PRECISION AQUACULTURE

with automation in water quality monitoring

सत्यमेव जयते
भारत सरकार

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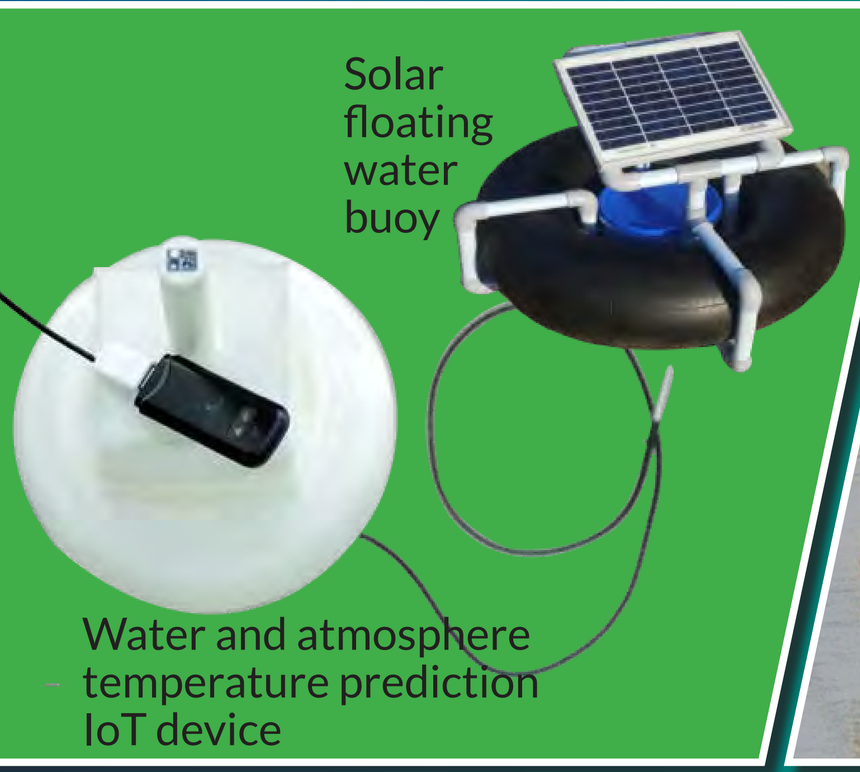

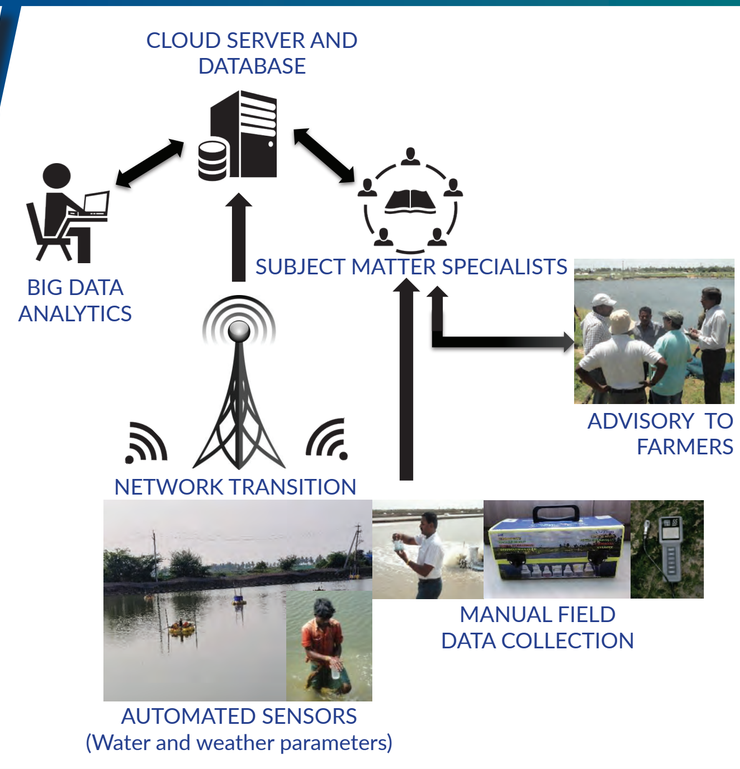

Shrimp culture ponds are sensitive to changes in various abiotic factors as a result of climate change and management practices. Real time monitoring of the pond environmental and weather parameters to understand the dynamic nature of ponds through machine intelligence and Internet of Things (IoT) is the recent innovation.

- IoT enabled floating module with sensors and sediment aeration device were installed in shrimp culture ponds. As and when DO level falls below critical value, automatically triggers the aerator to start
- Continuous monitoring of real-time water and weather parameters and decision making based on the 'Big data' analysis enables instant delivery of advisories in local languages to farmers through smart devices/mobile applications
- Smart farming approach through precision aquaculture reduces the workload of farmers on pond management, saves the cost by avoiding excess use of aerators and reducing the labour and enhances the farming efficiency

"Brackishwater aquaculture for food, employment and prosperity"

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