

Drones



Drones have many functions, ranging from monitoring climate change to carrying out search operations after natural disasters, photography, filming, and delivering goods. It can be used predominantly in sectors such as Agriculture, Energy, Construction, Insurance, etc. where Surveillance and inspections are required to ascertain the facts.

Sector wise Use Cases

MA&UD



Assess plinth area of the building



Building Inspection

AGRICULTURE



Crop Monitoring



Spraying Fertilizers

LAND ADMINISTRATION



Monitoring Govt. Lands

IRRIGATION



Monitoring Irrigation Projects progress

Cloud



Cloud is the key enabler for implementing solutions using Emerging Technologies, as the resources can be scaled up on need basis with provision of super-fast processing times. It ensures Data security, scalable Data storage, cost savings, etc.

Internet of Things (IoT)

Internet of Things (IoT) can assist in the smarter control through devices. It is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity and performs most of the work without human intervention. It establishes a seamless connection between the People, Processes and Things/Devices and can be widely used in all our daily appliances.

Big Data

With data being collected in every application, large data sets are being created by every organization. Using Big data, patterns, trends and associations, can be analyzed with minimal effort and improves the efficiency. Big data management allows governments to understand the needs of their citizens and enables governments and public sector organizations to deliver more efficient and secure services.

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CENTRE FOR GOOD GOVERNANCE

Knowledge • Technology • People

A CMMI Level 3 and An ISO 9001:2015 & 27001:2013

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Emerging Technologies Centre of Excellence



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Centre of Excellence (CoE) for Emerging Technologies

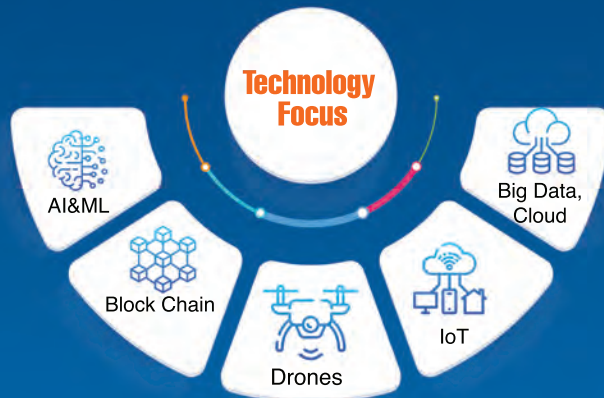


"Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road."
– Stewart Brand



Objective

- ☉ Nurture and promote the use of cutting edge technologies in Government domain
- ☉ Emerge as an Innovation Hub in Emerging Technologies
- ☉ Handhold the Government departments in Implementing new technology solutions
- ☉ Integrate Emerging Technology benefits to eGovernance projects to cover new and untapped areas
- ☉ Enhance quality and speed of service delivery and empower decision-making by big data analysis
- ☉ Initiate new drone based services in various organizations for better Governance



Approach

- ☉ CoE will connect / liaison with Start-ups, Technology Innovation Hubs and Government User Departments to develop the new solutions with the concept of "Small intervention, huge Impact"
- ☉ Identify and Evaluate use cases for Proof of Concept in each category of emerging technology
- ☉ Embed emerging Technologies in existing e-Gov solutions for increasing security, revenue and reach
- ☉ Involve the department to scale up the PoC for implementation

Blockchain

Blockchain is adopted in applications which demand highly secured and tamper proof storage of transactions. Blockchain can be used in any application where a digital asset such as certificates, land records, or any other image files and video files have to be saved and retrieved securely.

The key features of Blockchain technology are Decentralization, Immutability and Consensus, due to which the usage of this technology will ensure Tamper-proof Digital Assets.

Sector wise Use Cases



Artificial Intelligence

AI has the potential to improve governance in every organisation in terms of accountability, citizen engagement and Inter operability. It has become a part of our daily life, as it can rationalize and take actions that have the best chance of achieving a specific goal. The key feature of AI is to automate simple and repetitive tasks, Natural Language Processing, Facial recognition, etc, which can be used in any sector, based on the need.

Sector wise Use Cases

