

Facilitating the integration of the Sustainable Development Goals (SDG) into West Java's climate strategy development

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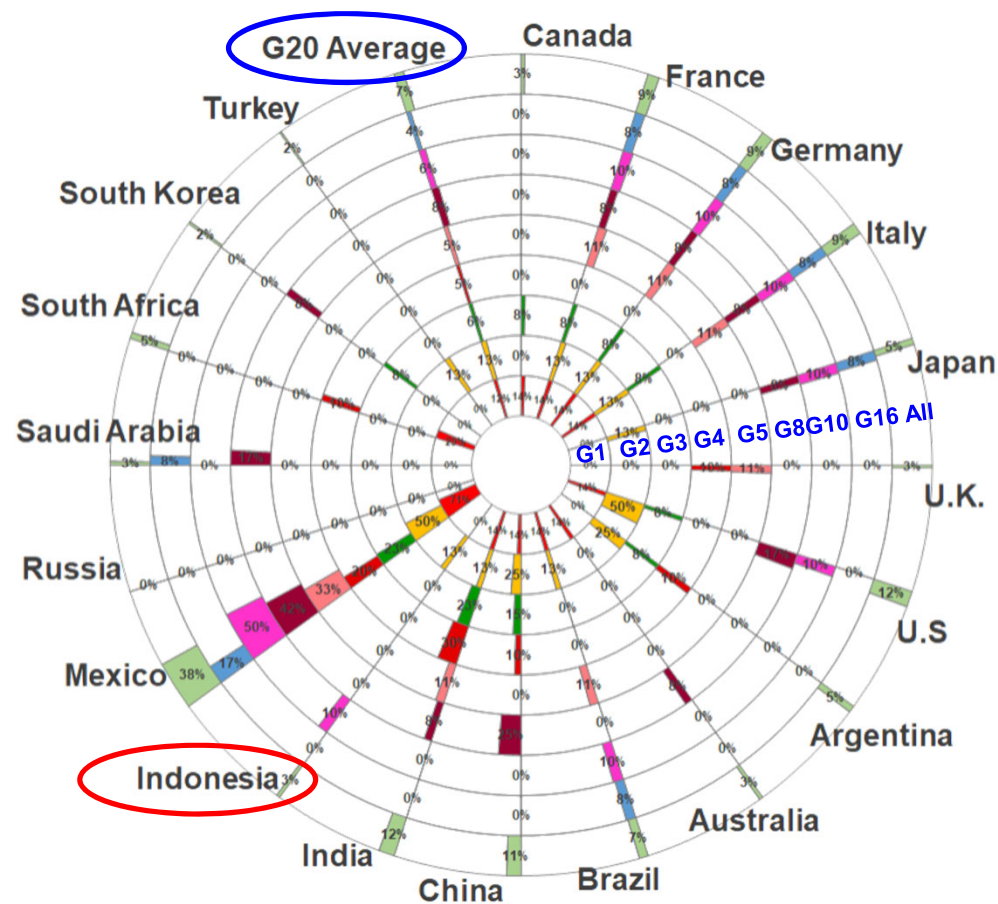
Integrated Sustainability Centre
Institute for Global Environmental Strategies (IGES)

LoCARNet 11th Annual Meeting
17 March 2023, online via zoom

Climate-SDG interactions: Scientific evidence and policy gaps

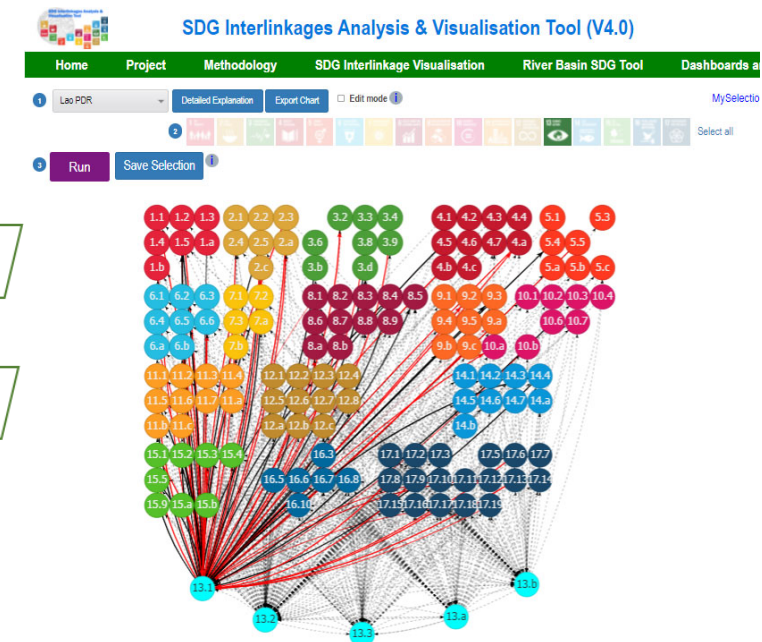
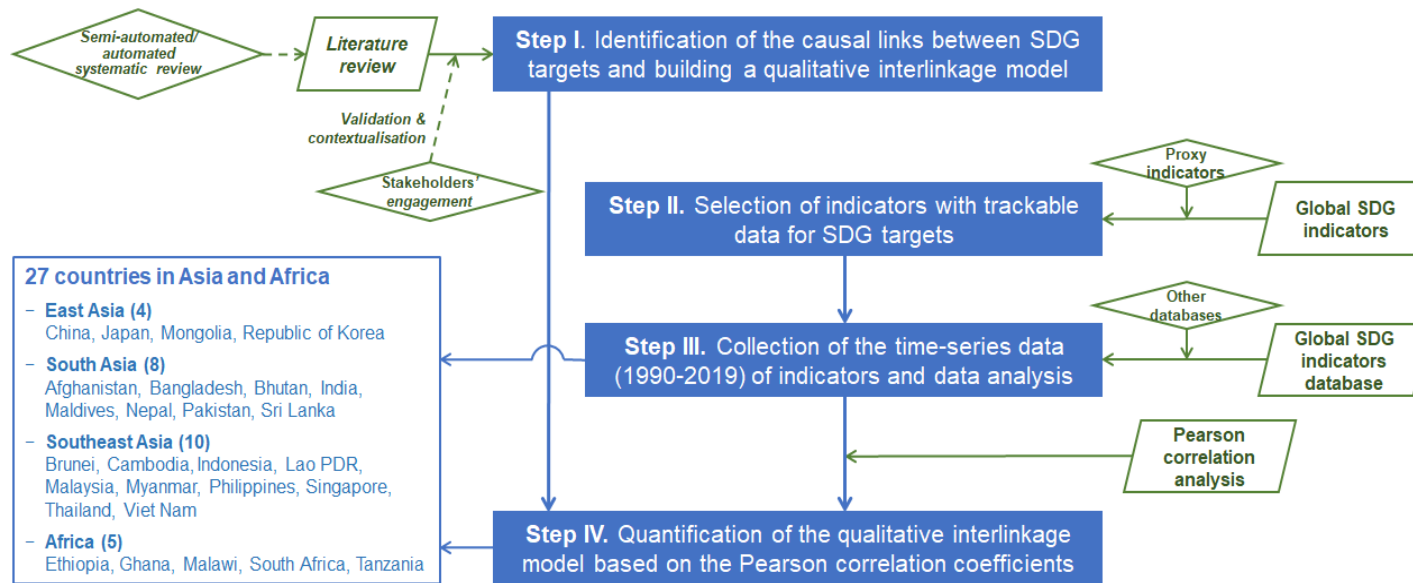
- Clear messages from IPCC AR6 WGIII
 - Equitable climate actions are critical to sustainable development;
 - Climate change actions can also result in trade-offs due to large-scale LULUC and the distributional effects from the transformative systemic changes;
 - The trade-offs could be managed through policy design.
 - The Sustainable Development Goals (SDGs) can be used as a basis for evaluating climate action in the context of sustainable development.

- However, the level of integration of the SDGs, particularly the social dimension of the SDGs, into climate policies (e.g. NDCs in G20 countries) is generally low.
 - Especially low for SDG4 (education), SDG5 (gender), SDG10 (inequalities) and SDG16 (peace and justice).
 - Indonesia: 3% on average and not reflecting SDG1 (poverty), SDG3 (health), SDG4, SDG5, SDG8, and SDG16.

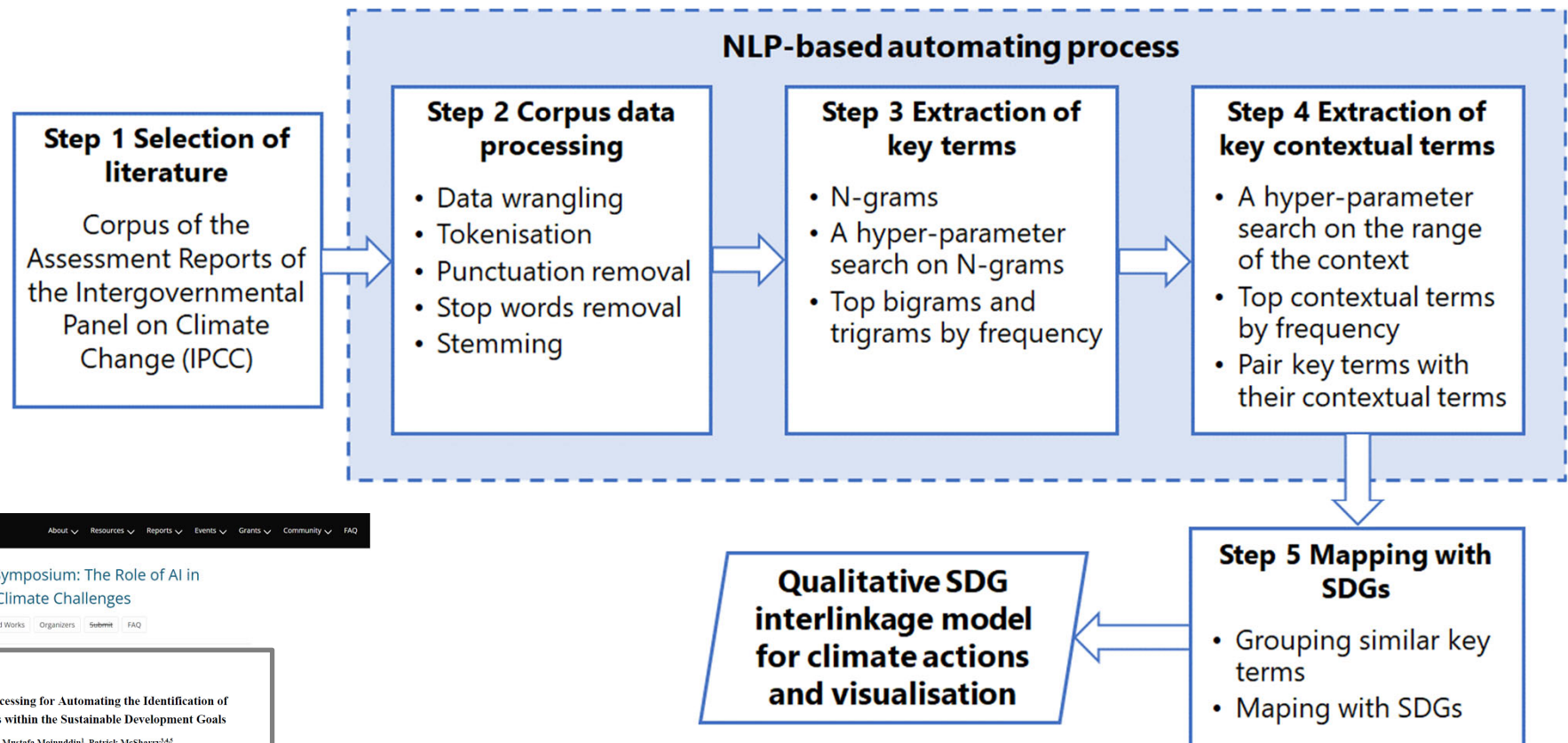


Source: Compiled by Zhou and Moinuddin, 2023.

SDG interlinkages analysis and visualisation tool

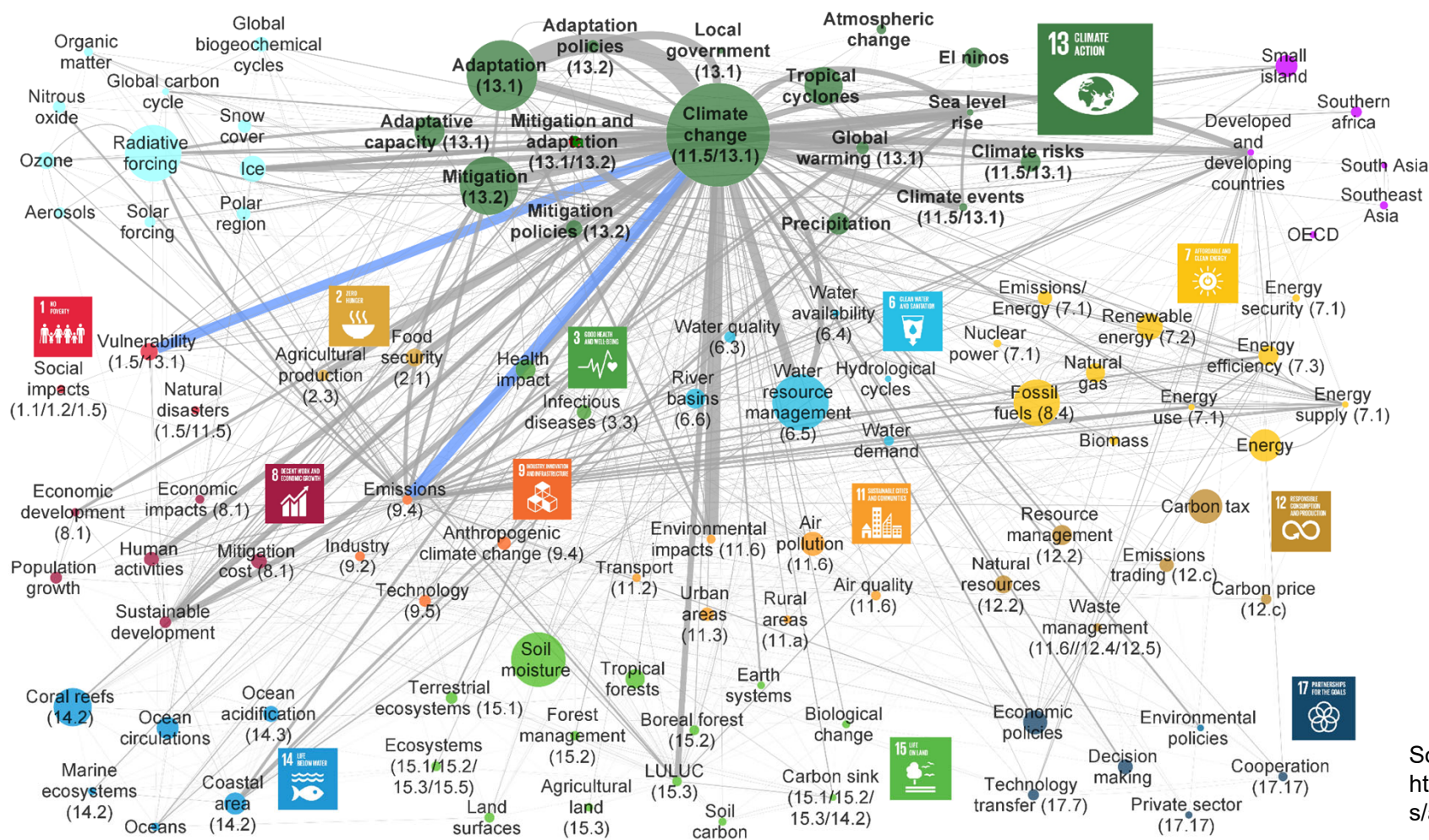


Building a climate-SDG interlinkage model: A systematic review through AI-based NLP techniques



Source: Zhou, et al., 2022.
<https://www.climatechange.ai/papers/aaaifss2022/23>.

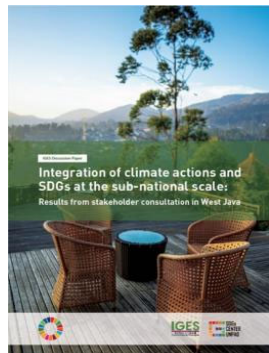
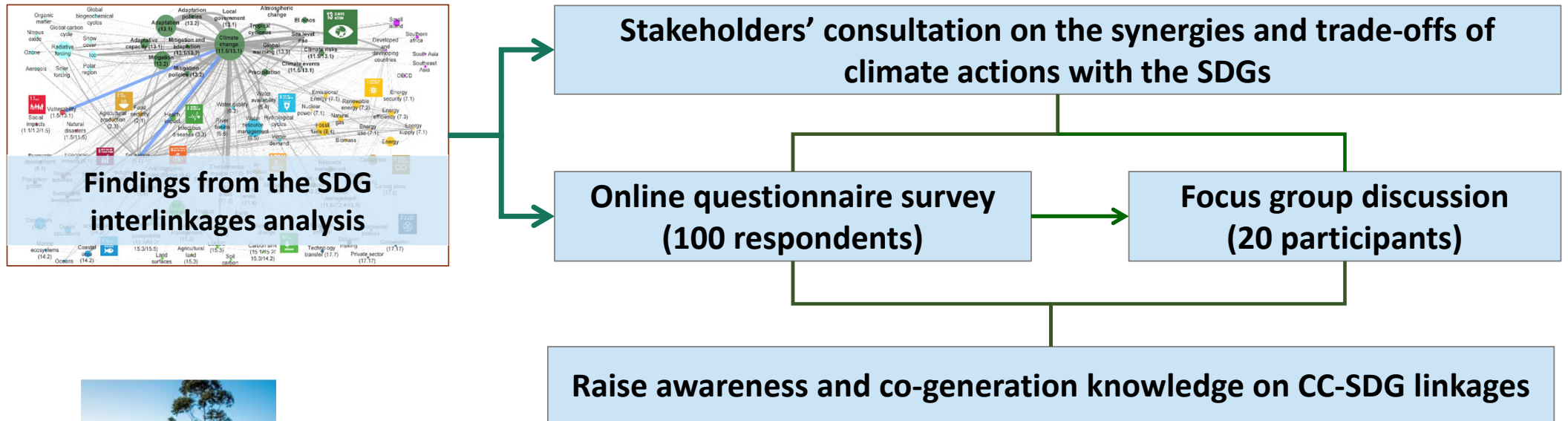
A qualitative SDG interlinkage model for Goal 13 on climate action



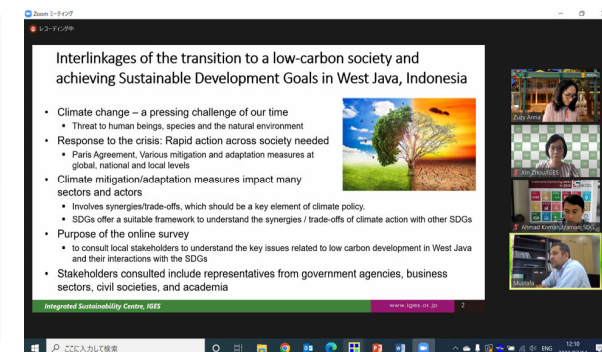
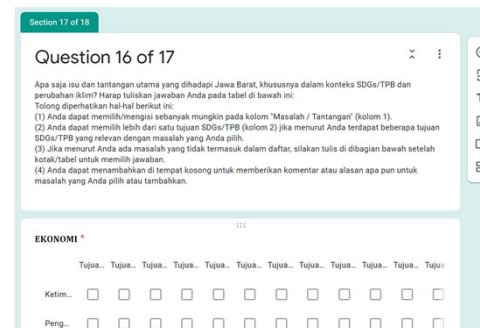
Note: The figure was generated by using Cytoscape. Each node indicates a top term and the size of nodes indicates their frequency. The code in parentheses indicates the corresponding SDG targets. The edge indicates a linkage between paired terms. The width of an edge indicates the frequency of the paired terms.

Source: Zhou, et al., 2022.
<https://www.climatechange.ai/papers/aaaifss2022/23>.

Facilitating the integration of the SDGs into West Java's climate strategy development: Stakeholder consultation



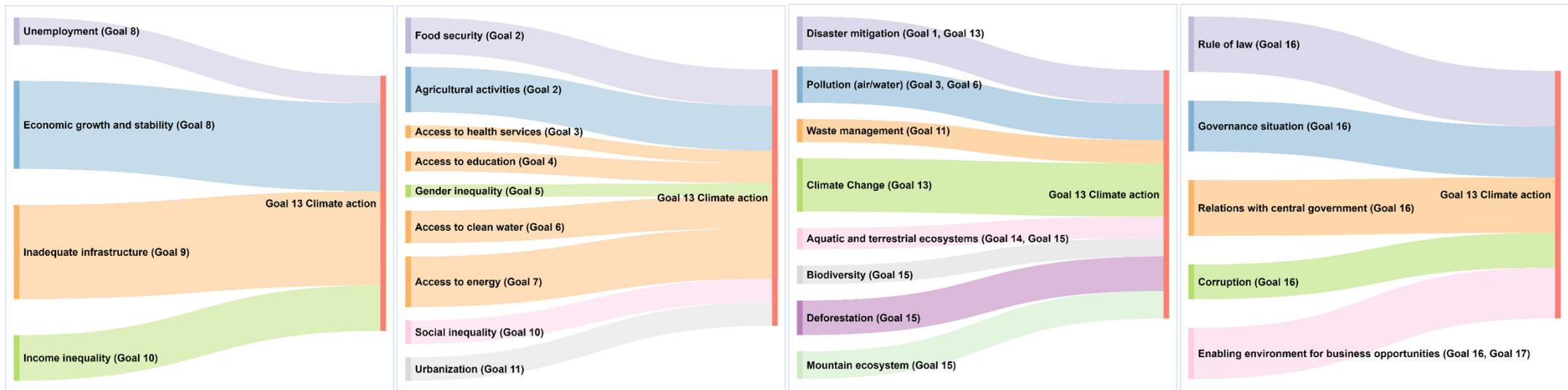
Source: Moinuddin et al. (2021)



Key issues and problems identified at the FGD meeting

| Economy | Society | Environment and climate change | Governance |
|---|--|--|--|
| <ul style="list-style-type: none"> • Low human resources quality. • Lack of job opportunity. • Dependence of economic sector of informal activities. • Low concern to environmentally safe development approaches. • Economic development inequality | <ul style="list-style-type: none"> • High poverty rate. • Low human resources quality due to low education service quality. • Social and economic inequality. • Gender inequality. • Inequality in access to education. | <ul style="list-style-type: none"> • Pollution-related problems (industrial waste and domestic waste) • Major resource-use related problems • Conservation-related problems • Other environmental problems | <ul style="list-style-type: none"> • Corruption is the most important problem in West Java. • It is strongly correlated with low integrity of the personnel of West Java Government. |

Key economic, social, environmental and governance linkages with climate change actions in West Java



ECONOMY

All four key economic issues – especially infrastructure and economic growth and stability – are linked with SDG 13 on climate action.

SOCIETY/COMMUNITY

Many social issues are linked with climate actions (almost 30% respondents highlighting access to energy as a major area)

ENVIRONMENT

Environmental issues linked with climate actions and other SDGs. Climate action itself was linked with health, water, poverty and hunger, energy, and biodiversity.

GOVERNANCE

Rule of law and relations with the central government are highly relevant in West Java's climate actions

Key messages

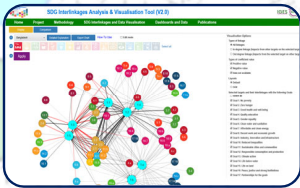
-  Synergistic objectives of climate actions and sustainable development
 - Integration and co-development and co-implementation needed
-  Importance of stakeholder consultations in policy integration
 - Co-design the integrated approach based on the local contexts: socio-economic and biophysical characteristics, priorities/challenges facing the region within broader national development plans.
-  Significance of the integration of the SDGs into climate strategy in West Java
 - Distributional effects: Small and medium-sized enterprises, informal sectors and low-income groups;
 - Human capital enhancement and capacity building;
 - Economic stability and jobs;
 - Social dimensions: Food security, access to basic services (water, energy, education, and health), and inequalities in income and gender;
 - Good governance and vertical integration.

Proposal for strengthening stakeholder engagement in FY2023

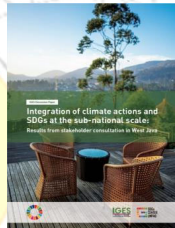
- 🌐 A meeting with ITB on January 27th, IGES Tokyo Office.
- 🌐 Stakeholder engagement through consultations and capacity building
 - To identify the key issues related to climate change, LTS and the SDGs in West Java;
 - To raise awareness on the synergies and trade-offs between LTS and the SDGs;
 - To identify the entry points for the integration of the SDGs into the LTS in West Java, such as gender, jobs, education, and informal sectors, etc.
 - To jointly build knowledge and develop policy options on the integration of the SDGs into the LTS in West Java;
 - To create ownership of the local stakeholders on LTS development.
- 🌐 Organisations
 - Survey, FGD and interviews;
 - Capacity building workshop.
- 🌐 Stakeholders
 - Local and national governmental representatives (BAPPENAS, Ministry of Energy and Mineral Resources and other relevant ministries, BAPPEDA, DLH, City Office, Provincial Government etc.);
 - Other policymakers;
 - Academicians;
 - Think Tanks, NGOs (including business sector, women's group, SMEs, youth group, local communities).

Thank you!

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Zhou, X., Moinuddin, M., Li, Y., 2021. SDG Interlinkages and Data Visualisation Web Tool. Hayama: IGES. Available at: <https://sdginterlinkages.iges.jp/visualisationtool.html>.



Moinuddin, M., Zhou, X., Anna, Z., & Satriatna, B., 2021. "Integration of Climate Actions and SDGs at the Sub-National Scale: Results from Stakeholder Consultation in West Java." Discussion Paper. Institute for Global Environmental Strategies, Hayama. <https://doi.org/10.57405/iges-11837>.



Zhou, X., Jain, K., Moinuddin, M., & McSharry, P., 2022. Using Natural Language Processing for Automating the Identification of Climate Action Interlinkages within the Sustainable Development Goals. Proceedings of the 2022 Fall Symposium on the Role of AI in Responding to Climate Challenges, Association for the Advancement of Artificial Intelligence (AAAI). 17–19 November 2022, Arlington, Virginia, USA. <https://www.climatechange.ai/papers/aaaifss2022/23>.