



# Analysis of the interlinkages of the environmental SDGs in Cambodia

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Institute for Global Environmental Strategies (IGES)

**Workshop on Cambodia's environmental challenges and the SDGs**  
*Co-organized by the Korea Environment Institute (KEI) and the Royal Academy of Cambodia (RAC), 19 September 2019, Phnom Penh, Cambodia*



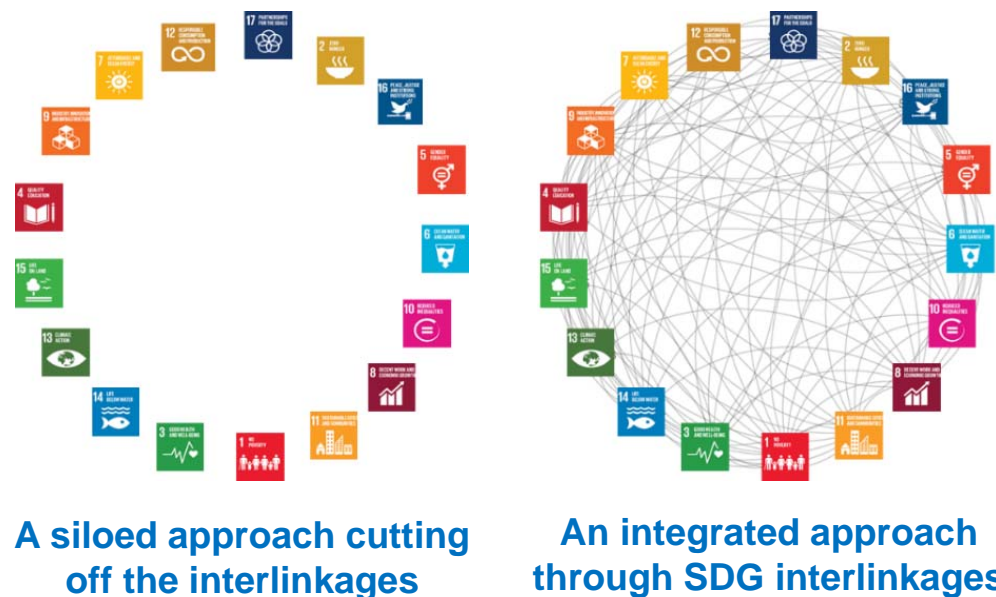
***The SDGs: 17 Goals, 169 Targets and 232 indicators form an integrated and indivisible framework for achieving sustainable development from a systemic perspective***



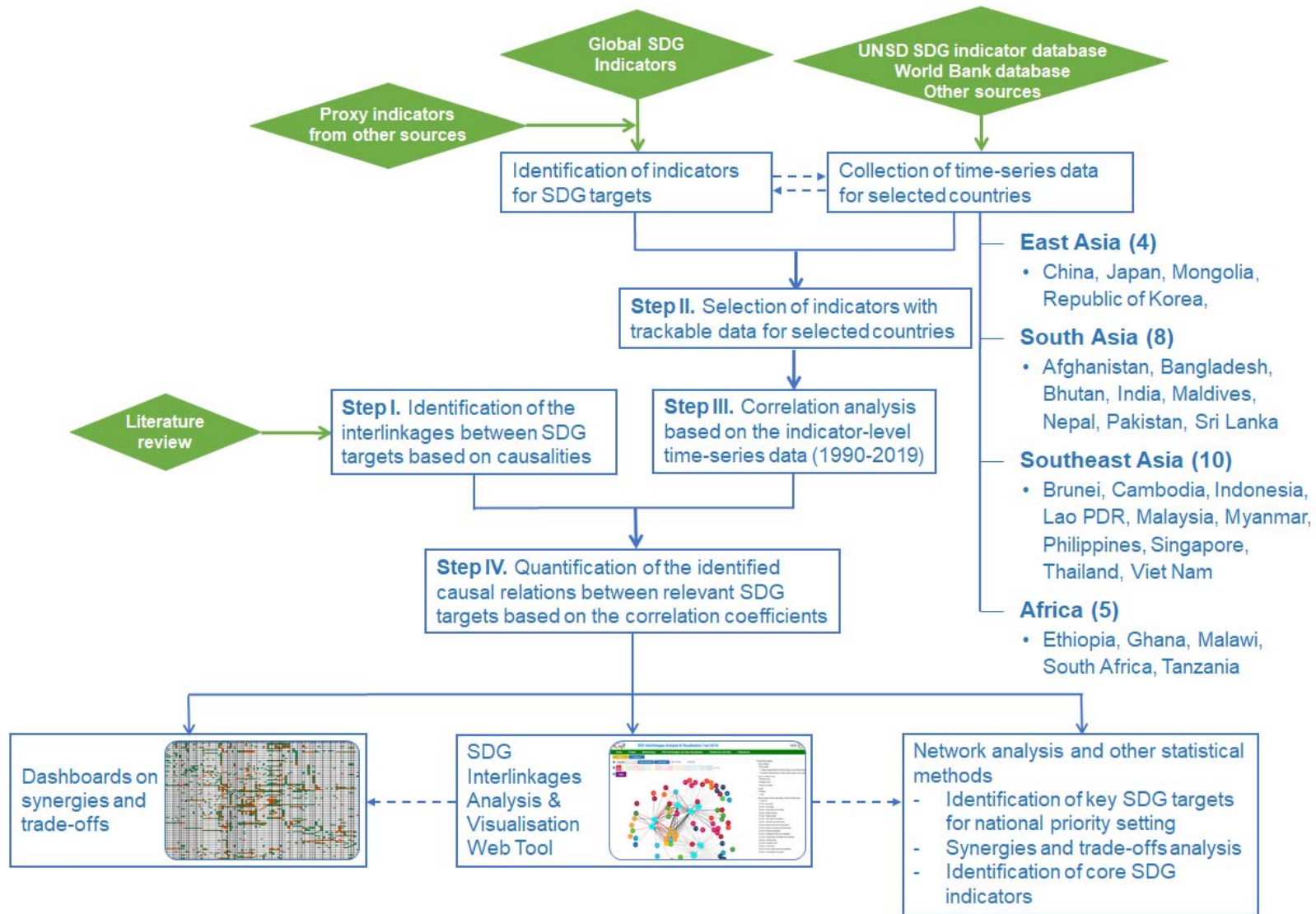
# Importance of taking an integrated approach through SDG interlinkages

- Shifting from a siloed approach to an integrated approach is imperative for achieving the SDGs.
- Understanding the interlinkages between the SDG targets is important for taking an integrated approach which helps address the following issues:

- *How will achieving one target impact on achieving others and how strong are the impacts?*
- *Where are the synergies or trade-offs between the SDG targets?*
- *How countries are different in terms of SDG interlinkages?*
- *What are the policy implications for priority setting and institutional arrangement, etc.*



# IGES approach on SDG interlinkages analysis



Source: <https://sdginterlinkages.iges.jp/visualisationtool.html>



# IGES SDG Interlinkages Analysis & Visualisation Tool (V3.0)

(<https://sdginterlinkages.iges.jp/visualisationtool.html>)



## SDG Interlinkages Analysis & Visualisation Tool (V3.0)

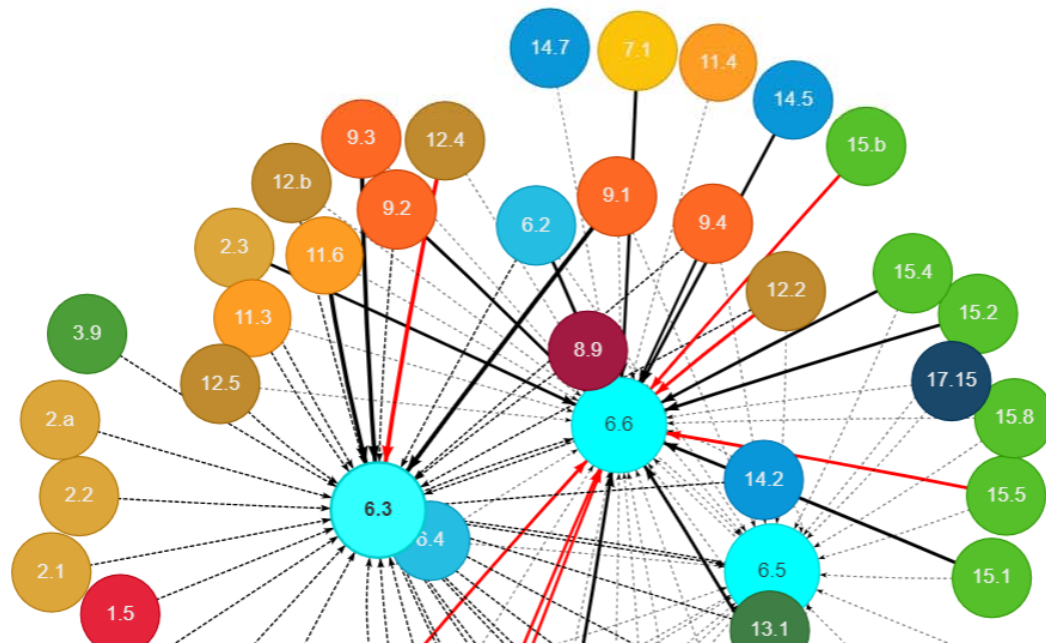


Home Project Methodology SDG Interlinkages and Data Visualisation Dashboards and Data Publications

1 China Detailed Explanation Export Chart Edit mode i How To Use

2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Select all

3 Apply



Visualisation Options

Types of linkage

- All linkages
- Out-degree linkages (directed links pointing from t selected target to other targets)
- In-degree linkages (directed links pointing from otl targets to the selected target)

Positive/Negative linkages

- Positive linkages(synergies)
- Negative linkages(trade-offs)
- Data not available

Layouts

- Default
- Grid

Line thickness levels for the strength of the linkages

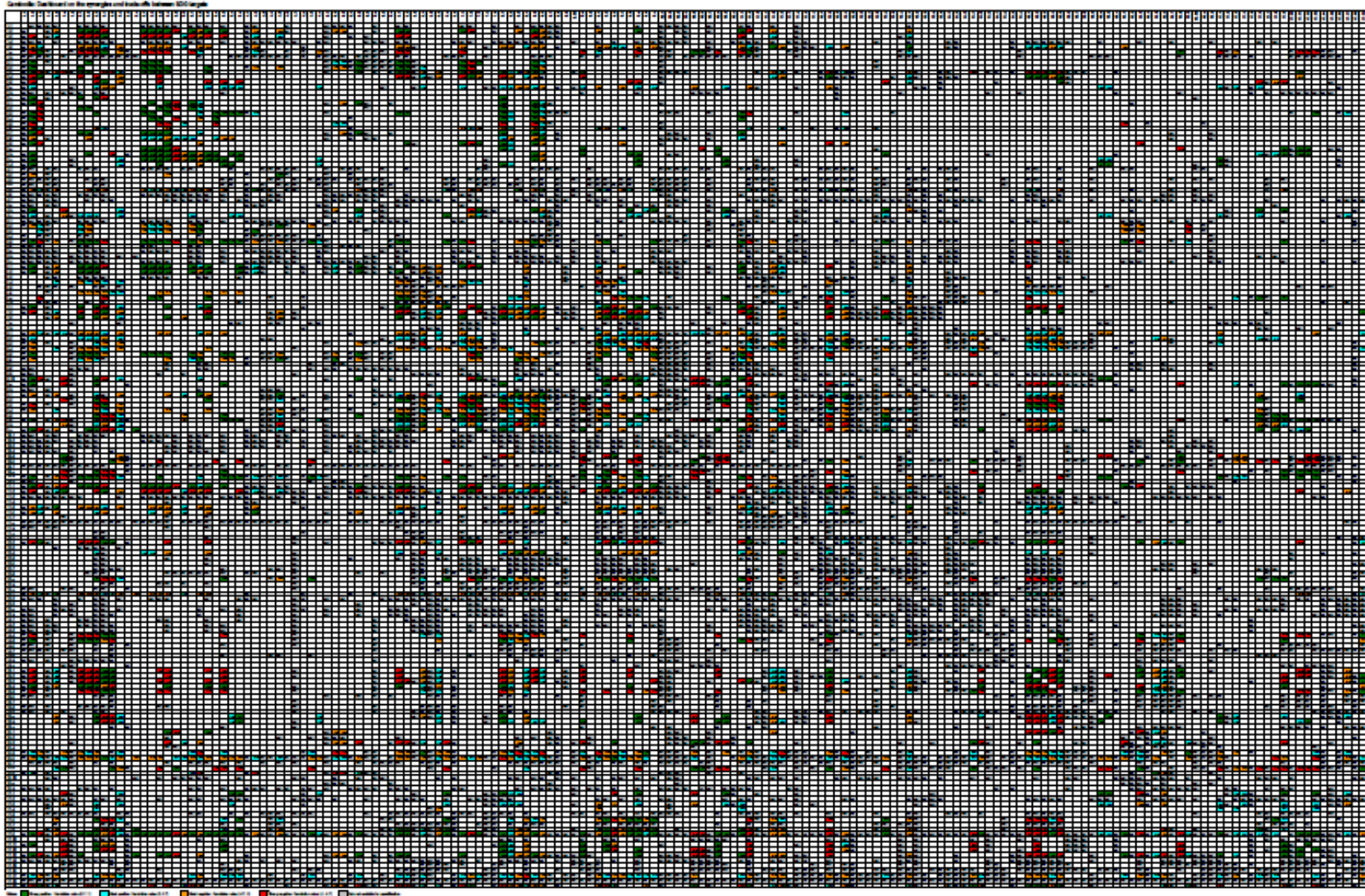
5

Selected targets and their interlinkages with the followi

- Select all
- Goal 1. No poverty
- Goal 2. Zero hunger
- Goal 3. Good health and well-being
- Goal 4. Quality education
- Goal 5. Gender equality







Source: A screenshot taken from IGES SDG Interlinkages Analysis and Visualisation Web Tool (V3.0).

## *Countries' dashboards on the potential positive and negative linkages between SDG targets*



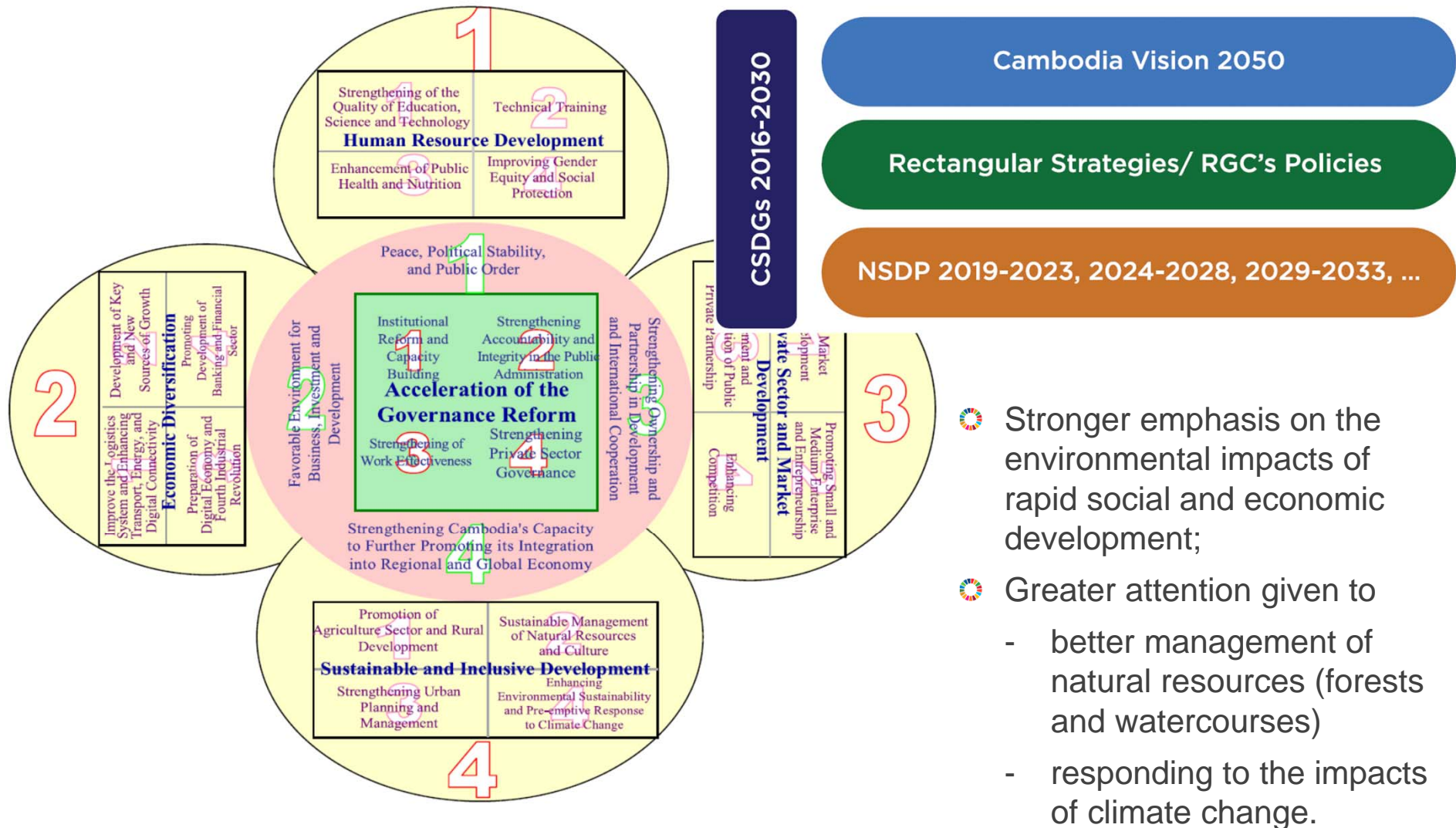
Source: A snapshot for Cambodia. Zhou, et al. IGES SDG Interlinkages Analysis & Visualisation Tool (V3.0).

# Applications of IGES SDG Interlinkages Tool

-  UN ESCAP SDG Helpdesk Toolboxes  
[https://sdghelpdesk.unescap.org/toolboxes?field\\_sdgs\\_target\\_id=All&title=&page=2](https://sdghelpdesk.unescap.org/toolboxes?field_sdgs_target_id=All&title=&page=2) .
-  United Nations Interagency Task Team on STI for the SDGs (IATT), STI Roadmaps related information <https://sustainabledevelopment.un.org/TFM>
-  A case study for Bangladesh on integrated priority setting and institutional arrangement
-  Capacity building workshop in Indonesia and SDG roadmap development, October, 2018
-  On-going projects: JICA's project on SDG interlinkages of Goals 9 & 11 in three African countries, UNDESA's project on capacity building on integrated policy making in developing countries, KEI's project on the interlinkages between NDCs and SDGs, KEI's project on environmental SDGs in Cambodia, SWITCH Asia project on the SCP action plan in Viet Nam, etc.
-  Applications to thematic issues
  - NDC-SDG interlinkages
  - Aichi Biodiversity Targets and SDG interlinkages
  - SCP and SDGs
  - SDG core indicators



# Incorporating SDGs in Cambodia's planning and the integration of the three dimensions in the national development strategies



Source: CAMBODIA'S VOLUNTARY NATIONAL REVIEW 2019



# Analysis of the interlinkages of the environmental SDGs



## *Economic, social and biospheric pillars of SDGs*



**Economic pillar: Goals 7, 8, 9, 11 and 12**

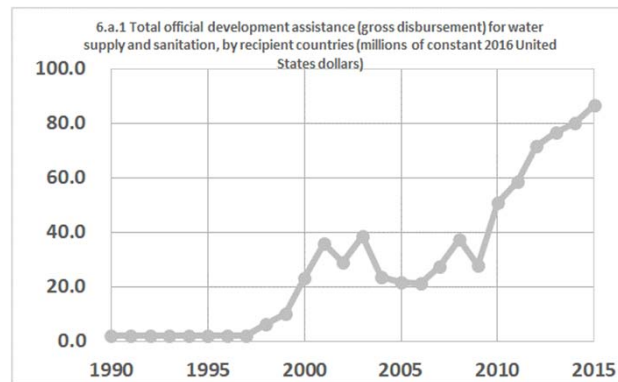
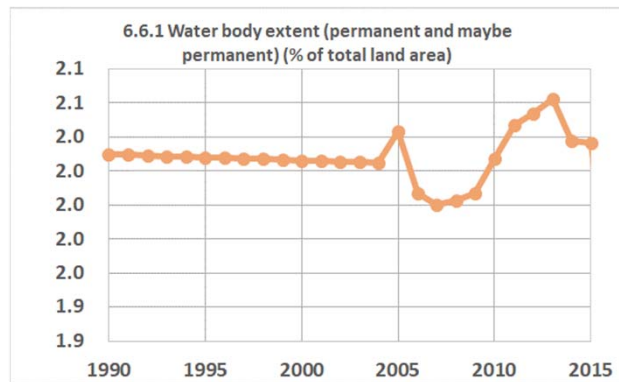
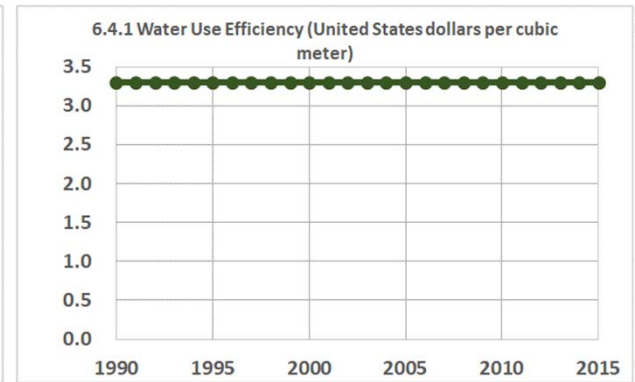
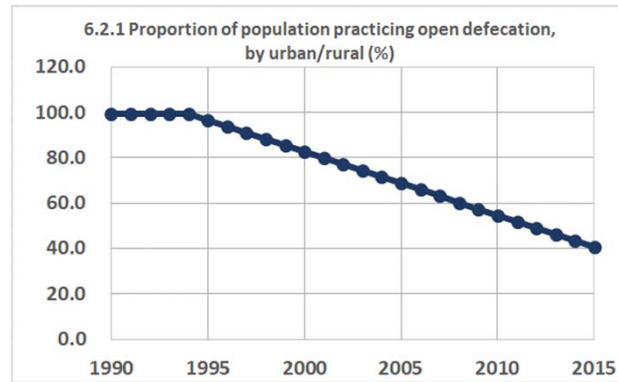
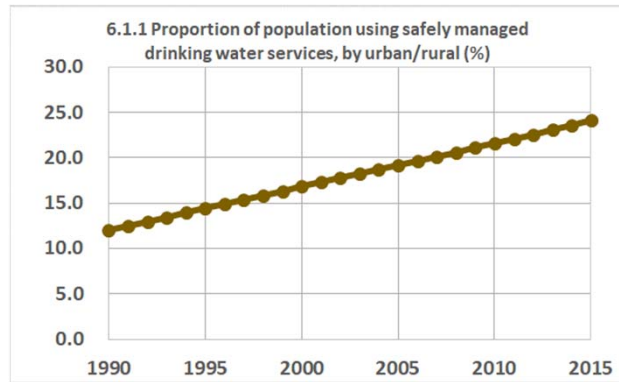


**Social pillar: Goals 1, 2, 3, 4, 5, 10 and 16**



**Biospheric pillar: Goals 6, 13, 14 and 15**

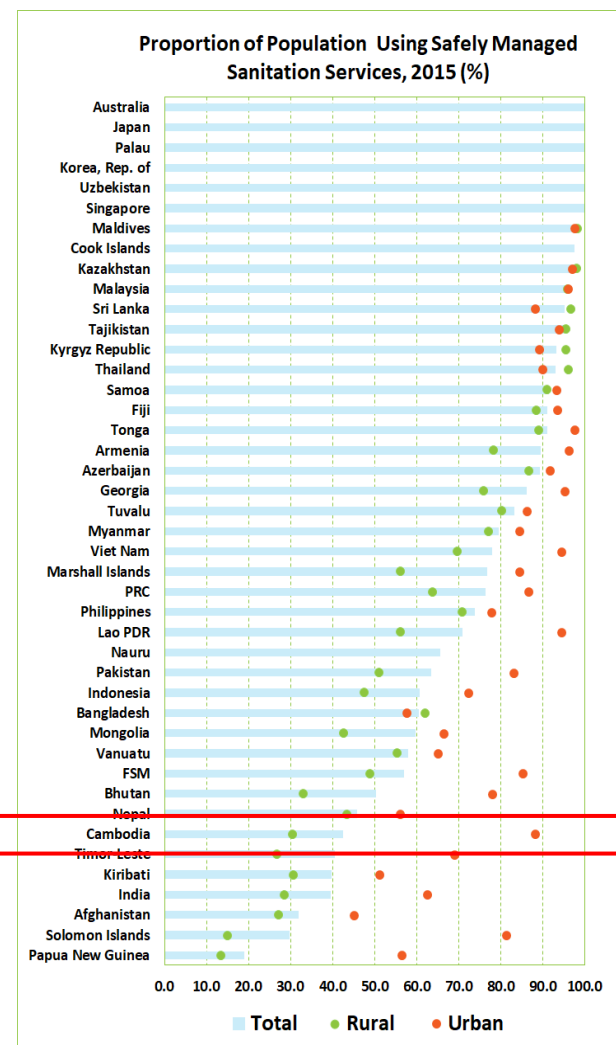
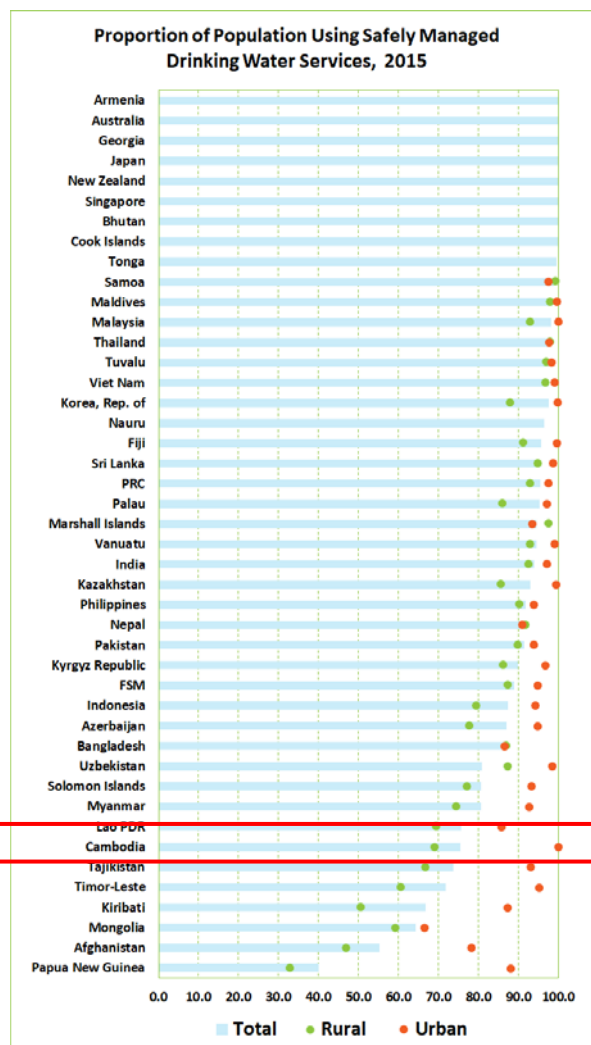
# Goal 6 Clean water and sanitation



## Trend of relevant indicators for the targets under Goal 6

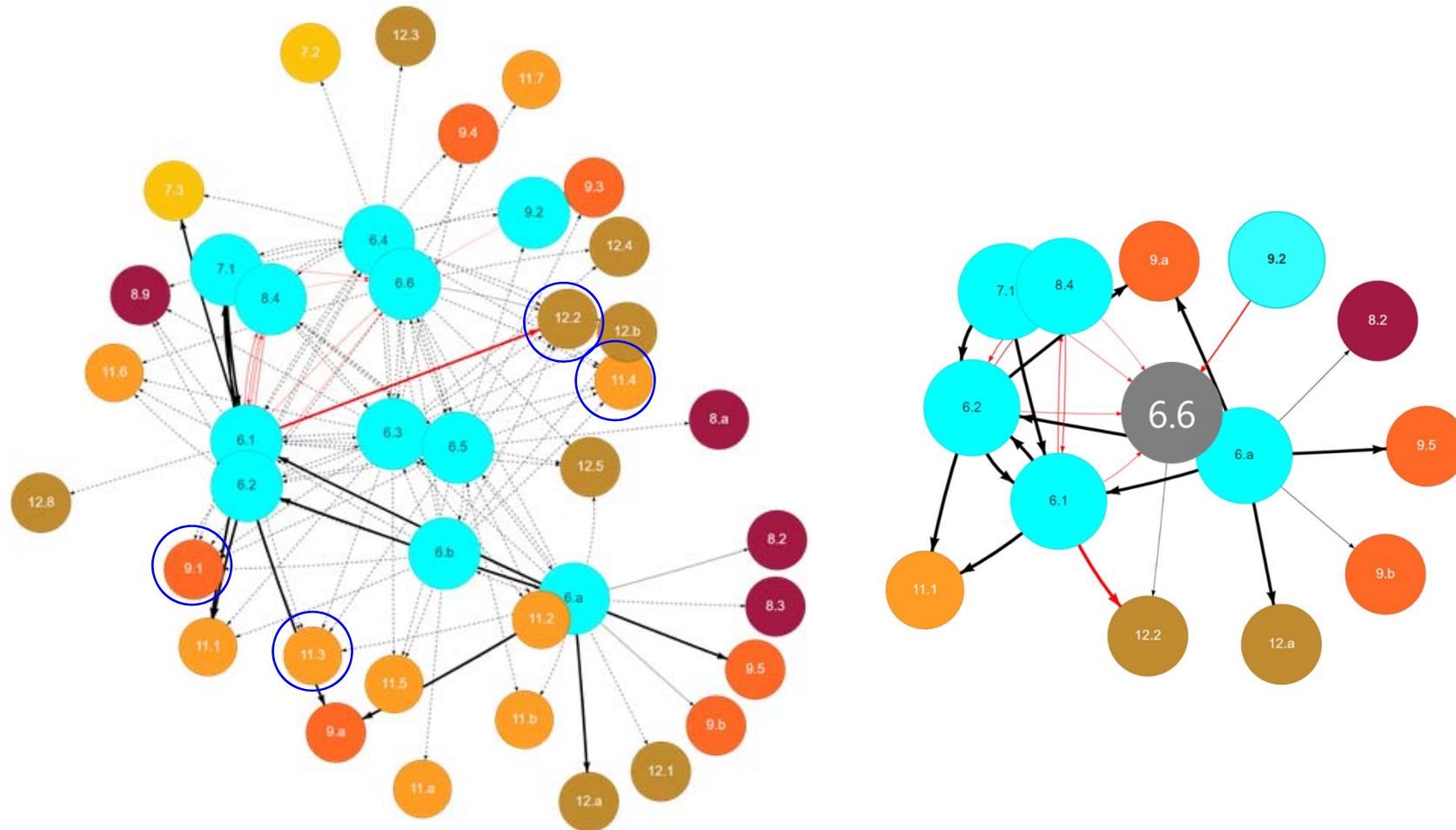


# Current state of water and sanitation in Cambodia and in Asia and the Pacific



Source: ADB, 2017

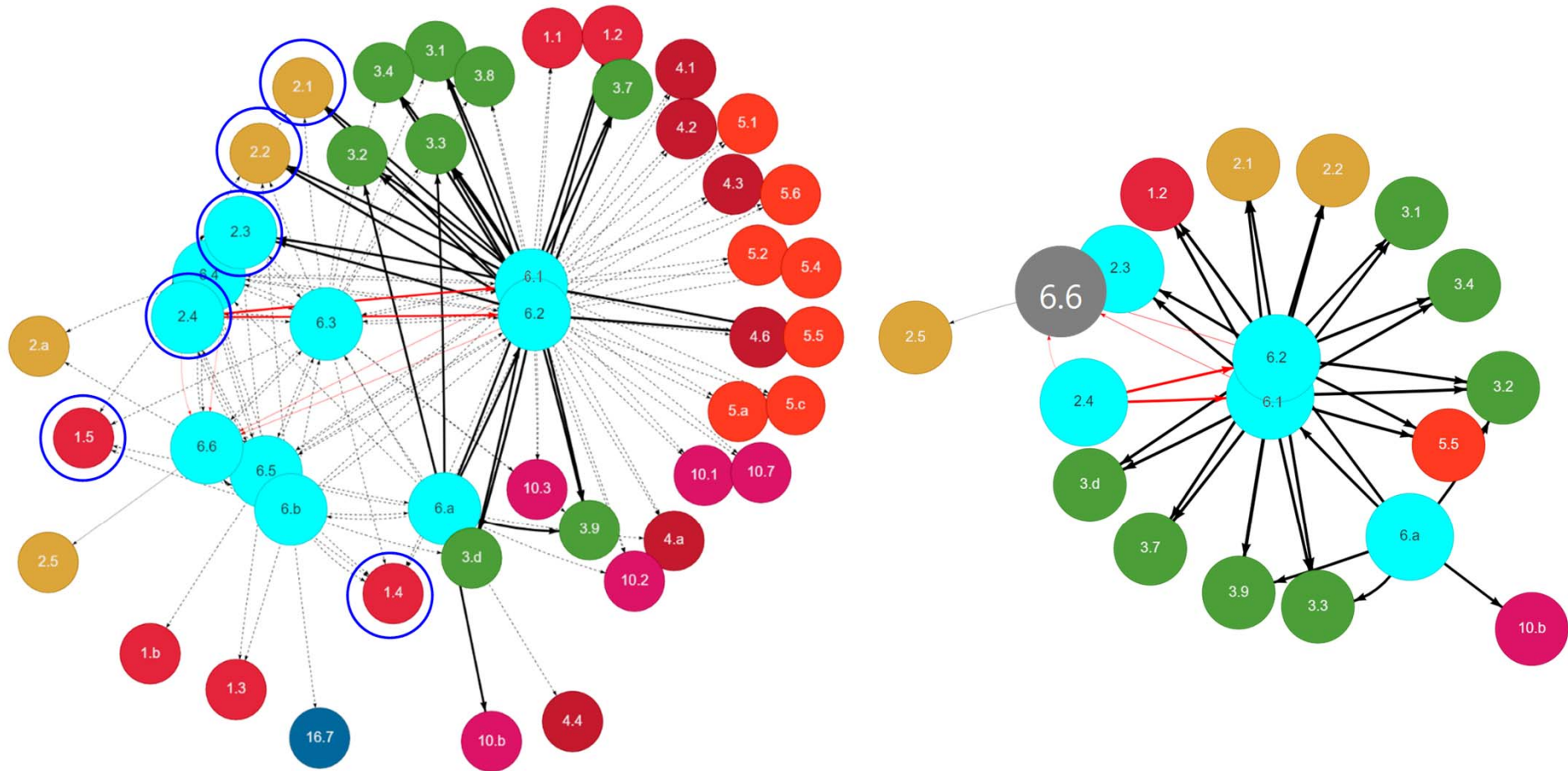
## Interlinkages of Goal 6 with the economic pillar of SDGs (Goals 7, 8, 9, 11 and 12)



Source: SDG Interlinkages Analysis & Visualisation Tool (V3.0) (Zhou, et al., 2019)

Note: i) Each node represents one SDG Target with the fluorescent blue ones indicating the selected targets. ii) Each line with an arrow linking two nodes represents a causal link between two Targets. iii) A solid line in black represents a positive link and a solid line in red represents a negative link. A dotted line indicates that the indicator-level data is not available for relevant targets. iv) The thickness of the line linking two targets indicates the strength of the linkage. v) The node of target in dark color (Target 6.6 in this case) indicates that the target shows a regressive trend.

## Interlinkages of Goal 6 with the social pillar of SDGs (Goals 1, 2, 3, 4, 5, 10 and 16)

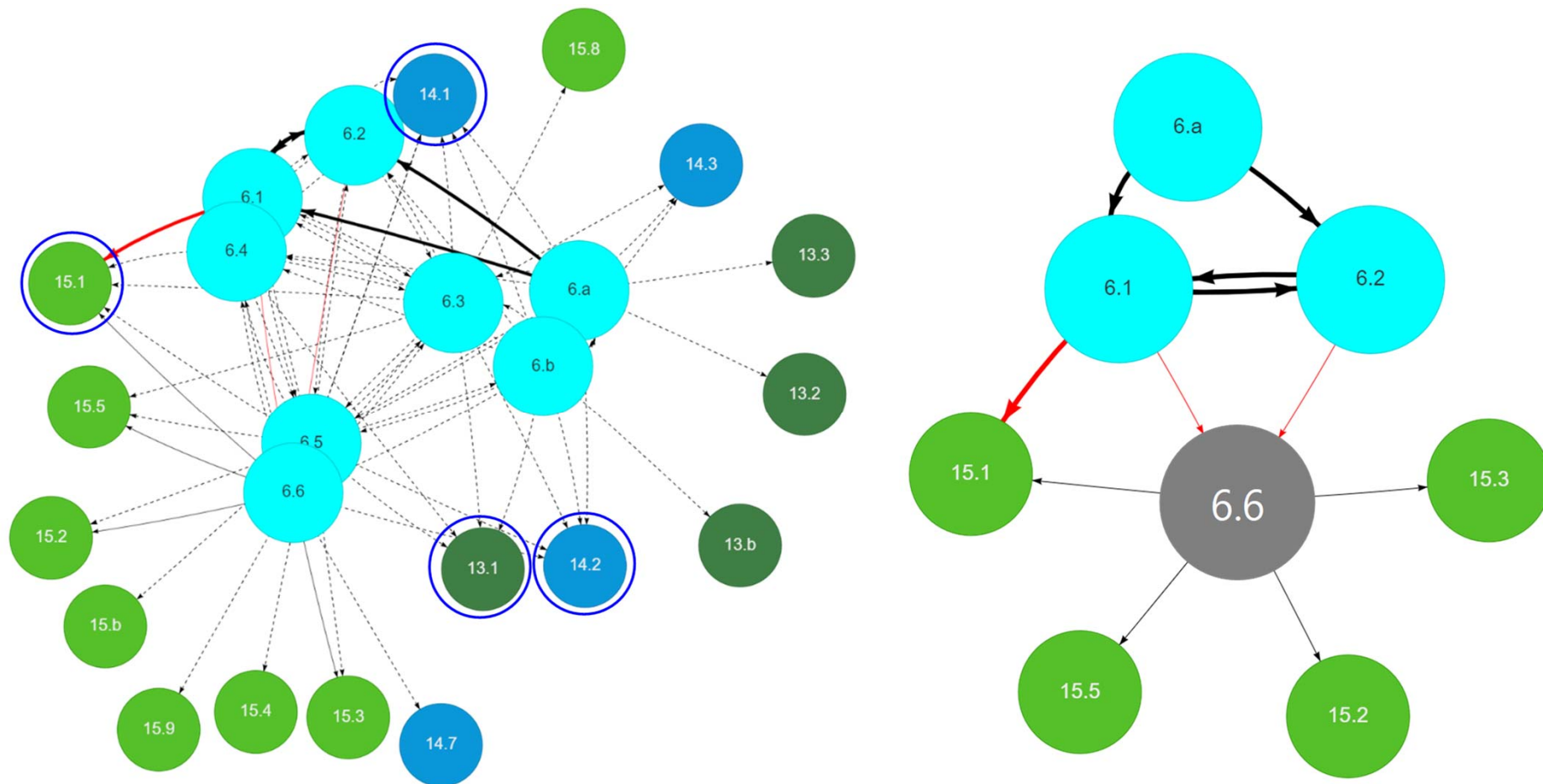


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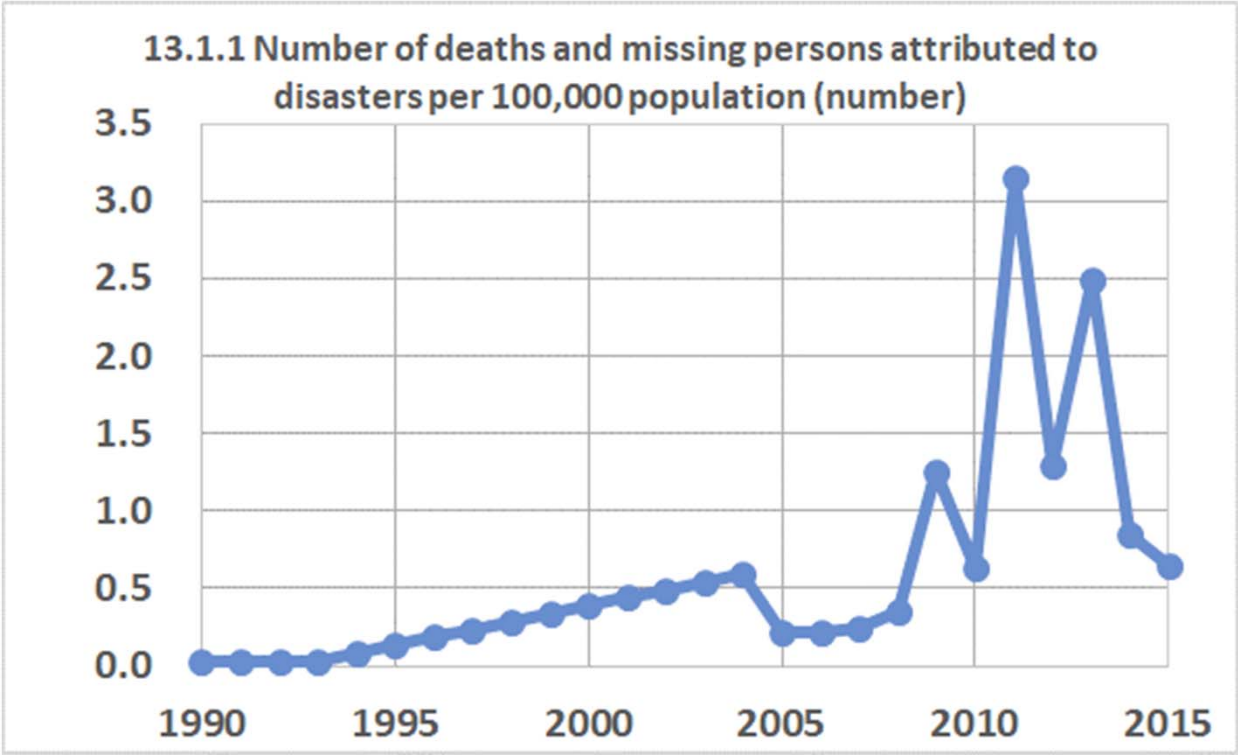
## Interlinkages of Goal 6 with the biospheric pillar of SDGs (Goals 6, 13, 14 and 15)



Source: SDG Interlinkages Analysis & Visualisation Tool (V3.0) (Zhou, et al., 2019)

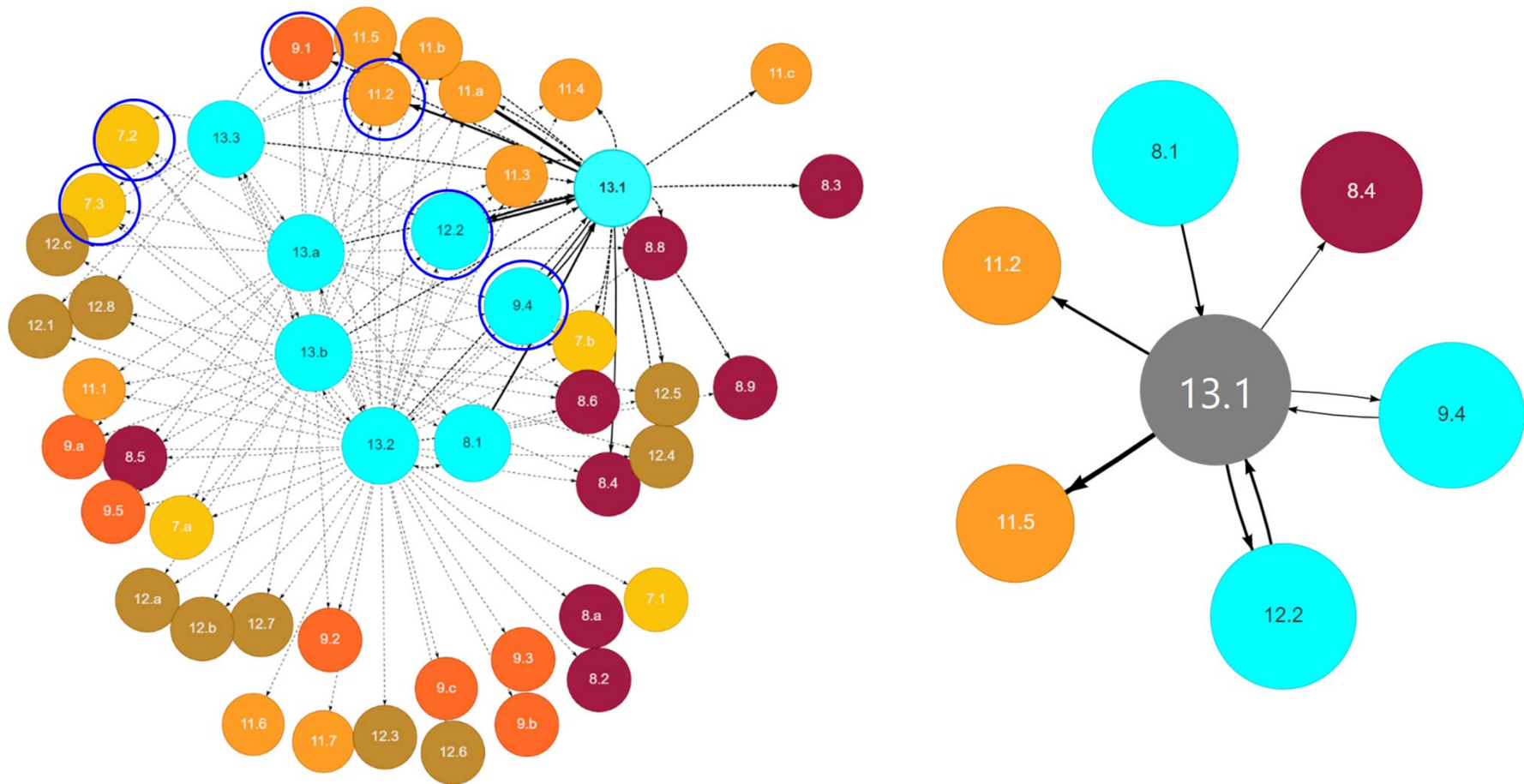
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# Goal 13 Climate actions



Trend of the indicator for Target 13.1

## Interlinkages of Goal 13 with the economic pillar of SDGs (Goals 7, 8, 9, 11 and 12)

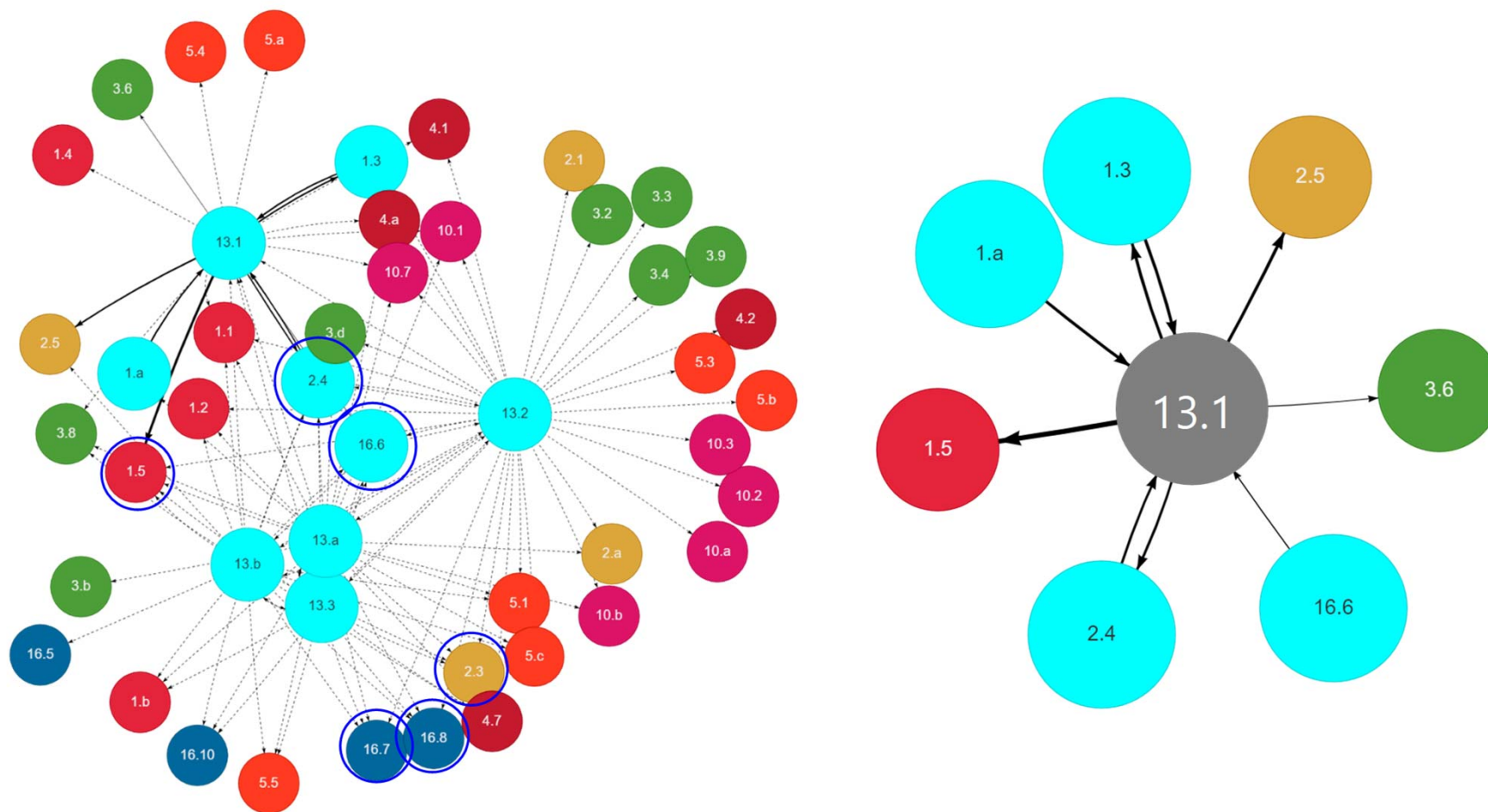


Source: SDG Interlinkages Analysis & Visualisation Tool (V3.0) (Zhou, et al., 2019)

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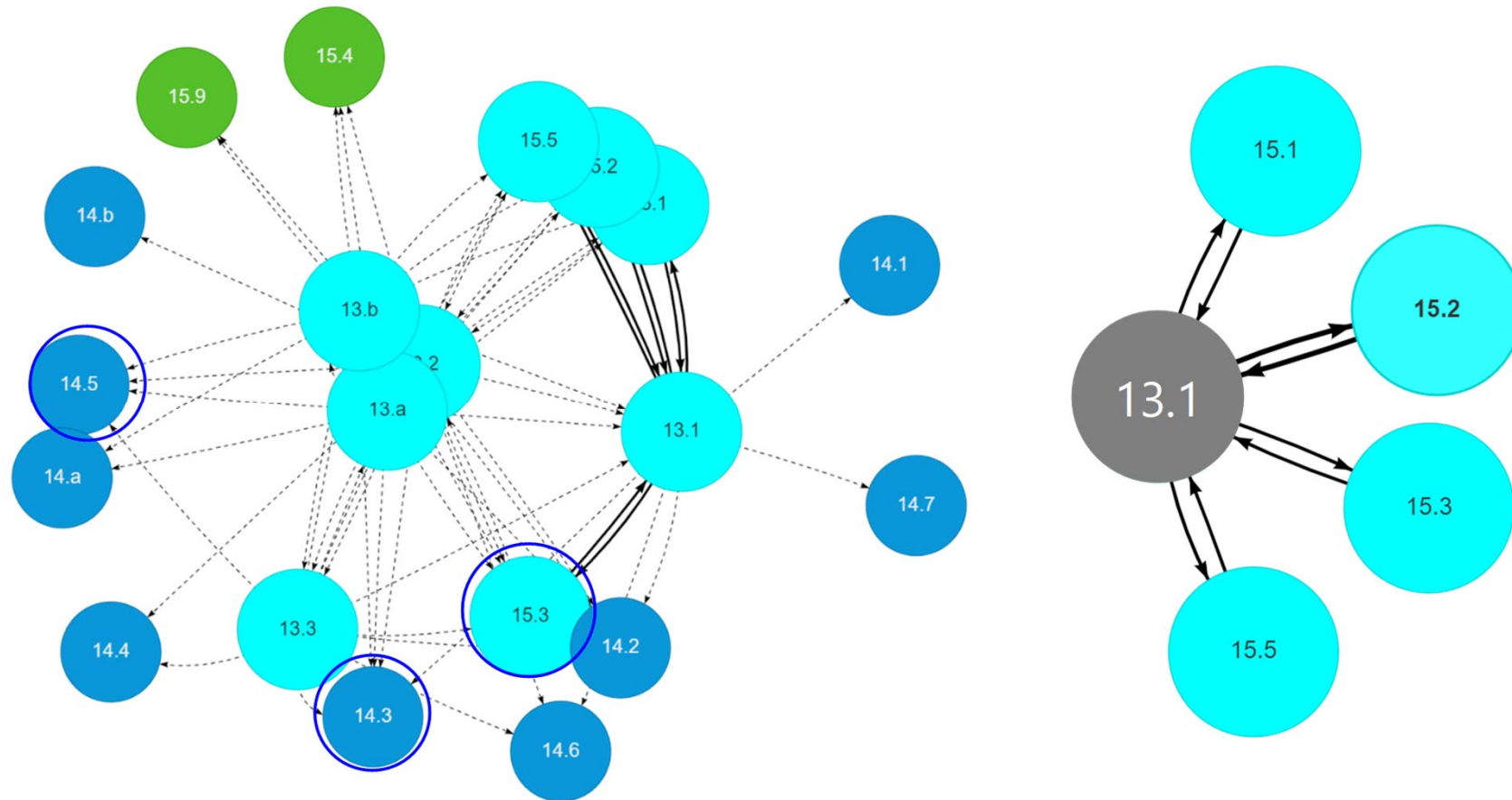
## Interlinkages of Goal 13 with the social pillar of SDGs (Goals 1, 2, 3, 4, 5, 10 and 16)



Source: SDG Interlinkages Analysis & Visualisation Tool (V3.0) (Zhou, et al., 2019)

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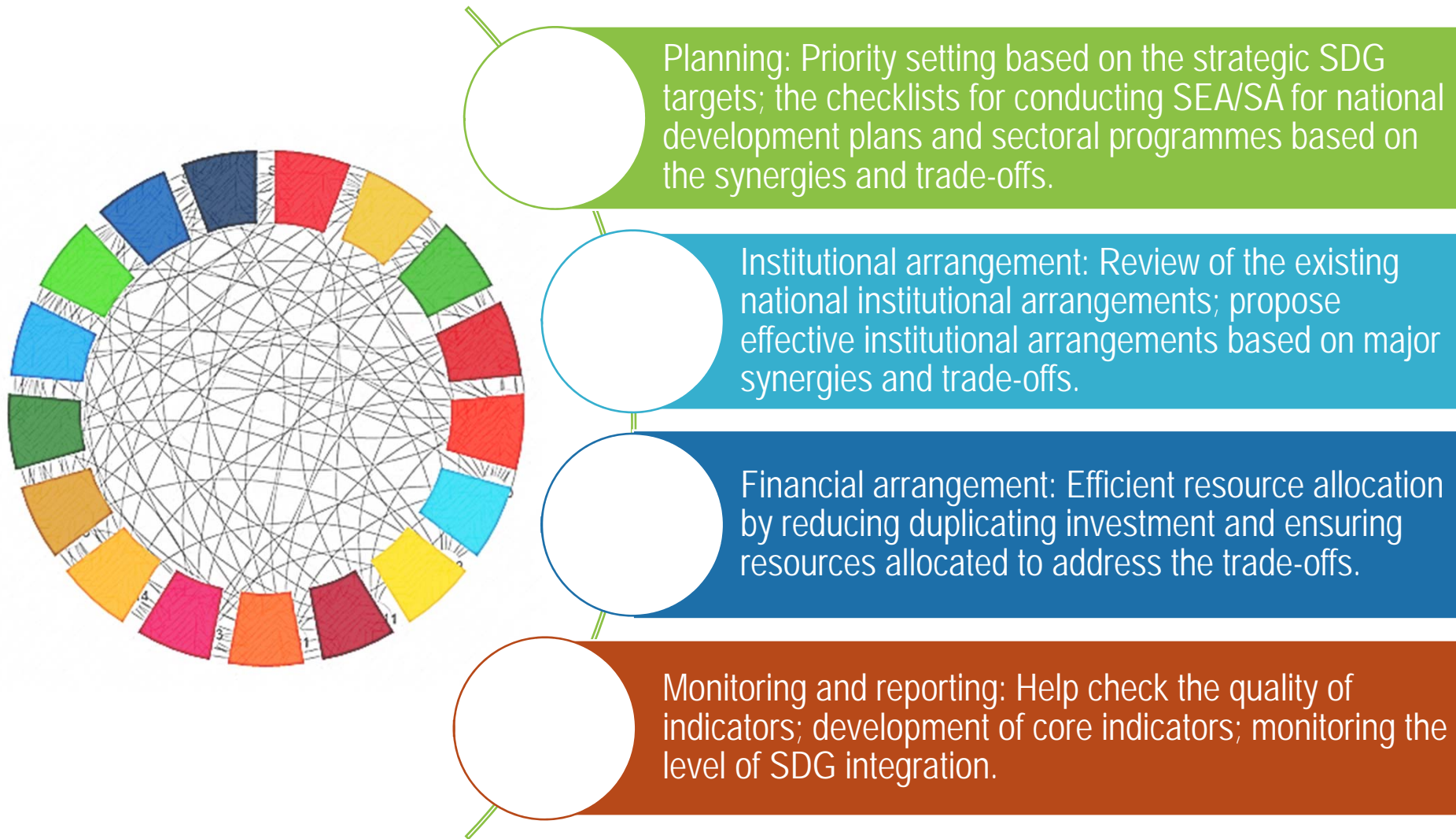
## *Interlinkages of Goal 13 with the biospheric pillar of SDGs (Goals 6, 13, 14 and 15)*



Source: SDG Interlinkages Analysis & Visualisation Tool (V3.0) (Zhou, et al., 2019)

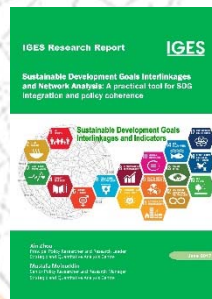
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## ***Applications of the SDG interlinkages tool for SDG integration at different stages of the policy cycle***

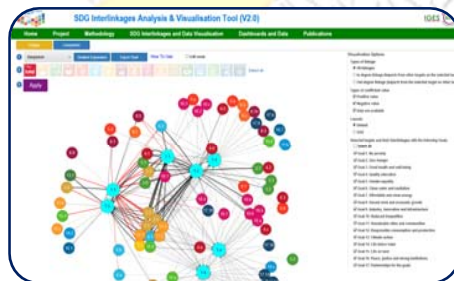


# Thank you!

Contact: [zhou@iges.or.jp](mailto: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](https://sdginterlinkages.iges.jp/files/IGES_Research%20Report_SDG%20Interlinkages_Publication.pdf).



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