

Smart Water Management Based on IoT

Smart water management is the use of IoT technology to efficiently control and monitor the usage of water resources, minimize water loss, and ensure the optimal distribution of water resources.



What is IoT?

1 Internet of Things

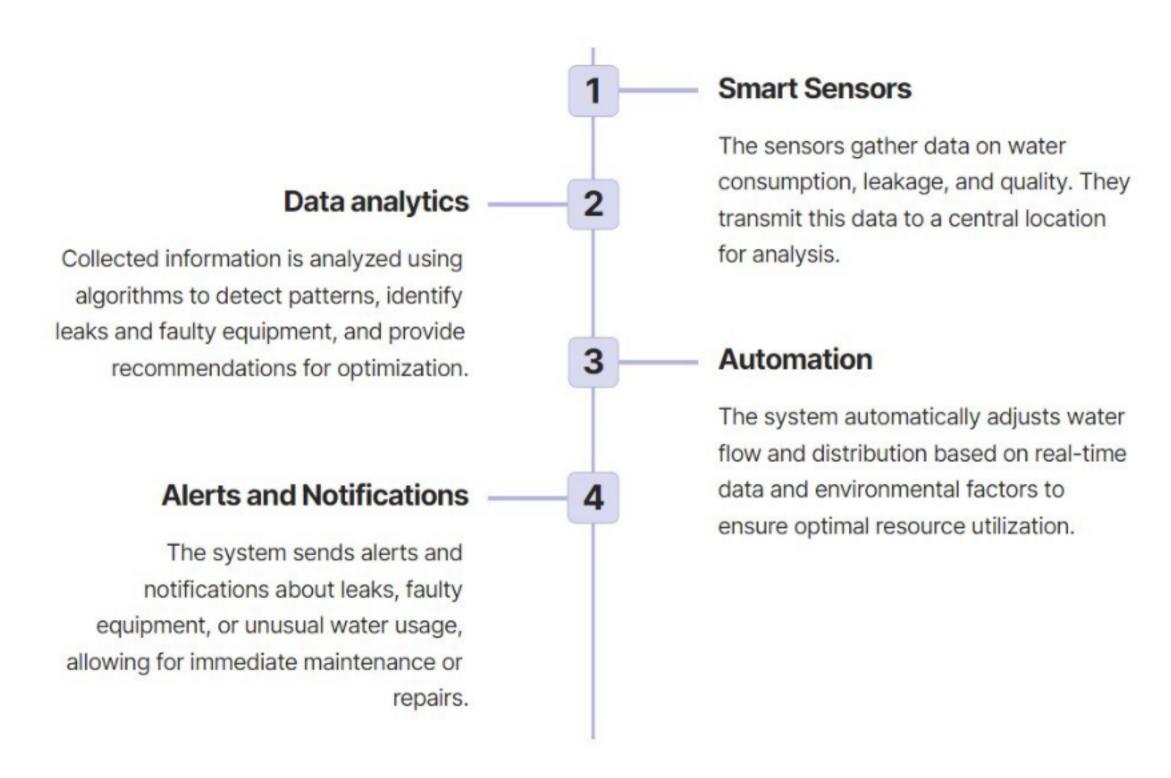
The interconnection of everyday devices through the internet, enabling them to send and receive data and communicate with each other.

2 lot in water management

loT technology is used to provide real-time monitoring of water usage, quality, and equipment status. 3 Benefits of IoT

Enhanced efficiency, improved accuracy, reduced costs, and increased performance.

Components of Smart Water Management Based on IoT



Data Collection and Analysis

Real-time data collection

Data is collected continuously and transmitted to a central location for analysis instantly.

Data analytics uses machine learning algorithms to detect patterns and predict the probability of future events.

Predictive Maintenance

Real-time data analysis enables proactive and predictive maintenance, reducing downtime and repair costs.

Data visualization

Machine Learning

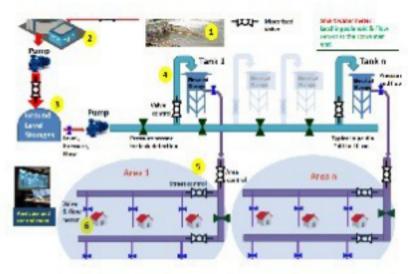
Real-time data is presented as informative graphs, charts or dashboards enabling easy and quick decision-making.

Real-time Monitoring and Alerts





Sensors monitor water usage, leaks, and equipment status and continuously send data to the central location for analysis.



Smart water distribution

The system automatically adjusts water flow and distribution based on real-time data and changing environmental factors.



Smart alarms and notifications

Alerts and notifications are sent to the smart devices in case of leaks, faulty equipment, or water wastage.