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Sustainable Development Goals (SDG) Interlinkages Analysis and Visualisation

A practical tool supporting SDG integration and policy coherence

Dr. Xin Zhou

Research Leader Strategic and Quantitative Analysis Centre (QAC), IGES

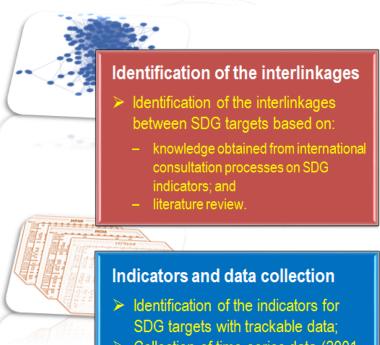
Regional Knowledge Sharing Workshop, organised by ADB, UN Environment and ESCAP, 21-22 February 2018, UNCC, Bangkok



Importance of SDG interlinkages analysis and existing knowledge gaps for SDG integration

- ➤ 17 SDGs and 169 targets inherently connect with each other forming an indivisible network for delivering sustainability from a systemic perspective.
- > SDG integration has been highly recognised through out the negotiation process of SDGs formation as well as in the planning and reporting processes.
- Understanding the interlinkages within and between SDGs is important for SDG integration to address critical issues such as:
 - How will achieving one target impact on achieving other targets?
 - How strong are the impacts?
 - Where are the areas of SDG synergies or trade-offs?
 - How countries are different in terms of SDG interlinkages, etc.

IGES' innovative and practical tool on SDG interlinkages analysis and visualisation







corresponding indicators using time-series data.

Collection of time series data (2001-2014) for the indicators for nine Asian countries.

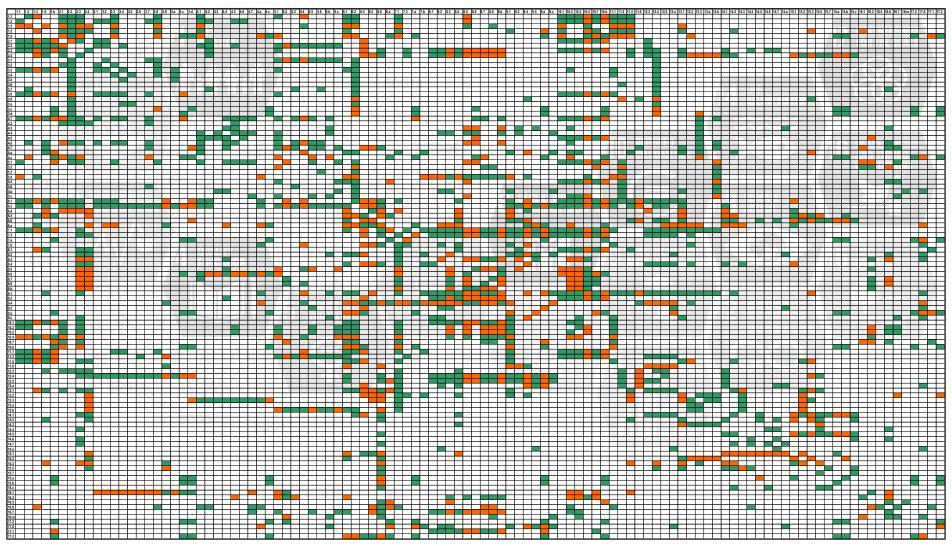
Analysis and visualisation of the interlinkages

IGES SDG Interlinkages and Data Visualisation Web Tool Version 1.0 (free access at https://sdginterlinkages.iges.jp/)



Source: A snapshot taken from IGES SDG Interlinkages and Data Visualisation Web Tool for Japan.

Country-specific dashboards indicating potential reinforcing (green) and conflicting (red) linkages



Bangladesh

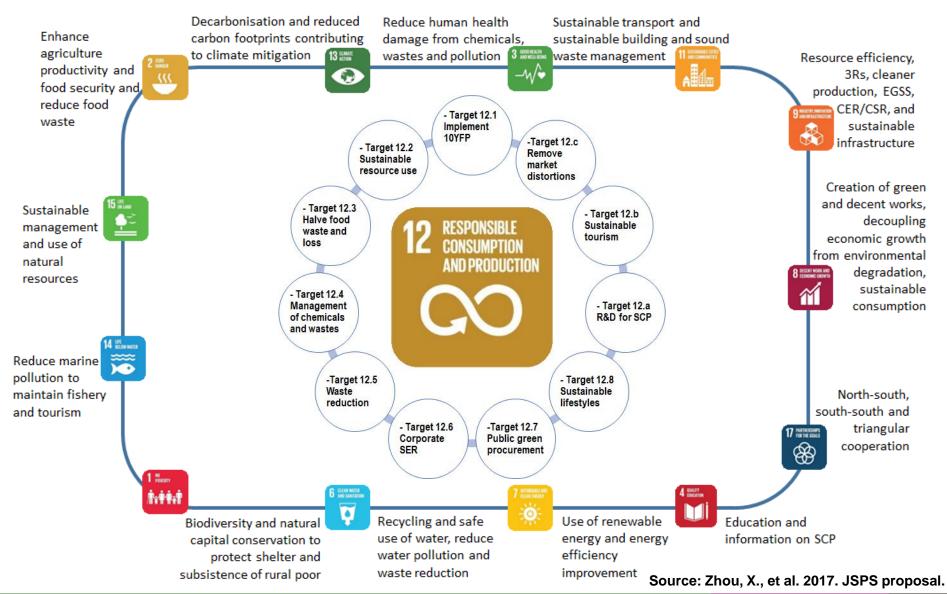
Using Social Network Analysis techniques, ranking various centrality metrics help identify strategic SDG targets

Rank	In-degree	Out-degree	Degree	Closeness	Eigenvector	Betweenness
1	6.2	6.2	6.2	15.7	2.3	6.2
2	2.3	9.1	7.1	15.c	7.1	12.4
3	6.1	7.1	6.1	14.a	6.1	2.3
4	7.1	6.1	2.3	14.5	10.2	6.6
5	10.2	12.4	9.1	14.6	10.4	2.4
6	6.6	2.4	12.4	14.4	6.2	7.1
7	10.3	2.3	2.4	14.7	10.3	6.1
8	10.4	4.1	6.6	14.3	9.1	9.1
9	8.5	6.a	10.2	5.3	8.5	16.6
10	10.b	7.3	1.b	9.5	10.7	1.b
11	2.4	9.4	5.1	5.6	1.5	13.3
12	9.1	1.b	10.4	15.b	8.3	11.2
13	12.4	5.1	10.3	13.a	2.1	2.2
14	8.3	11.2	4.1	3.a	8.7	5.1
15	10.7	1.2	9.4	3.5	8.8	8.6
16	1.b	6.6	8.5	3.6	2.4	6.a
17	6.4	12.5	11.2	3.2	10.b	8.2
18	2.2	4.c	2.2	14.2	6.4	5.b
19	5.1	4.6	1.5	3.4	8.b	10.b
20	1.5	10.2	10.b	15.5	11.1	13.b

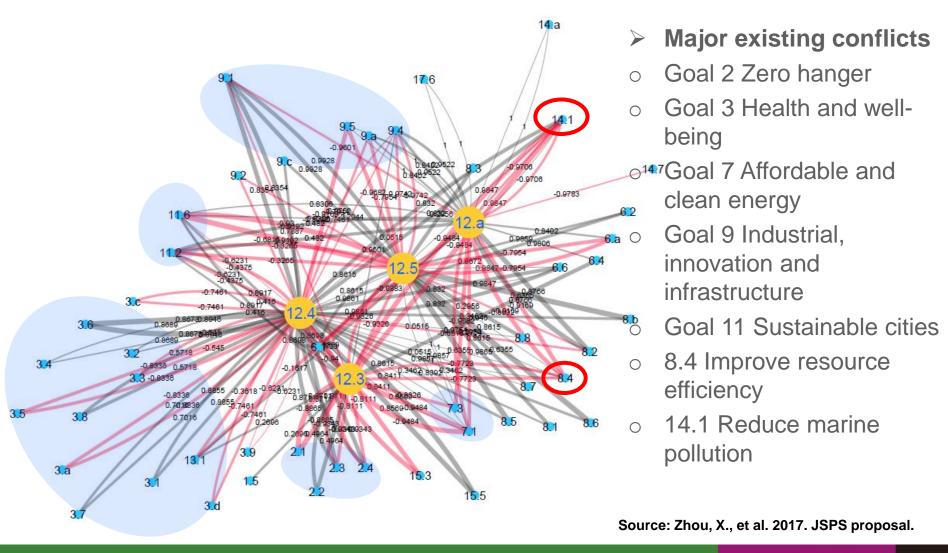
Source: Zhou & Moinuddion, 2017. IGES Research Report No. RR1602.

https://sdginterlinkages.iges.jp/files/IGES_Research%20Report_SDG%20Interlinkages_Publication.pdf

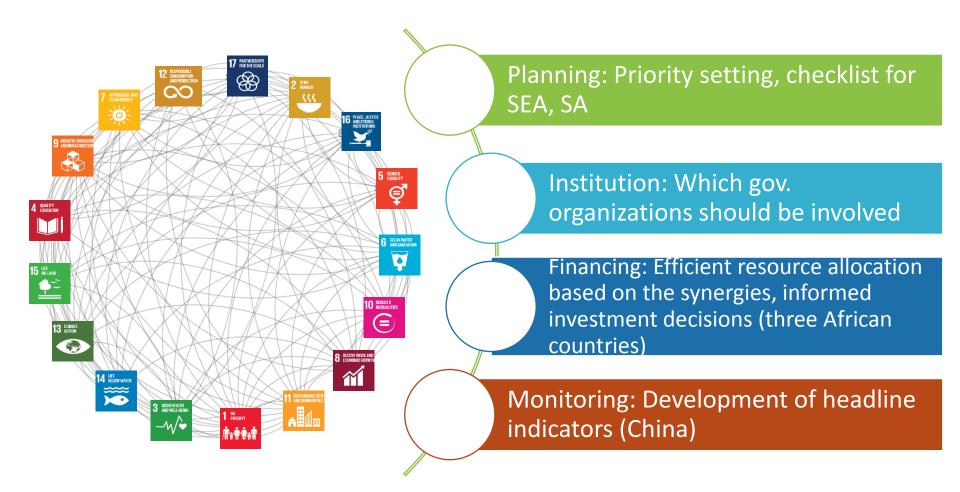
A conceptual framework of Goal 12 as an overarching theme links extensively with other goals and targets



Features of the quantified SCP interlinkages with other SDG targets: An example in Indonesia



Applications of the tool for SDG integration



Thank you!

Contact: zhou@iges.or.jp



Zhou, X., Moinuddin, M., 2017. Sustainable Development Goals Interlinkages and Network Analysis: A practical tool for SDG integration and policy coherence. IGES Research Report. Hayama: IGES. Available at: https://sdginterlinkages.iges.jp/files/IGES_Research%20Report_SDG%20Interlinkages_Publication.pdf.

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Zhou, X., Moinuddin, M., Li, Y., 2017. SDG Interlinkages and Data Visualisation Web Tool. Hayama: IGES. Available at: https://sdginterlinkages.iges.jp/visualisationtool.html.

