

Enabling Businesses. Uplifting Communities.

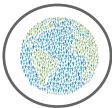
Innovation in Water Resource Management

Liveable Cities Lab Climate-resilient Water Management: Affordable and quality water for all

9 February 2022

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Water Situation



Water scarcity affects more than **40%** of the world's population



Asia-Pacific region has the lowest per capita water availability, being home to **60%** of the world's population but only **36%** of the world's water resources



By 2050, at least **1** in **4** people will suffer recurring water shortages



In the Philippines, **1 out of 10** people do not have access to improved water sources

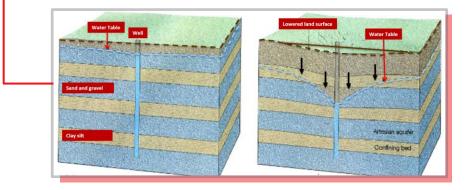


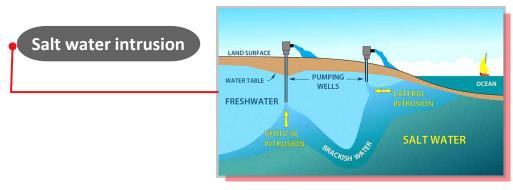
Dangers of Over-extraction

Drying up of wells



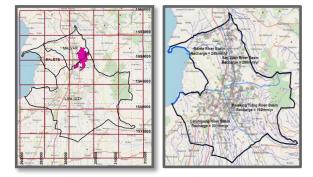
Land subsidence





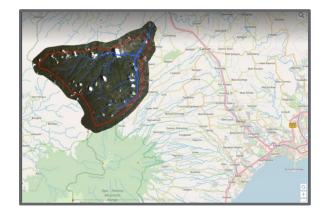


Managing Water Resources



Hydrology and hydrogeology studies

 Determine surface water and groundwater availability and sustainability in the area

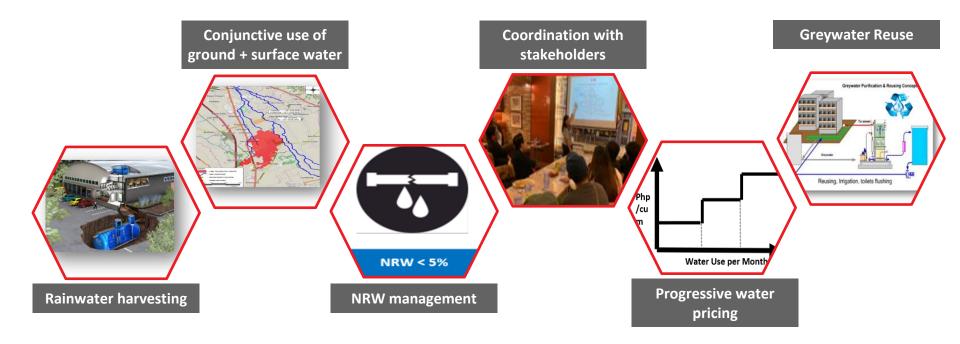


Watershed Management Study

- Ensure that existing water quality is maintained;
- Develop a plan to effectively mitigate contamination in the watershed area due to human activities



Managing Water Resources

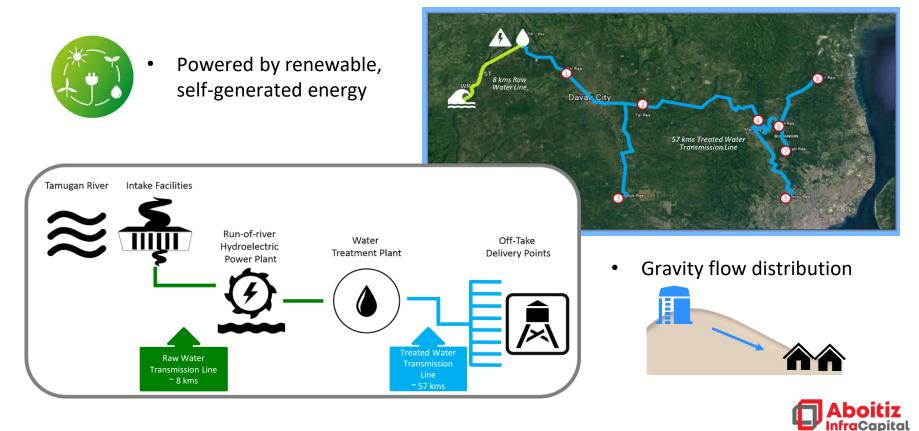




Water – Energy Nexus



Sustainable water across generations.



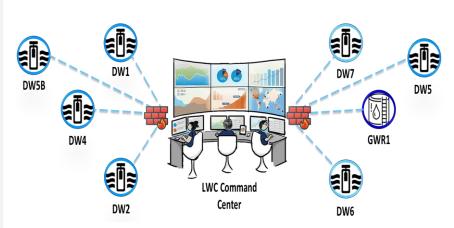
Smart Water Network



Water made smarter.

Capabilities

- Water Quality and Quantity Monitoring System
- Pressure Control and Leakage Detection
- Interconnected and automated operations
- Realtime notification of equipment/facility abnormality
- Remote monitoring and control



Benefits

- Enhanced Planning and Network Operations
- Minimized Non Revenue
 Water
- Improved resource optimization and operational efficiency
- Better facility uptime or reliability
- Agile and adaptable system



Taking Action

SUSTAINABLE GALS



 Implement innovative water solutions



 Establish government policies to safeguard our water resources



 Pursue partnerships with the private sector to finance projects and develop new technology





Sustainable water across generations.



Water made smarter.



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