

GIS based Web Services at National Informatics Centre: Road Map to Open GIS

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National Informatics Centre (NIC) is a premier Information Technology organization in India committed to providing state-of-the-art solutions for the IT needs of the Government at all levels.

NIC has set up a state of art SAN in its data center at Delhi and is being used as storage infrastructure for Web Sites, Portals, Citizen Services, Databases, E-Mail and other Internet services. The hosting infrastructure includes a large number of performance tuned, hi-end and secured servers which are well connected with Internet.

Remote Sensing and GIS Division of NIC is engaged in creating the digital database of different entities like administrative boundaries of the country, states, districts, taluk/tehsils, blocks and villages; road & railway network; rivers & other water bodies; forest areas, etc. of the entire country on GIS server at NIC Headquarter. This program is going on with support from different NIC State Units.

Web-enabled or Internet GIS, is the ability to place GIS functionality in the hands of users at any place, anytime. Using Internet programming tools in combination with powerful spatial applications, users can interactively add and overlay spatial data, query this data, and print maps all from their browser. There is no need to load GIS software on the desktop. Wherever the users have Internet access, they can have access to GIS.

Few of the successful Web Based GIS projects done by the Organisation are presented viz. Coastal Regulation Zone Management, Online Monitoring of Projects for Department of Women & Child Development, National Spatial Data Base and Web based GEOFARMS for IFFCO.

The NSDI standards for meta-data implementation are being explored.

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