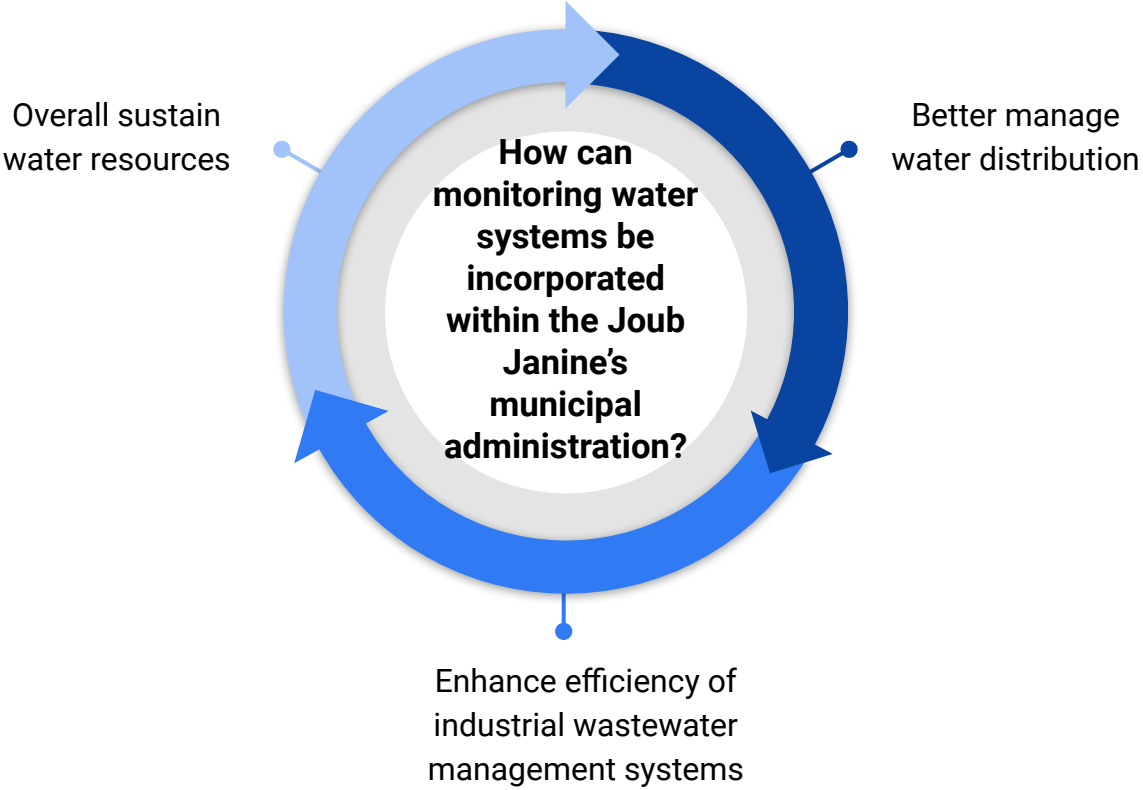


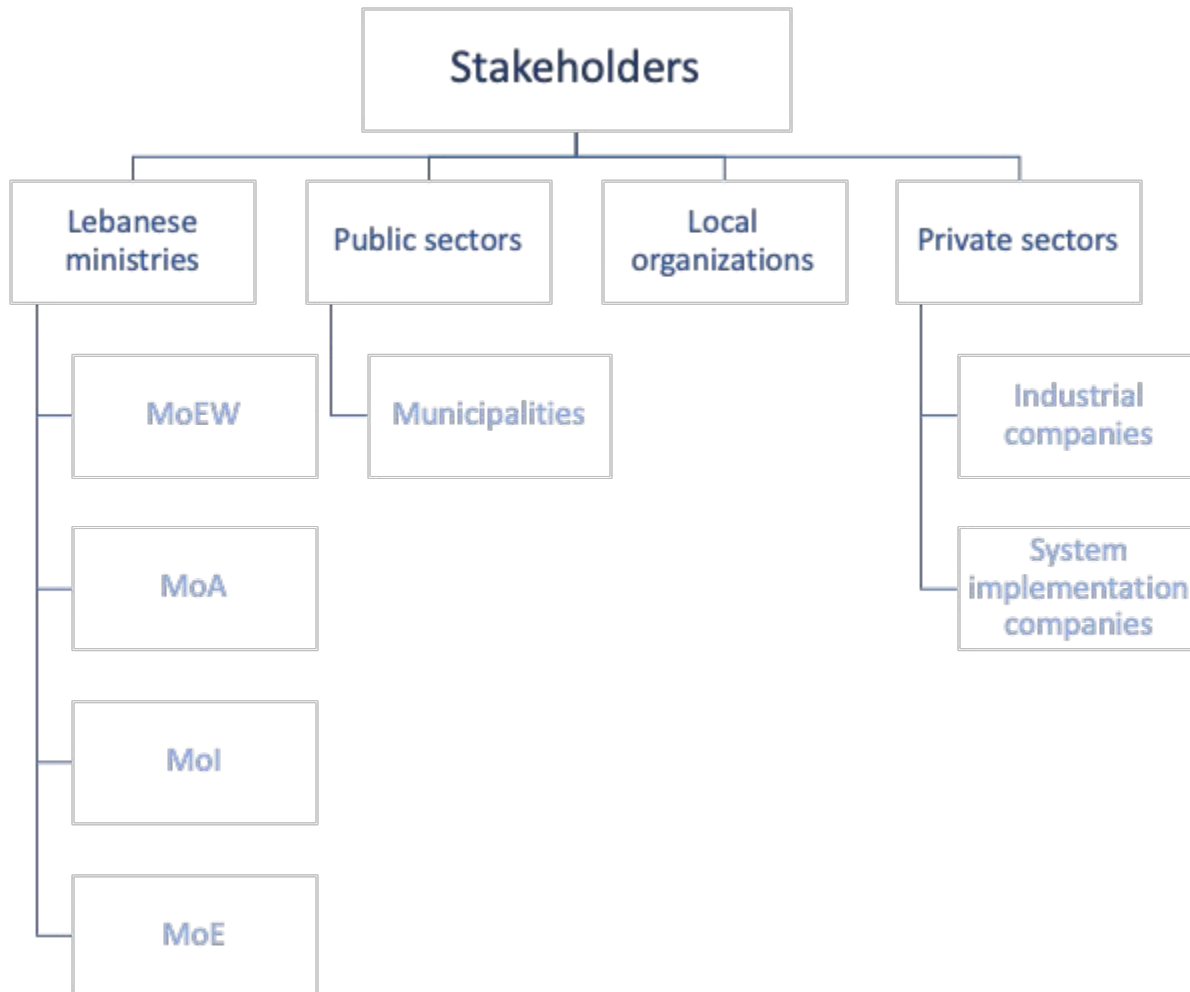
# Monitored Industrial Water Systems and Wastewater Treatment Plants in Joub Jannine - Lebanon.

WIL Global - Scenario Planning

Team Members: Rewa Assi, Rita Hachach, Nour Korek, Remie Matta.

# Critical Question





# System of the Systems

Awareness campaigns for municipalities to understand the importance of involvement in environmental and social issues



Competent local personnel working in the municipalities



Personnel monitoring water systems and reporting back to municipalities



Municipalities regulating industrial work



Industry



Treated wastewater

Primary Treatment

Secondary Treatment

Tertiary Treatment



Reused for agricultural practices



Domestic and Industrial usage

Agriculture

Used for consumption

Discharged into rivers and ocean



Back to water cycle

# What do we want to assess?

- Current infrastructure, Active vs. waste-treatment facilities, Locations/ zones, Water availability, Sources of water (surface versus groundwater), Current water consumption patterns versus optimal water demand, Deduce water balance
- Current fate of disposed wastewater (treated and untreated)
- The quality of treated wastewater
- Impacts of wastewater on the surrounding environment (including agriculture)
- Financial needs for implementation of adequate monitoring system

# How do we communicate it?

## Government

- Qualified governmental body in Joub Jannine
- Proper monitoring and control
- Incorporated at all stages

## Public & Private Sector

- Implementation and M&E stages
- Advancement of technological aspects

## NGOs

- Awareness campaigns
- Trainings and workshops

Thank you!