

# Water Resource Management Roadmap

Legend (Text Font):

Done	Ongoing	Not yet Available
------	---------	-------------------

## Needs for Government Facilities and Laboratories

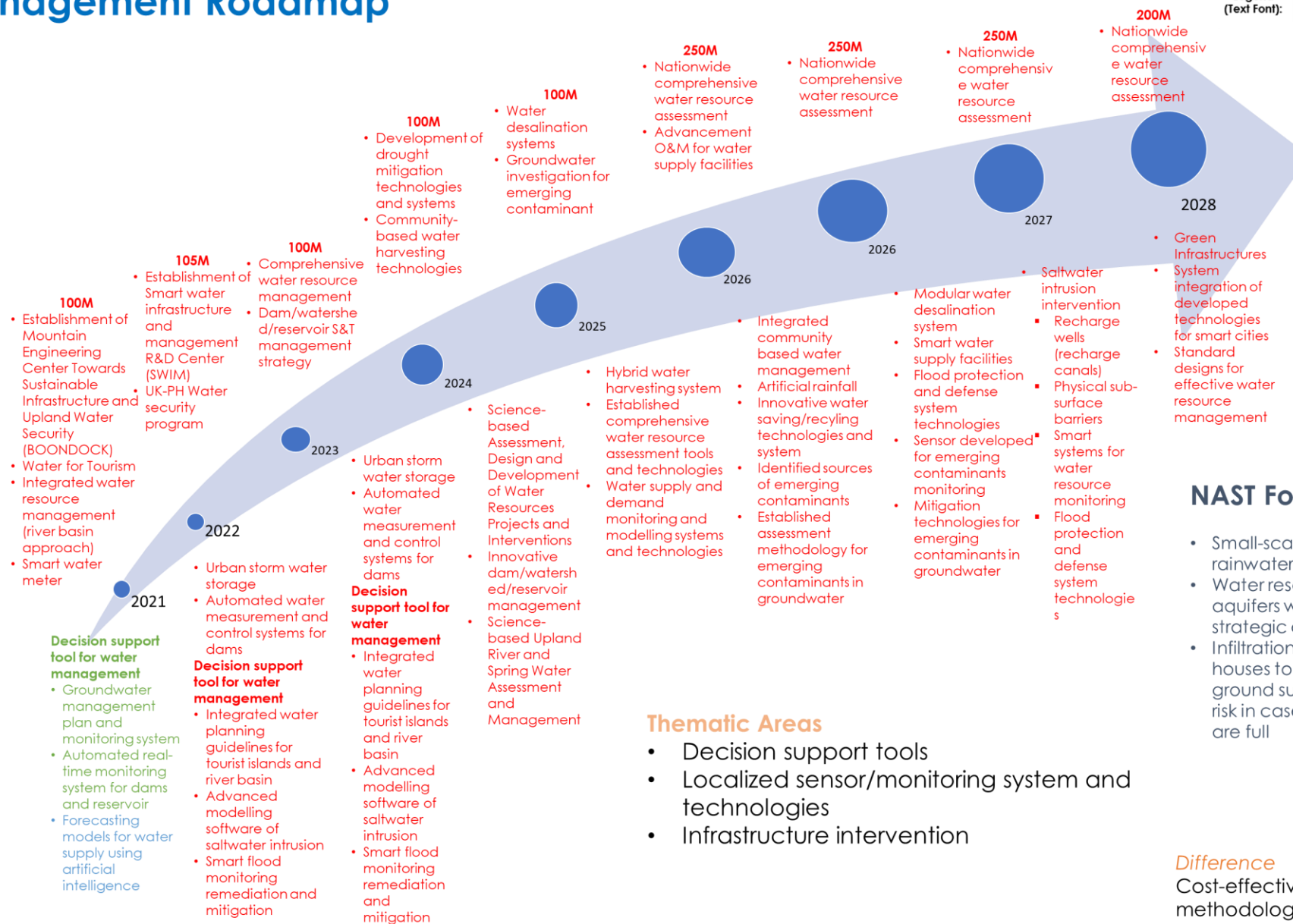
- Mountain engineering center towards sustainable infrastructure and upland water security program (BOONDOCK)
- Smart water infrastructure and management R&D Center (SWIM)
- Community-based water harvesting technologies program
- Advancement of O&M for water supply facilities

## Needs for Human Resource:

- Training on modelling software
- Training on data analytics
- Training on sensor/system development/operation and maintenance

## R&D Program/Project Needs

- Water for tourism
- Smart water monitoring and harvesting technologies
- Water security
- Integrated water resource management
- Comprehensive water resource management
- Dam/watershed/reservoir S&T management strategy



**Vision**  
S&T based management for sustainable water resources

## NAST Foresight

- Small-scale water cisterns to collect rainwater households
- Water reservoirs through groundwater aquifers with infiltration galleries at strategic areas
- Infiltration galleries build around houses to deep-percolate into the ground subsurface, minimizing flood risk in case storage tanks for rainfall are full

## Thematic Areas

- Decision support tools
- Localized sensor/monitoring system and technologies
- Infrastructure intervention

## Difference

Cost-effective and localized tools, methodologies, and technologies