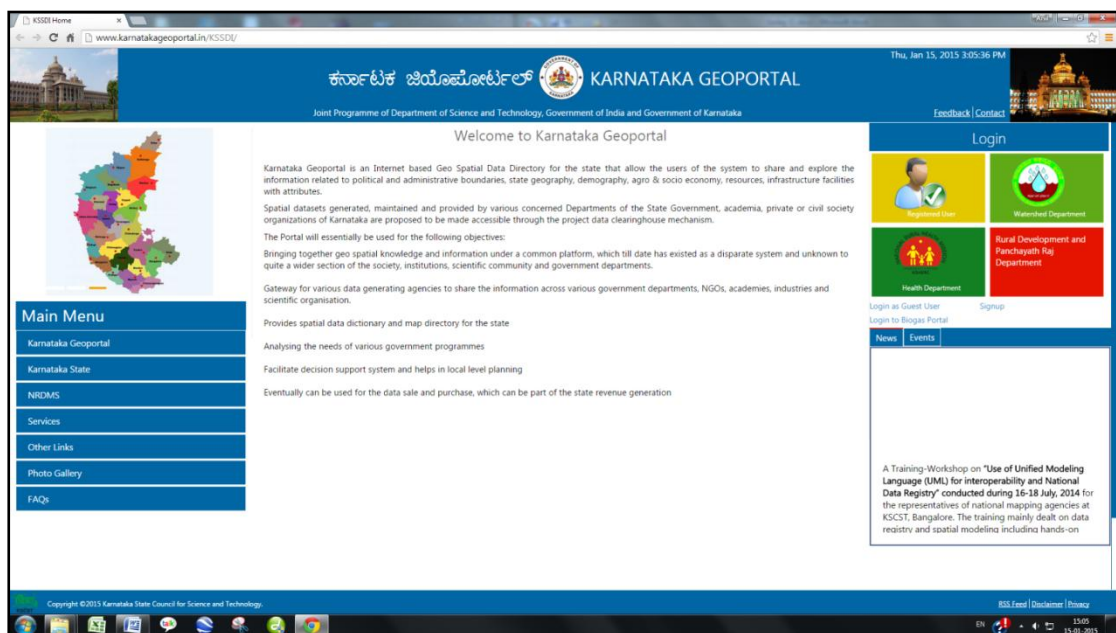


7. DEVELOPMENT OF GEOSPATIAL WEB APPLICATIONS ON KARNATAKA GEOPORTAL FOR G-GOVERNANCE (KSSDI PHASE II PROJECT)

Principal Investigator	: Mr H. Hemanth Kumar
Co-Principal Investigators	: Mr S. N. Sondur & Dr. U. T. Vijay
Budget	: Rs. 80.36 lakhs
Funded by	: DST – GOI and DST – GOK
Duration	: 3 years

Karnataka State level Spatial Data Infrastructure (KSSDI) also called as Karnataka Geoportal is a centralized single window access mechanism for all the spatial data acquired by various agencies in Government of Karnataka using State's resources primarily to support planning activities of the Panchayath Raj Institutions (PRIs), district/state line departments, Urban Local Bodies (ULBs) and civil society organizations in the State. KSSDI is an Internet based GIS Directory for the state that will eventually be extended for the use of the society in exploring the information related to state geography, demography, agro and socio economy, and infrastructure facilities. In the first phase of the project the portal enabled the users the option of access and discover spatial data sets with a limited set queries. However it was felt that the Geoportal should be extended to cater to the needs of geospatial governance.

The Council is now implementing the 2nd phase of the project with the funding support from the Department of Science and Technology, Government of India and Government of Karnataka to develop web based geospatial applications/decision support system for selected schemes of Watershed and Health Departments to support G-governance on Karnataka Geoportal platform.



Activities:

The portal has the following additional features.

- ✓ Map viewer - Web Map Service (WMS),
- ✓ Product catalogue/metadata - Catalogue Service on Web (CS-W),
- ✓ Services specific service/ feature data sets - Web Feature Service (WFS),
- ✓ Simple Applications (Query based decision support)
- ✓ Coverage services/images - Web Coverage Service (WCS)
- ✓ Web processing Service (WPS)
- ✓ Transactional Web Feature Service (WFS-T)
- ✓ Mobile Mapping
- ✓ Multi-spatial and multi-attribute query and analysis
- ✓ Multi-lingual
- ✓ Help/support
- ✓ The watershed and health portlets have been developed based on user needs and the portal is being fine tuned for any anomalies. It has been planned to conduct user workshops for popularising Karnataka Geoportal among state/district line departments.
- ✓ Updation of BCM hostel info on Karnataka Geoportal.
- ✓ Davanagere data of 1:2000 scale uploaded on KG for visualisation. Interacting with Town and Country planning department for hosting high resolution data of towns and municipalities.
- ✓ Development of portlets (Proof of concept developed for IRCTC, New Delhi with the guidance and coordination of DST-GOI and Biogas monitoring information system developed for RDPR Department).
- ✓ Integration of MIS and GIS for watershed Phase I and Phase II projects for Belgaum division.
- ✓ Deployment of mobile app for uploading water sources data of Shivamogga district.

Home Page

The screenshot shows the Karnataka Geoportal website. The header includes the logo and the text 'ಕರ್ನಾಟಕ ಜಿಯೋಪೋರ್ಟಲ್ KARNATAKA GEOPORTAL'. Below the header, there is a navigation menu with options like 'ಮುಖ್ಯ ಮೆನು/ಪ್ರಮುಖ ಪರಿವಿಡಿ', 'ಕರ್ನಾಟಕ ಜಿಯೋಪೋರ್ಟಲ್ ಗೆ ಸ್ವಾಗತ', and 'ಲಾಗಿನ್'. The main content area includes a map of Karnataka, a news section, and a sidebar with various service links like 'ನಿರೀಕ್ಷಿಸಿದ ಉಪಯುಕ್ತತೆಗಳು', 'ನಿರೀಕ್ಷಿಸಿದ ಸೇವೆ', and 'ನಿರೀಕ್ಷಿಸಿದ ಮಾಹಿತಿ'.

Watershed Portlet

The screenshot shows the Watershed Portlet on the Karnataka Geoportal. The portlet displays a map of Karnataka with various river basins highlighted in red. The basins are labeled: GODAVARI BASIN, KRISHNA BASIN, WEST FLOWING RIVER BASINS, NORTH PENNAR, PALAR BASIN, SOUTH PENNAR (PONNAYAR), and CAUVERY BASIN. The map includes a location search bar, a layerlist, and a scale bar.