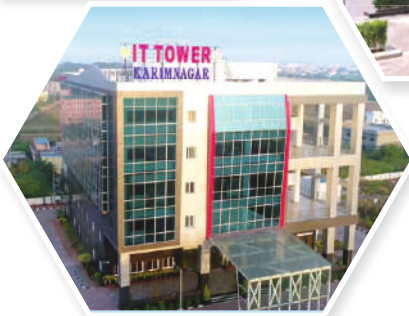


Innovate, Integrate, Inspire Building a Future-Ready Telangana



**ANNUAL REPORT
2022-23**

**INFORMATION TECHNOLOGY
ELECTRONICS & COMMUNICATIONS DEPARTMENT**
GOVERNMENT OF TELANGANA

www.it.telangana.gov.in

Table of Contents

01	From the Minister's Desk	03
02	Department's Profile	04
03	IT/ITeS Exports	05
04	2nd ICT Policy (2021-26) - Vision Statements	06
05	Focus Area - IT/ ITeS, Product Development, Engineering and R&D	07
06	Focus Area - Beyond Hyderabad	11
07	Focus Area - Innovation and Entrepreneurship	12
08	Focus Area - Electronics	31
09	Focus Area - Beyond Digital Infrastructure	33
10	Focus Area - Emerging Technologies	36
11	Focus Area - Skilling, Upskilling & Reskilling	42
12	Focus Area - Digitally Empowered Citizens	47
13	Focus Area - Contactless, Paperless, and Presenceless Government	50
14	Focus Area - ITE&C Department as a Tech Enabler	58
15	Photo Gallery	62

From the Minister's Desk

KT RAMA RAO

Hon'ble Minister for IT, Industries and MA&UD,
Government of Telangana



This past year has turned out to be a year of laurels for Telangana. The seeds that we had sown and nurtured for the progress of the state and its citizens have led to fruition this year. We had set very ambitious targets for ourselves in the 2nd ICT Policy and after 2 years of work, we are well on our way of realizing those targets. Our initiatives and achievements have garnered global recognition, establishing us as a symbol of progress on the national stage.

This year remains our best yet in terms of IT exports and IT jobs created. Even in a year that saw unprecedented layoffs in tech jobs, Telangana has added 1,27,594 new jobs in IT. Our growth in IT/ITeS exports, at a phenomenal 31.44%, is our best yet and is the brightest feather in our cap. It proves to the fact that Telangana is the top destination globally for the IT/ITeS sector. We have seen investments from large and mid-scale companies who have chosen Telangana and Hyderabad as their entry-point into India. More importantly, there are also existing companies expanding their operations which is the greatest endorsement given to our state. Our model of propagating the IT sector development in Tier-II cities has seen great success. A new IT Tower in Mahabubnagar was inaugurated this year and existing towers have seen fresh companies setting up offices, generating employment and providing better opportunities for citizens in these cities.

We succeeded in attracting Foxconn, one of the largest manufacturers of electronic components in the world, to set up a manufacturing unit in the state. This single project will put Telangana on the map for Electronics production and we are one step closer to making our state into the next Electronics Hub of the world. Hyderabad is also making noise as an upcoming EV hub by hosting the Hyderabad e-Mobility Week along with the Hyderabad e-Prix, India's first Formula E race. As part of the e-Mobility Week, we held the Hyderabad E Motor Show which exhibited next-gen EV models from top companies. These events succeeded in bringing international attention to the excellent work that Telangana is doing to create an ecosystem for Electronics, EVs and Energy Storage in India.

Telangana's startup ecosystem also reached new heights this year. Telangana received the 'Top Performer' rank in the State Startup Ranking 2021 for the exceptional support provided to the startups in the state. We also inaugurated two state-of-the-art facilities, T-Hub 2.0 and T-Works, that are the biggest in the world and in India respectively. The two facilities have become

key landmarks in Hyderabad and will form a part of the upcoming Innovation Campus, which will be completed with the inauguration of the IMAGE Towers. T-Hub also received the 'Best Incubator in India' award from Government of India. The innovation ecosystem in the state strives forward with WE Hub empowering women entrepreneurs and TSIC encouraging rural and grassroots innovation in the state. We also launched Y-Hub, India's first incubator for youth, in collaboration with UNICEF. With Y-Hub, we round off Telangana's holistic approach to innovation and entrepreneurship by focusing on every demographic and every step of the entrepreneurial journey.

TASK is an indispensable part of our growth story as they support IT companies, especially in Tier-II cities, by providing them with quality manpower. They train graduates on the most sought-after skills and make them job-ready. T-SAT's programs provide classroom education to school students and prepares candidates aspiring for the huge number of government jobs. It is also a source of information to the public on topics such as health and agriculture. This way we aim to bridge the educational divide by providing quality education to all.

Telangana has established itself as a leader in the adoption of emerging technologies. We received the Gold Icon Award at the Digital India Awards of the Government of India for its work combining agriculture and emerging technologies. Our projects in AI, Blockchain and Drones have received international recognition and we are also the torchbearers of deploying innovative technologies for Government use cases. As a policy of sharing best practices, we have set up a Digital Consultancy wing under TSTS called TIACC which will take our expertise and in-house technology to other states.

I am also very grateful to the guidance and encouragement provided by the Hon'ble Chief Minister to our efforts. The phenomenal feats listed in this report were only possible due to the tremendous work and untiring efforts put by my team led by the Principal Secretary. My heartfelt gratitude also goes towards the industry bodies, investors and other stakeholders without whose support we could not have reached these heights in such a short span. The bar we set is high and I am confident that Telangana will rise to the challenge.



IT, E&C DEPARTMENT'S PROFILE

Information Technology, Electronics & Communications Department plays a crucial role in:

- Policy formulation for IT, ESDM sectors
- Conceptualizing and initiating various e-Governance initiatives
- Promoting investments in IT, ITeS, ESDM, and other emerging technologies through proactive measures
- Creating a congenial environment for IT, ESDM companies to setup/ expand their operations
- Monitoring the benefits of IT percolates to the last mile of the State
- Providing strong communications backbone in the State



VISION

To leverage Information Technology not just for effective and efficient governance, but also for sustainable economic development and inclusive social development.



MISSION

To facilitate collaborative and innovative IT solutions and to plan for future growth while protecting and enhancing the quality of life.



IT, E&C Department functions under one Principal Secretary assisted by senior and middle-level officers. The Department has:

One HOD

- Commissioner/Director. Electronic Services Delivery (ESD/MeeSeva)

One Public Sector Undertaking

- Telangana State Technology Services (TSTS) Ltd.

Three Societies

- Society for Telangana Network (SOFTNET)
- Telangana Academy for Skill and Knowledge (TASK)
- Society for Promotion of Industry and Innovation in Electronics in Telangana (T-Electronics)

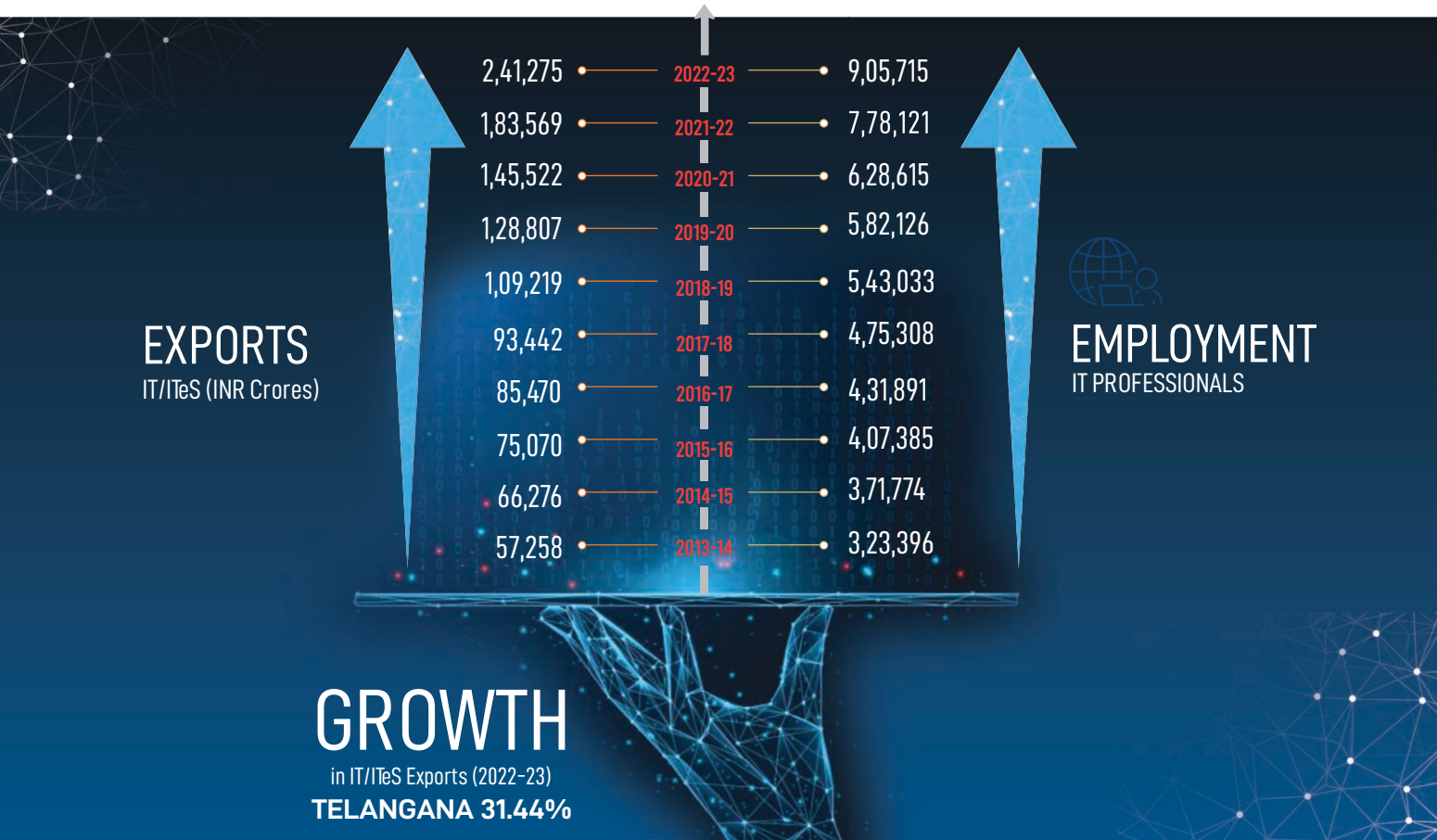
Six Companies

- T-Hub Foundation (T-HUB)
- WE Hub Foundation (WE Hub)
- Telangana State Innovation Cell (TSIC)
- T-Works Foundation
- Telangana Fiber Grid Corporation (T-Fiber)
- Photonics Valley Corporation (PVC)



TELANGANA IT/ITeS EXPORTS SCALING UNPRECEDENTED HEIGHTS

- Telangana witnessed a remarkable increase in IT/ITeS exports, reaching a staggering Rs. 2,41,275 Crores during the fiscal year 2022-23. This represents an astounding growth of 31.44% compared to the previous financial year. The surge of Rs. 57,706 Crores in the fiscal year 2022-23 is the highest annual rise since the formation of the State.
- Telangana added 1,27,594 new jobs during the financial year 2022-23, bringing the total IT/ITeS employment to 9,05,715. This represents an impressive year-on-year increase of 16.29% compared to the FY 2021-22.
- The State is making rapid strides in its IT/ ITeS sector exports and employment generation, positioning itself to exceed the target of Rs. 3 lakh Crore exports and 10 lakh jobs set in the 2nd ICT Policy 2021-26. In fact, Telangana is poised to achieve these ambitious milestones as early as next year (2024), two years ahead of schedule.



*The statistics were provided by Director of Software Technology Parks of India, Hyderabad (STPI) and Development Commissioner, VSEZ

Vision Statements

2nd ICT Policy (2021-26)



ITE&C Department of Telangana Government has launched a new ICT policy (2021-26) to adapt to the evolving technology landscape. The policy builds upon the success of the previous policy (2016-21) and focuses on areas such as data centers, open data, AI, and electronics. The COVID-19 pandemic's impact has accelerated digitalization, necessitating technology-driven solutions. Telangana aims to align its efforts with national initiatives for digitalization and self-reliance. The state also seeks to benchmark against global leaders in ICT, leveraging best practices for technological advancements and attracting investments.



Digitally Empowered Citizens

Telangana has consistently been recognized for its efforts in promoting technology adoption and digital services for its citizens. The COVID-19 pandemic has presented an opportunity to leverage digital solutions for critical needs. In light of global advancements in the digital realm, it is crucial for the state to prepare its citizens for the present era. To enhance the lives of its citizens, the ITE&C department has devised a comprehensive strategy focused on equipping individuals with digital skills and providing necessary digital infrastructure. This multifaceted approach aims to empower citizens in the digital age.

Digital Government

Telangana aims to provide citizen services without requiring in-person presence, except for necessary physical tests or inspections. The government sets benchmarks for contactless, paperless, and presence-less services, focusing on digital transformation to improve accessibility, efficiency, and accountability. Officials will be digitally upskilled, and smart governance tools will optimize resource utilization and service delivery. A citizen-centric omnichannel feedback system will ensure data-driven decision-making.

Innovation & Entrepreneurship

Innovation and entrepreneurship are vital for Telangana's fast-growing economy, fostering self-reliance and driving employment. The state has built top-notch infrastructure and organizations. Moving forward, the focus is on strengthening the ecosystem, nurturing skilled talent, improving market access, and fostering a conducive funding environment. Telangana aims to become a thriving hub for innovation, start-ups, and public impact-driven ventures.

ICT as an Industry

Telangana is a rapidly growing state with a strong focus on the IT and Electronics sectors. The aim is to maintain its position as a preferred investment destination and create more job opportunities. Developing IT clusters in Tier-II cities is a priority to decentralize development, boost employment, and enhance living standards.

ICT For Development

The Government of Telangana believes in utilizing technology to solve societal problems rather than just being an enabler. The COVID-19 pandemic has revealed opportunities to enhance citizens' lives through technology. The state will leverage data-driven solutions to address challenges in areas such as social welfare, environment, health, education, and livelihood.





IT/ ITeS, Product Development, Engineering and R&D

Over the past year (2022-23), Telangana has witnessed significant investments and advancements in the Information Technology, Electronics, and Communications sectors. The state has emerged as a prime destination for major companies and organizations seeking to establish a strong presence in these industries. These investments have not only bolstered the state's economy but have also created numerous job opportunities for its youth. Telangana's commitment to fostering innovation, providing a conducive business environment, and developing world-class infrastructure has attracted prominent players in the IT, electronics, and communications sectors, solidifying its position as a hub for technological growth and development.

Major IT Investments



Bosch Global Software Technologies

IT Minister KTR inaugurated Bosch Global Software Technologies' smart campus in Hyderabad. Bosch, a German multinational company and global leader in mobility, industrial engineering, and home appliances, has established its Center of Excellence as a technology and innovation R&D hub. The facility in Hyderabad focuses on automotive engineering and digital enterprise.

Microsoft Data Centres

Global IT giant Microsoft announced to establish three more data centres in Hyderabad in addition to the three that it would be setting up in Telangana. This announcement was made during a meeting between Minister KTR and Microsoft President (Asia), Ahmed Mazhari, at the World Economic Forum (WEF) in Davos.



ZF Expansion

ZF, a leading global technology company, has recently inaugurated its new and largest software hub in Hyderabad. The facility, spanning 3,00,000 sq.ft., marks a significant expansion for ZF. The company's initial facility in Hyderabad, established in 2017, has already witnessed the doubling of its headcount. As part of its expansion plans, ZF aims to further increase its engineering workforce to 5,000 engineers at the tech center.

AWS Cloud



Amazon Web Services (AWS) announced to set up state-of-the-art data centres in Hyderabad and committed to invest Rs. 36,300 Cr. The three data centres form an integral part of AWS's goal of strengthening its cloud infrastructure to serve its customers in India and worldwide which strengthens Telangana's position as a progressive data centre hub in India.



Callaway Golf

Minister KTR inaugurated the DigiTech facility of Callaway Golf Company, a global leader in golf equipment, apparel and entertainment, in Hyderabad. The 20,000 sq ft facility at HITEC City will employ about 200 people, opening up a new sector for companies in sports and sports-allied arenas to set up their offices in Hyderabad.

Experian Services

American-Irish consumer credit reporting giant Experian expanded its operations in India. The newly expanded facility is spread over 35,000-40,000 sq.ft. and plans to employ 4,000 people in the next 3 years.



LTIMindtree

Technology consulting and digital solutions company LTIMindtree expanded its Hyderabad operations by opening a new 1,00,000 sq.ft. Digital Experience Centre in the city, increased its workforce to 5,000 engineers at the tech center.

TUV Rheinland

TUV Rheinland and Automotive Test Systems (ATS), leading global automotive testing operators, will set up India's first CAV proving grounds, and state-of-the-art EV, battery, and emerging technology testing labs in Telangana Mobility Valley. Will invest Rs. 250 Cr.



CyberArk

CyberArk, a global leader in cyber security research, expanded its presence in Hyderabad by setting up a new R&D centre in Hyderabad. The R&D centre aligns with CyberArk's vision to deliver the world's most advanced Identity Security platform.

London Stock Exchange Group

Over 300 year-old London Stock Exchange Group PLC (LSEG), a leading global financial markets infrastructure & data provider, announced its decision to set up a Technology Centre of Excellence in Hyderabad. The Centre will generate employment for about 1,000 people in a year.





DAZN

DAZN, a global leader in Sports Livestreaming with a presence in 180 countries, has chosen Hyderabad for its Product Development Centre (DC). The DC will create 1,000 jobs for Telangana's youth in 2023, and 3,000 jobs by 2024. DAZN streams UEFA Champions League, Europa League, Serie A, La Liga, English Premier League and IPL in other countries. The investment is a testimony to Telangana's growing presence in the areas of Innovation, Media, and Entertainment.

Warner Bros. Discovery

Global Media powerhouse Warner Bros. Discovery has entered into the entertainment realm of Telangana. They announced plans to set up an International Development Centre (IDC) in Hyderabad with a whopping 1,200 employees in the first year alone. Their impressive portfolio includes HBO, CNN, TLC, Discovery, Discovery Plus, WB, Eurosport, Animal Planet, Cartoon Network, Cinemax, HGTV, and Quest.



ZapCom

ZapCom Group Inc, a US-based Product Engineering and Solutions company, has chosen Hyderabad for their Center of Excellence (CoE) specialising in AI and NLP-driven products for the Travel & Hospitality, Fintech, and Retail sectors. The proposed CoE in Hyderabad will initially employ 500 people, and expand to more than 1,000 headcount within a year.



TechnipFMC

TechnipFMC, a French American Oil and Gas giant, has selected Hyderabad as a critical hub for their software Global Delivery Center & Precision Engineering Manufacturing Facility. The proposed facility will create 2,500 jobs in engineering and 1,000 jobs in the manufacturing facility. The investment of over Rs. 1,250 Crores with an export value of Rs. 5,400 Crores is a major boost to Hyderabad.



AlliantGroup

AlliantGroup, a global leader in consulting and financial services, announced its decision to expand operations in Hyderabad in a big way by adding 9,000 new jobs. The new investment gives Telangana's youth opportunities in the areas of Tax, Accounting, Audit Services and core IT.



VXI Global Solutions

A Bain Capital Owned company, VXI Global Solutions, a leading provider of customer experience solutions, with a presence in 42 locations across North America, Latin America, Asia, Europe, and the Caribbean, announced its entry into Hyderabad. To set up a centre with 10,000 employees.





Mondee Holdings Inc

Mondee Holdings, Inc. announced the establishment of a Technology Centre of Excellence in Telangana generating employment opportunities for about 2,000 people. Mondee Holdings, Inc. is a NASDAQ-listed, world's largest B2B2C travel marketplace and technology innovation company, delivering a revolutionary technology platform of SaaS, mobile, and cloud products and services to a global customer base, processing over 50 million daily searches.

Rite Software

Rite Software has announced to set up their new Development Centre in Hyderabad. This centre will provide employment opportunities for over 500 people in 2023 and also establish collaborative partnerships with some of the esteemed academic institutions of Telangana. The firm also has plans to expand to Tier-II cities of Telangana like Warangal.



Swiss Re

Swiss Re, a 160-year old world's leading provider of insurance and reinsurance, headquartered in Zurich, Switzerland, is setting up their innovation and analytical center in Hyderabad. It's a big addition to the state's BFSI ecosystem.

State Street

Hyderabad now becomes the second largest presence for State Street after its Boston Headquarters. StateStreet, one of world's largest asset management companies with over \$40 trillion under its custody, is expanding big in Hyderabad by adding 5,000 new jobs.



Sonata Software

Sonata Software, a leading modernization engineering company, is expanding its footprint in Tier-II towns of Telangana by adding 200 jobs in Nalgonda IT Tower, which will begin its operations soon. The center's primary objective is to foster the creation of innovative solutions that cater to the diverse requirements of various industries, including banking and financial, healthcare, and life sciences.



Beyond Hyderabad

Telangana Government is actively promoting employment opportunities and the development of Tier-II and Tier-III cities in the state, aiming to create IT powerhouses similar to Hyderabad. The introduction of the Rural Technology Policy further supports progress in Tier-II cities and rural areas, fostering economic growth and creating more opportunities for professionals. The IT, E&C Department has initiated the establishment of IT Towers/Incubation Centres in cities like Warangal, Karimnagar, Khammam, and Mahabubnagar, attracting investments and driving growth. The 2nd ICT Policy has set ambitious targets of generating 25,000 jobs and contributing 5% of total IT exports from these locations.



The IT sector in Telangana's Tier-II towns continues to flourish as the Minister for IT, KT Rama Rao inaugurated the offices of four prominent companies viz. LTI Mindtree, Genpact, HRH Next, and Hexad Solutions Pvt. Ltd in Hanumakonda. About 2,500 IT professionals are working out of the IT Towers built in Warangal and Hanumakonda. This significant development highlights the growing prominence of these towns as emerging IT hubs, offering new opportunities and fostering economic growth.

Minister for IT, KT Rama Rao along with Minister for Tourism & Culture V. Srinivas Goud, inaugurated IT Tower in Mahabubnagar on 6th May 2023. The IT Tower spread across four acres and is built in 60,000 sq.ft. The five-storey building can accommodate 44 companies and 1,000 IT professionals can work out of it. The IT Towers also houses the regional centres of T-Hub, TASK and WE Hub. Nine companies have come forward to start their operations.



Minister KTR, in his business trip of May 2023, met with NRI CEOs in Washington DC in the US, and highlighted the growth of IT sector in Telangana's Tier-II cities inviting them to start their operations from there. Several companies signed MOUs with the government to set up their offices in cities like Warangal, Nizamabad, Karimnagar, Mahabubnagar, Siddipet and Nalgonda. Minister KTR spoke on the 3D mantra - Decongest, Decarbonise and Decentralise - that drives the expansion of the IT/ITeS sector beyond Hyderabad.



Innovation and Entrepreneurship

The Telangana Government has set-up T Hub, WE-Hub, TSIC, T Works, TASK, Emerging Technologies Wing, and IMAGE CoE to encourage innovation and develop a vibrant startup ecosystem. These interconnected entities have established a value chain, allowing innovators from remote areas to gain recognition, receive incubation and scaling support, and access skill-building opportunities. The government aims to enhance the startup ecosystem such that Telangana is the primary choice for entrepreneurs looking to set-up operations with the help of accommodating policy frameworks and ample support across all stages. The envisioned future of Telangana's innovation ecosystem is to become an exemplary model for the country, with a complete value chain supporting start-ups, grassroots innovation, and social impact.

T-HUB: World's Largest Innovation Campus
We-HUB: India's only state-run Women Innovation Hub
TSIC: Student and Grassroots Innovation Cell
T-Works: India's Largest prototyping centre
TASK: India's top government-run skilling program
Emerging Technologies: Government adoption and promotion of new technology
IMAGE CoE: India's only Centre of Excellence for IMAGE sector



Telangana, home to the world's largest incubator, has been recognized as the 'Top Performer' for developing a robust startup ecosystem in the state by the Central Government. The Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, released the State Startup Ranking in July 2022.

T-HUB



t-hub.co [THubHyd](#) [T-Hub-Hyderabad](#)

Since its inception in 2015, T-Hub has consistently worked towards building a comprehensive global innovation hub. Taking a step forward in the right direction, in 2022 T-Hub 2.0 was launched as the world's largest innovation hub to reinforce its commitment to making entrepreneurs successful, with access to 6Ms (Mentors, Market access, Methodologies, Money, Manpower and Motivation) and 2Ps (Partnerships and Policy advisory). It has also institutionalized programs for startups, corporates, and other stakeholders, delivering 75+ innovation programs to date. Its success lies in the numbers – today, T-Hub's remarkable success is evident in its extensive collaborations with over 600 corporates, expanded partnerships with academic institutions, and a vast network comprising 70+ investors. Additionally, T-Hub has played a pivotal role in facilitating academia's integration of innovation and an entrepreneurial mindset into their curriculum. It has also empowered corporations to cultivate a culture of innovation within their organizations.

Over the past year, T-Hub has achieved remarkable success. They facilitated raising of \$8.5 million and engaged 75 High Net Worth Individuals (HNIs). T-Hub conducted regular information awareness sessions, connecting startups, enabled corporate connections for 39 startups and supported over 100 startups in connecting with industry bodies, government entities, and private players. Moreover, T-Hub has been instrumental in empowering 21 startups with invaluable international and national market access, while witnessing an overwhelming response with over 1,000 CXOs and founders eagerly joining its dynamic and vibrant ecosystem. Their community events impacted more than 150 startups, while their Idea Open House validated the ideas of 200 founders. Through their accelerator programs, T-Hub supported 72 startups, leveraging the expertise of 112 mentors, including 13 super mentors.

T-Hub 2.0 launch event



T-Hub organized a grand event for the launch of T-Hub's new building. T-Hub unveiled world's largest innovation campus in India. The inauguration was done by K. Chandrashekar Rao, Chief Minister of Telangana and eminent dignitaries were present such as KT Rama Rao, Minister of IT, Industries, Municipal Administration & Urban Development, Government of Telangana, Jayesh Ranjan, Principal Secretary of the Industries & Commerce and Information Technology, Vani Kola, Managing Director at Kalaari, and Varun Thamba, Director Data and Analytics CoE.

Startup Scaling Programs

At the forefront of fostering innovation, T-Hub has made significant strides by establishing impactful programs, empowering startups and young entrepreneurs, and cultivating a robust and vibrant innovation ecosystem. T-Hub has seen a rise in the number of regional startups from 400 in 2016 to about 2500 now.

Lab32

T-Hub's Lab32 program focuses on helping seed-accelerator stage startups achieve self-sustainability and rapid growth. It has become the country's leading program for preparing startups to be market-ready. The program has achieved significant milestones in terms of employment and revenue generation. In the latest cohort (10th), out of over 800 applicants, 14 startups were selected based on founder attributes, D2C/B2C business models, and initial market validation.

Big Leap Program

This year, T-Hub launched the first cohort of its Big Leap Incubator program. The Big Leap programme is an exciting opportunity for Indian entrepreneurs to connect with some of the most talented innovators from across the globe. T-Hub selected 12 Australian startups to support their go-to-market strategy, local market access, and networking opportunities in India. It is a 12-month hybrid program in partnership with La Trobe University, digital marketing agency Arrow Digital, and early-stage venture capital firm Investible.

RubriX

This year, T-Hub launched the second cohort of its first product development program, the program enables rapid product development with reduced costs by providing necessary training, mentorship, tools & resources to the startups. The startups, by the end of the program, will have their Minimum Viable Product (MVP) ready to market. A total of 13 startups were shortlisted from 325 applications across the country for the RubriX program, which are from various industries and sectors including fintech, healthcare, education and EV, among others. T-Hub also partnered with f5, GitHub, Digital Fabric, Moolya Testing and UCC for this cohort to give startups hands-on industry experience.



Corporate Engagements



T-Hub has evolved from prototyping programs to crafting institutionalised programs to support the innovation journey of over 600 corporates like Uber, HCL, Boeing, Microsoft, and Qualcomm with more than 40 corporate innovation programs.

In one year, T-Hub has forged new partnerships with corporates like Renault Nissan Technology, Business Centre India (RNTBCI), AWS, Suzuki Innovation Center, Algorand Foundation, Berkadia and Collins Aerospace. T-Hub's partnership with RNTBCI helped 4 startups to raise Rs. 4 million. T-Hub and AWS selected 10 startups for the AWS-Intel Innovation Pod for Drone-tech Accelerator program.

Over the past year, T-Hub has demonstrated a strong commitment to fostering its engagement with the investor ecosystem, resulting in several fruitful collaborations. Notably, T-Hub has successfully partnered with esteemed investors such as Hyderabad Angels, SucSEED Indovation, and DVC Fund.

These new alliances have opened doors for T-Hub to support DVC in discovering and empowering fast-growing, innovative startups. Additionally, the partnership with SucSEED Indovation presents an exciting opportunity for startups to secure funding from the SucSEED Indovation Fund and become part of its prestigious portfolio. Moreover, through the collaboration with Hyderabad Angels, startups affiliated with T-Hub gain access to investment prospects spanning various countries, including India, the US, the UK, Singapore, Dubai, and the UAE. Furthermore, to enhance the level of engagement, Hyderabad Angels and SucSEED Indovation have established a presence within T-Hub's recently inaugurated facility, creating remarkable synergies between the investor firms and all stakeholders associated with T-Hub.

Government Engagements



Over the past year, T-Hub has played a crucial role in facilitating government engagements, particularly in Bihar, by actively promoting the entrepreneurial ecosystem in the state. This endeavour was realised through a significant milestone - the signing of a Memorandum of Understanding with CIMP Business Incubation and Innovation Foundation (CIMP-BIIF), which collaborates with the Department of Industries in Bihar to manage B-Hub. Additionally, T-Hub announced its partnership with HAL, showcasing their commitment to collaboration and driving innovation in the sector.

This year, T-Hub also collaborated with esteemed institutions such as DST Centre of Excellence, FICCI Flo and has extended its support to CII Incubator. T-Hub's involvement in government programs has been significant, including its participation in the largest IDEX program after Forge and the MSME Startup Program.

Program by AIC T-Hub Foundation

AIC T-Hub Foundation, a partnership between AIM and T-Hub, supports innovative startups in Healthcare, Mobility, and Sustainability sectors. Three cohorts have been organized, including semiconductor, healthcare, and mobility programs. The semiconductor cohort provided 10 startups with access to investors, mentors, and industry experts. The healthcare cohort selected 17 startups after a rigorous screening process. Additionally, 20 startups focusing on mobility were chosen from over 230 applicants for a three-month program.

Accelerator Program

T-Angel

This 90-day accelerator program enables startups to get investment-ready through engaged mentoring, while enabling High Networth Individuals (HNIs) and startup enthusiasts to explore angel investment. Through this program, MVP-ready startups in any technology and industry get mentorship, investor connects and learning. Sixty-three startups have participated across three cohorts of this program. Recently, T-Angel's Cohort 5 shortlisted 20 startups from 675 applications from across the country.

Capacity Building Initiatives

Setting up Geospatial Experience Centre

T-Hub announced a collaboration with technology major Hexagon for building a Geospatial Experience Centre this year. The geospatial experience centre will help identify innovative ideas, individuals and startups while also boosting technological capabilities for startups such as facilitating open innovation for early and growth stage startups, experiments for developing proofs-of-concept in the fields of geospatial technology, networking and partnership exposure and accelerating their proficiencies.

Setting up Incubator centre with JIIBAI

T-Hub collaborated with J B Institute of Inventors Association India (JBIIAI) to establish an incubator centre under T-Hub's Kickstart initiative. Under this partnership, T-Hub will provide a 12-month long incubation centre setup playbook, which will train faculty and students to create successful startups.

International Engagements



- T-Hub has partnered with international ecosystem enablers such as Pontaq, SwissRe GBS, Indo-French Chamber of Commerce and Industry (IFCCI), FalconX.
- This year during City Tech Tokyo event, T-Hub selected 9 startups to showcase India's Innovation Potential in Japan.
- T-Hub and Redberri came together to establish an innovation center, which will serve as T-Hub's global outpost in North America.
- T-Hub partnered with Twinings, a British marketer of tea and beverages owned by Associated British Foods (ABF), to support their entry and success in the Indian market, providing valuable insights and opportunities for growth.
- T-Hub organized the Arrow Indo-Armenian Summit, bringing together entrepreneurs and ecosystem leaders from the Armenian tech ecosystem.
- Hosted Dubai and Sharjah Roadshows: T-Hub organized Dubai and Sharjah Roadshows, providing a platform for 20 T-Hub startups.
- Facilitated Global Connections: T-Hub actively facilitated over 100 connections for Indian startups through various workshops, round tables, and knowledge sessions.

Awards

Best Incubator in India

T-Hub received “Best Incubator in India” award at the National Startup Awards 2022 on National Startup Day. T-Hub emerged as the winner for its efforts in providing support to the growth of the startup ecosystem in Telangana. The award was presented by Piyush Goyal, Union Minister for Commerce and Industry and Consumer Affairs.



National Technology Awards

T-Hub has been honored with the National Technology Business Incubator Award by the Department of Science and Technology, Government of India. This prestigious recognition celebrates T-Hub's outstanding contribution in promoting innovative, technology-driven start-ups and supporting techno-entrepreneurship development.

Events



▶ T-Hub 2.0 launch event



▶ Flame of Entrepreneurship event



▶ A two-day Corporate Innovation Conclave organised by T-Hub



▶ Foundation day event



▶ Skyroot success event



▶ Scale-up Summit

T-Hub Visits



▶ Belgium delegation visit



▶ Capgemini Global Leadership Team



▶ U.K High Commission visit



▶ Delegates from the U.S. Department of State visit T-Hub



▶ Notion CEO visit



▶ Terumo Team's visit to T-Hub



▶ Westren Australia delegation visit

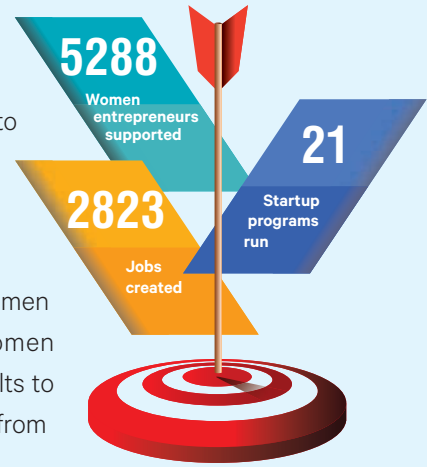


▶ Sweden Embassy visit

“Women First, Prosperity for All”

WE Hub is a first of its kind State-led platform, with the primary goal to promote and foster women entrepreneurship by way of Incubation, Access to Government and Building a collaborative ecosystem. Since its inception, WE Hub has conducted various programs, primarily focused on three segments/target groups of beneficiaries.

On Nov 30th, 2017, the Government of Telangana announced WE HUB (Women Entrepreneurs HUB) with an idea to change the narrative on Women Entrepreneurship. The path that was set in 2018 has led to incredible results to showcase the strength of Women Entrepreneurs & Entrepreneurship from across socio economic, geographic & educational backgrounds in Telangana.



WE Hub Impact

To scale the efforts of Women Entrepreneurs further, the Government of Telangana has built India's 1st women only industrial parks in Sultanpur & Nandigama. Telangana has gone a step ahead and reserved 10% of the land in all the Industrial parks for Women Entrepreneurs. WE HUB has been enabling women entrepreneurs to utilise this opportunity and create manufacturing units to create more employment. The jobs that are being created are mostly local and improve employment rates in Tier-II & III cities in Telangana.

Major Programs

Pre-Incubation

Open House: A monthly session to address queries related to Startup Assistance, Program Eligibilities, Funding Support, and other opportunities available at WE Hub.



Incubation

Girls in ST(E)AM: WE Hub designed an eight-week programme to enable girls in the age group of 13-17 to choose and explore entrepreneurship through ST(E)AM (Science, Technology, Engineering, and Mathematics) skills. The students will get hands-on learning in relevant courses.



KGBV Sircilla Students Exposure Visit to WE Hub as part of GIS program



We-Alpha: Understanding the importance of bridging the gap between academic entrepreneurial cells and real-world startup ecosystem, WE Hub has initiated a one-of-a-kind student entrepreneurship program called WE Alpha



GIZ: This program ensures that entrepreneurs across sectors receive support in scaling up their enterprises through various initiatives at WE HUB and encourage individuals across socio-economic strata to become job creators as opposed to job seekers.

TRICOR: TRICOR was a knowledge transfer session with aspiring entrepreneurs from the three Integrated Tribal Development Areas of Telangana. The session covered various aspects around the provision of technological facilities, avenues for initial growth funds, market research, building networks, building forward and backward linkages, mentoring, and advisory support.



Acceleration



Launch Pad: It is a 6-month program which is a combination of Knowledge sessions, workshops, AMA sessions, exposure visits and networking sessions with successful entrepreneurs. The program covers topics like Modernizing Supply chain, Identifying right channels, Building robust supply chain, maximizing sales, Customer satisfaction, Determining ROI, Logistics Optimization, aimed at more well-established startups and businesses.

Inclusion Programs

Project Ujaagar: Program aimed at promoting entrepreneurship and financial literacy among minority women and encourage women-led businesses to formalize. It aimed to minimize imbalances and development deficits in the identified participants by providing them with a platform to advance their business.



Program for PWD women: Differently abled women under four categories (locomotor disability, hearing impairment, dwarfism, and visually impaired) from the Network of Persons with Disabilities (NPD), Hyderabad, visited WE Hub for an exposure visit on women entrepreneurship and guidance on business interventions.

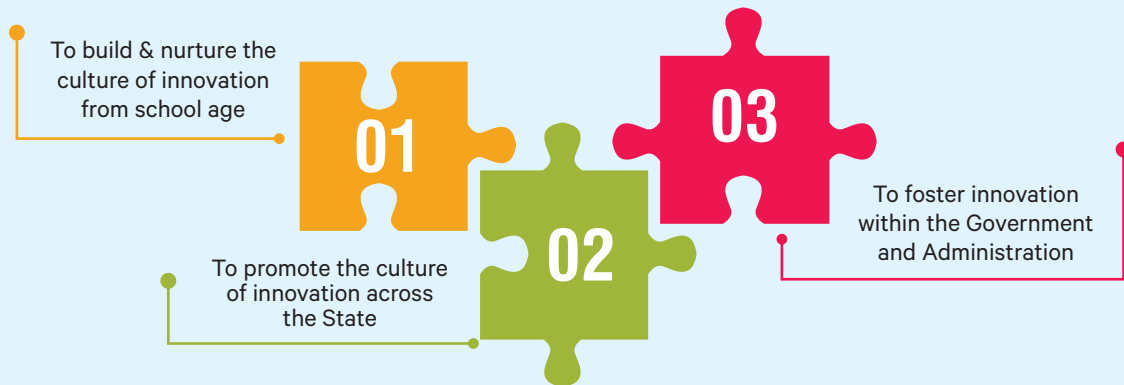
Dignitaries Visit

Western Australia Delegation: A delegation led by Western Australia's Minister for Emergency Services, Innovation and Digital Economy, Stephen Dawson visited WE Hub on March 26, 2023. We-Hub also signed a Lol with CyberWest, Western Australia's government-funded innovation hub, which will accelerate growth in the local and international ecosystem and support goals of diversity and inclusion within the cyber security sector. This collaboration will also help in seeding female-led cyber security startups and integrating cyber safety into all cohorts.



Telangana State Innovation Cell (TSIC) was set up in 2017 under the State Innovation Policy with a vision — to promote the Culture of Innovation across Telangana and become a go-to destination of the State Ecosystem.

TSIC is driven by three mandates



Impact


- To support the Rural Innovators & Social Startups of Telangana, Rs 30 lakhs have been dispersed as Telangana State Innovations with Rural Impact (TSIRI) Incentives to 12 innovators and 6 startups who have devised solutions for the enhancement of lives at Rural.



- 100 Telangana Startups were granted Rs. 2 Lakh each as a part of Direct Disbursement Grant by Govt. of Telangana.




- Through the Innovation Immersion Program, 1300+ students from Government Schools & Colleges were provided with an opportunity to visit Multi-National Companies & Telangana Innovation Ecosystem.



- “Innovation in Inclusion” ecosystem was built to promote innovation for the enhancement of People with Disabilities (PwDs) and Children with Special Needs (CWSN).

- Hyderabad hosted the 3rd edition of India's largest Science Festival “India Science Festival” that sensitised 18000+ Students across Telangana



- As a part of the prestigious G20 Presidency Startup20, Hyderabad hosted the Startup Inception Meeting for 250+ National & International delegates.



- Government of Telangana has inked an MoU with UNICEF India to setup Y-Hub, India's first Incubator for Youth and Adolescents in Hyderabad,

- Prost, Telangana's largest youth carnival with 15000+ students across the state, was organised in collaboration with Student Tribe to promote innovation & entrepreneurship.



Programs & Events

School Innovation Challenge 2022-23



The 3rd edition of School Innovation Challenge 2021-22 organised in collaboration with Education Department, UNICEF India, Inqui-Lab Foundation, and YuWaah witnessed 44202+ school students from 4558 ZPHS, Tribal & Social welfare, budget private schools. They underwent Design Thinking and Problem-Solving training. 20 ideas were shortlisted from 17884 teams across 33 districts of the State for the Grand Finale. The top 3 winning teams were felicitated with cash prizes, which will be further used to scale the ideas.

Innovate 4 Menstrual Waste Hackathon 2022

Innovate 4 Menstrual Waste Hackathon 2022 in collaboration with WaterAid India and UNFPA India concluded with more than 350 individuals building technology/product/process solutions for safe management of Menstrual Waste.



The hackathon saw participation from orphan girls, SHGs, and homemakers also apart from students. More than 10 educational institutions and 2 NGOs conducted the hackathon under TSIC's facilitation.

i2E Lab 2.0



Innovation to Entrepreneurship: Second cohort of i2E LAB, a TSIC & Uttunga Ventures collaborated pre-incubation program graduated on 29th June. The 12 startups have been chosen out of 185 applications. Over the last 4 months, the cohort fine-tuned their entry strategies, prototypes, and pilots. The startups so far have raised funding of Rs. 1.3 crore.

Intinta Innovator Exhibition

The 4th edition of ఇంటింట్లా (Intinta) Innovator exhibition saw participation from 780+ entries across Telangana of which 163 innovative solutions were exhibited on the Independence Day celebrations across the 33 districts.



Youth for Social Impact 2021-22

Youth for Social Impact (YFSI), the program in collaboration with UNICEF India, YuWaah, and Inqui_Lab Foundation for college students to become problem solvers upskilled 11823 students from 490 colleges on problem-solving, along with 540 faculties trained in Design Thinking. The top 10 teams are currently being supported to scale their solutions.

Innovation in Inclusion

To build an exclusive ecosystem for the promotion of innovation for inclusivity, over 30 organisations including National Institute for the Empowerment of People with Intellectual Disabilities (NIEPED), NGOs, Startups, Academia, Government, CSRs across the State & India have been identified, as a step towards nurturing an innovation ecosystem for and among People with Disabilities (PWDs), Children with Special Needs, and Elderly.



Startup India – Startup Ranking Workshop: TSIC in collaboration with Startup India had organized the Telangana edition of the State Startup Ranking 2022- Knowledge Sharing Workshop. The 2-day workshop that saw participation from 15 State delegations acted as a platform for the respective State Startup nodal teams to interact and exchange best practices from each other.

Innovators Bootcamp



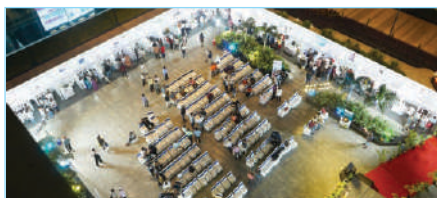
34 Grassroots Innovators scouted through #ఇంటింట్లా (Intinta) innovator successfully finished a 2-day capacity building boot camp conducted by TSIC. For the first time, these innovators were exposed to important concepts such as Lean Canvas, Product Development, Intellectual Property Rights, Legal Compliances, MSME Schemes & Banking Procedures, by subject matter experts. The bootcamp was supported by ACIC-CBIT and Co-Creation Consulting.

Pitch in the Ring

A unique pitching opportunity was given to 21 Rural Innovators from 16 districts across 7 sectors scouted through #ఇంటింట్లా innovator campaign to present their value propositions to 100+ Ecosystem Stakeholders; A total of 129 product development, 123 funding & pilots, 122 mentorship, 91 IP, Expression of Interests were received by the Incubators to scale the solution.



Assistive Technology Summit 2022



39 startups that have developed innovations, for the enhancement of lives of People with Disabilities (PwDs) and Children with Special Needs (CWSN), showcased on the the 3rd edition of Telangana Assistive Technology Summit organised on the International Day for People with Disabilities i.e., 3rd December 2022, in collaboration with Department of welfare of Disabled and Senior Citizens.

Telangana's First Cultural Entrepreneurship Meetup

To empower cultural enterprises from Telangana, TSIC and Network for Indian Cultural Enterprises (NICEOrg) conducted Telangana Cultural Entrepreneurship Day for 70+ attendees representing Cultural Startups, Incubators, Academia, & Government. It brought together the stakeholders from the sector, announcing a programmatic approach to promote cultural enterprises across the state.



Intinta Innovator – Grameena Awards 2023

100 innovators from 100 villages across 32 districts were felicitated by their Gram Panchayats under Village Innovation Awards 2023 organised as a part of Republic Day celebrations.

Social Entrepreneurship Summit Impulse 2023

Over 70 Social Startups and Innovators showcased their innovative products at the 2nd edition of Social Entrepreneurship Summit Impulse 2023 organized by TSIC and BVCSR. The 1-day event focused on various panels, knowledge sessions, & interactive workshops on nurturing social entrepreneurship.



Government Sensitization Workshop

Under the mandate of Government Sensitisation, 200+ State Government Officials including Spl. Chief/Principal/Secretary to Govt. Secretaries, Commissioners, Directors of 42 departments have been sensitised on the Telangana Innovation Ecosystem. 200+ District Administration Officials have been sensitised to promote & support innovation within their districts through various flagship programs of TSIC.

MOUs Inked



MoU with ACIC-CBIT to promote Rural/Social Innovation through community outreach and pre-incubation/incubation programs.



MoU with Centre for Innovation in Public Systems (CIPS) to foster innovation and replication of outstanding ideas nationwide



MoU with RGUKT-Basar to setup Innovation & Incubation Center (IIC) to nurture student ideas across North Telangana.



MoU with Metamorphosis, an ed-tech startup to scale the top ideas scouted through School Innovation Challenge 2020 & 2021



MoU with Sri Vishnu Education Society (SVES) to foster innovations scouted from Telangana in Assistive Technology sector.



MoU with National Institute for the Empowerment of People with Intellectual Disabilities (NIEPID) to promote innovative technologies in the Intellectual Disability sector.

IMAGE, Innovation in **M**ultimedia, **A**nimation, **G**aming and **E**ntertainment, is the AVGC policy of the Government of Telangana and the first statewide AVGC policy in India. The IMAGE Policy has created a pathway for the growth of the animation and visual effects industries in the state that fosters talent, provides stability to businesses through supportive policies and works together with the local industry to create new opportunities. The policy also aims to attract global companies to set up their operations with facilities of international standards in Telangana. Over 30,000 jobs have been created since the inception of IMAGE policy which helped Telangana become the hub for animation and visual effects in India.

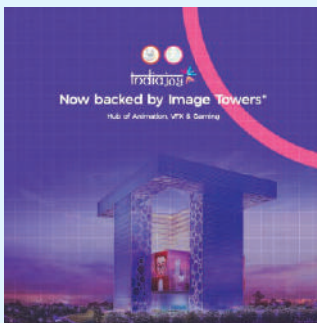
Programs

IMAGE Center of Entrepreneurship

- IMAGE CoE is a Centre of Entrepreneurship for Gaming, Animation, VFX, Computer Vision, and AI Start-Ups is a flagship initiative by STPI
- Supported by Government of Telangana and Ministry of Electronics and Information Technology
- In collaboration with industry bodies TVAGA (Telangana VFX, Animation and Gaming Association) and HYSEA (Hyderabad Software Enterprises Association)
- Academic & Research Partnership with IIIT Hyderabad
- Industry and Investment partnerships with TIE Hyderabad, Hyderabad Angels, and SucSEED Indovation Fund

IndiaJoy

- IndiaJoy is an aggregator platform that hosts prestigious International events and brings together the AVGC sector to unfold opportunities for Investors, Corporations, Studios and Developers.



- With more than 15 events and 10,000 participants from across the globe, IndiaJoy is becoming one of South Asia's premier entertainment industry conferences.
- IndiaJoy aims to promote Indian digital content through international relations and provide leadership and growth to the country's digital media and entertainment industries.

Initiatives

Roundtable on Skilling

- The Roundtable on Skill Development in AVGC was held during the IndiaJoy conference on November 2nd, 2022. It was attended by eminent people from industry, academia and ecosystem related to AVGC from all over India.
- The participants brainstormed new initiatives to promote skilling of AVGC in the formal and informal education system. The roundtable resulted in the following initiatives:

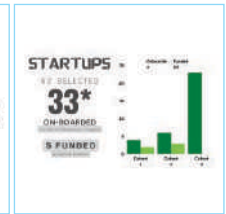


- In an effort to provide the best possible training and educational opportunities for our students, the government will support the development of a skills framework for AVGC.
- To support industry and ensure that students are deploy-ready, it is proposed to have a prominent university establish its AVGC skilling center in the upcoming image tower.

Entrepreneurship Development at IMAGE CoE

Cohort 2 : 2022

87 applied
36 called for pitch presentation
16 startups selected
4 onboarded



Cohort 3 : 2023

70 applied
38 called for pitch presentation
27 startups selected
23 startups onboarded



IMAGE Policy: Key Milestones

Telangana AVGC Ecosystem

- Hitwicket, a Hyderabad based gaming company, won the Prime Minister's AatmaNirbhar Bharat App Innovation Challenge.
- Animation for blockbuster projects such as Chhotta Bheem, Mighty Bheem, Kalari Kids, Super Bheem, Mighty Raju, Arjun Prince Of Bali, Six Cylinder Samurai, Krishna The Great, Chorr Police, Luv Kushh, etc., was done in Telangana
- VFX for mega hit projects such as RRR, Bahubali 1 & 2, Bimbisara, Eega, Karthikeya-2 was done in Telangana
- VFX Post-production top Hollywood Feature films, serieses, and big-budget projects done in Telangana, for e.g., House of Dragon, Stranger Things, Game of Thrones, etc.

IMAGE CoE

- IMAGE CoE has successfully completed two cohorts and is currently operating its largest ever cohort of 23 startups
- 5 out of 10 startups from IMAGE CoE's first two cohorts have gone to raise more capital
- IMAGE CoE has carried out 136 stakeholder engagement activities and have positively actioned out on stakeholder feedback
- Organised two demo days to help startups pitch to corporates, VCs and angel investors.
- Created an ecosystem for startups by bringing together experts and other stakeholders—including corporates and VC funds.

Startups

- Marcos Gaming
- Rs. 120 lakhs in revenue in 12 months
- Pokemon unite team qualified for Asian championship
- Runners up at Dreamhack
- Inani Media Pvt Ltd
- 60 Titles, 10,000 minutes of animation in 3 years
- Developed an indigenous intellectual property (IP)
- Airing animation titles on Amazon Prime and Highbrow (UK)



Achievements

GEM Awards

- Government of Telangana was recognised as the Best Government Entity under the "Movers and Shakers" category at the #GEMawards held at Mumbai in December 2022.
- We highlighted the groundbreaking initiatives that have made Telangana a leader in the AVGC domains, including our state's own "IMAGE policy".

National Workshop and Consultation on Draft AVGC Policy

- The state of Telangana is recognised as a lighthouse state in the AVGC sector. It can provide guidance to other states, including assisting them in drafting state-level AVGC policies, and sharing best practices & learnings from having implemented the IMAGE policy.

T-Works is a world-class prototyping facility and incubator established by the Government of Telangana in 2017. Its goal is to promote manufacturing and innovation in electronics hardware and other products. T-Works recently inaugurated its new campus in Hyderabad and has quickly gained attention from stakeholders globally. It offers a wide range of prototyping capabilities, including metalworking, woodworking, ceramics, 3D printing, laser cutting, and electronics testing and measurement. Future plans involve adding additional capabilities such as multi-layer PCB fabrication, plastics and composites, high-speed CNC machining, and digital cutters. Upcoming capabilities include India's first multi-layer PCB rapid fabrication facility, plastics and composites including vacuum forming and vacuum casting, high-speed CNC machining, and digital cutters. Expansion plans include adding equipment worth over Rs.100 Cr by 2024.



Major Milestones

- 300+ startups, MSMEs and corporate have utilized T-Works
- 1000+ parts and prototypes have been delivered till date
- 30 complete products have been developed and delivered by T-Works
- Agreements with multiple corporates to enhance T-Works' capabilities:
 - ✦ Foxconn announced contribution of a state-of-the-art SMT line
 - ✦ Qualcomm contributed with expertise and funding of Rs. 7 Cr to establish the PCB Rapid Fabrication at T-Works
 - ✦ Vasantha Tools, a Hyderabad-based tooling company, has contributed 1.6 Cr towards world-class digital cutting equipment
- 10x increase in equipment value in the coming 12 months
 - ✦ Rs. 100 Cr worth equipment by 2024 as part of Phase-1
 - ✦ Additional 30,000 sft will be added, making T-Works the world's largest prototyping centre

T-Works Inauguration – March 2, 2023

T-Works got off to a hi-tech start with Foxconn Chairman Shri Young Liu in the presence of Industries & IT Minister Shri KT Rama Rao unveiling the 78000 sft building via an innovative kabuki drop (Japanese reveal style) amid fireworks and a laser show. Impressed by the “Telangana Speed” and its determination to develop sophisticated products, Foxconn announced to donate an industrial grade SMT line to support T-Works, the world's largest prototyping centre



Engagement and Support from Corporates

Many corporates have come forward to support T-Works in its unique initiatives which include contributing to its capabilities

Qualcomm

Qualcomm has supported T-Works to induct first of its kind PCB Fabrication facility. Qualcomm India Private Limited (Qualcomm), under its under the CSR initiative, is supporting and funding T-Works for setting up the PCB fabrication unit in T-Works facility. The estimated cost of the project is Rs. 7.52 crores with timeline for completion of the project is 12-18 months. Post completion of the project, it will enhance the capacity of making multiple layer printed circuit board.



Vasantha Tools

Vasantha Tools and Crafts Private Limited (VTC) under its CSR initiative supported T-Works in setting up the ZUND High end performance digital cutter machine in T-Works facility. Post completion of the project, it will enhance the capacity of cutting in arena of Pre-printed materials, stretchable fabrics, fine contours and details - even in demanding scenarios like these, single-layer digital cutting systems deliver exceptional precision in prototype or small series production, the size of the job in no way affects the cut quality.

Projects undertaken by T-Works

Skyroot

T-Works and Skyroot Aerospace collaborated on the successful launch of India's first private rocket, Vikram S.

"T-Works technical expertise, teamwork, and dedication made this achievement possible".



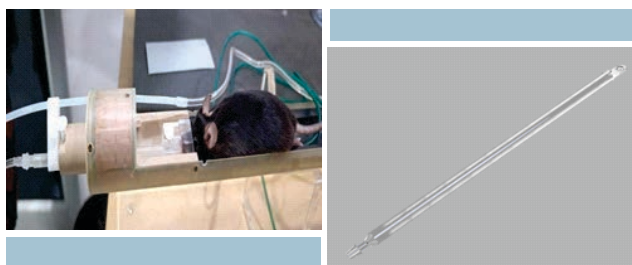
Airborne Medical Rapid Transport (AMRT 25)



T-Works developed a hybrid VTOL UAV for the Medicine from the Sky project in Telangana. The prototype successfully completed ground, hover, engine, transition, and autonomous navigation tests for 10km. It can autonomously fly for 40km with a 1kg payload, enabling the delivery of medicines to remote areas.

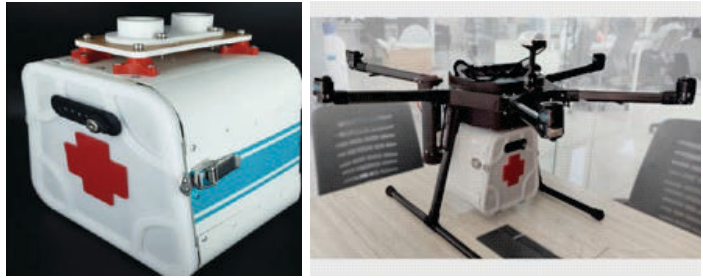
Center for Cellular and Molecular Biology (CCMB)

The Centre for Cellular & Molecular Biology (CCMB) approached T-Works to design and prototype a critical component used in MRI scans. T-Works completed the design, and 3D printed the component within 24 hours using Stereolithography (SLA). T-Works helped CCMB save an estimated total of Rs.1,50,000.



Medical Drone Payload

Under the Medicine from the Sky project by the Govt of Telangana, a drone services startup called Airserve Initiatives approached T-Works to build a medical payload for their drone. T-Works successfully designed and prototyped a temperature-controlled medical payload with a capacity of carrying 100 vials with an auto-drop mechanism.



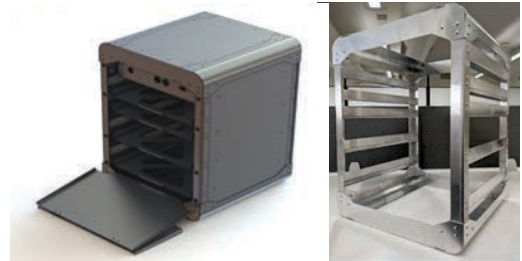
Marut Drones Project: Jungle Maker - Seed Ball Dropping Drone



T-Works designed and developed a seed ball launching payload for a Hyderabad based startup, Marut Drones, recognized by Forbes “The 30 under 30”, in partnership with RICH, Emerging technologies wing of the ITE&C, and the Telangana Forest department. Code-named Jungle Maker, has successfully dropped 15000 seed balls in a forest of 323 hectares in three hours at Veeranapalli forest in Sircilla district under the Haritha Haram project.

Chart Techno – Portable Diagnostic Kit

T-Works developed a low-cost, light, functional enclosure for Chart Techno, a device to test medical parameters.



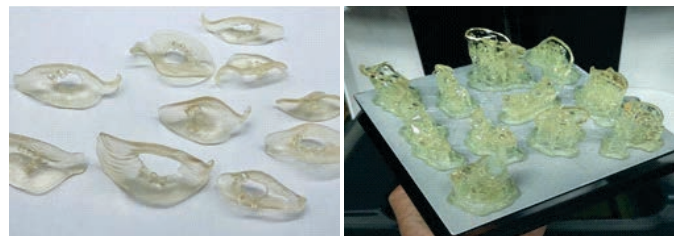
Unmanned Aerial Vehicle (UAV) Development – R&D

T-Works undertook R&D in arena of product design, development and prototyping which confines to the areas of new technologies that facilitate startups/makers to leverage the know-how and a few were designed during the Covid-19 pandemic Initiatives.



LV Prasad Eye Institute: Surgical Guides

T-Works created unique surgical guides for patients who underwent enucleation due to mucormycosis after recovering from COVID-19. The guides are tailored to each patient using CT scan data, allowing surgeons to operate precisely. They are made with bio-compatible surgical guide resin available at T-Works.

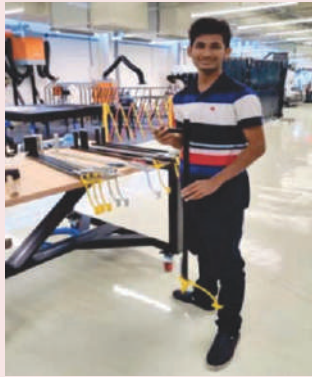


Mechanical Ventilator

T-Works collaborated with the industry to create an affordable and rapidly developed mechanical ventilator for emergency use during the Covid-19 pandemic, addressing the shortage in hospitals and rural areas.

Rural Innovator Programme

T-Works mentors Rural Innovators to understand the problem statements and help, mentor them to develop solutions to solve problems. T-Works is working closely with a rural innovator, Raju Mupparapu, who is innovating to provide mobile charging and street lighting solutions in rural Telangana. T-Works team designed and delivered a custom PCB required for the project.



T-Works is supporting a rural innovator Ashok Gorre and is helping him upskill with access to state-of-the-art technology. Ashok's seed sowing tool is an affordable and effective solution prototyped at T-Works. Ashok noticed the problem of farmers developing backache and other related issues due to the act of bending to sow seeds. The tool helps farmers in sowing seeds with ease and speed. It has been fabricated with the help of T-Works' team and prototyping facilities and will soon be accessible to farmers. As a junior fellow at T-Works under the Rural Innovation Development Program, Ashok has consistently worked hard and demonstrated his dedication to improving the lives of rural communities.

T-Works supported innovator Ms. Srija in developing biodegradable seedling planters as a replacement for plastic bags. These planters degrade within 14-20 days and provide organic nutrients to plants. T-Works created a scalable setup to mass-produce the planters, collaborating with GE Appliances to establish a domestic industry for their production. The collaboration aims to generate employment and promote environmental sustainability.



Rajendra, a former TV mechanic from Konapuram village, Warangal Rural District, fulfilled his dream of owning a car by building an Electric Car from scrap materials. With self-taught knowledge and determination, he overcame multiple failures to successfully construct a portable electric car using a DC motor and discarded spare parts.

Capabilities introduced in T-Works in the last year



Workshops conducted at T-Works



Engagement with Government Departments



T-Works hosted the Chief Secretary, Principal Secretaries, Secretaries, MDs and top officials of the Telangana State Government and showcased India's largest prototyping centre.



Tribal Welfare Department of Telangana Govt. is encouraging entrepreneurship & industrialization among Scheduled Tribes through an CM ST Entrepreneurship & Innovation (CMSTED). T-Works provided new ways to entrepreneurship under the program

International Dignitaries and Delegations hosted by T-Works



Swiss delegation visited T-Works



G20 Delegates visit T-Works



T-Works hosted Michelle Nunn President & CEO of CARE USA



Delegation of journalists and editors from Maldives have visited T-Works



Electronics

Telangana Government has identified Electronics to be a key sector in the state and aims to make the state a top destination for Electronics globally by developing a comprehensive ecosystem which has access to infrastructure, a skilled workforce and effective industry partnerships.

The Electronics Wing and Photonics Valley Corporation were established to carry out this vision for the state. They provide infrastructure support in the form of Manufacturing clusters and Plug & Play facilities to the companies who wish to set up R&D, manufacturing and ATMP facilities in the state. Through the partnership with TASK, the state is also training and up-skilling citizens on ESDM skills to create an industry-ready workforce. Telangana is also catching global attention as an upcoming hub for Electronics through events such as the Hyderabad e-Prix and Hyderabad e-Mobility Week.

T-Electronics



Telangana State Electronics Policy came into force in 2016 to evangelise the Electronics System Design Manufacturing (ESDM) ecosystem in the state and country.

Highlights

- Attracted investments of Rs. 50,000 Crore from over 120 companies in the Electronics, Electric Vehicles and Energy Storage sectors
- Since 2014, these sectors have generated employment for over 66,000 people in the Electronics Manufacturing Clusters and other notified parks.
- In the last one year, Telangana has attracted investments of over Rs. 38,000 Crore with an employment generation potential of 32,000 people in the Electronics and Energy Storage sectors

Major Investments in Electronics and Energy Storage Sectors



Rajesh Exports

Elest (incorporated by promoters of Rajesh Exports Ltd.), a global Fortune 500 company, is setting up a AMOLED display fab facility in Telangana, with an investment of Rs. 24,000 crore, with an employment generation potential of 1500 jobs. The proposed unit will manufacture next-generation displays for smartphones, tablet computers, and laptops.



Amara Raja Batteries

India's leading automotive battery manufacturer, Amara Raja Batteries – through its subsidiary Amara Raja Advanced Cell Technologies Pvt. Ltd. (ARACT) is setting up a Lithium-ion Cell Manufacturing facility in Divitipally, Mahbubnagar district, Telangana, with an investment of Rs. 9,500 Crores and employment generation potential for 4500 people.



Allox Advance Materials

Allox Advance Materials Private Limited is setting up India's first multi-gigawatt C-LFP (Lithium Iron Phosphate) active battery material production unit in Telangana. The state-of-the-art facility will initially be set up with an investment of Rs.210 crore and have a capacity of 3 gigawatt-hours (GWh) per annum, with an employment potential for 115 people.

Hyderabad E Motor Show

Hyderabad became the first city in India to host a Formula E-race, which was also organized under the E-Mobility Week (5th – 11th Feb 2023).

Hyderabad E Motor Show was organized during 8th - 10th February 2023 and saw top automotive players showcasing their next-gen electric vehicle models, which consisted of French car manufacturer Citroen's all-electric car eC3; Quantum Energy's Plasma and Hop Electric's OXO two-wheelers. World's fastest accelerating car, the pure-electric hyper GT 'Battista' designed, developed, and made by Automobili Pininfarina, the Italian luxury car brand wholly owned by Mahindra was also shown during the week.

Apollo Tyres, Mahindra, Amara Raja, TVS Motor, ETO Motors, Ola, MG Motors, Piaggio, BYD, Hyundai, and ZF were amongst the leading auto majors exhibiting at the E Motor Show.

The show saw an overwhelming participation of 6000+ people and 55+ EV players.



Foxconn Interconnect Technology Electronics



Foxconn Chairman Mr. Young Liu met Hon'ble Chief Minister of Telangana.

Hon Hai Technology Group (Foxconn) signed a Letter of Intent (LoI) with the State Government on March 2, 2023 to set up a manufacturing facility with an employment potential of over 1,00,000 people.

Within two months, on 15th May 2023, the ground-breaking ceremony for Foxconn Interconnect Technology's (FIT) electronics manufacturing facility was held at Kongara Kalan, Ranga Reddy District.



Mr Sidney Lu, Chairman and CEO, Foxconn Interconnect Technology and Minister KTR at the Groundbreaking Ceremony

New Land Parcels, Built up Space & Common Facilities Center

As part of the EMC 2.0 program, the Telangana government is setting up a New Energy Park in Divitipally for energy storage and new energy technologies. Additionally, land has been allocated in the National Investment Manufacturing Zone (NIMZ), Zaheerabad, to promote electric vehicle (EV) manufacturing. To meet the growing demand for electronics manufacturing, the ITE&C Department has identified new land parcels in Dundigal and Kongara Kalan. The government has already built 4,00,000 square feet of ready-to-occupy space in Electronics Manufacturing Clusters (EMCs) and is planning to develop an additional 1 million square feet of plug-and-play facilities through public-private partnerships (PPP).

Photonics Valley Corporation

The objective of Photonics Valley Corporation is to create an ecosystem for nurturing alternative computing paradigms by mobilizing concerned stakeholders and related projects. The idea was to build an ecosystem with Fabrication related units such as

Designing houses

Manufacturing houses

R&D units

Supply chain industries.

VLSI INITIATIVES

(Very Large-Scale Integration initiatives)

A program has been launched to promote VLSI/Fabless chip designing and fabrication activities. The initiative is rallied around the concepts of a VLSI Academy, to nurture the Human Resources in VLSI Concepts, an Incubation platform to promote start-ups by providing critical resources and a VLSI Park to mobilize VLSI related industries. A 'Consultative committee' has been instituted representing industry to advise on the program. The program is being implemented with the intervention/mediation of the Industry.

Manufacturing and ATMP Units

The State Government also intends to establish manufacturing units for Micro LED Display Fabs and Infrared Chips to create a comprehensive and integrated ecosystem for Semiconductor manufacturing in Telangana. Foundries for GaN and GaAs chips are also in the pipeline. These units are being set up under the 'India Semiconductors Mission of the Government of India. Along with manufacturing units, units for Assembly, Testing, Marking and Packaging are being promoted by the state government. With the establishment of these units, Telangana will cater to the complete value chain for Semiconductor manufacturing.



Beyond Digital Infrastructure

It is important for citizens to have access to proper digital infrastructure in order to make use of the various digital initiatives being rolled out in the state. Telangana government established the T-Fiber project to ensure that citizens in any part of the state have reliable and high-speed internet connectivity. Through T-Fiber, citizens will be able to access digital services and content more easily.

The State also ensures that government departments and entities have access to digital infrastructure that is secure and able to deliver services to citizens with greater reliability, availability, and serviceability. The Infrastructure & Communications Wing maintains the State Data Centre and its associated parts to provide seamless operations and services across various departments of the state. The ultimate goal of this pioneering initiative is to digitally empower every citizen of the state and ensure that it reaches out to the government across geographical boundaries and distances.

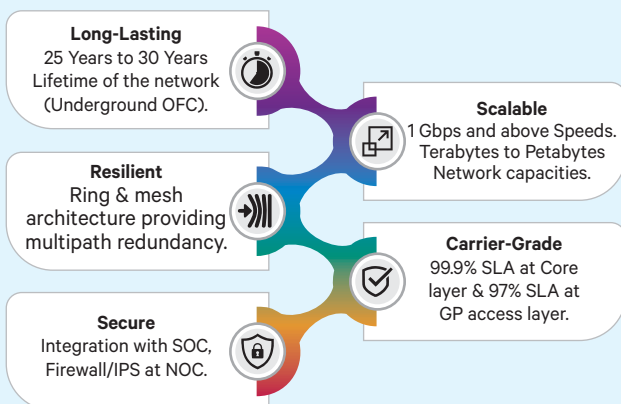
T-Fiber



tfiber.telangana.gov.in TFiberGrid

Project Vision

- Establish state-of-the-art digital network infrastructure that is long-lasting, resilient, secure, scalable and carrier-grade to provide affordable, high-speed broadband connectivity from State Headquarters to all homes, government offices and enterprises in the State of Telangana.
- To provision bandwidth to licensed service providers in a non-discriminatory and non-monopolistic manner without entering into the competition (except in the delivery of G2G and G2C services).



Project Status

Activities	Progress	
	Scope	Total Work Done
New T&D (Kms)	22298	21744 (98%)
DRT (Kms)	11210	9711 (87%)
OFC Blowing (Kms)	34848	30371 (87%)
Lit UP completed GPs	10787	7699 (71%)
Lit UP completed Mandals	425	423 (99%)

*As on 20th May 2023,



Visit of Secretary, DoT, Govt. of India



Visit of Secretary, IT Dept., Govt. of Tamil Nadu

Infrastructure & Communications Wing

ITE&C department provides state-of-the-art facilities for IT Infrastructure, Networks & Security to all State Government Departments which are seamlessly operating 24/7/365 days.

Four Major Initiatives

Telangana State Data Centre (TSDC)

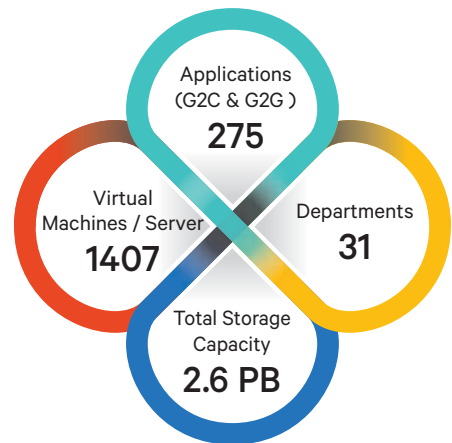
Telangana State Wide Area Network (TSWAN)

Telangana e-Mail Services (T e-Mail)

Telangana Security Operations Centre (TSOC)

Telangana State Data Centre (TSDC)

TSDC ensures top-class services and world-class IT infrastructure for TS government departments and entities. State Data Centre acts as a mediator and convergence point between open unsecured public domain and sensitive government environment. It enables various State departments to host their services/applications on a common infrastructure leading to ease of integration and efficient management, ensuring that computing resources and the support connectivity infrastructure (SWAN/NICNET) are adequately and optimally used. The State Data Centre is powered with world-class Cloud and Hyper-Converged Infrastructure, that enables to host - Compute, Network, Storage, and Applications of all e-Governance initiatives and moving towards digital transition.



SDC Infrastructure Statistics

T-SWAN (State Wide Area Network)

SWAN, a high-speed, reliable backbone network for Telangana State, is a core infrastructure component of the Government of India's National e-Governance Plan. It provides a high-speed, secure, and dedicated Closed User Group (CUG) Network for effective governance, including video conferencing capabilities for government operations. T-SWAN is integrated with T-SCAN, SDC, and NKN networks, ensuring secure network services. A centralized service desk and 24/7 Network Operating Center (NOC) provide support. T-SWAN connects over 46 departments and 101 sub-departments, extending services to citizens. With SWAN as the backbone, more than 600 video conference centers are established across district and state headquarters, as well as user departments.

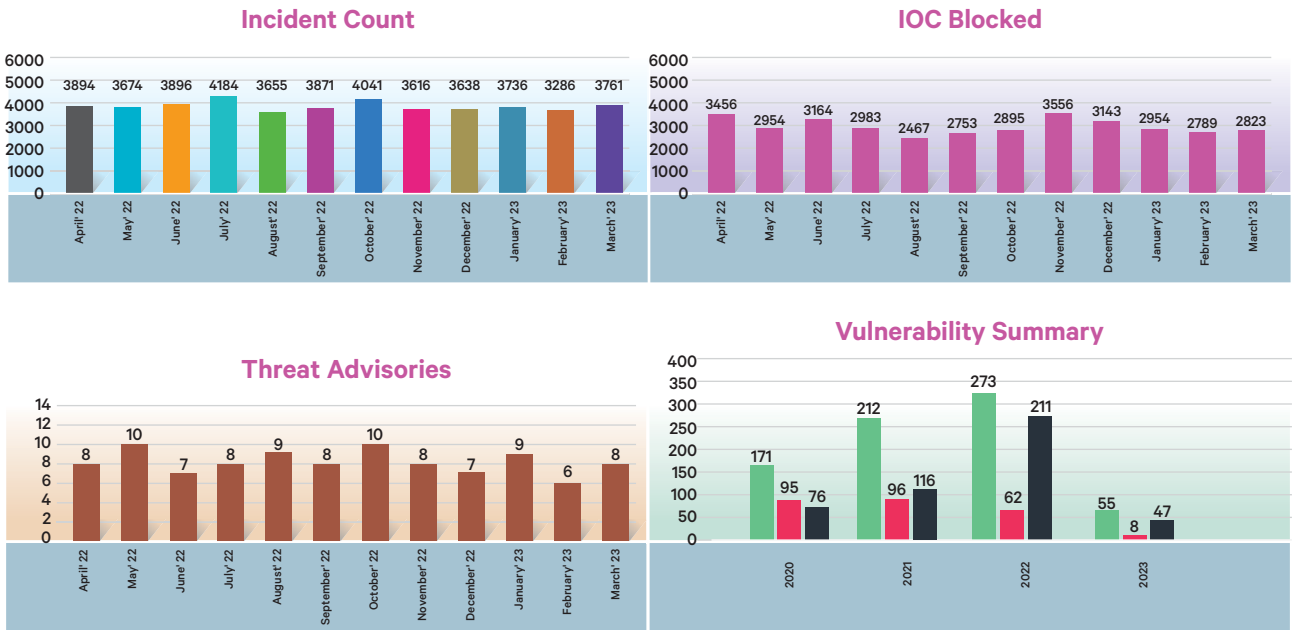
Telangana e-Mail Services

The ITE&C department serves as the nodal agency for SMS and Bulk E-Mail services for government departments. It manages user issues related to email services, including activation, password reset, profile updates, and distribution list creation. Over 63,000 named email accounts have been allocated to state government departments, with an additional 47,000 accounts specifically for e-office implementation. All designation-based email accounts have two-factor authentication, ensuring 100% security.

Telangana Security Operations Center (TSOC)

TSOC ensures a safe and resilient cyber space for the state's infrastructure. It operates a SIEM platform integrated with over 176 critical information infrastructure systems. With dedicated cybersecurity professionals and adherence to industry best practices, TSOC monitors, analyzes, and promptly notifies CII hubs of any anomalies or suspicious activities. It has proven its effectiveness in detecting, remediating, and reporting cyber threats, positioning itself as a leading state-owned SOC. TSOC's advanced incident analysis techniques and rule development methods enable robust cyber defense and daily threat intelligence for state users.

Security Operations Statistics

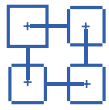


The Information Technology Infrastructure at the new Dr BR Ambedkar Telangana State Secretariat Building

The Government of Telangana has constructed a state-of-the-art building to house the Telangana State Secretariat. As part of their digital transformation journey, the government has established a smart campus infrastructure equipped with advanced technology to accommodate future trends. The vision for the IT infrastructure includes simplifying operations, automating key activities, and implementing robust security measures.

The ITE&C Department has collaborated with leading IT consultants to ensure a software-driven campus and selected Ms. Shell Networks and Solutions Limited as the project management consultant. The infrastructure is built on Cisco devices and includes a state-of-the-art data center, high-speed internet, software-defined network architecture, network security services, IP-based telephony, and video conferencing facilities. The aim is to create a seamless workflow, adhere to timelines, and deliver top-quality workmanship in coordination with all stakeholders involved. The project management consultant will continue to support the ITE&C Department in operations for the next one year.





Emerging Technologies

Telangana government leads in leveraging emerging technologies for governance, aiming to make Hyderabad amongst top 25 global AI innovation hubs. It established India's first dedicated Emerging Technologies (ET) wing, focusing on frontier technologies like AI, blockchain, and IoT. By embracing these technologies, Telangana drives efficiency, transparency, and innovation in public services, propelling Hyderabad's growth as an AI powerhouse and attracting global investments.

Emerging Technologies Wing



ai.telangana.gov.in [f](#) etgots [t](#) emergingtechts [in](#) et-itec-gots

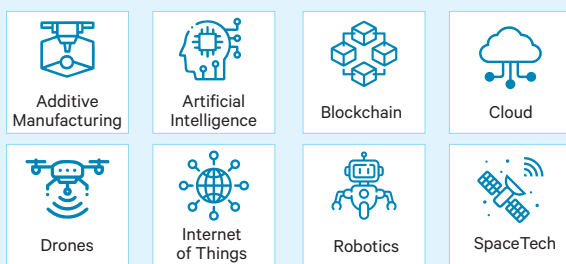
As part of the first ICT Policy of the state, the Emerging Technologies Wing was formed in 2018 to nurture the ecosystem of emerging technologies in the state and enable their potential socio-economic impact. It has two key objectives:

1. To develop a conducive ecosystem for the proliferation of technologies by formulating Actionable Policy Frameworks and setting up building Institutions of Excellence
2. To leverage emerging technologies for social good and enable Good Governance by improving citizen service delivery



Technologies in Focus

ET Wing is committed to utilising emerging technologies for social good. Its portfolio of technologies includes:

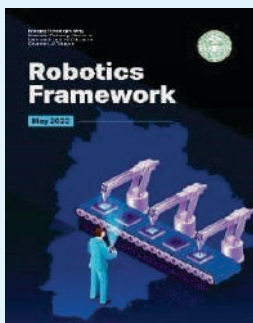


Emerging-Tech Centers

To drive impactful initiatives, four tech-focused institutions have been established:



Robotics Framework



Telangana has become the first state in the country to release a state robotics framework. This framework is focused on leveraging robotics technology to drive growth and development across key domains such as agriculture, healthcare, industrial automation, and consumer robotics. It has identified five key pillars - infrastructure access, business enablement, fostering research and innovation, human capital enhancement, and responsible deployment for promoting a vibrant and sustainable robotics industry in the state. On the occasion, the state also signed MoUs with IIT Hyderabad, ART PARK IISC, GMR Hyderabad International Airport Limited (GHIAL), AgHub (PJTS AU), and the All India Robotics Association (AIRA) to enhance the ecosystem in the state.

Ecosystem Enablers

Agricultural Data Exchange (ADEx)

India's first Agricultural Data Exchange (ADEx) is being developed as a trusted and efficient N-N Data Exchange for sharing data (both personal and non-personal) among providers and consumers in the agriculture sector. This initiative is being developed in partnership with the Indian Institute of Science (IISc), Bengaluru and the World Economic Forum.



Access to Computing Infrastructure

With an aim to unlock better computing facilities for AI startups, the ITE&C Department has signed MoUs with the Centre for Development of Advanced Computing (C-DAC) and the Indian Institute of Technology, Hyderabad, for High-Performance AI Computing Infrastructure (HPAIC).

Web3 Regulatory Sandbox

To promote the growth of the Web3 ecosystem in Telangana, the government has established the "Web3 Regulatory Sandbox." This initiative aims to help startups navigate the regulatory landscape and accelerate innovation by providing a controlled environment for testing their use cases. The sandbox has brought together various stakeholders of the Web 3.0 community, including Coinbase, Polygon, Sequoia Capital, Woodstock Fund, Sino Global Capital, International Financial Services Centres Authority, Bharat Web3 Association, World Economic Forum, Blockchain Lawyer, Indian Blockchain Forum, Blockchain District – Telangana, T-Hub, We-Hub, and Policy 4.0. The first cohort of the Web3 Regulatory Sandbox includes 8 shortlisted companies: Dignify, SpotSpread, Renai, Rightfully, Rariko, Zoth, EquiDEI, and Finclus. This collaborative effort aims to identify regulatory barriers, foster innovation, and promote the growth of the Web 3 ecosystem in Telangana.



ETHforAll

Emerging Technologies hosted the ETHforAll kick-off event in collaboration with Devfolio and amazing Web3 builders. The hackathon brought together a community of 8,000 builders across the country virtually to focus on public goods and governance. At ETHforAll, the ITE&C Department exchanged MoUs with Web3 companies like Hyderabad DAO, QuillHash, Devfolio and Lukka



Deep-Tech For Social Good



AgTech: Revolutionizing the Way We Grow Our Food

The following initiatives tackle the different parts of agricultural life and aim to help farmers by increasing their production, productivity, and profitability:

Saagu Baagu

The Saagu Baagu pilot project, launched through Artificial Intelligence for Agriculture Innovation (AI4AI), is providing support to over 7,000 chilli-producing farmers in Telangana as part of the pilot project's first season. The pilot project is a partnership between the Government of Telangana, and the World Economic Forum's Centre for the Fourth Industrial Revolution (C4IR). Farmers enrolled in the program receive support through artificial intelligence (AI) technologies such as quality testing, and soil testing, as well as access to new customers and suppliers in different geographies.

Smart Nutrient Management of Soil

Krishi RASTAA, a completely automated portable soil testing solution, provides soil reports to farmers in just 30 minutes. This innovative IoT solution issues advisories to farmers on the optimum use of fertilizers and micronutrients, ultimately helping them reduce input use and decrease water consumption, unnecessary fertilizer use, soil degradation, and water contamination. The Krishi RASTAA initiative was developed in collaboration with Krishitantra.

Data in Climate Resilient Agriculture (DiCRA)

DiCRA is the newest entry in the Digital Public Goods Registry, which uses AI to power it and aims to improve food security and food systems. DiCRA is a significant step in our commitment to open data policy, service delivery to farmers, and anticipatory governance to address the world's problem of food security. The state government and the United Nations Development Programme (UNDP) jointly made the announcement.



Mobility-tech: Technology-Enabled Public Safety

The following technology-enabled initiative aims to enhance public safety and improve intelligent response services:

iRASTE (Intelligent Solutions for Road Safety through Technology and Engineering)

The iRASTE project seeks to reduce accidents by generating collision alerts for drivers for an impromptu response with the use of AI. The solution is deployed on 200 TSRTC buses and aims to map the dynamic risk of the entire road network. INAI leads a consortium working with the State Road Transport Department (TSRTC) to implement the project.



ClimateTech: Towards Sustainability & Environmental Conservation

The following initiatives tackle the different aspects of sustainable development and environmental conservation, aimed at reducing the carbon footprint and promoting sustainable living:

Hara Bhara

The Hara Bhara initiative, a collaboration between the ITE&C and Forest Department, aims to facilitate swift afforestation in the remote forest areas of Telangana through the use of drone-based technology. Since its launch in 2021, the initiative has successfully dispersed 7.5 million seed balls in multiple forests spanning across 33 districts in the state. In 2022 alone, 2.5 million seed balls were distributed as part of this endeavor.

Monitoring Wildlife in Forests

An AI-based solution that provides a spatiotemporal density mapping of species, both herbivores and carnivores, was developed in collaboration with Think Evolve Consulting, a startup selected by the T-AIM Grand Challenge. It provides the number, location, and movement behavior of animals across the forest sanctuary. It will also be used to map potential eco-enthusiasts and wildlife spotting across the Jannaram and Amrabad wildlife sanctuaries.

Carbon Credits on Blockchain

To develop blockchain solutions that support sustainable production, product traceability and transparency, and the financing and development of carbon offsetting projects, the ITE&C Department signed a Memorandum of Understanding (MoU) with Algorand.



EdTech: Reimagining Education through Technology

The following initiatives are aimed at transforming the education landscape through the use of technology and innovative solutions:

AI-based Skill Enhancement Platform

An AI-based skill enhancement platform for students at IIIT Basara was started in collaboration with the MyPerfectice startup. This platform offers personalized learning recommendations and continuous assessment to address the challenges of engineering education. The startup is part of the Telangana AI Mission (T-AIM) under its RevvUp program.

AI For All

'AI For All' is Intel's self-learning online program designed to raise public awareness about artificial intelligence. In tune with that, a pilot initiative was undertaken at the Telangana Mahila Viswa Vidyalayam to train 100,000 students.

Center of Excellence: Nurturing Ecosystem

Telangana AI Mission (T-AIM)



The Telangana AI Mission is an institution established by Govt. of Telangana and is powered by NASSCOM. It undertakes several initiatives to catalyze the AI innovation ecosystem in the state.

Revv-Up 3: Acceleration Program for AI Startups

Revv Up, the free-of-equity, free-of-cost acceleration program by T-AIM, is exclusively designed for early-stage AI startups. It is a key step towards making Telangana and Hyderabad a global destination for artificial intelligence. Including the 62 startups from Cohort 3, T-AIM's Revv Up is concurrently supporting 142 AI startups spanning 3 cohorts.

Grand Challenges

T-AIM successfully conducted four grand challenges to encourage innovation and provide viable solutions to various issues using artificial intelligence. One of the challenges focused on identifying and implementing AI solutions to assist the Telangana Forest Department in wildlife monitoring, which will aid forest officers in wildlife conservation and increase eco-tourism. Another challenge aimed to identify and classify pothole severity in GHMC, Hyderabad using live and archived video feeds. In addition, two academic grand challenges in collaboration with Wells Fargo sought to ignite the entrepreneurial spirit among students by building a futuristic digital bank and developing solutions to predict heat wave occurrences and AQI for Tier-II cities in Telangana.

National Centre for Additive Manufacturing (NCAM)



NCAM is established by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, and the ITE&C Department, Govt. of Telangana in partnership with industry. Its vision is to develop a comprehensive additive manufacturing ecosystem in the country and position India as a global AM manufacturing hub.

Revv-Up 3: Acceleration Program for AI Startups

23+ AM technology promotion events were conducted on additive manufacturing (AM) that included FDPs, workshops, events, and expert additive talks across the country. More than 10,000+ participants were impacted by the various AM technologies and their applications.

Tri-PRAMan – Startup Incubation Program

NCAM launched a startup incubation program titled Tri-PRAMan. The first start-up program received numerous applications, out of which seven were selected. These startups are from the medical, consumer goods, AM software, AM metals, and bio-materials national domains. The startups will get access to infrastructure for development, testing, and validation at NCAM.



Cybersecurity Centre of Excellence (CCoE)



The Cyber Security CoE (CCoE) in Telangana is a joint initiative with the Data Security Council of India (DSCI) to build best practices and catalyze innovation, entrepreneurship, and capability building in cybersecurity and privacy.

Indo-Dutch Cybersecurity Summer School 2022

The 5th edition of the Indo-Dutch Cyber Security Programme 2022 was held in collaboration with the Hague Centre for Strategic Studies, the Municipality of Hague, and the Embassy of the Netherlands. This year, 300 participants were awarded certificates, and a participant was chosen at random during the live ceremony to attend the "ONE Conference" in 2023, Europe's premier cybersecurity event, for which the organizers would cover the entire cost of the winner's travel.

Knowledge partner for Digipol 2023

CCoE was the knowledge partner for Digipol 2023. Digipol is a global expo on police and defence, offering a unique platform for understanding advanced technologies and knowledge transfer to security agencies involved in national security and public safety.

Recognitions: FTCCI Excellence Awards 2022

CCoE was awarded the "Federation of Telangana Chambers of Commerce and Industry Excellence Award: Excellence in Association/Chamber for Serving Industry, Commerce, and Economy" by K.T. Rama Rao, Minister of ITE&C, MA&UD.

Centre of Excellence (CoE) on E-waste Management



The CoE on E-Waste is established at C-MET Hyderabad as a joint initiative of MeitY, the Govt. of India, and the Govt. of Telangana to establish a self-sustainable ecosystem capable of managing India's e-waste and to support Indian industries through environmentally benign e-waste recycling technologies.

PCB Recycling facility @1000 kg per day

Under CoE, C-MET has established a pilot plant-scale PCB recycling facility for a 1000 kg per day capacity. The facility was inaugurated by Sh. Alkesh Kumar Sharma - Secretary Meity, GOI.

E-waste dismantling facility

CoE also houses an e-waste dismantling facility for providing training on e-waste dismantling and segregation to students, start-ups, MSMEs, and the unorganized sector.

Recognitions: FTCCI Excellence Awards 2022

CCoE was awarded the "Federation of Telangana Chambers of Commerce and Industry Excellence Award: Excellence in Association/Chamber for Serving Industry, Commerce, and Economy" by K.T. Rama Rao, Minister of ITE&C, MA&UD.



Awards & Recognitions

Gold Icon Award at Digital India Awards (DIA) 2022

Emerging Technologies received the Gold Icon Award at DIA 2022 for the project Smart Nutrient Management. The award was presented by the President of India, Smt. Droupadi Murmu, in the presence of the Minister for IT, Electronics, and Communications, Ashwini Vaishnaw.



Award of Excellence in State Category - Emerging Technologies for eGovernance

The state of Telangana was conferred with the Award of Excellence in State Category: Emerging Technologies for eGovernance at the 20th CSI SIG eGovernance Awards-2022. Also, the state blockchain project T-Chits has received an Award of Appreciation under the project category.

Award at Indian Express Technology Sabha

Emerging Technologies Project "E-Voting", the country's first smartphone-based voting solution, has received an award for its innovative approach at the India Express' Technology Sabha.



Google Women in AI

Ms. Rama Devi Lanka, Director of the Emerging Technologies Wing, Government of Telangana, was recognized as one of the three "Women in AI" by Google at the Women Will session during their annual event, Google for India.

Events and Activities



AMTECH Expo



United Nations World Geospatial Information Congress



UK Edtech Meeting



Startup Connect with the Chief Secretary of Telangana



IAS Officers visit - BHARAT DARSHAN



Skilling, Upskilling & Reskilling

The Telangana Government focuses on equipping the citizens with the right skillset needed for them to land the jobs they want. There is a focus on enhancing the availability of talented workforce in the state as well as skilling citizens in basic technologies. **Telangana Academy for Skill and Knowledge (TASK)** focuses on making college graduates employment-ready by providing them with training programs. It also acts as a bridge between students, industry and academia by creating special courses and certifications for increasing hiring chances. **Telangana Satellite (T-SAT)** uses its satellite-based channels to provide quality educational content to students across the State. T-SAT Nipuna focuses on competitive exam preparation and skill development, while T-SAT Vidya offers interactive classroom sessions for school students. The initiative aims to bridge the educational divide by reaching remote and rural areas where access to quality education is limited. T-SAT also broadcasts programs on agriculture, health, governance, and cultural events, promoting holistic development. Through T-SAT, Telangana is making strides in enhancing digital learning and providing equal educational opportunities for all.

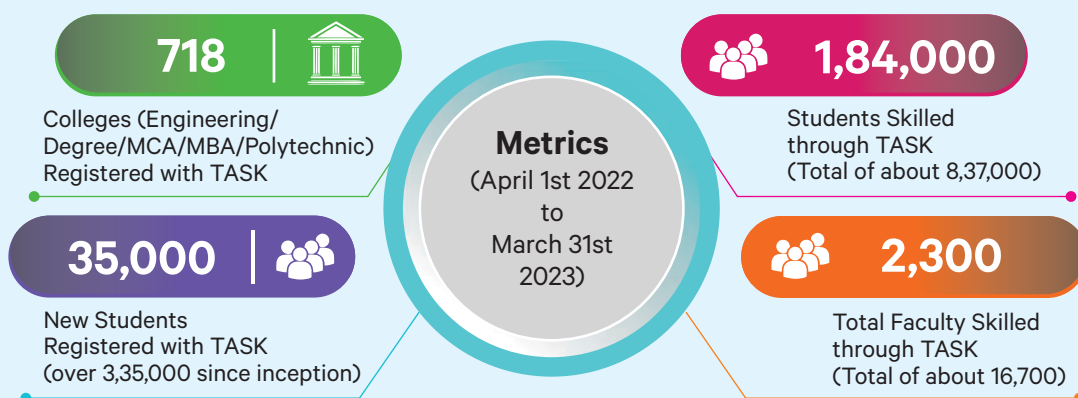


Telangana Academy for Skill and Knowledge

task.telangana.gov.in [f task.ts](https://facebook.com/task.ts) [t taskts](https://twitter.com/taskts) [in TelanganaAcademyforSkillandKnowledge](https://linkedin.com/company/TelanganaAcademyforSkillandKnowledge)

Telangana Academy for Skill and Knowledge (TASK) is a not-for-profit organization established by the Government of Telangana that works with the primary objective of skilling youth and making them more employable and hence, curbing the unemployment rate in the state. The organization, which caters to students from diverse academic courses and socio-cultural backgrounds, works on its objective through a three-pronged approach:

- Skilling the youth in technologies that are in demand by the industry
- Building essential 21st century workplace (transferrable) skills to make youth more adaptable and employable
- Developing an entrepreneurial mindset in the youth of Telangana



Initiatives Implemented

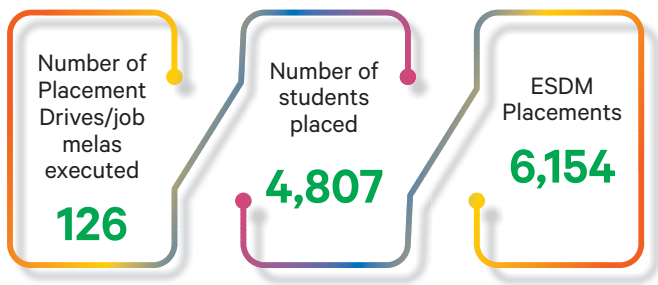
- TASK conducted Blockchain Hackathon in collaboration with IBC Media. 19,200 students participated.
- Launched initiative on click-to-learn/ UK Skills in government colleges to enhance English language proficiency.
- Launched community skilling centre in Chanchalguda & Tribal skilling centre in Asifabad
- Commenced TASK Regional Centre at Hanumakonda and Mahbubnagar. Hyderabad, Warangal, Karimnagar, Khammam, Sircilla already have such centres.

- In collaboration with MassMutual, inaugurated AIDEA Lab.
- Initiated Project Drona - a faculty immersive learning program for IT industry needs.
- Renewed MoUs with 26 partners and signed MoUs with 27 new partners.
- WinTalk Series conducted on various technologies in collaboration with HYSEA.
- Initiated Google Career Certificate.
- Through Cyber Safe Telangana program conducted with CISCO CSR, about 16,000 students across Telangana were trained.

Central Government Collaborations

- MeitY, Gol: Under ESDM Scheme, trained 17,000+ students and placed 6,154 students this year in the Electronics and Telecom sector.
- Telangana Vaidya Vidhan Parishad (TVVP): Reskilled 681 frontline health workers under National Health Mission (NHM).
- National Health Mission, Telangana: National Quality Assurance Standards (NQAS) implementation and technical support intended for national certification of Basti Dawakhana in GHMC limits.
- GMM Pfudler foundation – Under the CSR, Solar & EV Program, 40 Hours Classroom Training held for the ITI students of Electronics/ Electrical/ Mechanical/ Civil branches. A 20-hr hands-on session to be held by Chandradeep Solar Research Institute (CDSRI), Kolkata for 50 candidates as a pilot.
- Indian Oil Corporation Ltd. CSR Program: Healthcare skilling for sixty unemployed youth in Nalgonda & Yadadri - Bhuvanagiri Districts.
- Under LAKSHYA: STORIES OF CHANGE: Training for 75 Candidates in General Duty Assistant (GDA) Course.
- IOCL - MoU for the Proposed DAKSH Project: On the theme celebrating ideas and ideals that have shaped India, trained 75 candidates in Retail Sales and Pharmacy Assistant course in Srikakulam District, Andhra Pradesh.

Placement support provided



- Cisco – 13 students got placed with 17.39 LPA package and 3,110 students got internship with 98,000 per month
- Unschool - 376 students got placed with 6.5 LPA package
- 500+ students got selected in [24]7.ai with the package of 2.12 lakhs per annum (LPA) and 481 students got placed in Genpact and 41 of those students got 2.9 LPA.

Total Number of Students Placed During FY 2022-2023: 30,961+

(20,000+ students got placed directly through the college drives from our registered colleges)

RECOGNITION & AWARDS

- CISCO Premier ASC award for the 5th consecutive time.
- Excellence award from Indi Global Educational Festival 2022 for HYSEA Project Drona.
- Best recruiting partner by [24]7.ai
- Telangana Brand Leadership Award by socialandgovernance.com.



Partners

- **Nagarro:** To train the faculties of TASK-registered Engineering colleges on Blockchain concepts and real-time implementation to develop Blockchain-based courses for students.
- **CSS Corp:** Through this partnership, TASK provides internships and Job facilities for the students.
- **[24]7.ai:** Through this partnership, we are able to get supply for skilled resources, skill development programs and FDPs as well.
- **360DigiTMG:** Through this partnership, Skilling, Re-skilling and Up-skilling to be done to the students and faculty with the co-ordination of TASK in the facilities provided by TASK.
- **Ask Mentor Pvt. Ltd:** Through this partnership, we are able to get media coverage, hosting key officials & on TV shows.
- **Celonis:** Through this partnership, the academy would get advance software and assistance for better performance of the institute and administration.
- **The Designer Class:** To provide an advanced curriculum in Design Education and operate an innovation incubation and skill development center in interior design, fashion design, and jewellery design at a highly subsidized cost.
- **Head Held High:** Through this partnership, we deliver the i4TS program of TASK, which focuses on social and rural innovation.
- **Hetero:** Through this partnership, we provide job opportunities for students and support with technical trainers.
- **InnoHat Systems:** Through this partnership, upskilling college students and existing graduates in the area of RPA, blockchain and other hyper-automation technologies.
- **ISTD:** Through this partnership, we conduct mentorship programs, faculty development programs (FDPs) across Telangana and 20,000+ experienced members for POP program.
- **L&T Metro Rail:** Through this partnership, we provide job opportunities to youth of Telangana through a Recruitment drive or personal interviews
- **Monster:** To enhance employability, assist in placements, and facilitate job search/opportunities for individuals and registered colleges/institutes enrolled in TASK.
- **PGK Technologies:** To help Students, Corporates and Universities (Colleges) to be a part of A New India - access and equal opportunity to the talent by implementing its flagship product, C2Hire. - India's FIRST Blockchain-Enabled Campus Hire Platform, a Marketplace.
- **Premier Energies:** Through this partnership, we collaboration on Solar technology & Synergy among Institutions of Government, Industry & Academia and to create a pool of trained graduates for internships and placements, to customize courses/learning content for a specific technology/skill area prior to placement drives.
- **QETCI:** Through this partnership, we Develop cloud ready job skills by deploying a range of education and training programs to accelerate cloud related learning and development, FDPs, SDPs and hackathons to be hosted.
- **Resolute:** Through this partnership, we spread awareness & IPR programs to be delivered and support in Industrial visits, Training and internship for students.
- **Rubicon:** Through this partnership, we Prepare skill development content as per industry requirements and conducting assessments as per training requirements.
- **TEPL:** Through this partnership, we trains commerce students in Tally -ACE Certification and interview preparation & Job fairs
- **TAP Academy:** Through this partnership, we Campus to Corporate Program with Learning Management System(LMS) Offering 75+ Hours for 2022 and 150+ Hours for 2023 Free Online Training to Engineering Students.
- **Vahan:** Through this partnership, we provide eligible students across Telangana access to a community, internships & full-time jobs. Empower students from economically weaker backgrounds to secure part-time jobs in e-mobility.
- **Vidal NDT:** Through this partnership, we provide certification course and placement opportunities

- **Generation:** Through this partnership, we Train and place 60 youths from II & III tier engineering colleges under the Junior full stack developer (JFSD) role and Food & Beverage (F&B).
- **T-SAT:** Through this partnership, we get an official government satellite & electric media partner with whom all sessions will be broadcasted, broadcasting TASK media releases, programs, news, shows, panel discussions/talks, events and launches etc.
- **CyberPeace Foundation:** Through this partnership, we organize cyber security sessions, conduct cyber peace challenges/Exercises/hackathons to identify cyber talents and train students to reach their full potential.
- **Coursera:** Through this partnership, we train our students In 28 advanced courses with certification in the field of IT and e-commerce.
- **UK Skills:** Through this partnership, we train students in communication skills in the English language through a digital learning platform.
- **IBC Media:** Through this partnership, we conduct hackathons for students in blockchain and Web 3 technology.
- **GMM Pfaudler Foundation:** Through this partnership, we carry out disbursement for CSR activities, field visits, executing employee engagement activities etc in various fields.
- **NIIT Foundation:** Through this partnership, we train students 16 and above of age in cyber awareness and 18 to 27 in cyber smart and workforce, pursuing college, completed college degree, and are searching for jobs after graduation for cyber workforce.
- **Shell India Market Pvt. Ltd:** Through this partnership, we identify and train the youth talents to make them competent and future-ready workforce to facilitate the rapid scaling of the E-Mobility market and achieve clean energy and net zero targets. They will also be supporting TASK-kalam automotive centre for excellence.
- **Campus Fund:** Through this partnership, we help college students with funding for start-ups under the i4TS program.
- **Genpact:** Through this partnership, we provide employment opportunities for the youth of Telangana.
- **HDFC Bank:** Through this partnership, we provide employment opportunities for 2,500 youth of Telangana.

Entrepreneurship Development

Entrepreneurship Development Program to promote social innovation and rural entrepreneurship among the youth of Telangana. The program is titled 'i4TS 2.0' – Innovating for Telangana, and has the theme 'Saamajika Avishkaranalu ... Salaramaina Jeevithaniki' – social innovation for simplifying lives.

The program partner is Head Held High Foundation and the ecosystem partners are : T-Hub, WeHUB, RICH, TSIC, T Works, TSAT, IIT Hyderabad, IIIT Hyderabad, ISB Hyderabad, JNTU Hyderabad, Global Alliance for Mass Entrepreneurship (GAME), Gian, TiE Hyderabad, Kakatiya Sandbox, Palle-Srujana, campus fund.

The objectives of the program :

- To catalyze youth led innovation and entrepreneurship in the state of Telangana
- To address youth and catalyze entrepreneurial mindset in them
- To bring forward new approaches and new solutions that address important issues & inequality highlighted due to COVID-19 and SDGs.
- To mainstream the youth agenda to achieve the SDGs (Sustainable Development Goals)
- iEMP sessions have been completed and now the program is in ideation stage. Students will now be mentored by the ecosystem partners and then the final top idea will be shortlisted for EDP and then pre-incubation.

Through a robust communication infrastructure T-SAT, the satellite TV network operated by the Society for Telangana State Network (SoFTNET), enables Distance Learning, Competitive Exams Coaching, Agriculture Extension, Rural Development, Telemedicine and e-Governance using audio-visual, wire & wireless and satellite technologies. Over the years, T-SAT's video content for competitive exams like State and Central Civil Services became very popular and turned out to be instrumental in securing jobs. Further, T-SAT facilitates Government Departments to train its staff in skillsets relevant for them.



Details on Educational Programs

Competitive Exams Guidance

- Telecast 2 hours content daily for TSPSC, Group I, Staff Selection Commission (SSC), Gurukulam, and TET aspirants.
- A total of 1,706 episodes of content is available

Department of School Education

- Telecast 8 hours of digital lessons for school students for all subjects from Grade 3 to Grade 10
- Total 1,869 episodes of content available

Board of Intermediate Education, EAMCET & POLYCET

- Telecast 5 episodes of digital lessons every day.
- A total of 909 episodes of content telecast.

NMMS, TSRJC, Aangla Yagnam, Innovation

- Telecast special episodes to prepare children for competitive exams.

Women Development & Child Welfare Dept

- Telecast daily 1 hour live sessions for pre-school children
- Telecast Anganwadi teachers and workers training programs every month

Guidance on TSLPRB

- Telecast special content for SI & Police Constable aspirants.
- A total of 216 episodes of content telecast this year.

Osmania University and Kakatiya University

- Signed an MoU with Osmania and Kakatiya Universities to telecast video lessons produced by Educational Multimedia Research Centre (EMMRC)

Informational Programs

Health Programs

Aarogya Mitra

- Live interactive programs with Super Speciality doctors every Friday.

Manomitra

- Special program "Mental Health" to create awareness on mental disorders.



Agriculture Programs

Rythu Mitra and Rythu Bandhu

- Live interactive sessions with farmers in association with Professor Jayashankar Telangana State Agricultural University, Animal Husbandry Department and Rythu Bandhu Samiti



T-SAT e-Magazine

- Released on programs broadcast by T-SAT network channels. The programs broadcast can be accessed through hyperlinks provided as e-library.





Digitally Empowered Citizens

The Telangana Government is dedicated to bridging the digital divide among citizens of diverse socio-economic backgrounds. It aims to empower them with essential tools and resources to embark on their digitalization journey successfully. Ensuring safe and secure internet access is a top priority for the government, with a strong emphasis on cybersecurity and data protection. By prioritizing these areas, the government strives to create an inclusive and secure digital environment for all individuals in the state.

Several wings run programs that educate and train citizens on digital skills. MeeSeva focuses on deploying citizen-centric digital solutions. The Emerging Technologies wing uses the latest technologies to develop digital solutions that are accessible to all sections of society. The Cybersecurity CoE works on improving the cybersecurity capabilities of the state. T-SAT offers digital classes which are widely accessible and T-Fiber ensures that every household has the internet connectivity required to make the best use of all these services. TASK, T-Hub, WE Hub and other wings also train citizens on the skills required to be more digitally literate. The Digital Media Wing ties all these initiatives together by ensuring that information is disseminated to citizens in a timely and accurate manner.

Digital Media



   DigitalMediaTS

Citizen Engagement through Digital Media Platforms

Telangana Digital Media Wing (TDMW) plays a crucial role in connecting and engaging with citizens by disseminating information through various digital media platforms. Its primary responsibilities include managing and updating official social media accounts and key government portals, implementing the Open Data Initiative, localization of content, and conducting campaigns to combat misinformation.

Portals

- Revamped IT Dept Portal
- Developed Website and Mobile App for Telangana Dashabdi Utsavalu (Decennial Celebrations) - <https://dashabdi.telangana.gov.in/>
- Developed Website for Telangana State Film Development Corporation (TSFDC), Media Academy and Sugar Dept. All these are ready for launch.

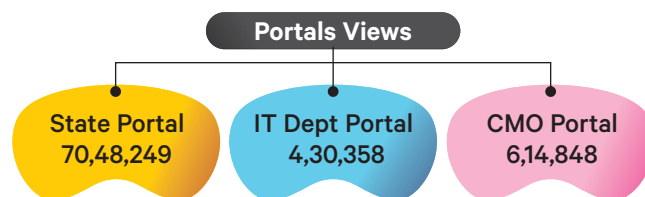
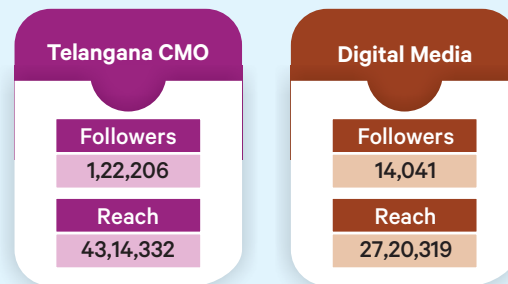
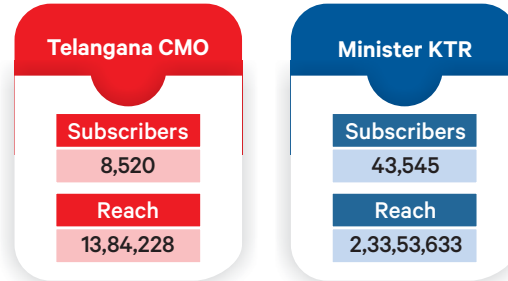
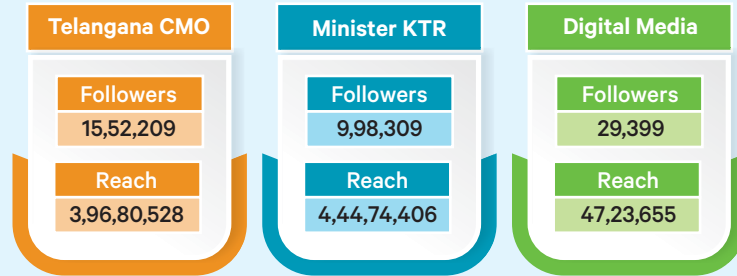
Social Media

- Manages Official FB, Twitter and YouTube channels of Telangana CMO, Minister KTR and Digital Media Wing

Social Media Statistics (1st April 2022 to 31st March, 2023)



Telangana CMO		Minister KTR		Digital Media	
Followers	Reach	Followers	Reach	Followers	Reach
8,57,478	2,04,04,140	5,25,541	1,79,27,094	10,383	1,42,26,026

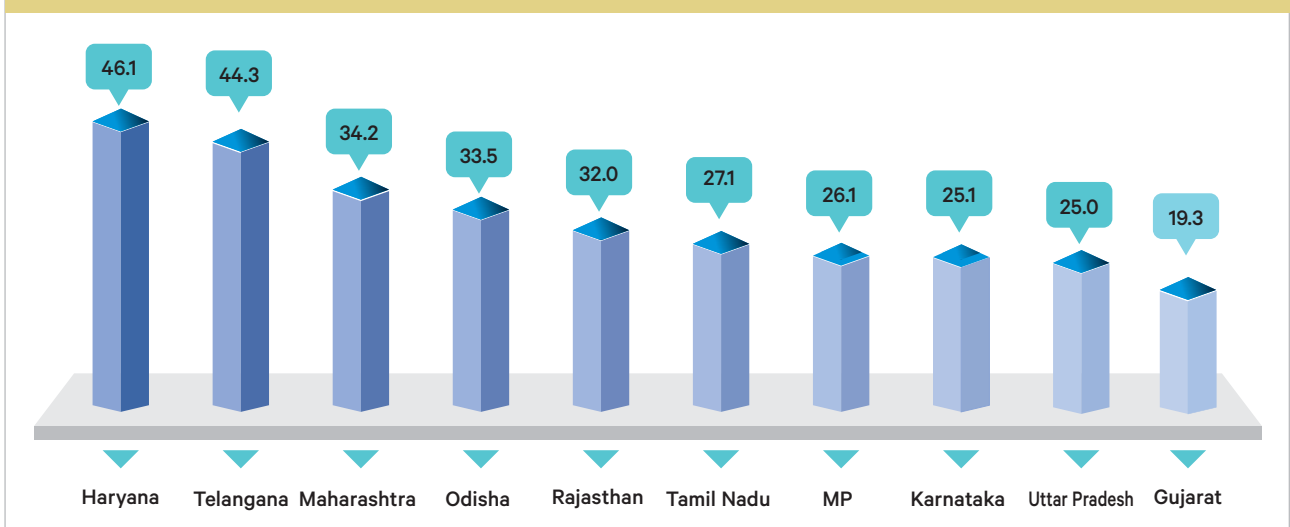


Portal Views (April 1st 2022 to March 31st 2023)

CMO Twitter Accounts - Top States (as on 20 May, 2023)

S.No.	State	Followers	Population	Followers per 1000 population
1	Haryana	11,69,042	2,53,51,462	46
2	Telangana	15,52,216	3,50,03,674	44
3	Maharashtra	38,45,851	11,23,74,333	34
4	Odisha	14,05,658	4,19,74,218	33
5	Rajasthan	21,93,327	6,85,48,437	32

CMO Twitter Followers per 1000 Population - Top 10 States



Major Activities

- Set up Telugu Wikipedia/ Telangana Digital Repository Stall at 35th Hyderabad National Book Fair held in Hyderabad from 22nd December, 2022 to 1st January, 2023
- Official visit to Chandigarh to study Panjab Digital Library
- As part of decennial celebrations of Telangana formation, the Digital Media Wing has undertaken various digital media campaigns including promotion of Telangana Government content on Facebook, Instagram, and YouTube; Google Display Ads, and Government-to-Citizen (G2C) and Citizen-to-Government (C2G) communication campaigns on WhatsApp.

Telangana Digital Repository

The Telangana Digital Repository aims to proactively document and organize the rich cultural and political heritage of Telangana. By leveraging ICT tools, it provides a digital platform to store and retrieve Telangana-centric documents, images, videos, and other historical materials in a systematic and accessible manner. Serving as a gateway to explore Telangana's vibrant past and present, the repository strengthens the state's identity. It ensures content availability 24/7, facilitating global access for researchers, citizens, and the diaspora. Through digitization, the repository overcomes preservation challenges and offers durable and easily accessible content, empowering users to search and locate relevant information. Moreover, the repository encourages collaboration with civil society to source valuable content for digitization, fostering a sense of collective ownership in preserving Telangana's heritage.





Contactless, Paperless, and Presenceless Government

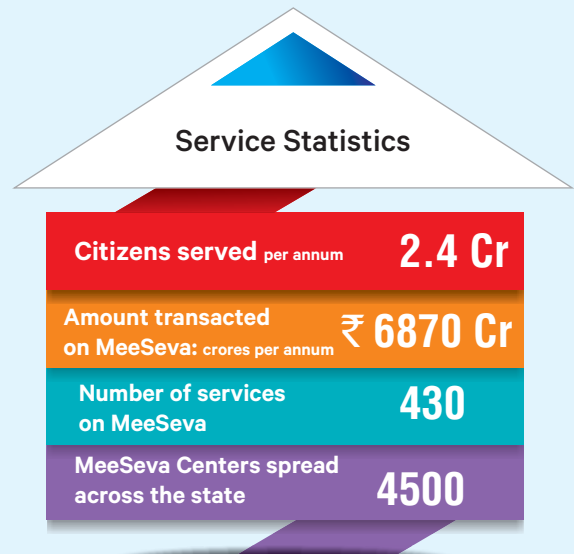
With the onset of the digital revolution, the state is working on delivering all citizen services and internal services digitally and ensuring that there are sufficient mechanisms to streamline digital interactions with the government. The government is also developing service delivery mechanisms by combining multiple new-age technologies like AI, ML, blockchain, etc. and has begun creating a secure line of products to provide secure verification and data processing.

Electronic Service Delivery



ts.meeseva.telangana.gov.in

Electronic Service Delivery (ESD), Dept. of ITE&C, Govt. of Telangana is the single point agency for delivery of government services to citizens and businesses with a key focus on improving efficiency, transparency, and accountability for government service delivery facilitated by technology. ESD currently delivers 450+ services of 90+ participating agencies to citizens of Telangana through multiple channels including 4500+ MeeSeva centers spread across the state, MeeSeva website, and mobile apps. Telangana is one of the fastest states in India to adopt digital technologies for e-governance. Telangana state has been ranked number 2 based on the following parameters, since its inception, i.e., June 2014, as reported by eTaal, MEITY, Govt. of India

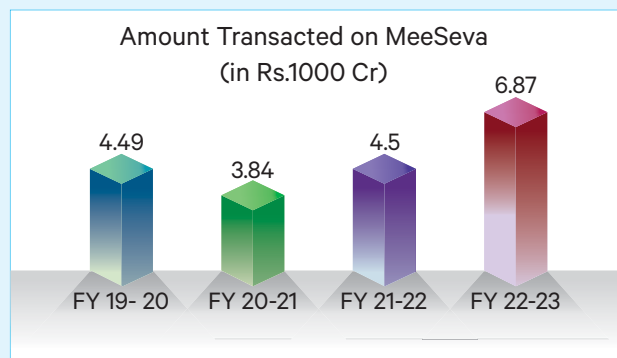
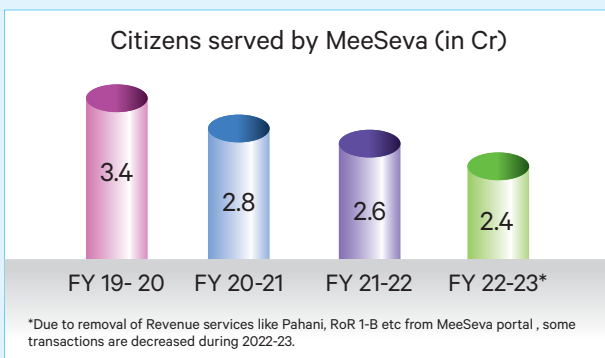


Citizen Service Delivery Platform (s)

MeeSeva 2.0 (MeeSeva in a new avatar!)

The Government has completed the overhaul of the MeeSeva system to further strengthen the current system and improve service delivery through MeeSeva 2.0. MeeSeva 2.0 was rolled out in 2019. It has given significant benefits to all stakeholders. MeeSeva has been the go-to platform for launching high-priority government services such as LRS, GHMC Flood relief, NPB, Sadabainama, Sadarem, Dharani slot booking, etc.

Key metrics of ESD (as on 7 May, 2023)



T App Folio– the flagship m-governance initiative of Govt. of Telangana

ESD has implemented one of its kind m-Governance initiatives, T App Folio, which enables delivery of G2C, B2C, VAS, and info services. T App can be accessed on Smartphones (App, Mobile Web) as well as Feature phones (USSD, IVRS, and SMS). T App Folio is also the only App in India that currently enables application and certificate services to be delivered to citizens. T App Folio was launched in February 2018. 270+ services hosted on the app are being used by ~2.5L citizens. 10 new services were added during this period.

ESD's other Citizen Service Delivery Platforms

T Wallet

T Wallet is the official digital wallet of Telangana State, launched on 1st June 2017. It is the first digital wallet owned by any state government in India. Rs. 4,109 crore worth of transactions were recorded through the wallet. 11 new services were added during this period. 59.3

Smart Governance initiatives based on Emerging Technologies

Smart Governance is a key focus area for the IT,E&C Department. In this regard, ESD has been adopting emerging technologies like Big Data, AI, ML, etc. for re-engineering processes involved in the delivery of all government services.

Real-Time Digital Authentication of Identity (RTDAI)

ESD conceptualized a solution called RTDAI, which enables a document-less, presence-less governance mechanism using Big Data, AI, ML, etc. ESD is in discussion with multiple departments to customize RTDAI for several use cases. RTDAI facilitates key processes of government departments such as name verification, photograph verification, ID verification for service delivery. The output from RTDAI is highly accurate and independent of human intervention while ensuring a proper audit trail for accountability and transparency. All the RTDAI citizen services are offered through T App Folio.

Pensioner's Life Certificate through Selfie (PLCS)

PLCS is the first use case of RTDAI and has been launched in April 2019. The solution eliminates the need for pensioners to visit the authorized physical offices to submit proof of their liveness. 13,500 pensioners have registered to avail the facility of PLCS during this period. 71,500 pensioners have used this service since its inception. The solution has a high success rate of ~91%

RTA FEST

Friendly Electronic Service of Transport, FEST launched in July 2020, allows the Citizens of Telangana to avail numerous services of the Transport department through a smartphone from their home, anytime, anywhere, without visiting the Transport department. Currently, 17 services under 4 areas (License, Registration, Permit, Tax) are live on T App through FEST. Except for services where a driving test or physical inspection of the vehicle is to be performed, all services would be offered in a Contactless and presence-less manner through FEST. 52,000 citizens have been served with RTA service during this period. 1.12 lakh citizens have used this service since its inception.

DOST Authentication

Leveraging RTDAI, authentication of students for admission of students into Degree Programs of Telangana was made completely remote through DOST Authentication service. This ensured that the students could complete the authentication process without stepping out during the Covid crisis. Nearly 5,700 students completed their authentication on T App Folio during this period. 35,730 students have used this service since its inception.

Samagra Vedika

Govt. of Telangana has envisioned and executed a smart Governance solution - Samagra Vedika using emerging technologies such as Big Data and ML, to integrate govt. databases for informed decision making by officials, ensure proper targeting of subsidies and revenue increase in some departments. Owing to its utility and potential, Samagra Vedika was mentioned in the Economic Survey of India 2019 presented by the Hon'ble Finance Minister of Government of India in the Parliament on 4th July 2019.



Presentation to NIRD officials



Presentation to CMO Office Team, West Bengal

Internal eGovernance Initiatives

The eGovernance Wing of the ITE&C Department has been providing technical support for development and implementation of various IT applications for the departments of the Telangana State through the SeMT and SPMU teams. The wing has provided end-to-end support for many important internal and external applications for the Government Departments. Important projects executed in the year of 2022 – 2023 are as follows

Government Orders Issue Register (GOIR)

Secretariat Departments (G.Os issued from 02.06.2014 to 09.05.2023)	1,83,024 GOs
Commercial Taxes Department	4,38,348 orders
Telangana TRANSCO	43,632 orders
File Monitoring System (FMS)	7,59,966 currents by all Secretariat Depts
Secretariat Office Management System (SOMS)	73,477 Communications

ICT (eGov) Project Monitoring System

The eGovernance wing of the ITE&C Department launched a web-based application called ICT PMS on September 29, 2021. This application allows officers to monitor the status, milestones, and roadmap of government departments' ICT projects. Additionally, it provides features such as Daily Activity Report to track the activities of ICT PMU members and an Attendance Report to generate attendance records for the PMU members. The application can be accessed at <http://www.egovpms.telangana.gov.in>.

e-Procurement

The <http://eprocurement.telangana.gov.in> is a platform being utilized by all Government Departments including local bodies and Municipal Corporations along with their vendors, Cooperative Sectors, Public Sector Undertakings and other State Governments. Since the new version of the procurement portal goes live i.e., 03.10.2017, a total of 3,71,167 tenders were floated on the eProcurement platform covering an amount of Rs. 2,34,095.51 Crores up to 30/04/2023 and out of which 1,73,436 tenders were finalized whose worth is to the tune of Rs. 84,229.68 Crores.

e-Office Project

e-Office is a workflow-based system that includes the features of existing manual handling of files with the addition of a more efficient electronic system. This system involves all stages, including the Diarisation of inward receipts, the creation of files, the movement of receipts and files, and finally, the archival of records. With this system, the movement of receipts and files becomes seamless and there is more transparency in the system since each and every action taken on a file is recorded electronically. This simplifies decision-making, as all the required information is available at a single point.

e-Office project is being implemented in

- 30 Secretariat Departments, 120 HODs (Including all ULBS)
- 33 Districts (Collectorate Revenue, Mandal Level Offices, Police Offices).
- extending to Mandal Level offices in all districts.
- 145 Government Degree colleges, 56 Polytechnic Colleges, all 16 TSSP Battalions, 33 DCEO's (TS BIE), All District Forest Offices and Circles.
- Separate Instance has been created for all Universities in Telangana State. eOffice is now live in Osmania University, JNTUH, BRAOU, and MG University and is under process in the remaining universities.

Statistics as on 30.04.2023 (Including all instances)

- Total No. of Users: 34,378
- Total Instances: 36(Secretariat,33 Districts, Universities, HMWSSB)
- Total Global Organization Units: 2043
- Total Receipts created: 33,93,227
- Total Receipts Moved: 80,23,561
- Total Files Created: 10,14,286
- Total Files Moved: 87,30,830

Deployment of eOffice application in AWS Cloud

The Government has mandated government departments to deploy their applications on the Cloud, excluding confidential data that poses a security risk to the state or national interests. In line with this policy, the ITE&C Department is migrating all eOffice instances in the State Data Centre (SDC) to the Cloud. Recently, the Secretariat and all 33 district e-Office workloads were successfully migrated to the AWS Cloud. As a result, the e-Office case study was published on the AWS Global Portal under the India/South Asia category. You can find the case study at <https://aws.amazon.com/solutions/case-studies/itec/>.

DigiLocker

DigiLocker is a flagship initiative of Ministry of Electronics & IT (MeitY) under Digital India programme. DigiLocker aims at 'Digital Empowerment' of citizen by providing access to authentic digital documents to citizen's digital document wallet.

Status

- G.O have been issued for adoption of DigiLocker in Telangana State with G.O Ms No.14, ITE&C department, dated: 04.11.2021
- For MeeSeva high volume services have been integrated, as of now total services 66,00,77,180
- Universities/Institutions integration is in progress. 11 Institutions integrated with DigiLocker.
- 32 MeeSeva services integrated with DigiLocker.



Projects

The eGovernance wing is providing technical support for development and implementation of various I.T. applications of the Departments of Telangana State through the SPMU team members. The details of the IT applications are as follows:

Agriculture and Cooperation Department

Rythu Bandhu: Providing investment support to farmers.

Energy Department

Telangana TRANSCO and DISCOMs Orders : TGTO application is used by NPDCL and SPDCL to issue TRANSCO and DISCOM orders. TGTO Version 1.0 launched in 2014.

Environment Forest Science And Technology Department

- **Migration of Existing Web Portal into New Technology, Hosting at TSSCAN server:** EPTRI requested to migrate the existing web portal into new technology.
- **Mobile App for Inspection:** The field officers will inspect the workstations pertaining to Solid Waste Management System
- **Online Application for Laboratory Information Management System:** EPTRI lab were testing various parameters like water, soil, air etc., with the help of this application

Finance Department

- **Digital Payment NPCI-BBPS:** Implementation and assessment of project
- **FINGOIR:** Finance Web service to generate the BRO by the Finance Department

Animal Husbandry And Fisheries Department

- DBT system for Village farmers
- Online application for Milk sheds, Dairy plant, Milk chilling centers, and Bulk cooling centers integration
- Development of Dashboard for monitoring by Spl.CS, AHDD&F
- HRMS for Gopala Mitra Volunteers
- HRMS for Veterinary & Animal Husbandry Department staff
- Integration of all Veterinary Hospital Management System
- Matsya Mitra Mobile App for fish seed and prawn juvenile stocking
- Matsya Mitra Mobile and Web application for Commissioner of Fisheries Department
- NeGD (National e Governance Division) LMS for Capacity Building
- Pashu Bazar platform for buying and selling animals
- VAHD Web Portal for information management
- Veterinary Hospital Management System
- Web Application for marketing dairy products
- e-Laabh: Web-based Benefit Management System
- Sheep & Goat Deworming Mobile App
- TSDDCF (Telangana State Dairy Development Cooperative Federation Limited) web portal for dairy development

Consumer Affairs, Food and Civil Supplies Department

- Automation of sales using RFID technology and ANPR (Automatic Number Plate Recognition) system
- GIS Based Civil Supplies application for stock allocation
- Gunny Bag Procurement: Blockchain Implementation for tracking
- OPMMS implementation

General Administration Department

- CS PESH: Web application for generating inward numbers and managing file entries.
- GAD POLL PESH: Application for GAD departments to manage Peshi activities and simplify file register maintenance.
- Temple Revenue Monitoring Application to track the Income and Expenditure of every temple

Health Medical and Family Welfare Department

- **Arogya Mahila**: State Government initiative providing free healthcare services exclusively for women, addressing their health concerns and offering treatments, medications, and tests.
- **Arogyasri**: State government's flagship health scheme providing quality healthcare to the poor through Aarogyasri Health Care Trust, covering hospitalization, surgeries, and therapies for identified diseases with government-paid premiums for BPL families.
- **Inspection Report Mobile Application**: The Drugs Control Administration inspectors Mobile App (Android) is a user-friendly tool for Drug Inspectors to conduct and report inspections, saving time and enabling offline functionality.
- **Integration of applications with Government of India applications**: Integration with Govt of India applications we have started like state NCD with Gol NCD and KCR KIT with RCH, Gol applications.
- **Kanti Velugu**: Government initiative for universal eye screening, providing free vision tests, spectacles, surgeries, treatments, and education to eliminate avoidable blindness in Telangana.
- **KCR KIT**: Launched to promote institutional deliveries, reduce maternal and infant mortality, and provide hassle-free care for pregnant women, limited to two live children, incentivizing deliveries in government hospitals with IT-enabled implementation and DBT payments.
- **NCD (Non communicable Disease)**: Early detection, tracking, and treatment of NCDs in the state population, limited to government hospitals and health centers, and tracking village-level health trends.
- **Network connectivity to all Government Health facilities in the state**: Enabling connectivity through BharatNet to CHC, PHC and Sub Centers in the state.
- **Rashtriya Bal Swasthya Karyakram**: Rashtriya Bal Swasthya Karyakram (RBSK) provides reference materials, job aids, and participant manuals to Mobile Health Teams for standardized screening methodology, focusing on addressing defects at birth, diseases, deficiencies, and developmental delays.
- **T-Diagnostic Centers**: Telangana Government's initiative using a hub and spoke model, with barcode-driven sample processing and device interfacing, connecting district processing labs (Hubs) to all Government healthcare facilities (Spokes), enabling sample collection and online report generation.
- **Telangana Health Card & Health Profile Card**: Includes Telangana citizen's health profile with primary identification data, registration details, vitals, provisional and detailed diagnoses, and information on non-communicable diseases.

Higher Education Department

- **Automation of Central Library, Afzalgunj** : Web portal, Online Application for Scanning & Digitization of Rare Books, Newspaper etc.,

Home Department

- **Battery Theft Management System** : POC on Battery Theft Management System
- **Camera Mounted Police Vehicle** : Camera-mounted police vehicle: Equipped with external cameras, provides live footage and recording of police activities and interactions with the public, enabling effective deployment of forces and situation assessment through connectivity with control room.
- **Counter Drone intelligence** : Complete ideation of the project
- **Crowd Monitoring and Management Application using AI** : Real-time camera feed application with dynamic analytics and dashboard, covering entire premises or specific locations/areas.
- **Crowd management application implementation in Numaish** : Real-time camera-based application for crowded management at Numaish, Nampally, providing dynamic analytics, estimating density, managing traffic, ensuring crowd control, visibility on public gatherings, and facilitating necessary arrangements.
- **First respondent Drone- Dial 100** : Implementing advanced AI-enabled First Responder Drones for swift response to crime incidents, equipped with cameras, heat sensors, loudspeakers, and real-time data transmission, ensuring full coverage and enhancing citizen's sense of security.
- **Grievance application for live fire accidents** : Fire Department requests live grievance application for fire accidents with geo-location, live photos, and videos, enabling accurate status estimation and prompt response.
- **Interrogation cell for criminal investigation** : IT-enabled advanced interrogation cell: Incorporates IT and advanced techniques for effective criminal investigation, featuring voice analysis, video camera, facial recognition, recording of interrogations, and multi-agency access system.
- **Plug and Play Analytics** : Police department requests plug and play analytics setup with cameras, software, servers, and ITE&C department support. Charges applicable for the support provided.
- **Smart and Secure Secretariat** : Introduce facial recognition
- **Suggestions for advanced firefighting equipment for the fire department** : Advanced firefighting equipment enhances effectiveness and safety by offering a range of specialized tools and technologies for extinguishing fires.
- **TS AGNI Mobile App** : Enables citizens to capture fire accident location with automatic geo-location capture, sending SMS alerts to officers and providing fire image and navigation links, allowing estimation of fire density and arranging fire vehicles based on Google map navigation.
- **Transit system** : Proposing solution to design efficient transit networks, manage operations, and improve operational efficiency for cities, reducing congestion and enhancing mobility.
- **Video Analytics** : Pilot on Video Analytics

Housing Department

- **2BHK Housing** : Contraction of houses to the EWS category by Government with 100% subsidy

Industries and Commerce Department

- **SSMMS** : Monitor Sand Sale related operations

Information Technology, Electronics and Communications Department

- **DigiLocker Implementation** : Ministry of Electronics & IT's flagship initiative under Digital India, empowers citizens with access to authentic digital documents in their digital document wallet.
- **ICT (eGov) Project Monitoring System** : A web-based application launched by eGov wing in September 2021 for monitoring the status of eGov projects, enabling officers to track project milestones, generate MIS reports for submission to the Government of India.
- **IT Hub Space Allocation in New Secretariat** : IT Hub Space Allocation in New Secretariat
- **RajivSwagruha Mobile Application** :
- **Smart City Innovation** : Smart City Innovation programs have been implemented in Karimnagar City and Warangal (Hanmakonda) to enhance urban services and infrastructure. These innovations include the Integrated Command Control Centre, Intelligent Traffic Management System, Smart Surveillance, Solid Waste Management, and e-Learning and Smart Schools. These initiatives aim to improve city governance, enhance traffic management, strengthen surveillance systems, ensure efficient waste management, and promote digital learning in the respective cities.

Panchayat Raj and Rural Development Department

- **PMGDISHA** : The Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA) empowers six crore rural households by providing digital literacy and IT skills, enabling their participation in the democratic and developmental process as part of the Digital India initiative.
- **Re-Engineering Process at Stree Nidhi** : Maintenance of basic data of SHG members, e-FMS for funds transfer, Development of loan Products and Disbursement of loans, development of saving products, loan recoveries, MIS and IVRS
- **Works Monitoring System for the PRED Department** : The Panchayati Raj Engineering (PRED) Department request for the development and Implementation of Web application/ Mobile Application for the work management system.

Planning Department

- **Constituency Level Development Monitoring System** : Monitoring of MPLADS and Other Schemes

Revenue Department

- **Aadhaar Seeding with Pattadar Khata number** : Development of an Android app to link Aadhaar number with landowner details stored in the web land database, enabling easy access and seeding of Aadhaar information.
- **Commercial Tax Department Orders** : CTDO web application is used by Commercial Tax department to issue CTD orders. CTDO Version 1.0 launched in 2014.
- **Crop Booking Mobile Application** : A mobile-based application enables Village Revenue Officers to capture and transmit real-time crop data to the District Administration, ensuring accurate verification and validation of field-level information.
- **GO 118 (44 Colonies) Mobile App** : Government implemented land regularization schemes for occupied land by weaker sections, slum dwellers, and low- to middle-income groups, but litigation exists in 44 locations in Rangareddy, Medchal-Malkajgiri, and Hyderabad districts due to layouts formed by private developers and sold to individual buyers.
- **GO 58&59 Mobile Application** : GO58&59 Mobile application facilitates the assignment of unobjectionable Government land and surplus land under Urban Land Ceiling to poor people, capturing geo-tagged photographs for regularization applications.
- **Gratinate Application** : Online application for Salary structure of endowment Employees. It will be shared with Finance Department every month.
- **Online Application for Temple Revenue Monitoring System** : To monitor income and expenditure of every temple for accountability.
- **Pattadar Passbook Mobile Application** : A comprehensive and user friendly android based Mobile application is developed for to record the PPB Distribution status.
- **Trust Board** : Online Application for appointment of Trust or committee members for every temple
- **VRO-Preliminary Information Report Mobile App** : An Android-based mobile app enables Village Revenue Officers to report and document illegal activities such as illegal construction, land encroachment, SC/ST atrocity, child labor/marriage, etc., for further action by the Tahsildar.

Transport Roads and Building Department

- **AI for Highway Safety** : Pilot on AI for Highway Safety
- **II. Vehicle Life Cycle management using Block Chain Technology** : End to End vehicle life cycle management using Block chain Technology

Tribal Welfare Department

- **ROFR Mobile Application** : ITE&C Dept. develops ROFR mobile app for Tribal Welfare Dept., enabling pre-population of habitation data, geo-tagged photographs, structure boundaries, and beneficiary details for recommended applications, facilitating regularization.

Women Development, Child and Disabled Welfare Department

- **Aarogya Lakshmi** : Tracking of benefits issued to pregnant women through mobile app

Common Applications For All Government Departments

- **Court Cases Management System:** To list out a. Identify infructuous cases; b. Identify cases suitable for non-judicial remedies; c. Identify cases for Lok-Adalat referral; d. Implement court orders in contempt matters; e. Analyze long-pending cases over 10 years; f. Ensure counters filed in all cases.
- **Government Order Issue Register:** The Government Order Issue Register (GOIR) Version 1.0 is a eGov online portal launched by IT,E&C Dept. on Dt.02-06-2014 to make the GOs (Ms and Rt) available to common citizens on public domain

- **Government e-Marketplace (GeM) :** Government eMarket place (GeM), facilitates online procurement of common use Goods & Services required by various Government Departments / Organizations / PSUS. GeM aims to enhance transparency, efficiency, and speed in public procurement.

Current Status

- Total order value : 1,178.9 Cr
- Total no of buyers registered : 285
- Total no of sellers registered : 3,23,572

HRMS: Application is used to Manage the Employees Data like Payslips, Attendance, Salary, Leaves etc.,

- **Online Application for RTI:** Implementation of RTI Online application for all the Government departments including HOD's
- **Secretariat Office Management System :** The Secretariat Office Management System (SOMS) is a web application launched on Dt.20-06-2016 for Secretariat Departments to upload OOMs, OORt, OO, UO Note and Office Memo's. As of now 29 Departments are using SOMS Application. SOMS Version 1.0 launched in 2016.
- **eOffice Application :** Telangana's ITE&C Department, in collaboration with NIC, is implementing the eOffice project for a paperless and transparent office environment, enhancing efficiency and accountability.
- **Map India GIS based Solution :** Initial discussion held with all PMU team members and arranging a detailed demo for A.D and J.D Sir for more clarifications.
- **Promotion of Digital Payments Detailed report :** News item published in TIMES OF INDIA on Dt.09.12.2022 with caption " HYD Clocks Second Highest Digital Payment Transactions after Bangaluru" which is a welcoming thing, but we need aspire to TOP the list.



The Telangana ITE&C Dept., e-Procurement Project has won the prestigious SKOCH Golden Award 2022 under e-Governance.



Deployment of eOffice application in AWS Cloud



A training session on e-Office implementation at BRAOU, Hyderabad




ITE&C Department as a Tech Enabler

As part of Telangana's vision of becoming a true digital state, it is important for the government to be at the forefront of innovation and technology. The ITE&C department is responsible for leading the digitization of government systems in a citizen-centric and data-driven approach. The Telangana State Technology Services (TSTS) was established to provide support to all the government departments with the guidance to transition to digital. TSTS guides departments on hardware and software procurement, recruiting skilled workforce and acts as an IT advisory.

The Open Data wing ensures that data available with government departments is accessible on the public domain in a private, secure and usable manner. The Government has an impressive data repository which is useful to researchers and other organizations for deriving insight and these insights can in turn be useful to the government for making data-driven decisions. Through these wings, ITE&C departments enables the government to become adopters of technology.

TSTS - Telangana State Technology Services



 tsts.telangana.gov.in

The government established TSTS Ltd., a wholly owned government corporation & a specialized agency under the aegis of the ITE&C Department to build up skills for the development of computer system requirement specifications, techno-commercial analysis, market intelligence, etc., for the procurement of computer equipment, acceptance testing, and all related IT services. Government departments, public institutions, and public sector undertakings have been relying on TSTS Ltd., for their hardware/software procurement requirements.

Technology, Innovation, Adoption Collaboration Cell (TIACC)

The Technology, Innovation, Adoption, Collaboration Cell (TIACC) is a new wing created under TSTS for the adoption & implementation of latest IT Technologies in eGovernance solutions and expansion of TSTS services. As part of the TIACC activities, TSTS is expanding its consulting and project management services at the national level and collaborating with other state governments to cater to various IT solutions.

Major Works done by TSTS during the Year – 2022-23

◆ Dharani Project

TSTS is coordinating with the CCLA and IGRS departments to provide complete technical support for the Dharani Project. Services offered by TSTS in Dharani are:

- Operations & Maintenance of Dharani Application
- Printing and Supply of Pattadar Passbooks to citizens' doorstep
- Deployment of Field Technical Manpower
- IT Hardware for MRO offices
- Aadhaar Authentication Services
- Technical assistance in project management

◆ Aadhaar Based Authentication Services (ABAS)

TSTS has launched Authentication User Agencies (AUAs) services for all government departments:

- Authentication Services for identifying the correct beneficiary/user.
- KYC Services to fetch Demographic Details of Citizen
- AADHAAR Based Attendance System

ABAS services are used by 68 Departments/Corporations/Universities/Organisations across Telangana State as part of good governance.

The AADHAAR Based Facial Attendance System was developed to overcome the challenges of the Fingerprint based authentication system and is being tested on a pilot basis.

◆ **Telangana High Court**

TSTS provided procurement services for various technical and CCTV surveillance systems installed in the premises of the Hon'ble High Court of Telangana and across all sub judiciary systems.

◆ **Health Department**

- a. Aarogyasri Health Care Trust – Technical support in identification of service provider for operations & maintenance, redesign, redevelopment of AHCT application & deployment of SAS Viya Framework;
- b. Commissionerate of Health Dept - Identification of service provider for 108 Emergency Medical Services in Telangana State and supply of various IT infrastructure
- c. Director Medical Education - Installation of CCTV Surveillance System and Aadhaar Biometric Attendance System in Government Medical Colleges & Hospitals as per NMC Guidelines.

◆ **Smart City Project:** Technical support to Warangal Municipal Corporation was provided for Warangal Smart City.

◆ **Hyderabad Safe City :** Technical support to City Police for the Hyderabad Safe City Project.

◆ **TSPSC:** Technical support to TSPSC in identifying various agencies for conduct of govt exams.

◆ **Telangana State Police Department**

- Identification of service provider for design, development, customization, commissioning, and maintenance of the CCTNS V2 application.
- Supply of Cybercrime investigation tools, forensic lab equipment under Hyderabad Safecity project.
- Digital Mobile Radio Sets for O/o DGP-Telangana and other IT hardware items
- Consultancy & Project Management Services for various projects in the Police Dept.
- IT Hardware and Cyber Crime Investigation tools for the Anti-Corruption Bureau.
- DRONES procurement for the Department of Police & Agriculture.

◆ **Operations & Maintenance of Govt. Owned Meeseva Centres in Urban Areas.**

TSTS is designated as a Service Center Agency (SCA) to handle the operations of ESD SCA centers and Govt. Owned Meeseva centers. There are about 3661 franchisees and 108 government centers, and 75% of MeeSeva transactions happen through TSTS franchisees.

◆ **School Education Dept**

- Establishment of Digital ClassRooms through Interactive Flat Panels for Government Schools
- Supply of various IT hardware items – Tablet PCs, Desktop computers, Printers, UPS under Manavooru -Manabadi programme.
- Supply of Laptops to RGUKT Basara

◆ **Podu Land Passbook:** TSTS has arranged for printing & supply of Poduland Passbooks to Tribal Welfare Dept.

◆ **Infrastructure & Networking Projects (IIP):**

- Procurement of IT infrastructure and Services for SDC, TSOC, SWAN, SCAN & VC Projects
- Maintenance of State Wide Area Network (SWAN)
- Providing the Vertical & Horizontal Connectivity under SWAN Project
- Operations & Maintenance of State Data Center (SDC)
- Managing Telangana State Security Operations Center (TSOC)
- Maintenance of Secretariat Campus Area Network SCAN
- Maintenance of Video Conferencing Facility at various Government Offices
- Providing Third Party Audit Services for TSWAN, SCAN, VC and SDC projects
- LAN & CCTV setup at Ambedkar Open University

Open Data initiative's objective is to put Government data in open and machine-readable format to facilitate better planning of development programmes and to measure the effectiveness of Govt. schemes

The Telangana Open Data portal offers 2645 resources on various subjects and areas taken from government departments and associated organizations. These datasets are available in a machine-readable format and updated monthly to ensure information is current. It is free to be accessed by anyone and is widely utilized by university students, researchers, startups, and companies and demonstrates the growing interest and impact of open data in the region.

From March 1, 2023, to May 23, 2023, recorded over 14,000 dataset downloads and more than 145,000 pageviews

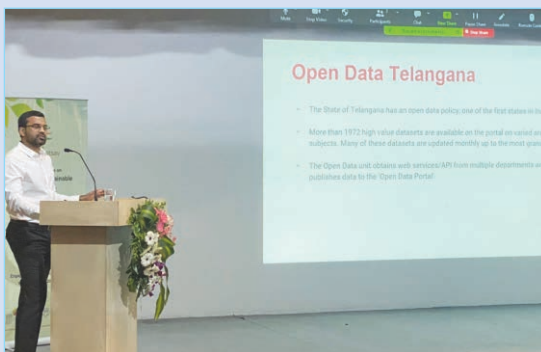
Highlights

- Launch of Telangana Open Data Portal 2.0 with improved features and accessibility.
- Demonstration of Telangana Open Data to NITI Aayog to showcase its benefits and share best practices.
- Collaboration with Open Street Maps and UNWGIC to expand geospatial data offerings and partnerships.
- Collaboration with Open Street Maps to develop a lifeline infrastructure tool and organize a Map Roulette Challenge.
- Recognition from GHMC IT Team for achieving 1st rank in the Digital Governance category under Urban Outcomes Framework ranking.
- The World Economic Forum published a case study acknowledging Telangana Open Data's role in data-driven decision-making and innovation.
- Data mapping initiatives to enhance accuracy and efficiency in mapping processes.
- Collaboration with Telangana AI Mission (T-AIM) for utilizing open data in addressing climate change challenges.
- Engagement at BioAsia 2023 event to align data offerings with pharma start-ups, biotechnology students, and researchers' needs.

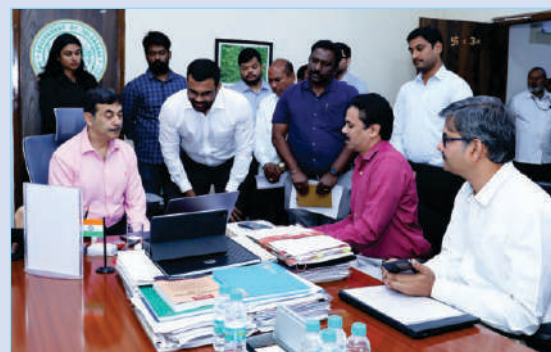
The Telangana Open Data Portal provides access to data from various departments. Here is a list of departments with available data on the portal:

S.No.	Department	Data Sharing Format	Number of available datasets
1	Commissioner and Director of Municipal Administration Telangana (CDMA)	API	4
2	Department of Agriculture and Co-operation (Agri Marketing)	API	4
3	Department of Consumer Affairs, Food & Civil Supplies	API	4
4	Department of Health, Medical & Family Welfare (KCR KIT and diagnostic)	API	4
5	Department of Irrigation and CAD	API	1
6	Department of Labour, Employment Training and Factories (Boilers)	API	4
7	Department of Panchayat Raj and Rural Development	API	5
8	Department of Revenue (Prohibition & Excise)	API	2
9	Department of Revenue (Registration and Stamps)	API	2
10	Department of Transport (Regional Transport Authority)	API	6
11	Department of Women Development and Child Welfare (WDCW)	API	6
12	Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB)	API	4

13	Telangana Industries and Commerce	API	5
14	Telangana School Education	API	1
15	Telangana State Development Planning Society (Weather)	API	4
16	Telangana State Disaster Response & Fire Services	API	6
17	The Drugs Control Administration Department	API	4
18	The Greater Hyderabad Municipal Corporation (GHMC)	API	6
19	The Northern Power Distribution Company of Telangana Limited (TSNPDCL)	API	10
20	The Southern Power Distribution Company of Telangana Limited (TSSPDCL)	API	10
21	Social Welfare	API	4
22	Department of Animal Husbandry and Fisheries	Manual	2
23	Hyderabad Metro Rail Limited (HMRL)	Manual	1
24	Hyderabad Metropolitan Development Authority (TSbPASS)	Manual	1
25	Telangana Ground Water Department (GW)	Manual	3
26	Telangana State Election Commission	Manual	1
27	Telangana State Remote Sensing Applications Centre (TRAC)	Manual	1
28	Telangana State Road Transport Corporation (TSRTC)	Manual	1
29	Youth Advancement, Tourism, and Culture	Manual	5
30	Department of Law	Scraper	3
31	Telangana State Pollution Control Board	Manual	3



National Conference on Education for Sustainable Development 14-15 Dec 2022



Sri Jayesh Ranjan, Principal Secretary, IT&E department, launching the Telangana Open Data Portal 2.0



Arrow Indo - Armenian Summit 2023

WEF, Davos 2023



Minister KTR with MD & Partner Shailendra J Singh and Public Policy Chief Shweta Rajpal Kohli of Sequoia India & South East Asia



Michael Froman, Vice Chairman and President, Strategic Growth for Mastercard met Minister KTR



Service Now CSO Nick Tzitzon with Minister KTR and Jayesh Ranjan, Principal Secretary, IT, E&C Dept.



Executive VP & President of Medtronic Rob ten Hoedt met Minister KTR



Minister KTR at WEF session "Food Action Alliance: Investing in Greater Resilience"



Jeff Maggioncalda, CEO, Coursera & team met Minister KTR

UK 2023 & HYDERABAD MOBILITY WEEK



Minister KTR spoke at the Ideas for India conference, held as part of India Week in London



Minister KTR addressed the investment roundtable in London hosted by Vikram K. Doraiswami, High Commissioner of India to the UK



Minister KTR unveiled one-of-its-kind Telangana Mobility Valley (TMV) at the Mobility Next Hyderabad Summit 2023.



Minister KTR inaugurated Hyderabad E-Motor Show 2023, held as part of annual Hyderabad E-Mobility Week



Minister KTR at the Hyderabad E-Motor Show



Mahindra & Mahindra signed an MoU with Telangana Government to establish electric 3 and 4-wheelers manufacturing facility

USA 2023



The leadership team of Omnicom Group met Minister KTR



Top executive team of 3M and ECLAT Health Solutions met Minister KTR



Executive leadership team of Aaron Capital met with Minister KTR



A delegation from storable met Minister KTR



Minister KTR met NRI CEOs in Washington DC

EVENTS & MEETINGS



India based multilingual social media platform Koo entered into an MoU with Govt. of Telangana to open a Development Center in Hyderabad in the presence of IT Minister KTR



In the presence of IT Minister KTR, Telangana Govt. and CapitalLand India Trust (CLINT) have signed an MoU to setup a 36 MW capacity data centre in Hyderabad with Rs.1200 Cr investment.



Minister KTR at "Diplomatic Outreach Programme" held at T-Hub. Ambassadors, Diplomats, Consul Generals, Honourary Consul Generals, High Commissioners, and Trade Commissioners from about 50 Countries participated.



IT Minister KTR inaugurated the Johnson Controls OpenBlue Innovation Center in Hyderabad

EVENTS & MEETINGS



Inauguration of Citco's permanent office for the Center of Excellence team in Hyderabad



Inauguration of the Centre for Innovation, Incubation, Research & Entrepreneurship at KITS College, Warangal



IT Minister KTR addressed IT industry leaders at an interactive session organised by HYSEA



Dallas Venture Capital announced India Fund in partnership with Hyderabad T-Hub - KTR addressed the dignitaries at the event



IT Minister KTR presented TiE Global's "CEO of the Year Award" to Shantanu Narayen, Chairman and CEO Adobe at the TiE Global Summit 2022 held in Hyderabad

EVENTS & MEETINGS



Inauguration of Telangana State Police Centre of Excellence for Cyber Safety at Cyberabad Police Commissionerate



The leadership team of Grid Dynamics called on Minister KTR



Ms. Michaela Küchler, the Consul General of Germany in Chennai, called on Minister KTR on her first visit to Hyderabad



Minister KTR inaugurated the TASK centre and facilitation centers of WE Hub T-Hub located in Mahabubnagar IT tower.



A Swedish business delegation led by the Ambassador of Sweden, Jan Thesleff, met with IT Minister KTR

MEETINGS WITH DIPLOMATS



Minister KTR and H.E. Dr. Ali Chegeni,
Ambassador of Islamic Republic of Iran



Minister KTR and H.E. Mr. Baushuan Ger,
Taiwan's Representative to India



Honorary Barry O'Farrell AO, Australian High Commissioner
to India, called on IT Minister KTR



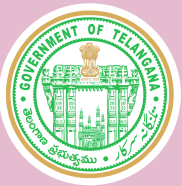
H.E. Mr. Didier Vanderhasselt, Ambassador of
Belgium to India called on IT Minister KTR



US Chargé d'Affaires Ambassador Beth Jones
called on Minister KTR



Minister KTR met with a UK business delegation led by
Rt. Hon. Andy Street, Mayor of West Midlands



Jayesh Ranjan, IAS

Principal Secretary to Government

Information Technology, Electronics &
Communications Department
Government of Telangana

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