

Karnataka State Council for Science and Technology



VISION



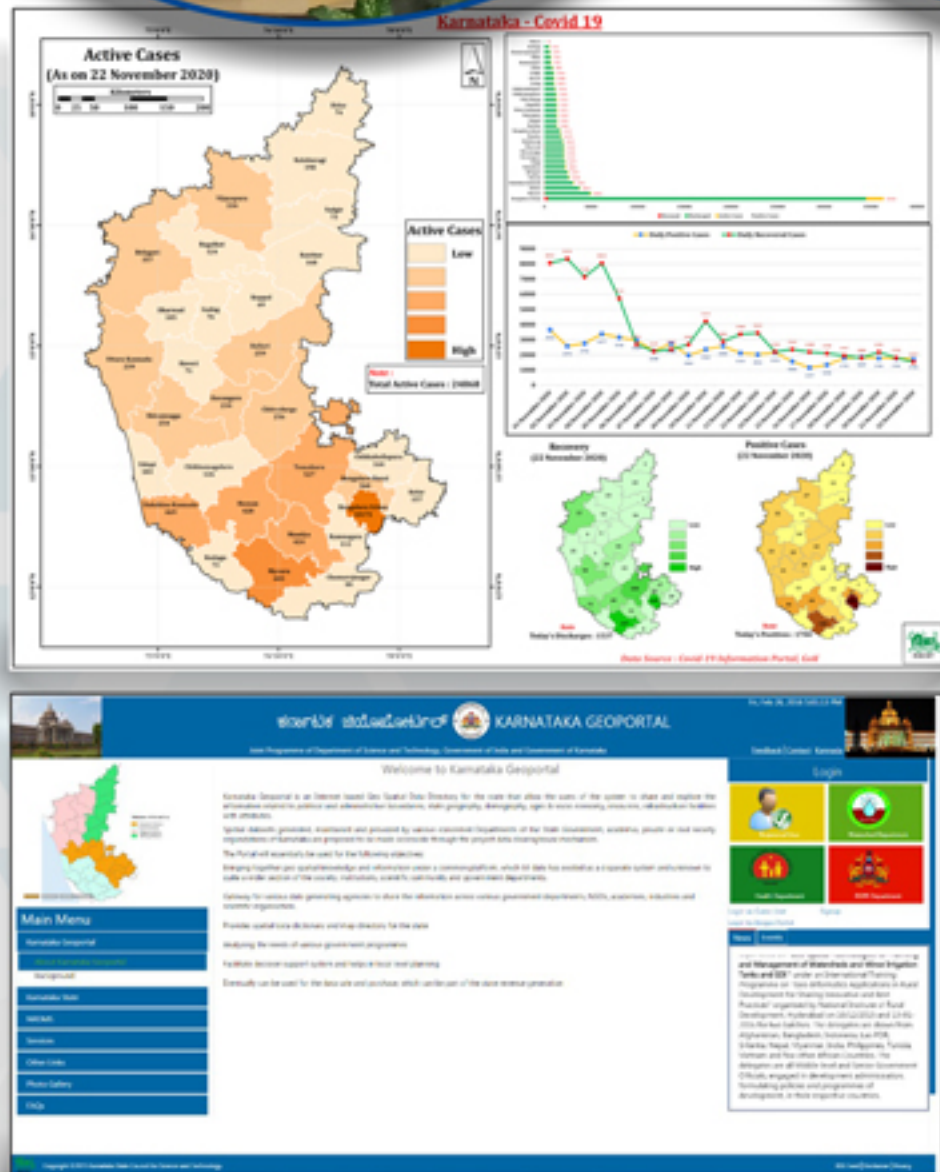
Application of Science & Technology for the management of resources, improvement of environment, quality of life and socio-economic conditions of the people of Karnataka.

MISSION



Co-ordinate R & D activities for generation of knowledge for scientifically based interventions, development and popularization of appropriate technologies for adaptation by the civil society to overcome local-specific problems and, inspire and improve human resources of the S&T sector in the state.

Natural Resources Data Management System (NRDMS)



- A Repository of Natural Resources and Socio-economic geo-database to support local level planning. Developed guidelines for generating village cadastre using high resolution satellite imageries.
- First state to generate Geospatial Action Plan for line departments.
- Organized 250 District and Taluk level workshops on "Use of Geospatial Technologies for Preparation of Action Plan" for more than 10,000 officials of rural and urban local bodies.
- Support to COVID management through Geospatial technology.

Karnataka State Spatial Data Infrastructure (KSSDI)

- KSSDI is a web portal to find and access spatial information/services via the Internet.
- Assisted in establishing National Data Registry.

Academic and Industry Interaction Cell (AIIC)

- Under Student Project Programme (SPP), we support and mentor innovative under-graduate and post-graduate engineering student projects.
- Supported more than 12,500 projects so far and more than 100 projects are commercialized.
- Established E-learning centres in government high schools to improve access to advanced educational resources, digital contents, Lab experiments in the form of 3D animations using latest IT gadgets and internet.
- Created Innovation Fund to support faculty projects and assisting best student's projects in creating start ups.





Rainwater Harvesting (RWH)

- End-to-end solution on RWH including awareness and Technical support, implementation, preparation of DPR and support to enforcement.
- Has a patent on RWH and assisted state government in drafting RWH policy and guidelines.
- Installations of more than 1.5 lakhs RWH structures for Institutions and Residence in Bangalore.
- Supporting urban local bodies in implementing RWH system in their buildings.

Digital Heritage

- Laser scanning of state archaeological sites and Hampi World Heritage site for creating virtual walk through and reconstruction/restoration.
- Mapping of all the state archeological sites is under process.



- Geospatial mapping of “**Traditional Surface Water Bodies**” for restoration and rejuvenation. Mapped over 13,000 Traditional Surface Water Bodies across Karnataka, which includes Kalyani, Kunte, Gokatte and Katte.
- Based on the reports state government is taking up restoration works of surface water bodies under Jal Shakti Abhiyan and MGNREGA programs.

Energy Cell

- Demonstration and dissemination of new technologies, workshops, techno-economic feasibility reports and energy conservation & management including bio-energy.
- Providing detailed project reports to government institutions.



Housing



- Research, development & dissemination of energy efficient building technologies.
- Over 1 lakh houses built in India and over 20,000 houses built in Bengaluru using cost- effective energy efficient building technologies.
- Organizing training programs to engineers and architects.

Patent Information Centre

- Promotion, protection and commercialization of Intellectual Property Rights of inventors and creators.
- Established over 40 IP cells in engineering and degree colleges/institutions to encourage faculty, students, startups and entrepreneurs.
- Supported filing more than 100 patents, designs, copyrights and trademarks.



Science popularization

Communication/Teachers Enrichment programs; Radio Serial on Artificial Intelligence; National Science Day/ National Mathematics Day

State Awards for Scientists and Engineers

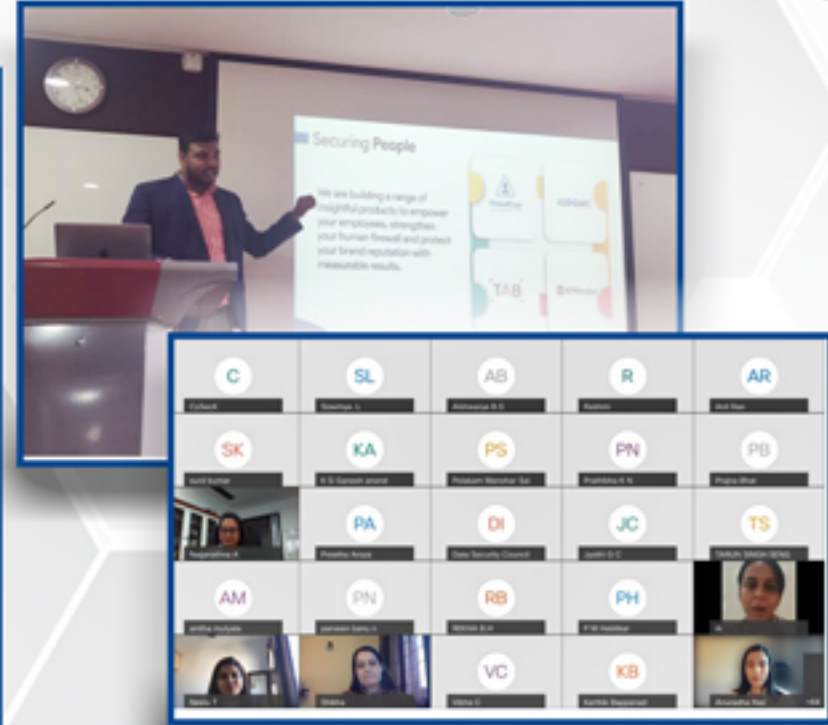
Recognize and reward Scientific and Technological eminence in the state. Instituted by Government of Karnataka.



Centre of Excellence in Cyber Security

New programs

- Promoting the cyber safe and conducive environment for industry collaboration, address the skill gaps, build awareness & facilitate innovation in this emerging technology field of Cyber Security Startups mentoring.
- Organising training programs to create awareness and skill building.
- Funding Research Development Programme for colleges affiliated with VTU and accelerator program for start-ups providing cybersecurity solutions.



Established SC/ST cell

- To promote adaptation of appropriate and relevant technologies for socioeconomic development of marginalized communities by assessing natural & human resource endowment, upgrading skills and creation of micro enterprises for sustainable livelihoods.
- Developing a tool to identify local specific training and skill building programs for improved livelihood and development micro enterprises.

Establishing SHG/FPO enterprises

- To address malnutrition, provide rural livelihoods and to reduce the fruit and vegetable spoilage and post-harvest losses because of lack of primary processing facilities by adopting fuel-efficient bio dryers in Yadgir District, Karnataka.
- End of the project deliverable is to come out with variety of nutrition products to address malnutrition specifically among children and women.



The Centre of Excellence in Aerospace & Defense

In association with Visvesvaraya Technological University trains graduates and post-graduate engineering students on Aircraft and Aerospace Technologies.



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