## Appendix 2.

## Table A2.1. Codebook.

Code categories	Coding information	
General informati		
Telecoupling topic	Description: the main telecoupling topic of the visualization, based on its content and the figure caption.  Options: 'commodity trade', 'land acquisition', 'conservation', 'water transfer', 'tourism', 'species migration', 'other', or 'combined topics'.  Instructions: one option is to be selected	
Data source type	Description: the type of data that served as input to the visualization. Options: 'primary', 'secondary', 'both', or 'data source not clear'. Instructions: one option is to be selected, and the methods section is to be consulted in addition to the visualization.	
Nodes		
Node type	Description: the type of content that the visualized nodes represent.  Options: 'systems', 'actors', 'action situation', or 'other'.  Instructions: multiple options can be selected, e.g. if different options apply for different nodes.	
Node representation	Description: Visual encoding strategy used for the visualized nodes Options: 'mark' or 'link attribute'.  Instructions: multiple options can be selected, e.g. if different options apply for different nodes.	
Spatial explicitness of nodes	Description: Spatially explicit representation of visualized node information.  Options: 'yes' or 'no'.  Instructions: multiple options can be selected, e.g. if different options apply for different nodes.	
Links		
Link type	Description: The type of content that the visualized links represent.  Options: 'flows', 'interactions', 'relations', 'similarity', or 'not defined'.  Instructions: multiple options can be selected, e.g. if different options apply to different links. Flow mediums (e.g. roads or canal infrastructure) are coded under 'flows'.	
Link representation	Description: Visual encoding strategy used for the visualized links.  Options: 'mark' or 'node attribute'.  Instructions: multiple options can be selected, e.g. if different options apply to different links.	

Spatial explicitness of links	Description: Spatially explicit representation of visualized link information.  Options: 'yes' or 'no'.  Instructions: multiple options can be selected, e.g. if different options apply to different links.
Systems	
System boundary type	Description: types of system boundaries are used to delineate the visualized systems and indication of whether or not there is a reference to a geographical location.  Options: 'world/rest of the world', 'world regions', 'supra-national governance unit', 'national governance unit', 'sub-national governance unit', 'spatial zoning', 'local governance unit', 'ecosystem-based', 'economic sectors/supply chains', 'other social-economic', topographic-hydrological', or 'other'.  Coding instructions: multiple options can be selected, e.g. if different options apply to different systems. This code category only applies to those cases where systems have been identified.
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Geographic location of	Description: Indication of whether the systems are presented in a location-specific way or not.
system	Options: 'location-specific' or 'non-location-specific'.  Coding instructions: multiple options can be selected, e.g. if different options apply to different systems. This code category only applies to those cases where systems have been identified.
System boundary	Description: Specific information about the nature of the system boundaries of the visualized systems.
detailed	Coding instructions: Indicate how the visualized systems are delineated, e.g. 'breeding sites in Mexico'. This code category only applies to those cases where systems have been identified.
Internal system elements and dynamics	Description: Presence of information about any elements and/or dynamics within any of the visualized systems.  Options: 'yes' or 'no'.
	Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified.
Internal system elements: actors	Description: Presence of information about actors within any of the visualized systems.  Options: 'yes' or 'no'.
	Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified.

Internal system Description: Presence of information about causes within any of the visualized systems. elements: causes Options: 'yes' or 'no'. Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified. Internal system Description: Presence of information about effects within any of the elements: visualized systems. effects Options: 'yes' or 'no'. Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified. Description: Explicit reference to sending and receiving system types System types: sending and in visualization or visualization caption. receiving Options: 'yes' or 'no'. systems Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified. System types: Description: Explicit reference to spillover system types in visualization or visualization caption. spillover systems Options: 'yes' or 'no'. Coding instructions: one option is to be selected. This code category only applies to those cases where systems have been identified. Flows Flow content Description: The type of content that the visualized flows represent. type Options: 'material', 'capital', 'energy', 'humans', 'non-human living beings', 'information', 'virtual resources', 'virtual risks and benefits' 'ecosystem services', 'not specified'. Coding instructions: multiple options can be selected. This code category only applies to those cases where flows have been identified. Flow content Description: Specific information about the content of the flows that detailed are visualized. Coding instructions: Indicate which contents the visualized flows

## Other visualization characteristics

Visualization	Description: Predominant chart type used for the visualization.
techniques	Coding instructions: Indicate the visualization techniques used.
	Multiples can be listed, e.g. in case of a hybrid.

cases where flows have been identified.

represent, e.g. 'remittances'. This code category only applies to those

Visual attributes	Description: Visual attributes (cf. Figure 1) used in the visualization. Coding instructions: Take note of specific uses of visual attributes and which information the represent.

Temporal Description: any temporal reference given for the information explicitness of visualization presented in the visualization, either in the visualization or its caption.

Options: 'yes' or 'no'.
Coding instructions: one option is to be selected.

Comparison Description: Presentation of data across different moments in time.

Options: 'yes' or 'no'.

Coding instructions: one option is to be selected.