

NATURAL RESOURCES DATA MANAGEMENT SYSTEM – KARNATAKA PROJECT

Principal Investigator : Mr. H. Hemanth Kumar, Executive Secretary
Budget : Rs.218 lakhs
Funding Agency : RDPR, GoK

The NRDMS centres established during 1993 have been providing geospatial data and services for a wide range of uses since inception and have seen steady growth in the requests for both data and services. The NRDMS program is continuously updating its datasets in diverse fields with an increasing set of application requirements. Application domains include, for example, public health and education, environmental analysis and mapping, transportation, water quality/quantity, watersheds, elections, disaster planning and management, and administration and planning.

Progress:

- Dr. Shalini Rajneesh, IAS, Additional Chief Secretary to Government, Planning, Programme Monitoring & Statistics Department on 29-04-2019 at Vikasa Soudha advised to adopt geospatial technologies preparation of action plan. This meet was attended by Director of planning and statistics, Executive Secretary of Karnataka State council for Science and Technology, Consultant KRSAC, CPO's of all districts and NRDMS officials. As advised, KSCST & KRSAC organised district and taluk level workshop to guide and assist district line departments in preparation of GIS action plan.
- Conducted District and Taluk level workshops on “**Use of Geospatial Technologies for Preparation of Action Plan**” to senior level officers of line departments during June, July, August and September, 2019 (Over 250 workshops in a span of four months). Also published report and maps on district action plan.



Photographs of geospatial workshops conducted across Karnataka

List of workshops - "Preparation of action plan using geospatial technologies"

Sl. No	District	Training Date	Taluks	Training Date
1	Mysuru	July 1, 2019	Heggadadevanakote & Hunasur	August 1, 2019
			Krishnarajanagara & Periyapatna	August 2, 2019
			Mysuru & Nanjanagudu	August 3, 2019
			T. Narasipura	August 5, 2019
2	Mandya	July 1, 2019	Krishnarajapete & Nagamangala	August 19, 2019
			Mandya & Madduru	August 20, 2019
			Pandavapura & Srirangapattana	August 21, 2019
			Malavalli	August 22, 2019
3	Chamarajanagara	July 1, 2019	Chamarajanagara, Gundlupete, Kollegala & Yalandur	September 24, 2019
4	Bengaluru Urban	July 2, 2019	Anekal, Bengaluru East, Bengaluru North & Bengaluru South	July 20, 2019
5	Bengaluru Rural	July 2, 2019	Doddaballapura & Nelamangala	August 22, 2019
			Devanahalli & Hosakote	August 23, 2019
6	Kolar	July 2, 2019	Bangarpete & Malur	July 29, 2019
			Mulabagil & Srinivasapura	July 30, 2019
			Kolar	July 31, 2019
7	Chikkaballapura	July 2, 2019	Chikkaballapura, Bagepalli, Gouribidanuru & Gudibande	July 25, 2019
			Chintamani & Sidlaghatta	July 26, 2019
8	Tumakuru	July 5, 2019	Tumakuru & Kunigal	August 21, 2019
			Gubbi & Turuvekere	August 22, 2019
			Koratagere & Madhugiri	August 26, 2019
			Chikkanayakanahalli & Tiptur	August 27, 2019
			Sira & Pavagada	August 28, 2019
9	Hassan	July 6, 2019	Aluru	August 5, 2019
			Arakalagudu	August 6, 2019
			Arasikere	August 7, 2019
			Beluru	August 8, 2019
			Channarayapattana	August 9, 2019
			Hassan	August 13, 2019
			Holenarasipura	August 14, 2019
			Sakaleshpura	August 16, 2019
10	Kodagu	July 6, 2019	Madikeri & Somavarpete	September 17, 2019
			Virajpete	September 18, 2019
11	Chikkamagaluru	July 6, 2019	Chikkamagaluru & Mudigere	July 23, 2019
			Koppa, Narasimharajapura & Sringeri	July 24, 2019
			Kadur & Tarikeri	July 25, 2019
12	Dharwad	July 10, 2019	Kalaghatagi	October 22, 2019
			Dharwad, Hubli, Kundagola & Navalagundha	Not Organized
13	Haveri	July 10, 2019	Haveri, Byadgi, Hanagal, Hirekerur, Ranebennur, Savanur & Shiggaon	August 6, 2019
14	Gadag	July 10, 2019	Gadag, Mundaragi & Sirahatti	July 17, 2019
			Naragundha & Ron	July 18, 2019
15	Belagavi	July 11, 2019	Belagavi, Athani, Bailhongala, Chikkodi, Gokak, Hukkeri, Khanapura, Ramdurga, Raibagh, & Savadatthi (Through Video Conference)	August 2, 2019
16	Bagalkot	July 11, 2019	Bagalkot, Badami, Bilgi, Hungund, Jamakhandi & Mudhol	Not Organized
17	Vijayapura	July 11, 2019	Vijayapura	July 20, 2019
			Indi & Sindagi	July 22, 2019
			Basavana Bagewadi & Muddebihala	July 23, 2019
18	Davanagere	July 16, 2019	Davanagere & Jagaluru	July 17, 2019
			Harihara & Honnali	July 18, 2019
			Channagiri	July 19, 2019
19	Chitradurga	July 16, 2019	Challakere & Molakalmuru,	August 7, 2019
			Holalkere & Hosadurga	August 8, 2019
			Chitradurga & Hiriyuru	August 9, 2019



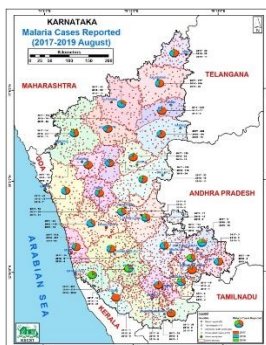
Paper clippings of geospatial workshops conducted across Karnataka

- Delivered lecture on **“Applications of remote sensing and GIS”** to BSc Students at Soundarya Institute of Management & Science, Bangalore on 6th August, 2019.
- Provided training program and lecture on **“Identification of suitable sites for water and soil conservation structures through remote sensing & GIS”** for MGNREGA engineers at SIRD, Mysore during 5th - 7th and 11th - 13th September 2019.
- Participated in **National Conference on “Big Geospatial Data: Analytics, Modelling and Applications (BiGMAP)”** at Ludhiana, India during 25-26 September, 2019. Presented a paper on **“Change detection of land use land cover- A case study on Kadakola subwatershed”**.
- Participated in **“NDR technical review meet”** at NSDI, New Delhi on 21 May 2019. This meet was organized to review the activities of National Data Registry project.
- Participated in Technical Support Programme on **“Sustainable Development Goals in Aspirational Districts Yadgiri and Raichuru”** on 4th and 5th October, 2019 at University of Agricultural Sciences, Raichuru. Made a technical presentation on **“Transformation of Village into Smart Village”**.
- Participated in **“107th Indian Science Congress”** Bangalore, India during 3-8 January 2020.
- NRDMS officials (Mr Chandrasekhar Gund and Mr Omkar Kori) received SKOCH Governance award for best GIS practices on local government on 30th August 2019, at Constitution Club of India, New Delhi.
- NRDMS officials participated in the workshop **“Application of remote sensing and GIS in disaster management”** at ATI, Mysore during 27-29 January 2020.
- Prepared taluk and district level maps of Karnataka to administrators on following parameters:
 - Distribution of Malaria-epidemic with health facilities during 2015-18
 - Distribution of HIV positive cases reported in the State
 - Monkey-fever-disease cases reported in the State
 - Location of existing SC-ST hostels and new ones proposed in the State
 - Location of existing BCM hostels & new ones proposed in the State

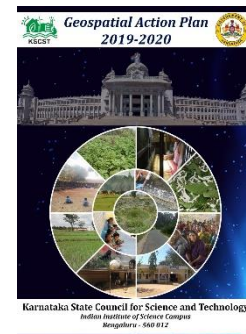
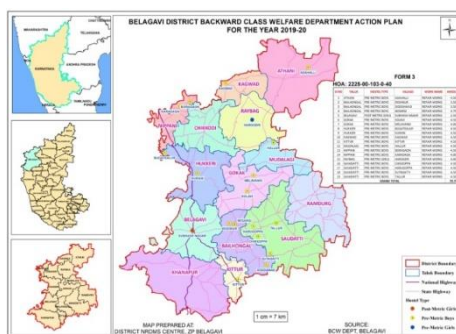
- o Existing and proposed new Veterinary hospitals, Dispensaries, Clinics
 - o Fish profiles in various reservoirs of the State
 - o Location of milk producers' co-operative societies
 - o Location of rural habitations for facilities mapping
 - o Location for stone-crushers to identify safer zones for quarrying
 - o Water level fluctuations and proposals for buffer zones in the State
 - o Water recharge-structures
 - o School buildings – facilities mapping
 - o Safe drinking water facility mapping
- GIS based action plan was prepared for the following line departments:
 - o Backward Class and Minority Department
 - o Education Department
 - o Health and Family welfare Department
 - o Fisheries Department
 - o Schedule Tribe Department
 - o Horticulture Department
 - o AH &VS Department
 - o Agriculture Department
 - o Ayush Department
 - o Forest Department
 - o Sericulture Department
 - o Women and Child Welfare Department
 - o Social Welfare Department
 - o Youth Service and Sports Department
 - o Cooperative Department
 - o Panchayath Raj Engineering



- Support to Panchayath Raj Institutions and Urban local bodies using seamless GIS ready spatial data, information and services.
- The Council provides inputs for the development of Spatial Resource Profile for transformation of the Aspirational Districts i.e., Raichur and Yadgir.
- Providing analysed geospatial data, information and services to all the 30 districts Zilla Panchayaths, District Administration and line departments
- Prepared Gram Panchayath Atlas based on delimitation of year 2019.



GIS map of reported malaria cases and Action plan map of BCM hostels



Geospatial Action plan report