

NABCONS Develops Kerala Water Resources Information System (K-WRIS)

Kerala state required one authoritative system that contains all water related information such as supply, demand, environmental factors etc. to provide decision support to policymakers. The unified database should provide integrated information from existing system, IMD, river gauge, sensor, and state data records etc. containing historical information in water availability, soil type, demand, supply and irrigation.

To meet the requirements of Kerala Government NABCONS developed the Kerala-Water Resources Information System (Kerala-WRIS). Kerala-WRIS is a state-of-the-art platform which is comprehensive, dynamic and well-structured Information and Management System that facilitates and ensures judicious, equitable and sustainable management, allocation and utilisation of water resources. It has the capabilities of:

1. Water Budgeting,
2. Water Planning,
3. Water conservation &
4. Sustainable Water Resources Management

Kerala-WRIS acts as a single authoritative system for all water resources related information in Kerala. It collects information from sensors data, mobile input data, mathematical model derived data, satellite data, web-based data and all other data sources, applies Artificial Intelligence (AI), Machine Learning (ML) and Internet of Things (IoT) and creates a dashboard that provides all relevant information related to water resources with near real time visibility to all the water related assets for a large state, county, district or block.