GIS mapping gaining popularity with gove agencies and private cos; enables conservation... Page 1 of 2



The information collected from government records and survey results is then integrated with satellite images that create a visual database. This makes it easy to figure out the consumer profile around a store and what products would sell. "Many companies from the wind energy sector have started using GIS to identify the



While most of the GIS related work in India happens within the academic community, in recent years an increasing number of government agencies and private firms have identified it as a key tool.

For instance, India Biodiversity portal provides map-based information on all aspects of biodiversity in India and acts as a discussion forum. Recently, the rural development ministry in Kerala used GIS to layer information on public roads and soil patterns, when deciding how much funds to allocate for the MNREGS. SECON's Appachu says insurance companies use GIS to locate areas of high car theft.

At research institutions like the National Centre for Biological Research, GIS is used as a tool for studies in bio-informatics and wildlife sciences, that includes tracking tiger movements with the help of satellite imagery.

Two years ago, when American geographer Paul Robbins and his team from Arizona University visited the School of Desert Sciences in Jodhpur, they wanted to study about the land cover change, human uses, and governance issues at the Kumbhalgarh Wildlife Sanctuary in South Pali district. But within days, Robbins and his team discovered something that changed the course of their research: contrary to the general view, many areas showed significant regrowth although human use of the forest had destroyed some habitat.

"So what had caused the forest recovery? And what role did human settlements play in this?" Robbins recalled them discussing. The team realised that they had to do something more than merely collecting information on forest land. In a matter of days, they layered all possible information they had collected on a GIS-enabled electronic satellite image.

"The surprise here was that, with the help of GIS we found out areas with loss of forest cover were indeed near human settlements, but so were areas of forest

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recovery - meaning, local settlements were not uniformly destructive of forests and people were fully capable of allowing areas to regrow."

With so much information about people now explicitly spatialised, does GIS trigger privacy concerns?

"There is certainly a concern. It is possible for observers to know where you are at all times, where you are going, and what you are doing," says Robbins. But it isn't just the government, private companies like insurance firms or other interested parties can use GIS to integrate spatial data about people's health status or behaviour in ways that are dangerous and undemocratic.

While the biggest challenge lies in collecting accurate information, experts say entering this information into GIS software and then presenting it in real-time is the biggest task.

"Earlier GIS was viewed as an expensive technology, but things are slowly changing," says ATREE's Kiran. "In sum, GIS is much more than making maps, a tool for conservation science, economic development, and community planning."

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