The role of System Thinking in improving Integrated Urban Water Management

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Research Objectives



Methodology of the Initial Stage



1. Understand current system complexity in China:

WHO: HOW: WHAT

- **2.** Understand current urban water management challenges through a system thinking perspective.
- **3.** Evaluate the potential of current initiatives such as Sponge Cities to address the challenge.
- **4.** Develop a strategic, policy-based framework to enhance stakeholder involvement in rethinking and redesigning solutions to address urban management challenges.

This study is an EXPLORATORY Research—

Title analysis: (Excel) Summary of documents; Key departments & Participations; Functions of departments; Local governance priorities; Basin management & cooperation.

Text-mining:(Python) New keywords; Key departments; Functions & Overlaps of departments; Relationships between Central Level and Local level; Other roles joining in water management.

Web-research: Local pattern with examples.

Document Collection & New keywords

2 Databases

1 Group of New Keywords

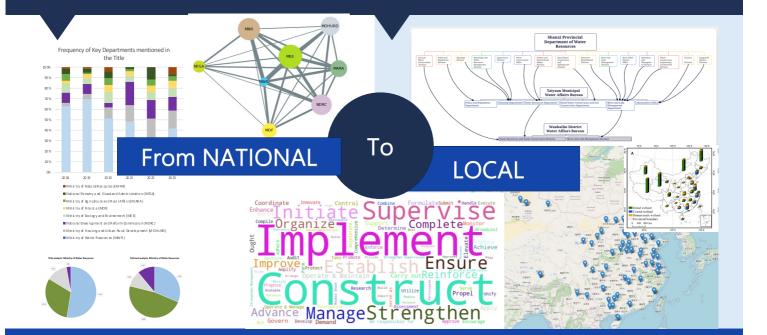
4 Types of Documents

4 Principals

4 Principais

water supply

- Water Environment Protection
- Water-related Disasters
- Urban Water Management
- Law
- Administrative Regulation
- Local Regulation
- Policy Documents





Regional Cooperation & Other Participants