

1.1.1

SERIES 1

Establishing Resilience Principles



Mapping a City System

Activity 1.1.1

In this activity, you are going to map one of your city's systems, services or functions and figure out which agents (organizations, government departments, community groups, etc.) are connected to that system, and which institutions (rules, laws, policies, customs, etc.) influence how that system functions and operates. This activity will help you understand the climate resilience framework a bit better and begin thinking about all the factors that combine to make your city's systems and people vulnerable to climate variability and change. In subsequent sets, you will gain a more complete understanding of your city's systems, agents and institutions and how to begin the urban resilience process (Series 1); its vulnerabilities and how to identify potential climate risks (Series 2); and how to identify resilience strategies and actions (Series 3).

IN THIS ACTIVITY YOU WILL:

- ✓ Identify one critical city system, service or function.
- ✓ Identify and map the agents and institutions that are connected to that city system, service or function.

ACTIVITY 1.1.1: MAPPING A CITY SYSTEM

INSTRUCTIONS:

- 1. In the center bubble on the sheet below, or on a flip chart/ white board, write one city system, service, or function.**
- 2. Think of all the agents that are involved with that system, service, or function. Who works with, depends upon, or strongly influences that system, service or function? Examples of city systems, services or functions are in the text box on the left.** Write these agents down in the agent bubble on the sheet below that is connected to the system bubble.
- 3. Think of the institutions—rules, laws, policies or cultural customs and practices, for example—that govern how that system, service or function is managed, used or operated and which agents are allowed to be involved with that system.** Write the institutions in the institution bubble in the sheet below.
- 4. What other systems, services, or functions are connected to the system you chose?** For example, an urban drinking water system needs a water supply system (river, groundwater, lake, etc.) and possibly an electricity supply to treat, pump, or convey the water or a transportation network (private water tankers and roads) to bring the water to urban residents. Write these supporting systems, services, or functions down in the supporting systems bubble on the sheet below.
- 5. Looking at this map, are there any other agents or institutions you've forgotten that should be included?** How do the agents influence and decide the institutions that govern how a system is managed or operated?

EXAMPLES OF CITY SYSTEMS, SERVICES OR FUNCTIONS:

Urban planning

Land use decisions

Water and sanitation

Solid waste disposal and recycling

Electricity

Transportation and communication infrastructure

Social services

Health monitoring and regulation

Environmental monitoring and permitting

Disaster planning and response including hazard mapping

Business and economic development including trade

Ports or harbors

Tourism

Security

Coastal ecosystems

Watersheds

Forest ecosystems

Food supply and agriculture

Mapping a City System

(Use the space below to complete Activity 1.1.1)

