



Taking India's digital transformation and connectivity to new heights, the **Prime Minister, launched 5G services on 1**st **Oct 2022.**

5G-NEXT GENRATION WIRELE TECHNOLOGY





5G USES CASES SUMMARY



TRANSPORT



C

CONNECTED VEHICLES

A

Intelligent Transportation, Connected & Autonomous Vehicles, Vehicle platooning, Remote Driving, Fleet Management

E-TOLLING

Automated payments through high-speed moving vehicles

NAVIGATION SERVICES

Precise ground-based navigation services for unmanned vehicle/drones





SMART APPLICATION FOR SMART CITY



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MT OT

SI.	Sector	Use cases	Ministry ¹⁶
No.			
1	Smart Cities,	Intelligent Transport, Infrastructure Mgmt,	Ministry of
	Communities,	Lighting, Logistics, Precision Navigation,	Housing & Urban
	Homes	Resource Management, MRO17	Affairs
2	Smart Homes and	Immersive Gaming, Connected Appliances&	Ministry of
	Campuses	Modern Home & Integration, Intrusion	Housing & Urban
		Detection, Smart - Energy, Water, Fire Alarms),	Affairs
		Micro & Indoor Navigation; Service Bots	
3	Connected	Smart Ambulance, Emergency Service Bio-	Ministry of Health
	Healthcare	Connectivity, Real-Time Bio-Connectivity	& Family Welfare
		through Wearables, Robotics, Wearable	
		Telemetry, Transmission of HD Images, New	
		Edge -Tele-Consultation, Block chain Use Cases	
		In Healthcare, Volumetric Analysis of Scans And	
		Reports; Smart Rehabilitation, Assisted Living,	
		Geo-fencing	
4	Education and Skill	AR, VR, MR based Learning and Training, Smart	
	Development	Classroom, Enhanced Viewing Experience In	Education;
		Broadcast & Immersive Learning	Ministry of Skill
			Development &
			Entrepreneurship
5	Power	Smart Grids, Resource Management, Remote	Ministry of Power
		Diagnostics, MRO, Smart Energy (Generation,	
		Trading, Distribution, Metering, Services),	
		Advanced Metering Infrastructure (AMI), SCADA	
		/ EMS, Substation Automation, Micro-Grids	
6	Agriculture	Precision Farming; On-Ground Insurance	Ministry of
		Models; Remote Diagnostics Of Soil, Yield, Pests,	Agriculture and
		Quality; Health Monitoring For Livestock	Farmers' Welfare
		(Connected Cows And Calving); Indoor Farm	
		Monitoring,	
7	Fintech	Near Real-Time Financial Markets, Fraud	Ministry of
		Detection, Enhanced Customer Experience,	Finance
8	Automobile	Connected Cars, Enhanced Safety, Remote	Ministry of Road
		Diagnostics, Assisted / Autonomous Driving,	Transport &

		Fleet Monitoring and Precision Navigation, V2X	
		(Vehicle To Everything), Immersive	Ministry of
		Infotainment,	Railways
9	Industry 4.0	Industrial IoT, Robotics And Increased	Ministry of Heavy
		Automation; Smart Factories, Smart	Industry & Public
		Construction, Quality Control, Digital Twins	Enterprises
10	Retail, Food Quality,	Haptic Experience of Online Shopping, Inventory	Ministry of
	Food supply-chain	Management And Control,	Consumer Affairs
	integrity		Food & Public
			Distribution
11	Sports And Events	On-Line Sports Training With Millisecond	
		Analytics; Enhanced Viewing Experience In	Ministry of Youth
		Broadcast & Immersive Entertainment; Crowd	Affairs & Sport
		Management, Holographic Collaboration	
12	Logistic Hubs Such	Resource Tracking, Automated Inventories and	Ministry of Mines;
	As Sea- Ports,	Control, Diagnostics, Fleet Movement, Safety,	Ministry of Jal
	Airports,	Remote Management of Mines	Shakti,
	Warehouses,		Ministry of
	Resource		Commerce; Public
	Management		& Private Ports,
			Airports
13	Railways	Rail-Track Safety, Trackside Systems For Video	Ministry of
		Analytics, Intelligent Transport, Resource	Railways
		Management	
14	Tourism	AR, VR, Immersive Experience	Ministry of
			Tourism
15	Smart water and	Water management, Water Quality, Safety	Ministry of Jal
	sewage/ Sanitation		Shakti
16	Telecom	FWAs- Rural, Urban broadband connectivity;	Department of
		Underserved areas Broadband PCO	Telecom
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http://bharatdigicom.in

Startup Pilot details - State Government initiatives after 5G Conference

Startup	State	Department	Project Details and Location
Perkant Tech Private Contact-Saniya Jeswan Mob-8226008918	Uttrakhand	Health Department	Health screening systems for the Char dham yatra to ensure pilgrim safety and health screening
Nayan Technology Contact-Mr.Jayant Ratti Mobile-9899398646	Delhi/Uttrakhand	PWD/Traffic Police	AI model combined with CCTV footage and physical logbooks of security guards and other workers , will give real time reports of damages to road and footpaths discolouring of pavemnts and theft of iteams like decorative lights or steel sculptures.
	MP	Health Department	Vidisha District Hospital.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Arunachal Pradesh	Health Department	Bakin Pertin General Hospital & Training Center, Pasighat. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
Easiofy	Nagaland	Health Department	Naga Hospital Authority, Dimapur. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
, Contact-Ms. Noor Fatima	Manipur	Health Department	District Hospital, Senapati.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
Mob-995849937	Mizoram	Health Department	District Hospital, Serchhip.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Meghalaya	Health Department	District Medical & Health Officer, South Garo Hills District, Baghmara. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Tripura	Health Department	Indira Gandhi Memorial Hospital, Agartala. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
TechXR	Madhya Pradesh	Education	CM Rise school, Natheri,CM Rise School, Vidisha,Subhash Government Higher Secondary School, Bhopal,
Contact-Mr. Prashant Mishra	Arunachal Pradesh	Education	Government College of Nursing, Pasighat
Mahila 0000500010	Uttarakhand	Education	Government Inter College, Champawat,
	Assam	AMTRON	Connected 4 Locations in Guwahati for ASWAN Network (one installation on the Carnival Island which was used for G20 Meet in Feb'23 and another across the Brahmaputra River having Aerial distance of 6.5 Kms.)
Nav Technology Contact-Mr. Prashant Gandhi Mobile-9819503295	Gujarat	BSF/Education	1-At BSF NADABET Complex Stadium for TCGL - in the Middle of Rann at Pakistan Border. 2-Dharoi Dam: Connected Dharoi Dam for Seismological Department, 3-DST (GFGNL's BharatNet Horizontal Connectivity) 4-Connected Sachivalay with State Data Centre for GSWAN (for GIL). 5-Schools at Mithavi Rana and Kanji Gram Panchayat under Completion (GFGNL's BharatNet Horizontal Connectivity)
	Uttrakhand	ITDA	Connected ITDA Hq. with the Secretariate at Dehradun.
	Ladakh	Education	Connected Institutes HIAL and SECMOL of Mr Sonam Wangchuk

100 5G Use case Labs for Higher Educational institutions

States/Union territories to facilitate the development, experimentation of 5G applications in various socioeconomic verticals

The Government would be funding 80% of CAPEX for the Lab Setup and 100% of OPEX expenses for the next 4 years. The institution to contribute 20% of the CAPEX



5G Use Case Labs : SHORTLISTED INSTITUTES IN HP

- National Institute of Technology Hamirpur
- Indian Institute of Technology Mandi 2.

C-DOT's IOT Platform

C-DOT has developed a oneM2M standard based IoT platform - CCSP .C-DOT Common Service Platform

• CCSP (IoT platform) as is based on oneM2M standard, allows any IoT application to discover and interact with any IoT device. Also, it reduces fragmentation, increases reusability.

• Benefit of deploying standard based IoT platforms in the IoT ecosystem is that the application provider does not have to modify the IoT Application to use specific APIs of the IoT platform provider , when it goes from one deployment to another deployment across locations/city/state etc..

State is requested to explore one M2M standards based common service platform to caters the common requirements of M2M applications across various verticals/ industry like transport, health

CCSP Advantage & State Onboarding

• M2M features based on the collaborative efforts of the experts from around the world, thus the common problems being faced in IoT industry will be addressed faster.

• It benefits the procurement agencies by offering the ability to commission multistage projects without locking into a single technology or vendor from the outset.

State may register through the link on COI Portal (<u>https://coi.cdot.in</u>) or may contact below

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