

### **GOVERNMENT OF TELANGANA**

### Presentation by Pendyala Srinivas Telangana Secretariat

ITE&C DEPARTMENT GOVERNMENT OF TELANGANA JULY 2022 Delivery of services timely to the People in the State of Telangana

Leveraging with m-Governance

by use of Emerging Technologies such as Cloud, AI, ML, DL, Drones, Block Chain etc., in Transformation

ITE&C DEPARTMENT GOVERNMENT OF TELANGANA JULY 2022





## Crowd Monitoring and Management Application using Al



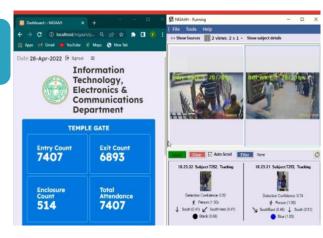
### **Problem:**

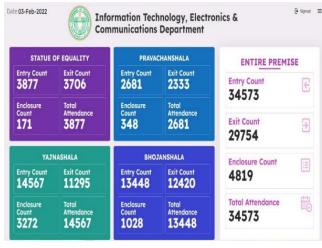
- Monitor crowd in sensitive areas during festivals or public gathering and any other mass gathering activities to alert concerned force to take appropriate decisions.
- Avoid overcrowding/ Stampedes in estimated area and divert traffic accordingly
- Coordinating with other departments to make necessary arrangements (like Municipal, police, transport, Traffic, water works, R&B Health, Fire..etc.)



### **Solution:**

- This application is designed to use real time camera feed and provides the dynamic analytics with dashboard.
- Based on camera's feed It's covers entire premises or specific locations/areas.
- Home Department is requested to facilitate Crowded management application in Chinna Jeeyar Ashram during Prime minister and president visit and after extended to Yadadri Temple.
- Application is compatible to use with Criminal database.
- Able to capture Head count, Facial recognition and full body capture.









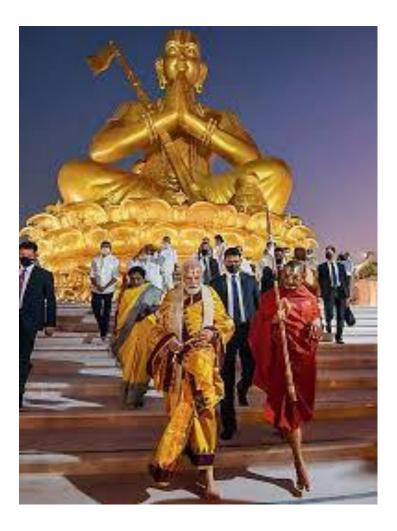
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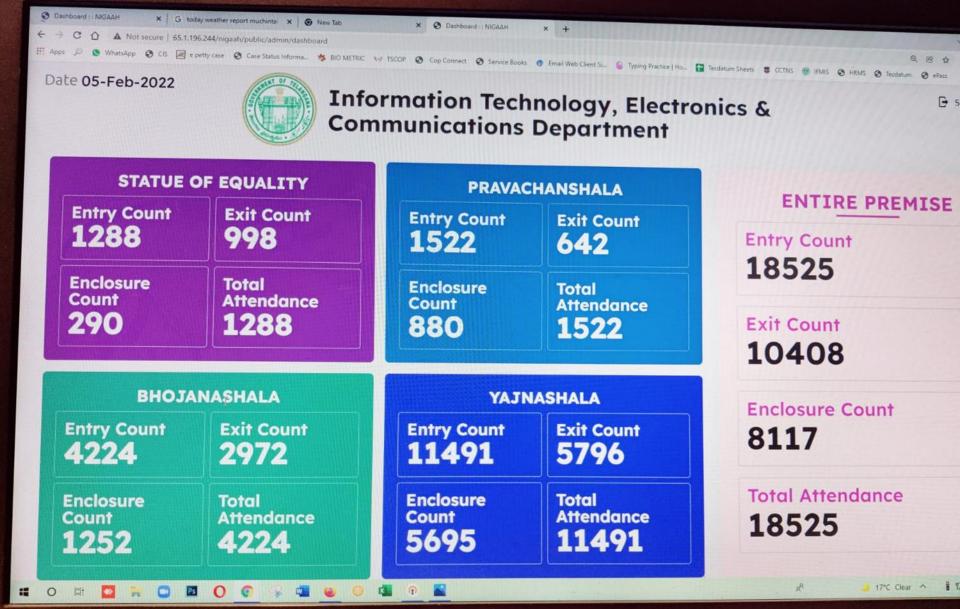
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#### Telangana CMO's post

• The CM inspected the Command Control Centre set up by the Police Department for security during the arrival of President and Prime Minister. Cyberabad CP Stephen Ravindra asked about the security arrangements.







DELL



## Accident Prevention system using AI & ML



#### Problem:

- Driving vehicles long distances is very tiring and challenging job, which needs constant alertness and attention.
- However, in certain times due to tiredness and long hours driver may lose concentration and fall asleep/feel drowsy.
- The same may lead to avoidable fatal accidents, in majority of accidents loss of precious lives and material/assets.
- for this there is no alert system available to avoid accidents.





### Solution:

- •The Artificial Intelligence based Accident Prevention system is developed as a portable and rugged device,
- which can be fitted in the driver compartment with a cameras capturing the face of driver instantly.
- The Al software device in real-time monitors the facial expressions of the driver and detects in case the driver is drowsy, closing eyes or yawning.



### SOLUTION:

- the transmitter system will sound an alarm in the cabin in form of a buzzer to warn the driver and co-driver besides sending an alert to the concerned management.
- •Solution successfully implemented in Transport department and mostly using in long distance and nighttime travel busses.

## Solution implemented in around 20+ busses



## AI / ML / DL / Big Data

## MEESEVA 2.0

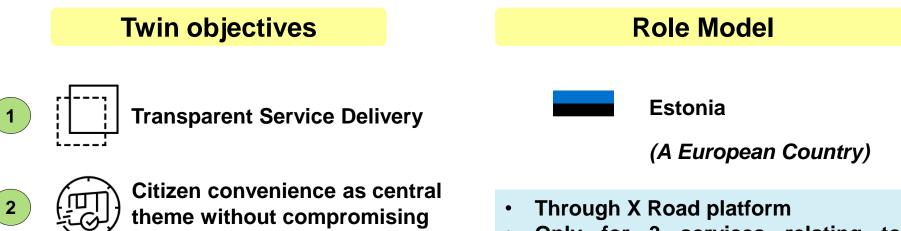
## ELECTRONIC SERVICES DELIVERY(ESD)

**Citizen Centric Services** 

accuracy

#### Well known definition of Democracy

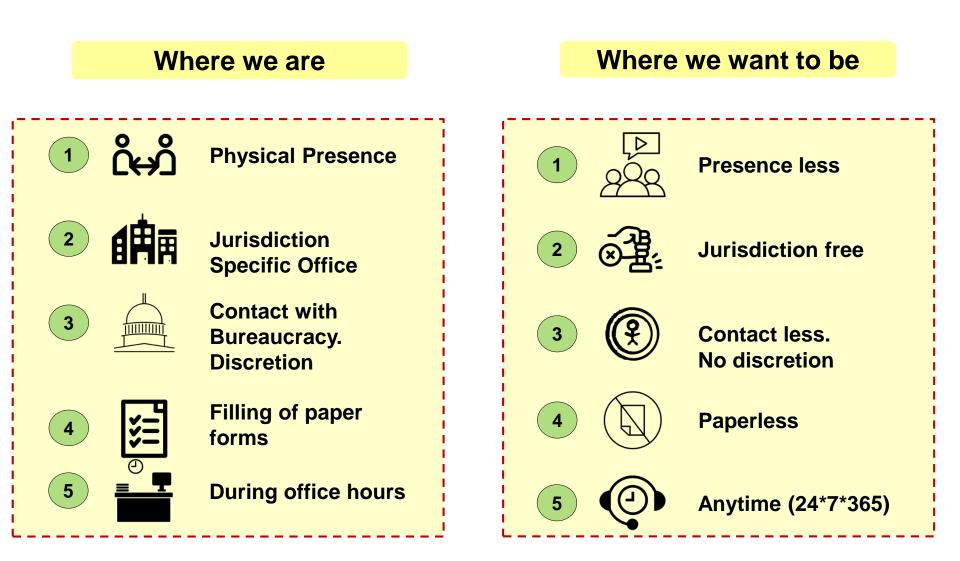
"Democracy is the government of the people, by the people, for the people" - Abraham Lincoln



- Only for 3 services relating to marriage and purchase of immovable property, Citizens visit Government Office.
- All other services are in presence less and contact less manner through smartphone/PC.
- GOI send senior officers to Estonia regularly to study.

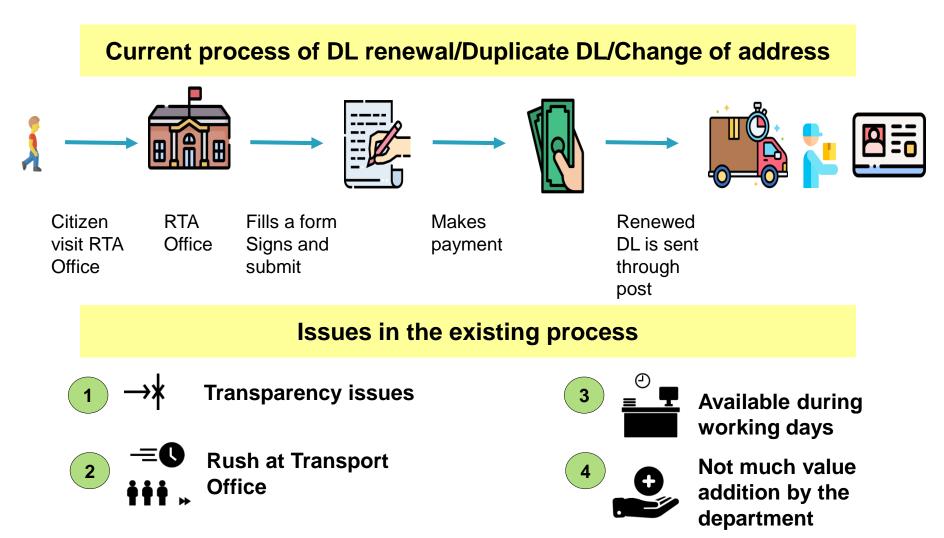








#### Across 4 categories (Driving License, Learning License, Permit & Registration Services)



#### Annual Life Certificate By Government Pensioners and Registration for Degree college admissions



Three existing methods for obtaining Annual Life Certificate

Sub Treasury Office where retired



Bank of the pensioner



Meeseva centre through Aadhar based bio metric authentication



Admission to degree colleges through DOST portal – Process Flow



Registration using Aadhaar. Aadhar number is available in Intermediate



Student has to visit any Mee

- Seva centre
- and do Aadhaar authentication

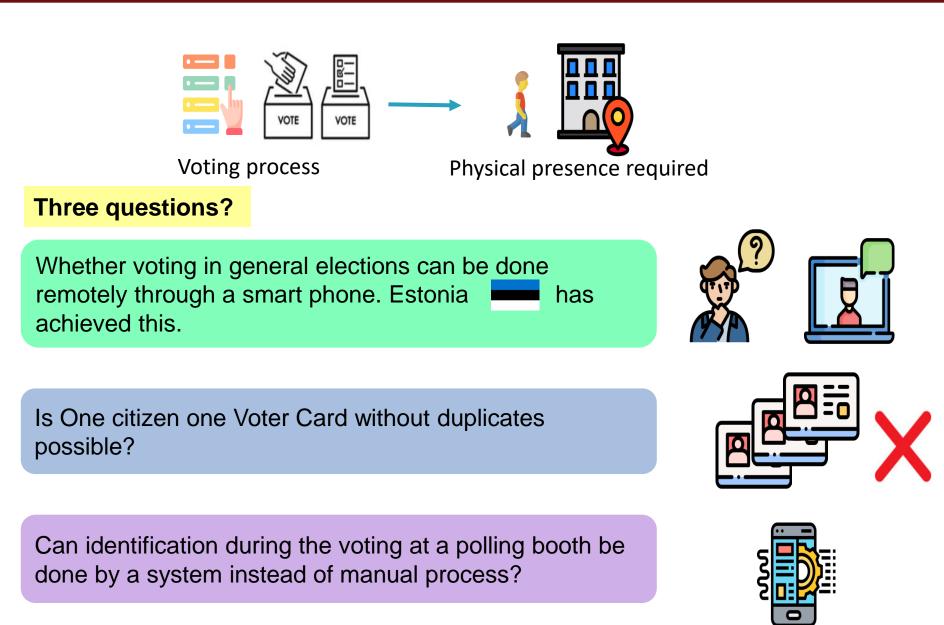
along with Intermediate Hall Ticket number

#### Or

Can do online OTP authentication of Aadhar

#### **Voting Related questions**





#### **ITE&C department explored and found an alternative**



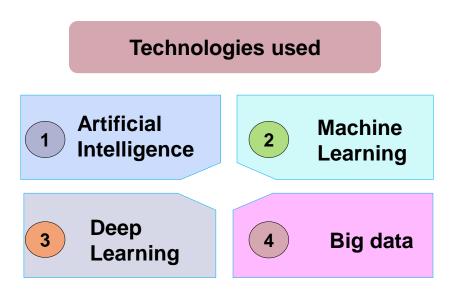
IT&EC department, Telangana Govt. started exploring in 2019 alternative to the 3 manual checks using latest emerging technologies (



#### Idea



An intelligent IT application which can perform the three checks using smart phones at the same efficiency



#### **Solution arrived**

Real-time Digital Authentication of Identity, RTDAI, was developed.

RTDAI provides an easy, convenient and correct authentication of citizens' identity through a smartphone

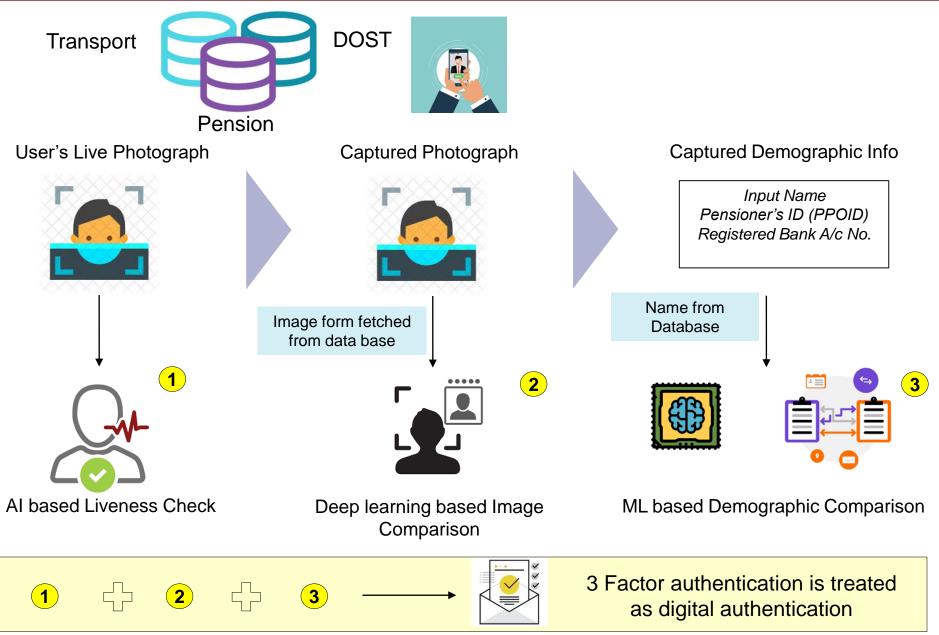
Ushering in the utopian objective of Governance through presence less, contact less, paper less services to the citizens anytime and anywhere.





### A new 3-factor authentication system is designed







#### Where these solutions can be used?

#### **Use in Passport Services**





#### **Passport Services**

100000+ (Average) applications processed by Ministry of External Affairs, GOI in a week

Main Services requiring physical presence







**Additional Booklet** 

### **Use at Transport Departments in all states**





#### State Transport Dept.

Many services can be rolled out

Services requiring physical presence





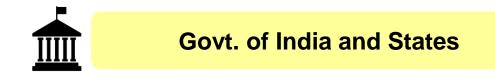
**Issuance of license** 



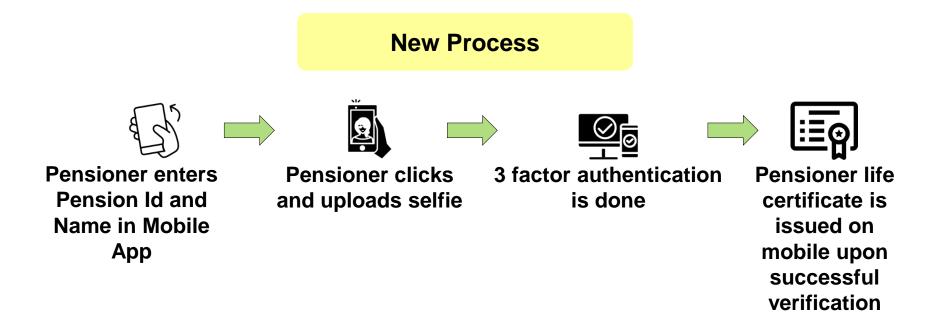
**Permit Services** 

### **Use by Pensioner**





• More than 1 Crore pensioners of central & state Governments Government including defense, railways can benefit









- Aadhaar authentication is being used as the primary identity verification mechanism by various entities such as Banks, Telecom companies, PDS, Income Tax etc.
- Two factor authentication Bio metric (Finger Print/Iris) or OTP
- RTDAI can be used for an alternate three factor authentication without bio metrics

**Demographic+ Liveness+ Facial Authentication** 









#### प्रशासनिक सुधार और लोक शिकायत विमाग भारत सरकार द्वारा सार्वजनिक क्षेत्र के उपकमों से इतर सरकारी विमाग की विद्यमान परियोजना में नवाचारों के लिए राष्ट्रीय ई—गवर्ने स पुरस्कार, 2017—18 (रजत)

आईटीईएंडसी विभाग, तेलंगाना सरकार

के मीसेवा 2.0 के लिए श्री श्रीनिवास पेंडयाला को प्रदान किया जाता है

#### Department of Administrative Reforms & Public Grievances Government of India

is pleased to present National Award for e-Governance, 2017-18 (Silver)

> to Shri Srinivas Pendayala

> > for Meeseva 2.0

of Department of ITE&C, Government of Telangana for Innova<sup>ti</sup>ons in Exis<sup>ti</sup>ng Project of Government Departments other than

**PSUs** 

वी. इपेन/ K. V. Eapen सचिव/ Secretary



## e-Gov - Projects which can be replicated across States

Secretary, MeitY sent a mail in respect of extending support to implement three projects in addition to e-Auction Application



## 1. Meeseva 2.0

- 2. RTA Services
- 3. RTDAI Pension Schemes of TS
- 4. eProcurement / eAuction



# CLOUD

## eOffice Application Suite Migration to CLOUD Environment Based on TS Cloud First Policy



### Using EC2 Auto Scaling to Reduce Usage and Costs:

- The ITE&C Dept., migrated 33 District Instances, 1 Secretariat Instance to CLOUD environment.
- Migrated nearly 95 TB of data, 150 servers consuming about 7,000 GB of memory, and more than 600 CPUs without downtime and no loss of Data.
- A total of 3,000–5,000 officers and staff are using the eOffice application regularly

सत्यमेव जयते

प्रशासनिक सुधार और लोक शिकायत विभाग कार्मिक, लोक शिकायत एवं पेंशन मंत्रालय भारत सरकार

DEPARTMENT OF ADMINISTRATIVE REFORMS AND PUBLIC GRIEVANCES MINISTRY OF PERSONNEL, PUBLIC GREIVANCES AND PENSIONS GOVERNMENT OF INDIA

#### NATIONAL WORKSHOP ON E-OFFICE AND LAUNCH OF CPGRAMS REFORMS

12<sup>™</sup> FEBRUARY, 2020 PRAVASI BHARATIYA KENDRA, CHANAKYAPURI, NEW DE

**राष्ट्रीय ई-ऑफिस कार्यशाला** व सीपीजीरैम्स सुधारों का लोकार्पण १२ फरवरी, २०२० प्रवासी भारतीय केन्द्र, चाणक्यपुरी, नई दिल्ली



## **Block Chain**

## e-Procurement / e-Auction

**Application** 



### **Benefits of e-Procurement Platform:**

- Reduction of inventory cost and cycle time of procurement.
- Storage of documents & bids in encrypted form.
- Transparency in evaluation.
- Improved Institutional memory due to storage of electronic records.
- Data analysis and purchase trends of the supply market.
- Reduction in Administrative cost.
- Reports and Spend analysis



### <u>e-Procurement Statistics</u> :

Financial Year	No of Tenders Published	Value in Crores	No of Tenders Awarded	Value in Crores
2020-2021	54915	52265.74	30170	32455.46
2021-2022	72512	41167.6	36222	11295.27
01-04-2022 to				
09-05-2022	8377	4288.58	3076	1337.92
	289079	191965.61	131503	69376.53







### Certified on GFR Guidelines at Mussorriee IAS Academy

# on e-Procurement / e-Auction

**Certification Awarded** 







# Government Order Issue Register (GOIR)

# The latest version of GOIR 2.0 is launched with new features for use of all the Departments





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#### GOIR ABSTRACT REPORT

S.No.	Project	2014	2015	2016	2017	2018	2019	2020	2021	2022 (12/07/ 2022)	Total
1	GOIR	10309	22129	25252	23961	21570	18950	15881	19197	10185	167434
2	CTDO	16228	43839	48804	43326	52113	52184	86053	68580	18733	429860
3	TGTO	2037	4443	4059	4957	4141	3973	3979	5151	3491	36231
4	FMS	50563	120462	116844	108033	99112	70105	38978	58930	39693	702720
5	SOMS	0	0	10769	13357	11643	10205	7243	8837	4534	66588

#### Covid Related GO's (from 24-03-2020 to 12-07-2022):

- Covid Related GO's issued 330
- Covid Related GO's downloaded by public- 51,652



### **Drones**

### **TS-Genco**













# National Broadband Mission (NBM)

# Right of Way (RoW) Telangana State (Implementation of 5G-Small Cells)























### Aadhaar

# Implementation of DBT Schemes with Sections 7 (DBT related) and Section 4 (Good Governance)

### **Key Enablers of DBT**

#### Mobile

Citizen centric Mobile Apps for submitting applications and

- checking status; SMS based communication Last mile access: UPI, Mobile banking
- AADHAAR

#### Aadhaar as unique identifier

- Targeted beneficiary identification through authentication and deduplication
- Financial address and seamless financial transaction



#### **Banking Facilities**

- · Jan Dhan Yojana (National Financial Inclusion Drive) : Low value bank accounts.
- Jan Dhan Darshak mobile app launched to guide the common people in locating a financial service touch point at a given location

#### Network Infrastructure

- Efficient and reliable network connectivity is a pre-requisite for **DBT** transactions
- Enabled IT systems for effective monitoring of DBT

>114 crore mobile subscribers; >75 crore smartphone users

~133 crore Aadhaar generated Aadhaar Saturation >18 yrs : >99%

Total 149.3 crore bank accounts (operational) in India, including 38.5 crore PMJDY accounts

High-speed Optical Fibre Cable network to 250,000 Gram Panchavats (GPs)

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Note: As on.31" Mar 2022

### **Key Activities in DBT implementation**

5



- Nodal Officers across all DBT implementing Departments (Centre /State)
- Assessment of Schemes for DBT applicability
- Process Re-engineering of DBT schemes
- Digitization through Scheme Management System
- Online and Mobile-based Beneficiary Registration and De-duplication using Aadhaar authentication
- Electronic Fund Transfers (preferably Aadhaar-based) directly to beneficiaries' bank account
- Beneficiary Authentication at time of benefit transfer for in-kind schemes

- Compliance to data security and data privacy standards, including storing of Aadhaar numbers (data vault)
- Use of Local Government Directory codes across all beneficiary databases
- DBT payments (bearing unique DBT Scheme codes) get priority in banking systems.
- Citizen-centric Mobile App (UMANG) for easy citizen-centric access on palmtop.
- Reporting on DBT Bharat portal for comprehensive national picture

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# Use of Aadhaar in Welfare Delivery – Legal provisions



- Section 4 (7): Aadhaar authentication can be mandatory under a law promulgated by Parliament (e.g. linking of PAN with Aadhaar)
- Section 4 (4)(b)(ii): Voluntary use of Aadhaar, in the interest of State. No denial of service (e.g. National Digital Health ID)
- Section 7: Aadhaar authentication, subject to the condition that alternate and viable means of identification are available and Aadhaar enrolment is facilitated. This section is used for DBT and was upheld by the Hon'ble SC in its 2018 judgement.

9







# Conduct of Hackathons for Engineering College Students by

### **eGovernance Wing**







## Projects encouraged by Hon'ble Minister for IT Shri. K.T. Rama Rao garu

# in Implementation Strategy by eGovernance Wing









### **Projects promoted by Gol**

# Government eMarket Place (GeM) NeSDA, eTAAL, Digi Locker, PMGDISHA



## **Projects Developed by NIC**

## Implementation Strategy by eGovernance Wing



## **Collab Files**













#### Welcoming Parliamentary Committees / Secretaries from DARPG

### Conduct of National eGovernance Conferences







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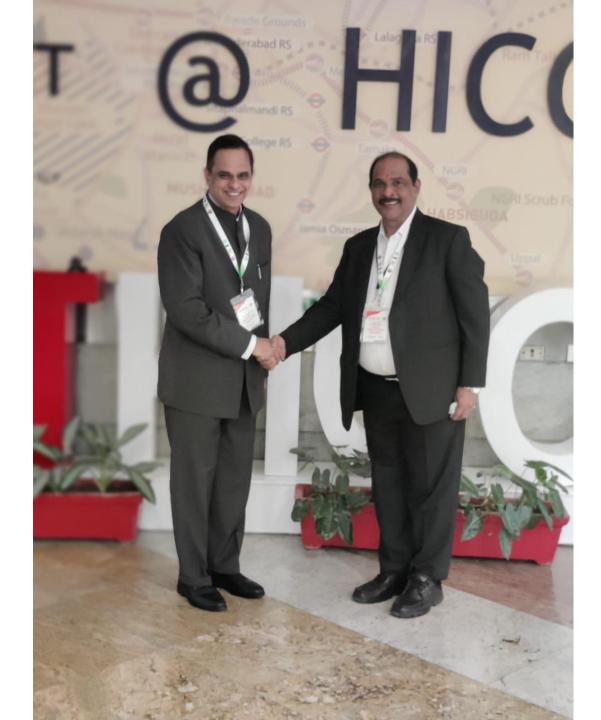
















### The Support extended by the team comprising of AD(eGov) / AD / SeMT and SPMU for the past 5 years is an immense support for extending eGovernance Projects in the Telangana State

## towards Digital Telangana





I am proud to say that, I am honored to work in e-Governance Wing under the able guidance of Hon'ble Minister for IT & Industries Shri. K.T.Rama Rao garu and Shri. Jayesh Ranjan, IAS, Prl. Secretary, ITE&C

towards

# **Digital Telangana**



### I am thankful to work in e-Governance Wing under the able guidance of Shri. G.T. Venkateshwara Rao, IRS, Commissioner ESD / MD TSTS

towards

# **Digital Telangana**



I am thankful to all the departmental officers who are keen to implement Digitization of Government Departments and who extending support to me in person to drive the e-Governance Projects

towards

## **Digital Telangana**



On the occasion of Guru Poornima I express my gratitude and thankful to my Guru, Philosopher, Guide, **Colleague and friend for being guiding** me throughout our journey in office and in person too Shri. B.V. Subrahmanyam, AD (eGov) **ITE&C** Department, Telangana Secretariat, Hyderabad



#### **Thank you**