V.S.B ENGINEERING COLLEGE, KARUR-639 111

PROJECT DESIGN PHASE-1

SOLUTION ARCHITECTURE

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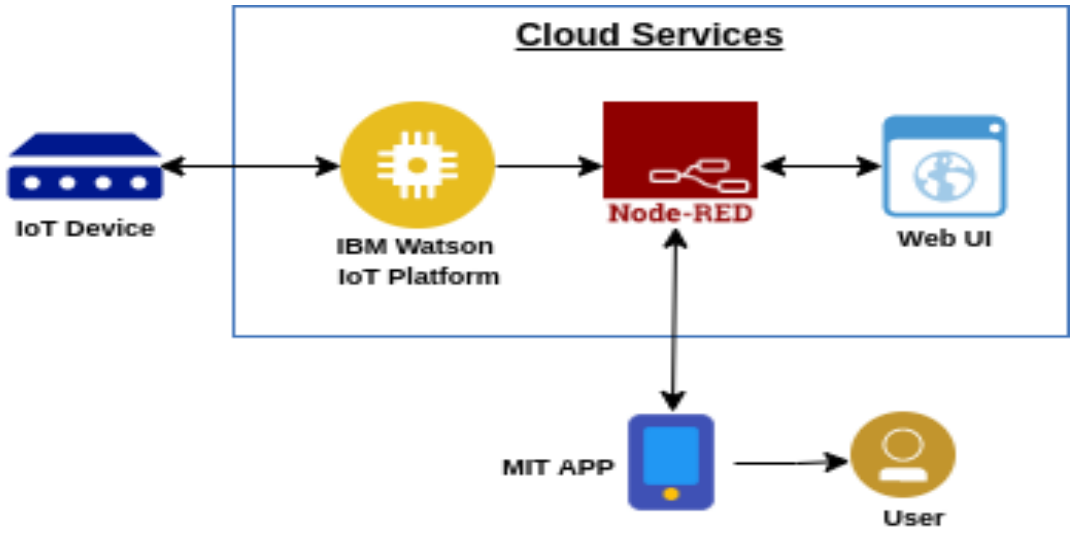
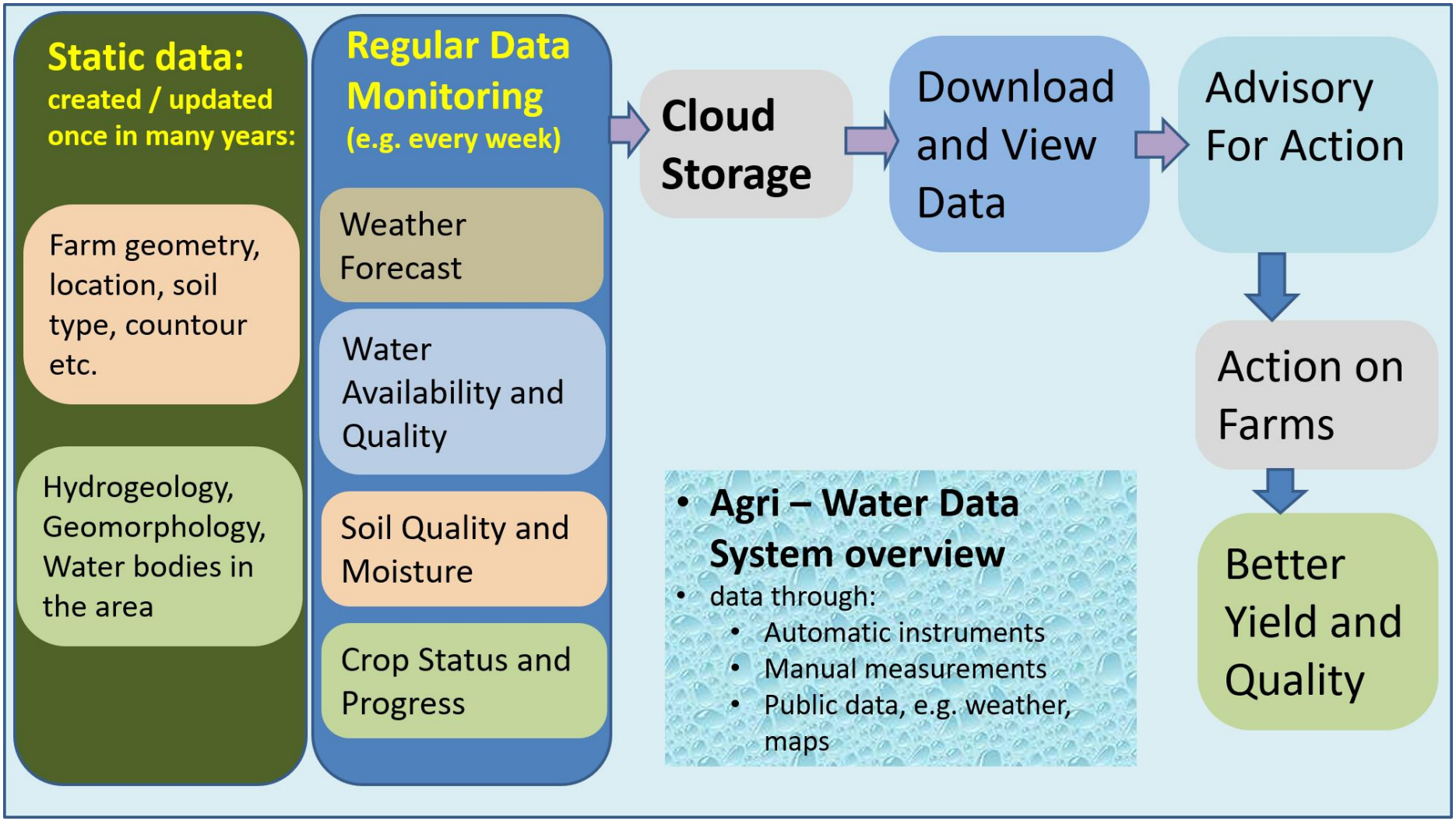
SMART FARMING:

Smart agriculture aims at increasing crop yield and quality, optimise water and other inputs, and maintain soil health. This is particularly important for livelihood of marginal farmers, cattle rearrest and other allied occupations, especially in the context of climate change uncertainty. In addition to close understanding of the local agro-ecological zone, geomorphology, subsurface conditions, the local soci-economic conditions, it involves regular data monitoring of weather, water, soil, crop growth, and using this in an integrated manner for decision making.

TECHNICAL ARCHITECTURE:



The following picture depicts Smart agriculture system


Static data:
created / updated once in many years:
Farm geometry, location, soil type, countour etc.
Hydrogeology, Geomorphology, Water bodies in the area
Regular Data Monitoring
(e.g. every week)
Weather Forecast
Water Availability and Quality
Soil Quality and Moisture
Crop Status and Progress
Cloud Storage
Download and View Data
Advisory For Action
Action on Farms
Better Yield and Quality
• Agri – Water Data System overview
• data through:
• Automatic instruments
• Manual measurements
• Public data, e.g. weather, maps