of overall prison population (%);
- Through building strong governance, it is an important enabler to support SDGs;
- The existing progress has remained far from the 2030 target;
- Through outwards linkages, progress in this area provided development impetus to achieve other targets such as gender equality and reducing traffic accidents, etc.
- However, lack of progress in some countries has become a coupled regressive force or a developmental drag to some areas, e.g. formalization of the informal sectors and overfishing.



Priority setting for COVID-19 recovery

	Individual resilience	Infrastructure resilience	Environmental sustainability	Structural resilience	Institutional resilience
SDG targets	11.2 (2)	11.2 (2)	12.2 (9)	8.4 (12)	16.6 (30)
	11.1 (8)	9.c (25)	15.5 (17)	8.1 (15)	17.18 (29)
	9.c (25)	7.2 (28)	15.1 (23)	17.13 (43)	16.7 (33)
	8.5 (44)	7.1 (49)	15.2 (26)	11.a (1)	17.14 (36)
	7.1 (49)	9.1 (6)	13.2 (4)	11.3 (3)	17.17 (38)
	9.1 (6)		13.1 (10)	5.1 (14)	16.5 (40)
	10.7 (7)		14.2 (20)	10.2 (16)	17.16 (41)
	1.4 (11)		15.3 (39)	12.8 (24)	
	8.6 (47)			10.1 (45)	

Key messages

- The COVID-19 crisis call for urgently address the root causes in the existing unsustainable social-economic systems which link with the gaps in SDG achievements.
- To address the weaknesses and loopholes, we proposed five areas for building the resilience and sustainability (R&S) in Asia and closing the gaps for achieving the SDGs.
- Based on IGES SDG interlinkages analysis, we provided a list of key areas together with corresponding SDGs in each R&S area.
- Prioritising and directing COVID-19 recovery in these key areas will provide opportunities for the transformation towards a resilient and sustainable Asia and accelerating SDG achievements.

Thank you very much!

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Zhou, X., Moinuddin, M., Li, Y., 2021. SDG Interlinkages Analysis & Visualisation Tool (V4.0). Hayama: IGES. Available at: https://sdginterlinkages.iges.jp/visualisationtool.html.



Zhou, X. and Moinuddin, M. (2021) 'Impacts and implications of the COVID-19 crisis and its recovery for achieving Sustainable Development Goals in Asia: A review from an SDG interlinkage perspective', in A.L. Ramanathan et al. (eds) Scenarios of Environmental Resilience and Transformation in Times of Climate Change: Effects and Lessons from the COVID-19. Elsevier.

