United Nations Framework Convention on Climate Change

Workstream 3.2: Development-first systems approach to the assessments

LEG regional training workshop on national adaptation plans (NAPs) for Asian countries

10-14 August, 2015, Yangon, Myanmar

Least Developed Countries Expert Group (LEG)

Objectives:

a) To understand the workstream concept (using an example workstream)

b) To produce a sample workstream e.g. for the next 5-10 years.

c) To identify key elements and outputs and outcomes for the sample workstream.

d) To identify adaptation options for the selected systems, for use in the next phase of the exercise to appraise and rank adaptation

e) To get insight in how definitions of the systems can take many forms (multi-sectoral cross-cutting issues; sectoral approaches, specific place admin units), which will define the frameworks/methodologies which can be used.

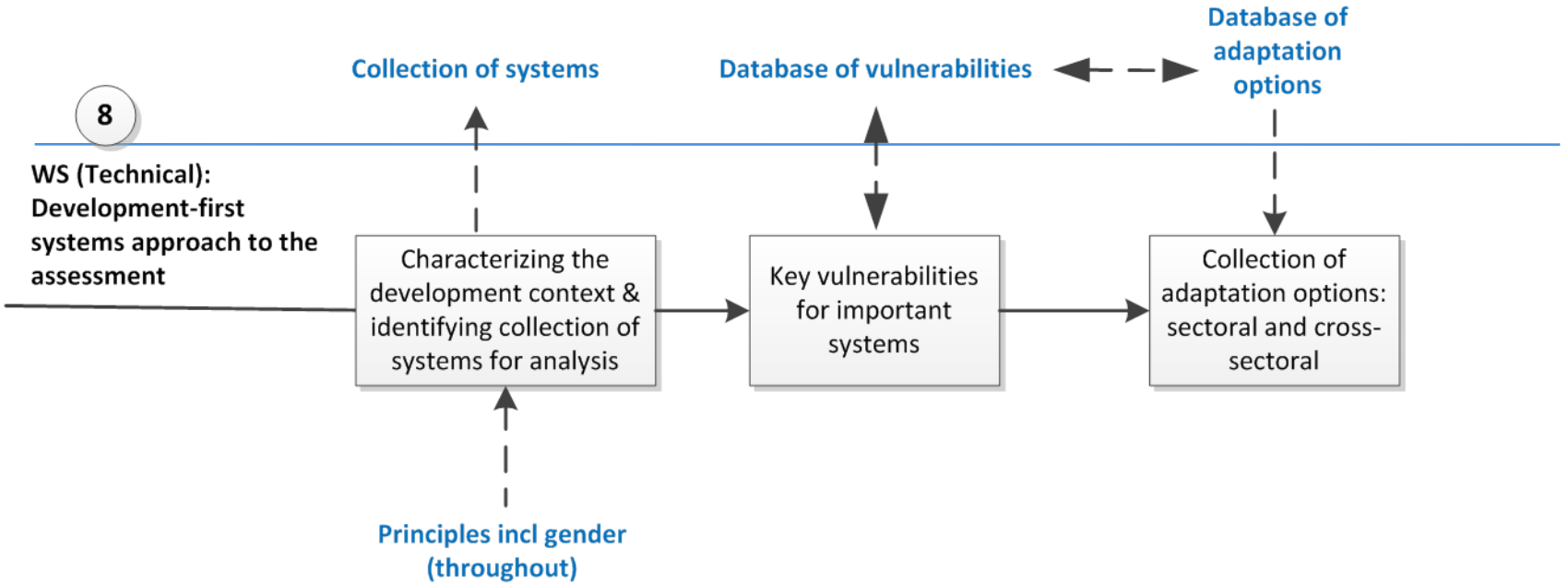
Terms of reference for the parallel workstream group

Mechanics of the parallel group

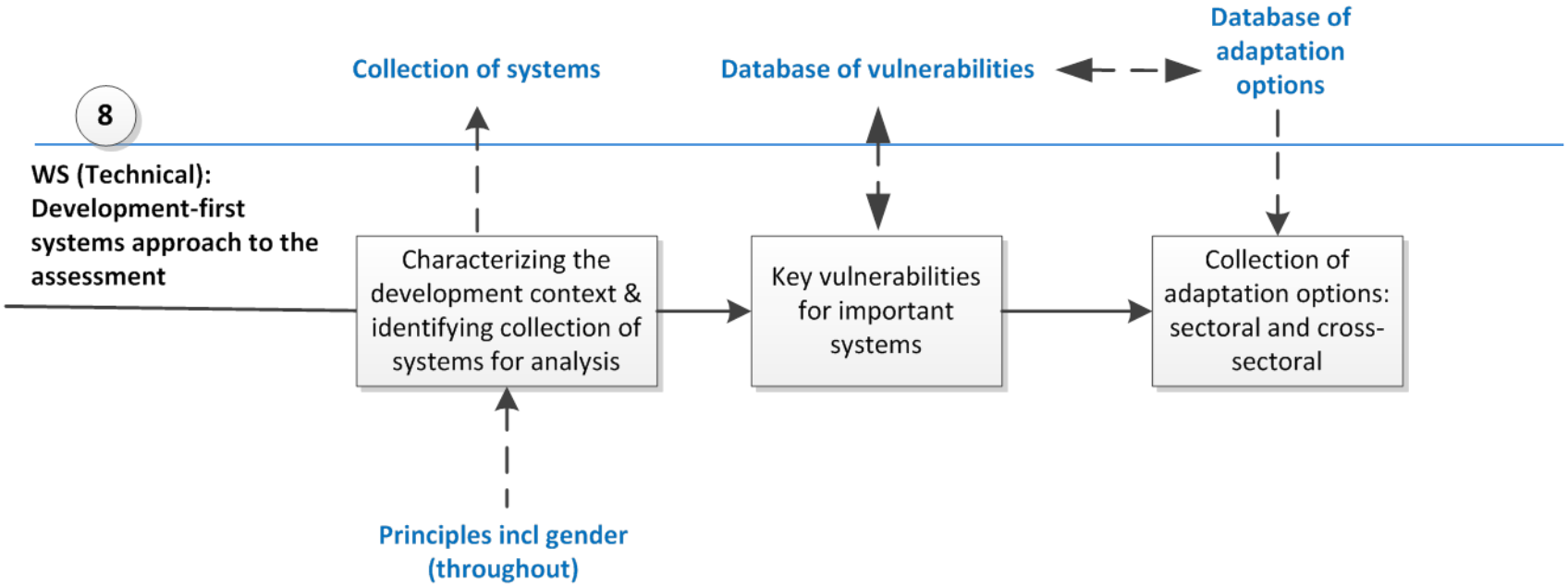
- Select a facilitator and rapporteur
- LEG member will present the objectives and overview of the particular workstream example, addressing how it fits in the whole process
- Presentations from the LEG, practical experiences from countries and organizations during the groupwork to add examples
- The facilitator will ensure an open and interactive session to arrive at the outputs of the session
- Produce outputs listed in the objectives by focusing on
  a) key elements and outputs and outcomes for the sample workstream
  b) adaptation options for the selected systems

Note: Please agree on a schedule to complete the work within the time allocated

Time	Agenda
10:00 – 10:30	Introduction to WS 2: Development-first systems approach to assessments: Discussion of the case study: what is expected at the end of the day?
10:30 – 16:00	Overview presentations and exercises to define
	- **Development context** for the virtual country for the case study (mind map) showing key sectors and themes - Consideration of **input from WS 3** on main climate change projections for the region - Background information on basic systems for assessment - group to **choose a collection of these systems** for the study - **Describe** a selection of these systems with input from organizations (CCAFs on agric prod; UNEP IEMP on ecosystems) - **Explore key vulnerabilities** for the selected systems - **Identify adaptation options** to address key vulnerabilities of the systems
16:00 – 17:30	Consolidation of outputs of the workstream
17:30 – 18:00	Re-convene in plenary for wrap-up for the day

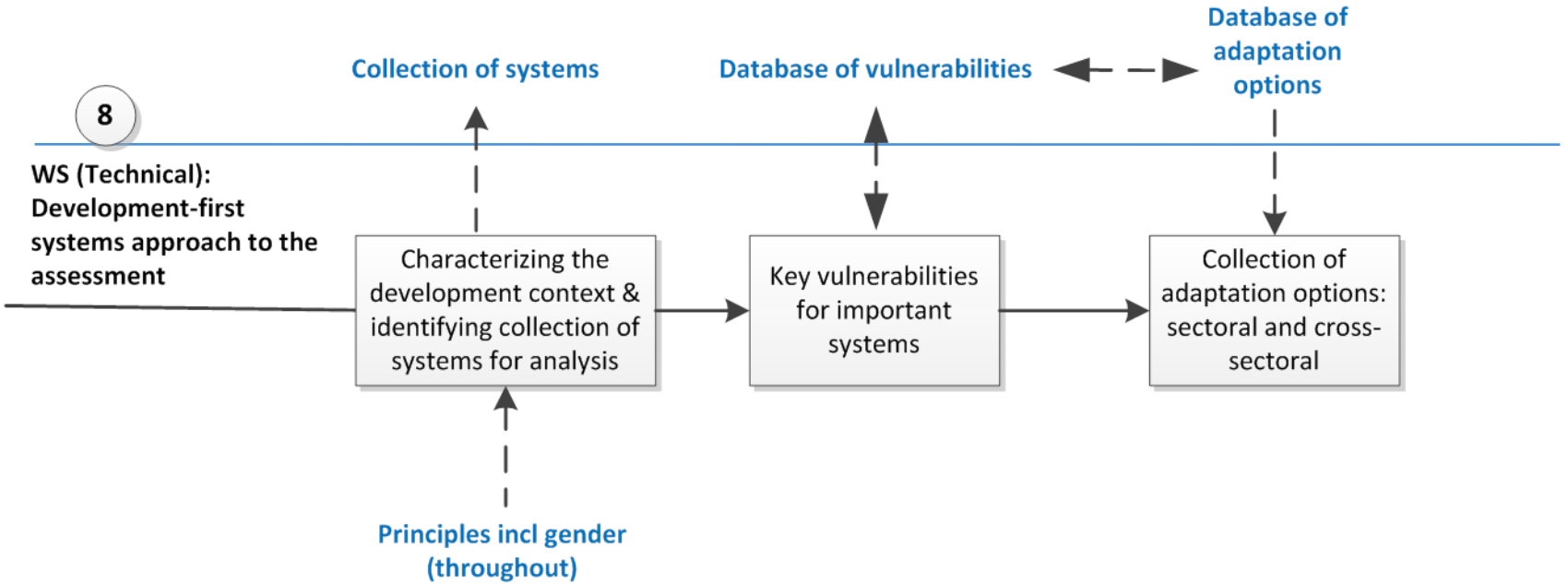


- **Development context** for the virtual country for the case study (mind map) showing key sectors and themes
  - Develop a mind map of the development process for the case study region/country
- **Output: Mind map of the development context**

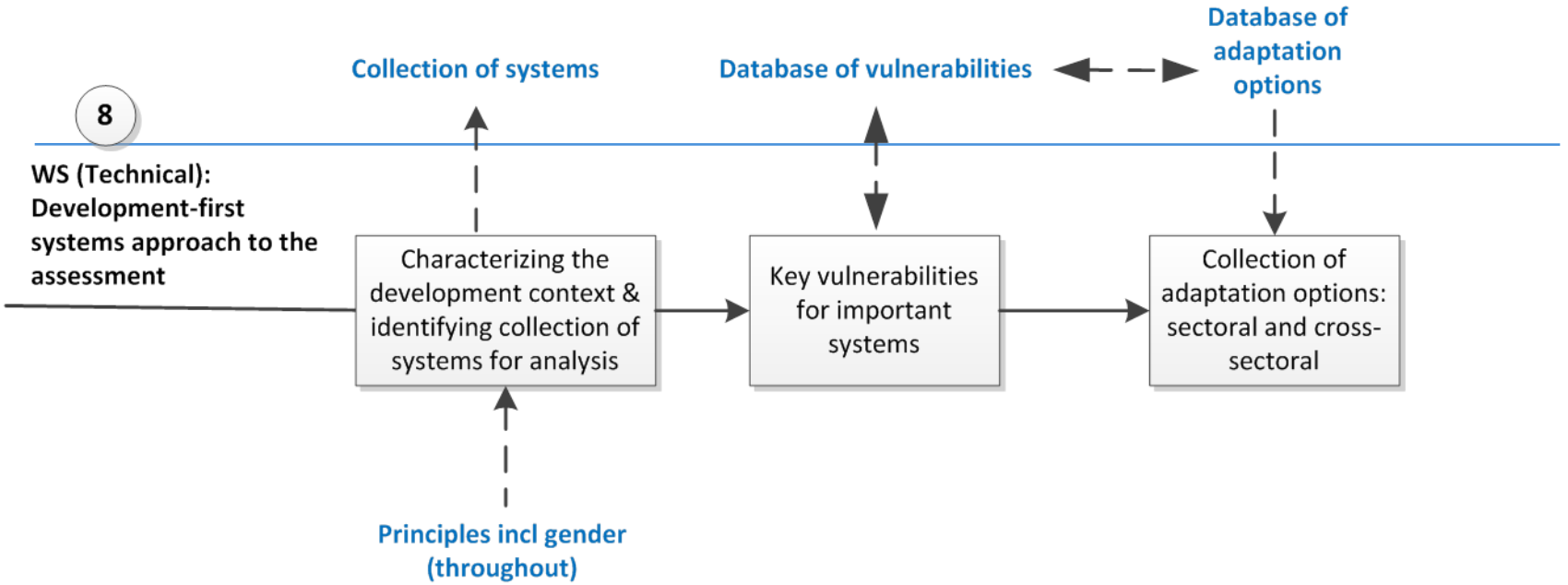


- Describe main systems of selected priority sectors/issues - a few and elaborate …and link to data and knowledge systems (use mind maps/diagraming)

- **Output: Diagrams of a few basic systems**



- Consider **input from WS 3** on main climate change projections for the region

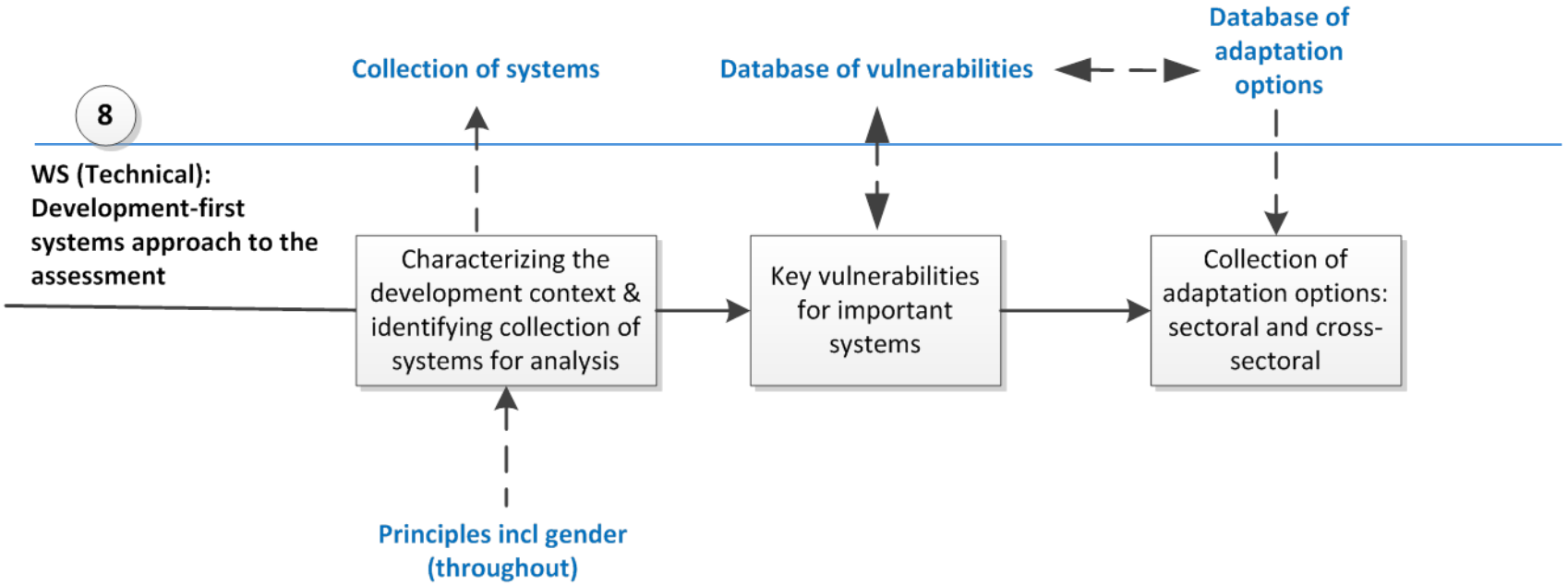


- Consider background information on basic systems for assessment - group to **choose a collection of these systems** for the case study

- **Describe** a selection of these systems with input from organizations – use diagramming/mind maps, to show basic system structure, and links to climate drivers (bearing in mind that the collection of systems will depend on the region of interest, whether an urban area, county/district, province or state, whole country or region – systems can overlap and many will be nested)

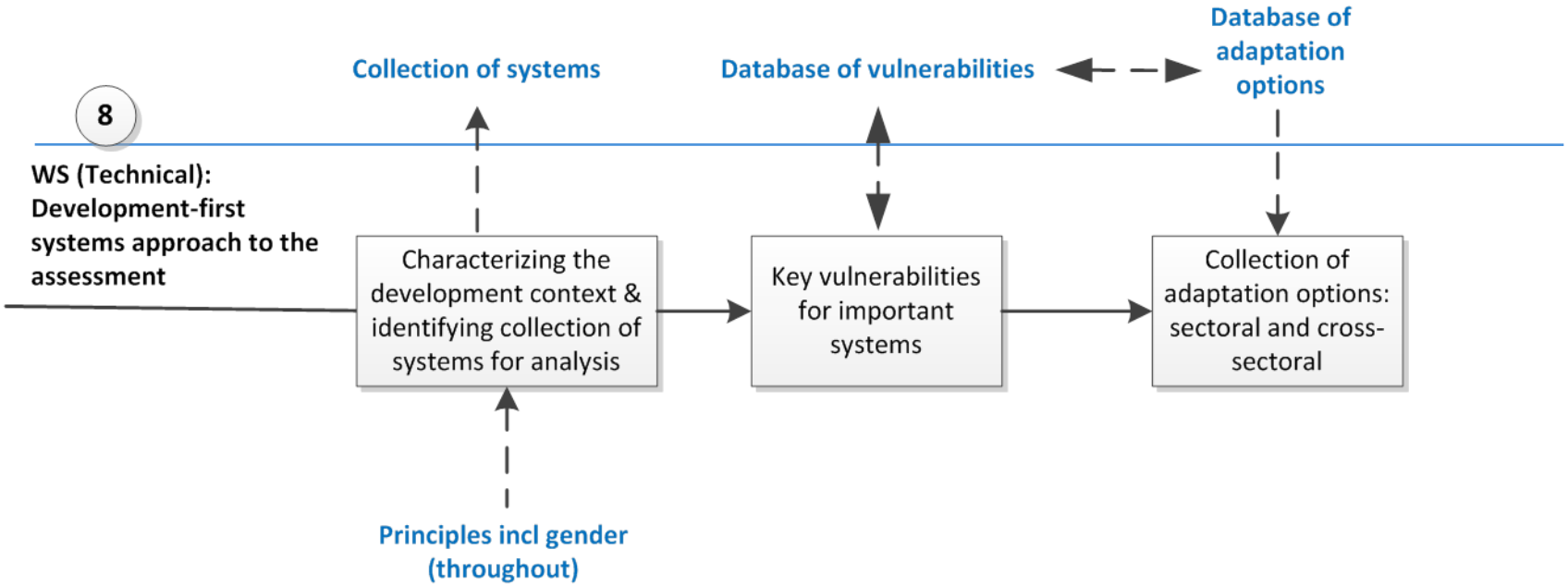
- **(Associate a risk and V&A framework for each of the systems)**

- **Output: Diagrams of a selection of systems**



- **Explore key vulnerabilities** for the selected systems based on projected changes

- **Output: Table of key vulnerabilities by climatic factor for selected systems**



- **Identify adaptation options to address the key vulnerabilities for each of the systems**

- **Output: List of adaptation options (add contextual information in terms of factors to consider when implementing – e.g. scale issues, time taken to develop a solution, major constraints (e.g. technology), etc**

Contact:

The Chair
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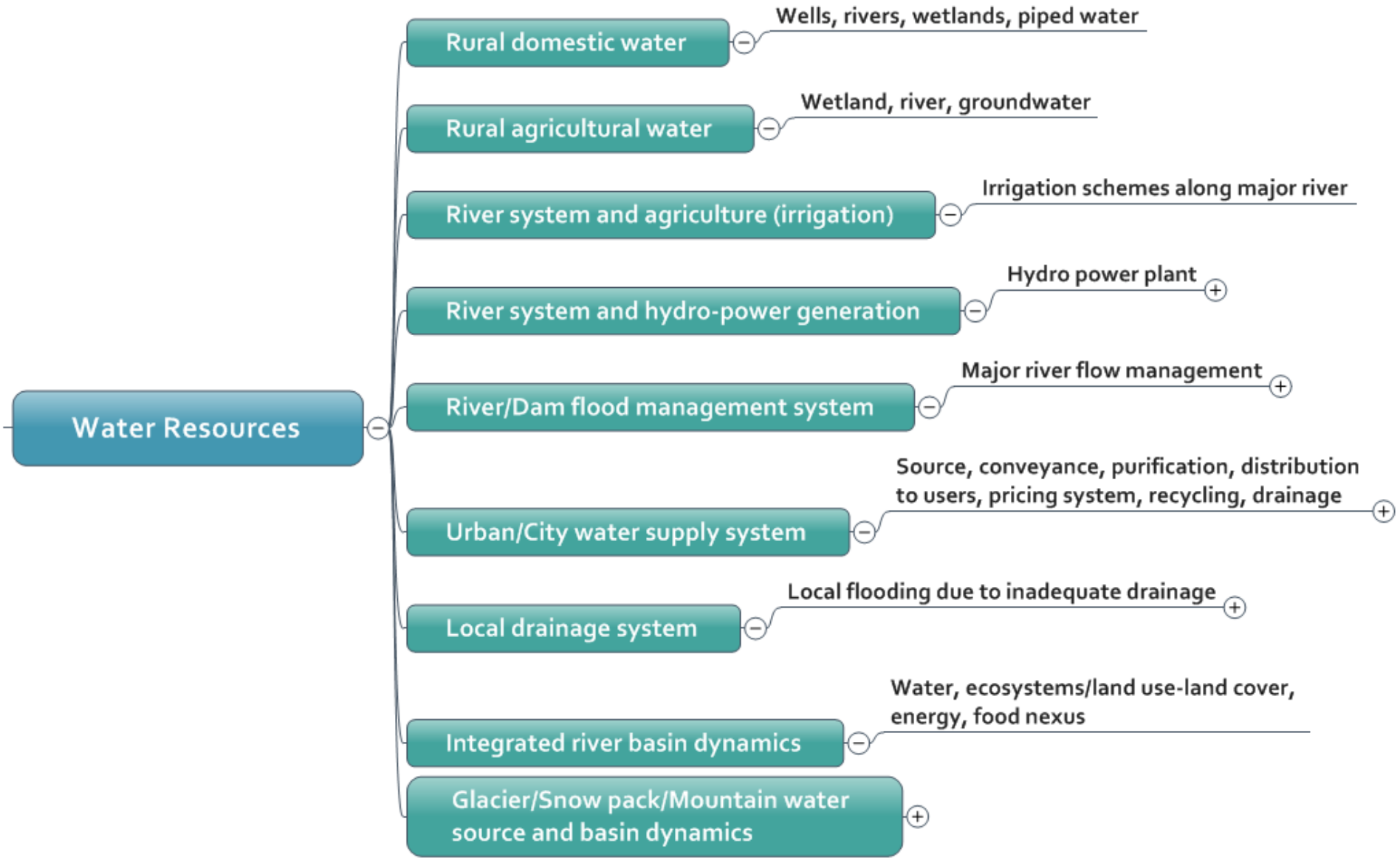
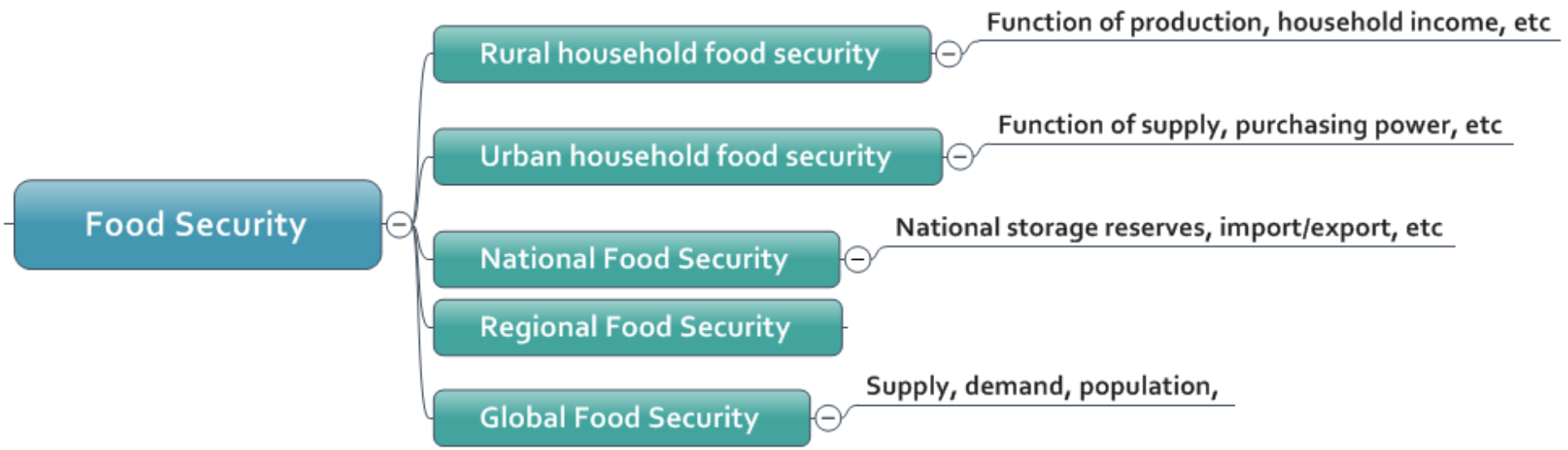
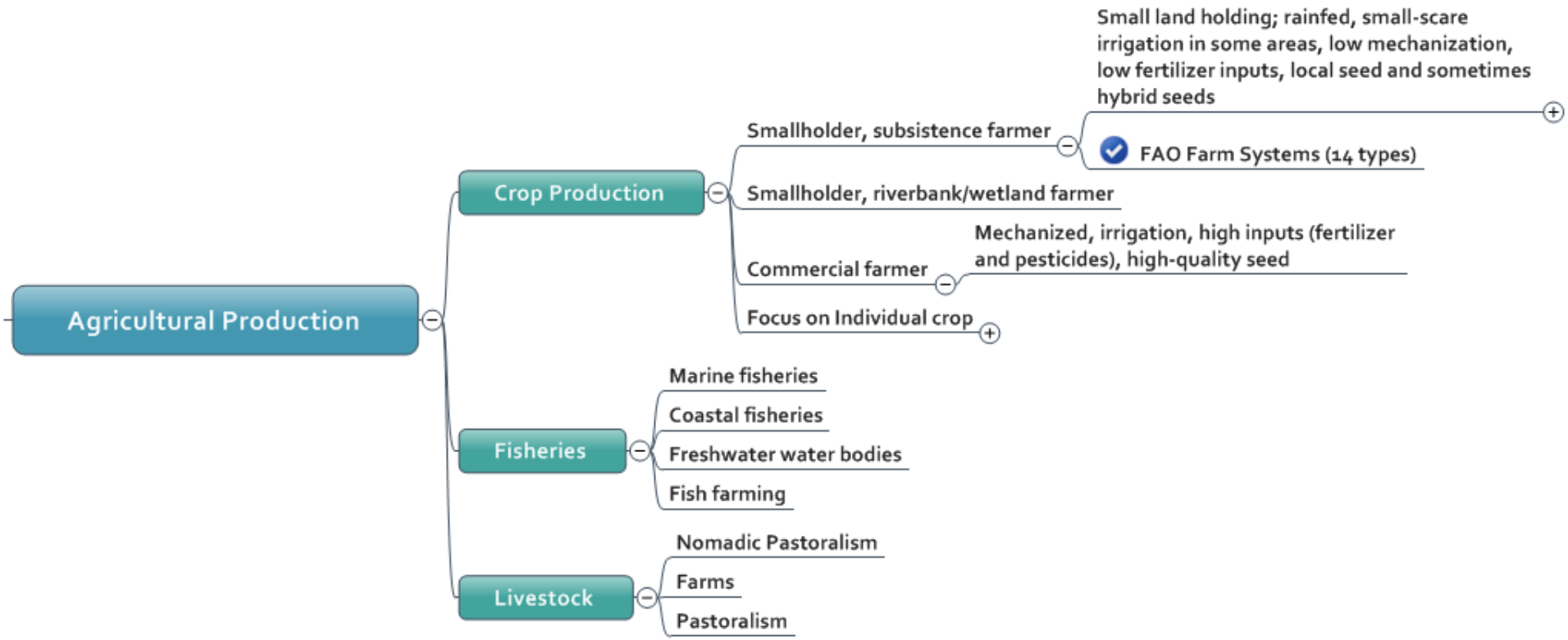
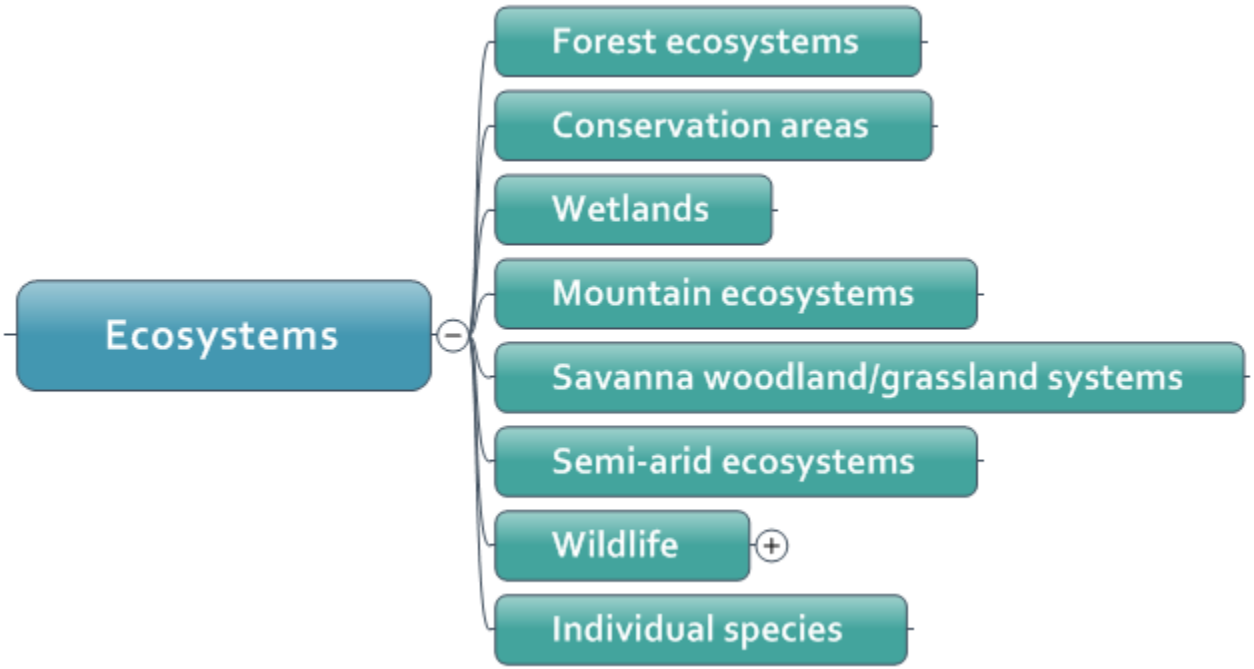
Collection of systems for the assessment framework

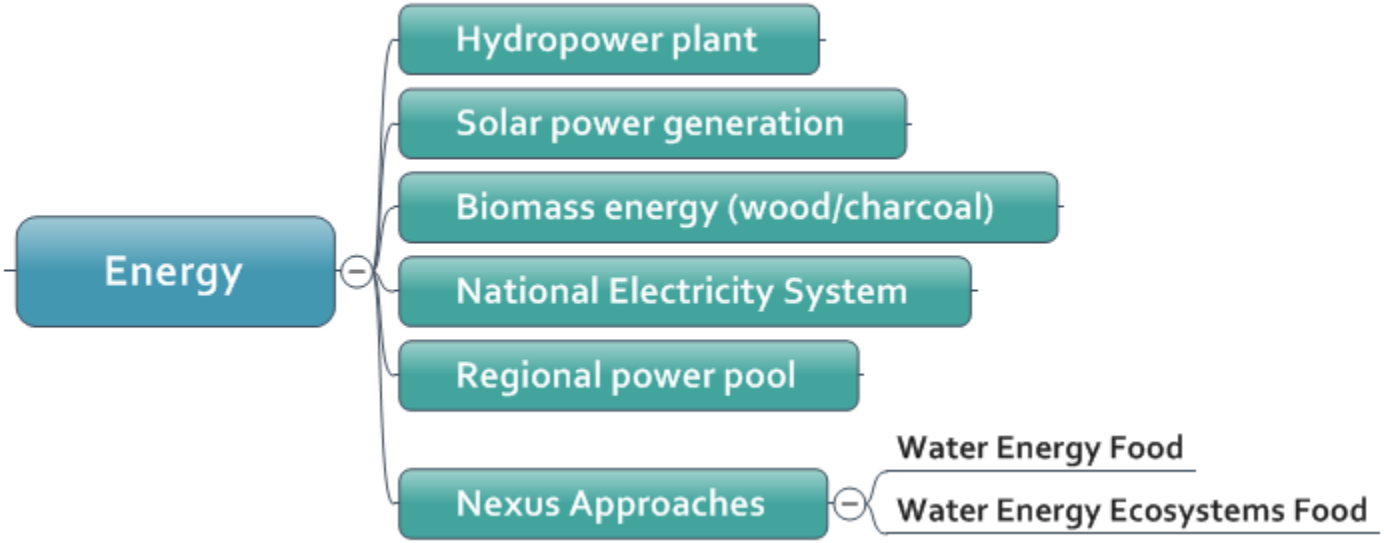
LEG member

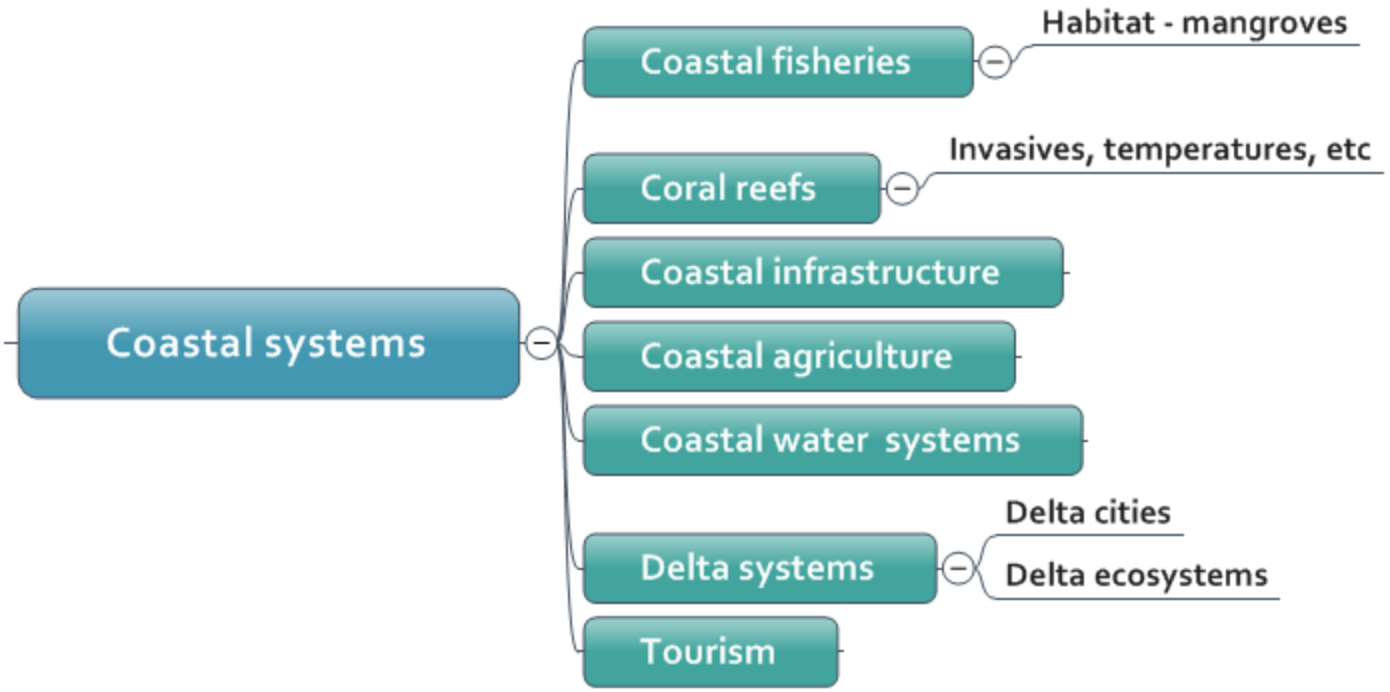

Water Resources
Rural domestic water
Wells, rivers, wetlands, piped water
Rural agricultural water
Wetland, river, groundwater
River system and agriculture (irrigation)
Irrigation schemes along major river
River system and hydro-power generation
Hydro power plant
River/Dam flood management system
Major river flow management
Urban/City water supply system
Source, conveyance, purification, distribution to users, pricing system, recycling, drainage
Local drainage system
Local flooding due to inadequate drainage
Integrated river basin dynamics
Water, ecosystems/land use-land cover, energy, food nexus
Glacier/Snow pack/Mountain water source and basin dynamics

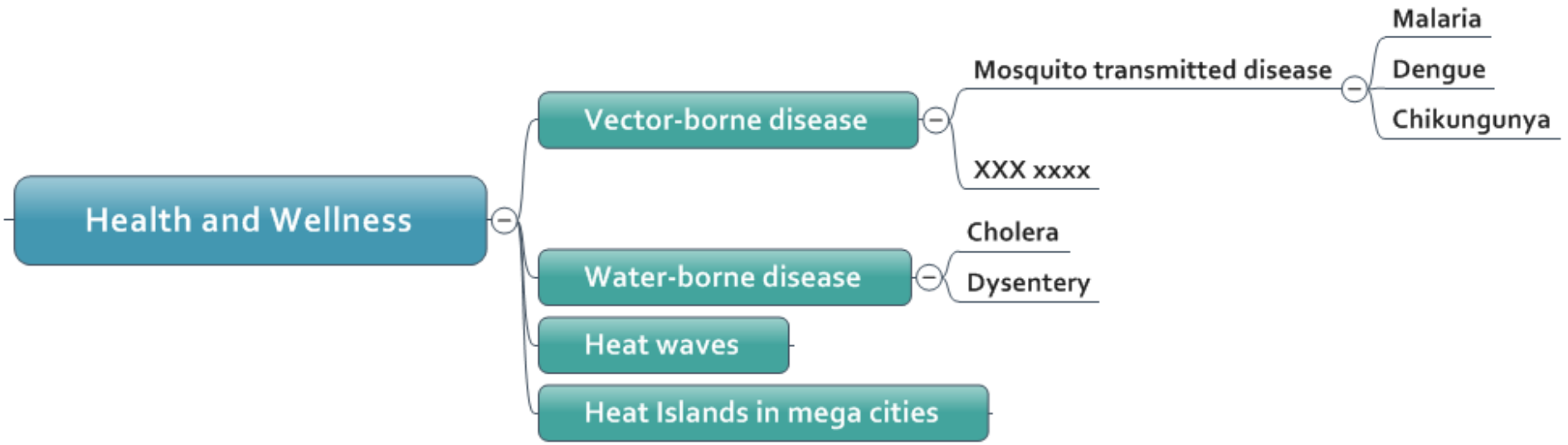

Food Security
Rural household food security
Function of production, household income, etc
Urban household food security
Function of supply, purchasing power, etc
National Food Security
National storage reserves, import/export, etc
Regional Food Security
Global Food Security
Supply, demand, population,


Agricultural Production
Crop Production
Smallholder, subsistence farmer
Small land holding; rainfed, small-scare irrigation in some areas, low mechanization, low fertilizer inputs, local seed and sometimes hybrid seeds
FAO Farm Systems (14 types)
Smallholder, riverbank/wetland farmer
Commercial farmer
Mechanized, irrigation, high inputs (fertilizer and pesticides), high-quality seed
Focus on Individual crop
Fisheries
Marine fisheries
Coastal fisheries
Freshwater water bodies
Fish farming
Livestock
Nomadic Pastoralism
Farms
Pastoralism


Ecosystems
Forest ecosystems
Conservation areas
Wetlands
Mountain ecosystems
Savanna woodland/grassland systems
Semi-arid ecosystems
Wildlife
Individual species


Energy
Hydropower plant
Solar power generation
Biomass energy (wood/charcoal)
National Electricity System
Regional power pool
Nexus Approaches
Water Energy Food
Water Energy Ecosystems Food


Coastal systems
Coastal fisheries
Habitat - mangroves
Coral reefs
Invasives, temperatures, etc
Coastal infrastructure
Coastal agriculture
Coastal water systems
Delta systems
Delta cities
Delta ecosystems
Tourism


Health and Wellness
Vector-borne disease
Mosquito transmitted disease
Malaria
Dengue
Chikungunya
XXX xxxx
Water-borne disease
Cholera
Dysentery
Heat waves
Heat Islands in mega cities

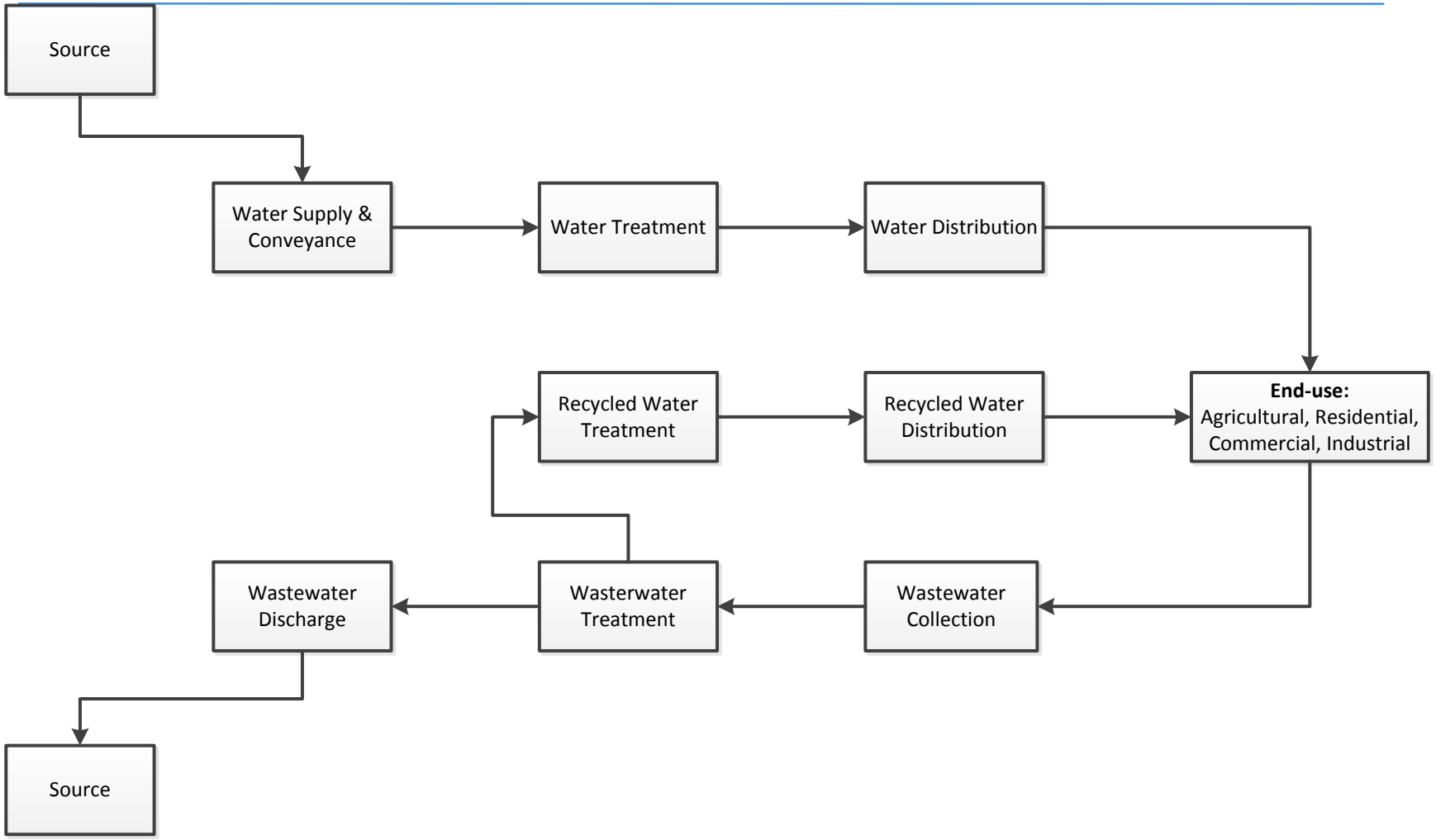


Figure X. Water system for a connected community in a state, city or country

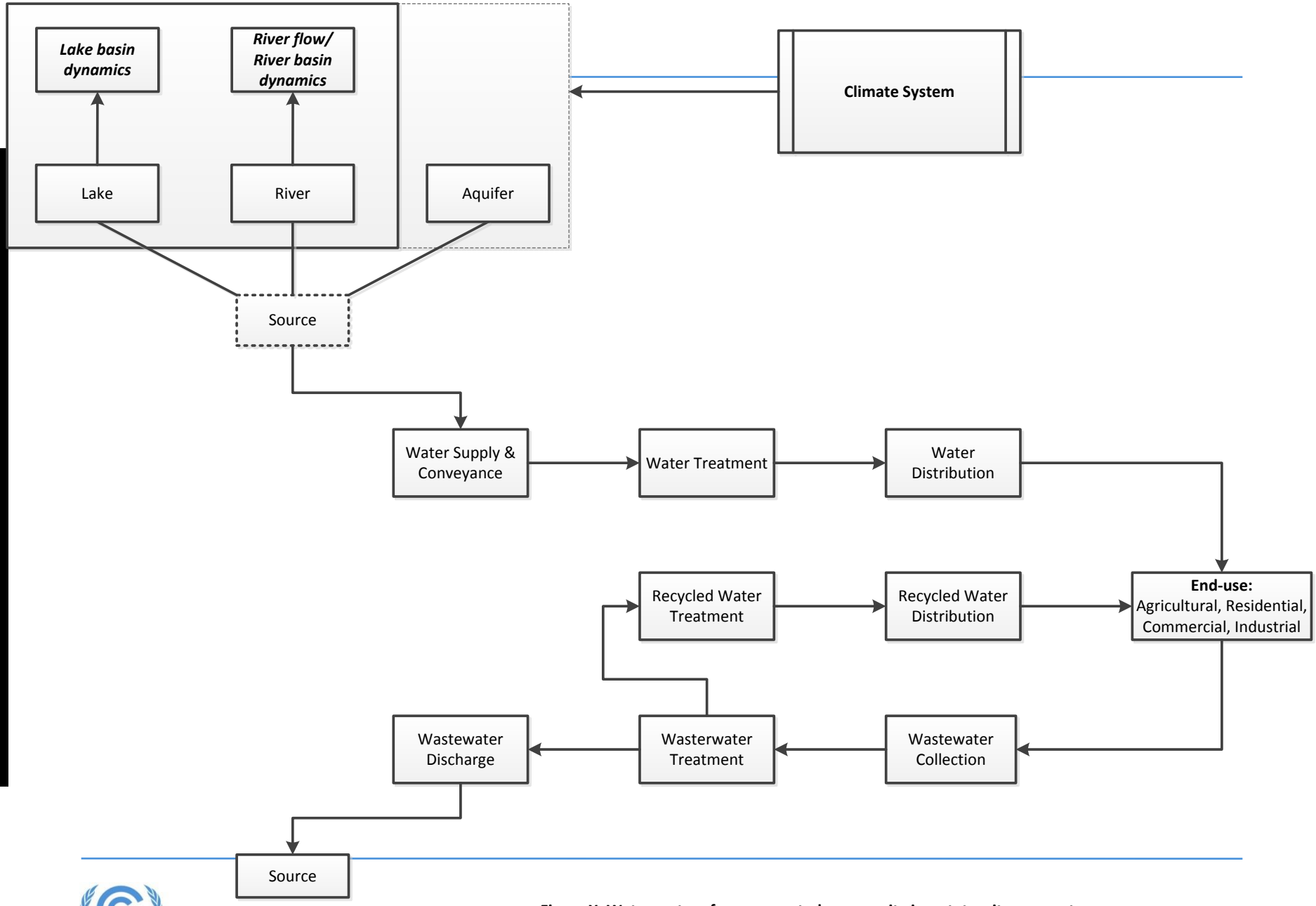


Figure X. Water system for a connected community in a state, city or country

Figure x. Crop production and links to different workstreams, actors and data/information inputs