



Kerala's Digital & Tech Transformation

From Citizen First Governance to Global Tech Leadership



A story of how Kerala built a citizen-first, innovation-driven, inclusive digital economy.

“Technology to serve citizens, build trust, & create jobs.”

Kerala's legacy is rooted in:

- People-centric development
- Democratic decentralization
- Land reforms
- Deep investment in education and health

Now entering the next phase:

Harnessing knowledge capital to generate high-quality employment, global competitiveness, and sustainable economic growth.

Kerala integrates **human development** with **digital innovation**.

Technology is not a luxury. It is a force multiplier – to democratize opportunity, decentralize growth, and accelerate prosperity.

From Right to Internet → Digital Literacy → Startups → Global IT Exports. ---> Deep Tech Economy

Vision: "Knowledge-powered Digital Society and Digital Life for All"

Kerala IT Policy 2017 - Foundation for Transformation



Focus : Digital Citizenship • Digital Lifestyle • Digital Commerce

India's First Digital State (2016)



Fully e-Governed State (2023)

A Decade of Achievements - Building the Foundations of a Digital Economy

Digital Governance

- **e-Sevanam** : 900 online services under the Right to Service Act.
- **Ente Bhoomi** : Digital survey records of all villages in the state
- **K-SMART** : Providing services of 1200 local bodies
- **e-Health Kerala** : Digitize health records and hospital services
- **Aadhaar Vault & Unified Registry** : 18 Depts, 3.45 cr reference IDs
- **Digi Kerala- Digital Literacy** → Near 100% coverage
- **Samagra** - Smart Classrooms from Class 8th in all schools, AI as a subject



A Decade of Achievements (2016-2025)

Infrastructure and IT Parks

IT Hub Expansion

▪ **Space:** 13 million sq.ft. → 22 million sq.ft.

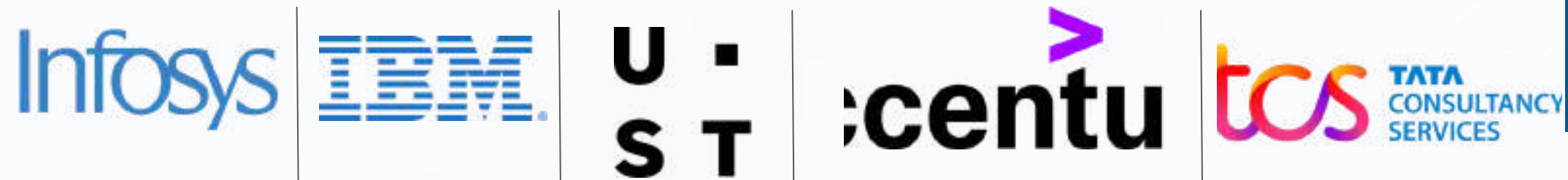
▪ **No of Companies:** 650 → 1,160

▪ **IT exports :** ₹8,500 Cr → ₹26,252 Cr
(200% increase)

▪ **Direct employment :** 80,000 → 1.54 lakh (with thousands of additional indirect jobs)



KFON – Kerala's flagship digital backbone – completed 30,000 km of optic fibre, connected 30,000 offices and 75,000 households, and ensured internet connectivity even in tribal regions.



Immediate Investment ready Infrastructure

135 acres of land readily available for leasing in Technopark

Lulu IT Twin Towers



The tallest IT Twin Towers in south India, this 'LEED' platinum rated pre-certified building feature 30 floors in each tower and offers world-class amenities, including a food court, auditorium, the world's largest robotic parking, and an onsite helipad.

Location : Smart City Kochi

Available space : 2.25 million sq.ft.

Carnival



Plug and play Non-SEZ Grade-A office space

Location : Technopark Phase 1

Available area : 105,000 sq.ft (Plug and play) (Non-SEZ)

SunTec Campus



SEZ office space available for sublease in an exclusive 10 acre campus

Location : Technopark Phase 4

Available area : 120,000 sq.ft. (Warm shell, plug & play)

Chaithanya



A SEZ where innovation thrives in serene backwaters of Alappuzha

Location : Infopark Cherthala

Available space : 16,399 sq.ft.

Indeevaram



Innovation meets heritage in a green campus with seamless connectivity

Location : Infopark Thrissur

Available area : 12,054 sq.ft.



A Decade of Achievements (2016-2025)

Startups and Innovation



From 300 startups in 2016 to 7,800+ registered startups in 2025
(14,000 including those in pipeline)

Freedom Squares are proposed in district-level as innovation hubs

Dubai Infinity Centre extended Kerala startups to global markets.

Grants & mentorship for Women and marginalised entrepreneurs



First Super Lab in the world with MIT partnership – powers global-quality hardware prototyping.



India's largest hardware incubator, nurtured 178 startups and filed 83 patents.

A Decade of Achievements (2016-2025)

Education and Human Capital

- **Digital University Kerala (DUK):** 500+ papers, patents, AI-tech programs
- **ICT Academy:** 1.46 L students | 8k faculty | 10k placements
- AI introduced in school curriculum - first in India
- Knowledge Economy Mission: 20 L digital jobs target



A Decade of Achievements (2016-2025)

Emerging Technologies

- **Digital Science Park (DSP):** India's first digital technology park - academia-industry integration.
- **Graphene Innovation Centre (Graphene Aurora/IICG):** India's first graphene R&D and incubation hub.
- **KSPACE-** Kerala Spacepark creating India's first Defence & Aerospace cluster; 68 companies affiliated , 1400 crores investment
- **Graphene Pilot Plant (Ottappalam) and Maker Hub (Maker Village 2.0):** advancing semiconductor and advanced material R&D.



These achievements reflect Kerala's evolution from an IT-enabled State to a technology-driven economy.

KeralaIT :

The core Strengths



	High HDI Indicators
	Global Diaspora
	Great quality of Life
	Affordable Talent
	Lower operational costs

EDUCATIONAL INFRASTRUCTURE

- 230+ Engineering & Tech Colleges
- 106+ Government Tech Colleges
- 160+ Arts & Sciences
- 46+ Polytechnic

EDUCATIONAL INFRASTRUCTURE

80,000+ Tech Graduates Every Year

GLOBAL KERALA DIASPORA

- 3M+ Highly-skilled NRIs Worldwide
- Rich Domain Expertise in Tech & Finance
- Strong Culture & Return-to-Home Desire00

AFFORDABLE & EDUCATED TALENT

- Globally Ranked for Affordable Talent
- High-Quality Graduates (STEM)
- Cost-competitive Vs Tier 1

UNBEATABLE LIFE QUALITY

- Highest Human Development Index in India
- 94% Literacy rate
- Top Talent Retention Engine

THRIVING TECH ECOSYSTEM

- Major IT Parks
- 2 lakh+ IT Professionals
- 1500+ Tech Companies

Vision 2031 : Strategic Outcomes

- **5 Lakh High Quality Jobs** in IT and Tech Sector
- **120 to 200** Global Capability Centers
- **+30 Million Sq ft** of next gen tech workspace
- Leadership in Emerging Technologies, AI, Semiconductors, AVGC and Deep Tech
- Semiconductor Design & Advanced Electronics Hub
- 20,000 Startup pipeline | **100 Deep Tech Startups** | **10 Unicorns**
- Seamless Scaleup Finance Ecosystem
- Industry ready future tech Talent pool
- Total Digital Transformation of Governance

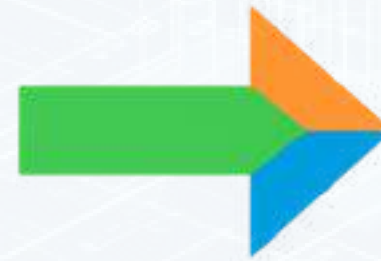
Strategic Imperatives for the Next Phase

- Position Kerala as the first choice destination for Tech Companies
- Ensure ready to available Land and Plug-and-Play Infra
- Streamline regulatory frameworks to facilitate Private Investment
- Catalyze Private Investment in Tech Infrastructure
- Ad-hoc Marketing Mechanisms
- Global Tech Disruption AI is transforming software development, productivity, and cost structures.
- Strengthen Deep Tech IP creation and Research Commercialization
- Enhance Industry-Academia integration
- Agility of Course Curriculum Design
- Optimal usage of available funds for a single plan

Setting Context for the Future

This transformation provides a powerful foundation for Kerala's next phase – Shifting from Digital Governance Excellence to a globally competitive Digital Economy

Infrastructure creation &
service delivery



Value creation, Global Investment
and Innovation-led growth

Strategic Anchors

IT Policy 2025-30

GCC Policy 2025

Vision :

Digital Economy Leadership
Innovation-led Jobs
Global Investments

- Focus is on creation of high quality tech jobs and economic growth
- Implementation through **Focus Areas** and **4 New Missions**

4 Strategic Missions for Emerging Areas

1. **Kerala AI Mission (K-AIM):** Responsible AI in governance, education, health

2. **Emerging Tech Mission:** Blockchain, AR/VR, Robotics, I4.0

KSITM shall be transformed to Kerala Digital Tech Mission by adding AI and Emerging Tech Missions

3. **Kerala Semiconductor Mission:** ₹300 Cr / 3-year roadmap. IITMK shall be subsumed

4. **Future Corporation:** FDI & Partnership driver

AVGC-XR Policy 2027: 50,000 jobs | 250 enterprises



Four Missions to create major transformation in the Tech Sector

FA 1 : Tech Infrastructure Acceleration

**Target: 50 M sq.ft
workspace**

Expansion of Government IT/Tech Park Space



**Technopark Ph I-III & Technocity
IV (20 M sq.ft Masterplan)
IT Corridor (Ph VI)
Space Park (GCC Park)**



**Phase III (AI enabled Tech City
through land pooling)
Phase IV (Traco Land purchase)
Phase V (Koratty)**



**New IT Tower & Co-Developers:
Good Earth, Calinova, Hi-Lite
Phase II (IT Corridor)**

**Development Corridors (GCC
Parks)
Kannur and Kollam IT Parks &
WNH**

Private IT/Tech Park Promotion Scheme

Quick facilitation of Land Ceiling Exemptions; Green Channel Land conversion Permissions;
Incentives for Common Infrastructure and Incentives available for Govt IT Parks
Increase of FAR to 7 to facilitate vertical growth

Upcoming projects



i by Infopark

A premium coworking space designed for accessibility, connectivity and inclusivity.

Location : Ernakulam South Metro Station Building

Built-up area : 48,000 sq.ft.



World Trade Centre Tower - 3

A 16-storey tower (Non SEZ) by Brigade Group for IT/ITES companies

Location : Infopark Kochi Phase 1

Proposed built-up area : 251,000 sq.ft.



Caspian Tower B

A 11-storey tower (Non SEZ) by Caspian Techparks beside its premium "Inspire" Tower A

Location : Infopark Kochi Phase 2

Proposed built-up area : 77,000 sq.ft.



UST (own campus)

A state-of-the-art brand new campus by UST to widen footprint in Kochi

Location : Infopark Kochi Phase 2

Proposed built-up area : 470,000 sq.ft.



Geojit Tower

A landmark IT/ITES facility by Geojit Financial Services Ltd for digital innovation

Location : Infopark Kochi Phase 2

Proposed built-up area : 360,000 sq.ft.



Emerging Technology Hub

An innovation hub to support deep tech start-ups

Location : Technopark Phase 4

Proposed built-up area : 500,000 sq.ft.



Quad Project

An integrated township offering a live-work-play campus

Location : Technopark Phase 4

Proposed built-up area : 4 million sq.ft.



Digital Science Park

3rd generation science park for R&D in digital sciences

Location : Technopark Phase 4

Proposed built-up area : 150,000 sq.ft.



Space Park

Space technology industrial park to foster innovation and manufacturing in aerospace technologies.

Location : Technopark Phase 4

Proposed built up area : 200,000 sq.ft.



Taurus Downtown

Mixed use office, retail, residential and hotel development -

- Embassy Taurus Techzone- 2 million square feet of SEZ workspaces
- Taurus Zentrum - 700,000 sq.ft of Retail space
- Taurus Yosemite - 485,000 sq.ft. of Non-SEZ office space
- Asset Taurus Identity - Residential project with 298 units

Location : Technopark Phase 3, Trivandrum

FA 2: GCC Strategy

- **GCC Policy 2025: 120 centres | 2 L jobs**
- Turnkey onboarding, single-window clearance : GCC Boilerplate
- GCC Parks in IT Parks, IT Corridor and Vizhinjam Growth Corridor
- Sectoral Focus and Collaboration with Universities and Startups
- Global Capability Conclave - annual flagship
- The Future Corporation (TFC) - ₹25 Cr setup, ₹200 Cr venture fund



**Download GCC
Playbook**

**Kerala = “Human Capital
State of India.”**



FA 3 : Startups & Entrepreneurship

**Goal: 20,000 startups & 5 L jobs
by 2030**

Flagships:

Freedom Squares, Fab Labs and Innovation Labs for Deep rooted Startup culture and to create a strong startup pipeline

Initiatives for Scaleup of Startups

- **World class Innovation Hubs**

Emerging Tech Hub (Tvm) | Kochi Digital hub | Maker Village 2.0 | District Startup Hubs

- **Fund-of-Funds Expansion** with Feeder Fund of ₹1000 Cr

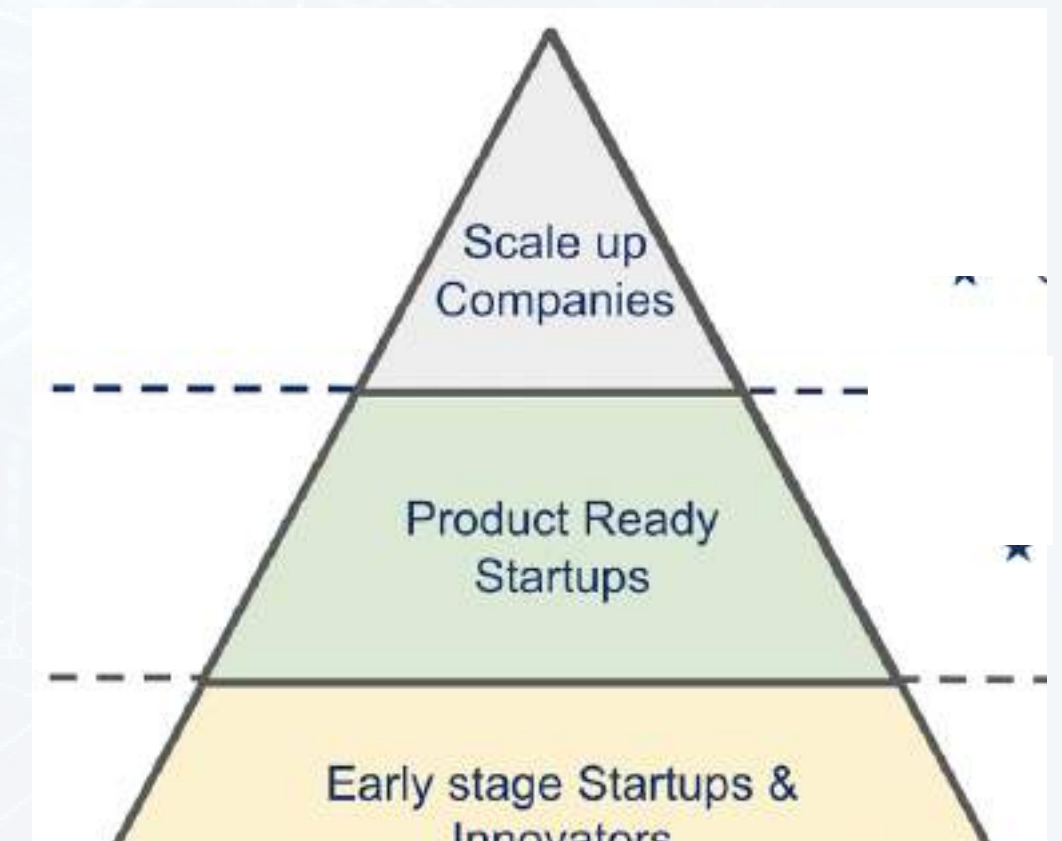
coordinated by The Future Corporation

- **Domain Specific Accelerators**

- **Social Enterprise & Creative Incubators**

- **New Innings** to bring the senior professionals into the realm of entrepreneurship

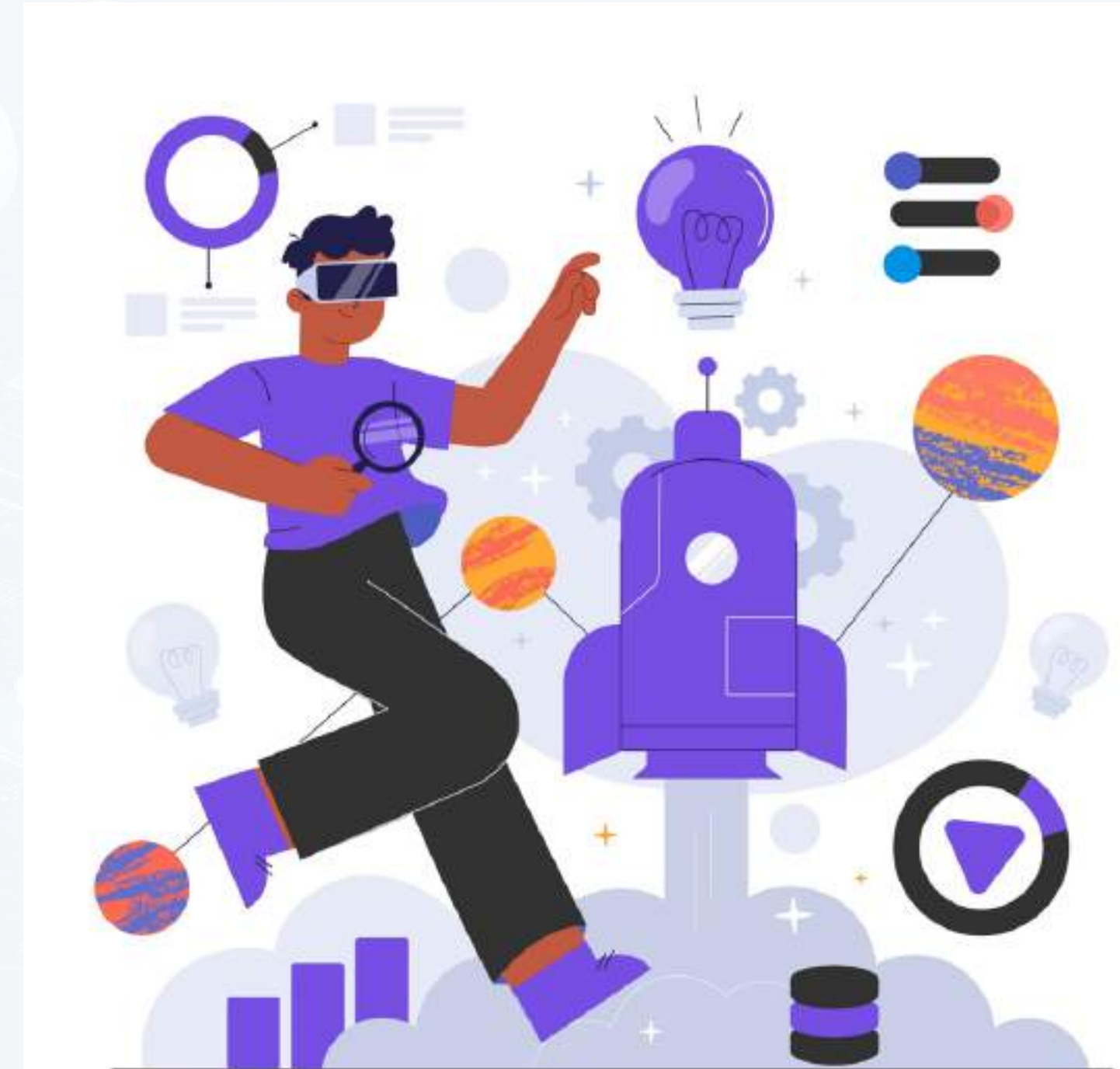
- **Global Connect:** Dubai | London | US/EU accelerators



Kerala's model is now a **startup-for-all** movement – rural, inclusive, and globally connected.

FA 4: Investment Promotion in Tech Sector : TFC

- Promotes investments in Electronics, IT and Future technologies
- Raise public and private funds for investment into the Startups, Tech Companies and Infra
- Attract ₹10,000 Cr in inward investments over the next 5 years.
- Create 500,000 new high-value jobs in IT and allied high-tech sectors.
- Create 10 companies with revenue more than \$100 million (900 Crores)



FA 5 : Readiness for Future Technologies

Building Kerala's AI Ecosystem

Establishing the foundational ecosystem for K-AIM through strategic governance, infrastructure, and innovation initiatives.



Governance Setup

Form **K-AIM Structure** within KSITM and setting up of Kerala AI Mission HQ.



Infrastructure Launch

Roll out State **AI Compute Portal** (SAICOMP), launch **State Data Exchange (S-DEx)**, and begin **AI Innovation Hubs** setup.



Policy & Ethics

Implement Responsible AI Policy and establish State AI Ethics Council with Chief AI Officer.



Quick-Win Projects

Deploy Malayalam chatbots for citizen services, AI traffic management pilots, and AI-driven document processing.



Talent & Awareness

Initiate **Kerala AI Academy**, **AI in Schools and Colleges** and launch statewide **AI Literacy Campaign** to build capabilities.

Emerging Technologies Mission : Strategic Pillars

Foundations powering innovation, talent, and impact

Infrastructure

1

Building a low-carbon digital backbone with data commons, green data centers, and secure connectivity to power sustainable tech.

2

Talent Development

Empowering workforce through micro-credentials, systems engineering, accessibility-first design, and apprenticeships.

6

Policies and Responsible Use

Embedding privacy-by-design, cybersecurity standards, and environmental guardrails.

3

Startups Promotion & Investment

Government as market-maker nurturing fabless ecosystem, diaspora capital, and export-ready startups.

5

Adoption in Governance & Society

Government as first buyer, local self-government pilots, inclusive UX, and advancing digital literacy for societal impact.

4

Research & Thematic Missions

Targeted R&D in cybersecurity, robotics, digital health, marine tech, quantum, blockchain and web3 technologies.

2D Materials and Graphene (Emerging materials)



R&D to Commercialisation

Blockchain Technologies



Capacity Building to Products



Institutional Partners

Neuromorphic Systems



Emerging chip develop activities

IoT Sensors

CENTRE OF EXCELLENCE



Intelligent IoT Sensors

THINK GLOBALLY. MAKE LOCALLY

Product development in hardware

Hardware Innovations through Startups



Product development in hardware

Semicon Mission : from Design to IP Creation

Semicon Park Initiative, Technopark - Trivandrum

- Allocated 10 acres for Design and Development
- Focus on Design and Manufacturing
- IP development

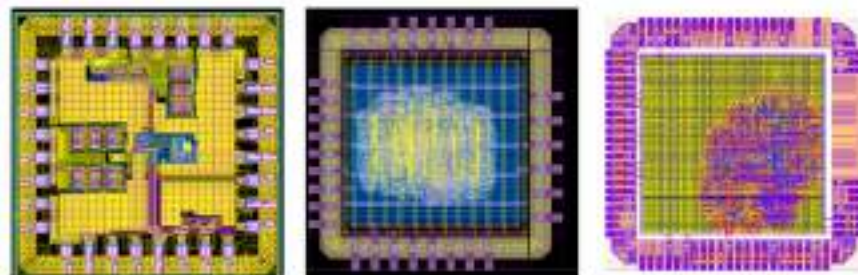


**Ecosystem
Infrastructure**

Foundry Partnerships



Capabilities: Several chips tapped out



180nm Single-Input Multiple-Output DC-DC Regulator
SOT Memory/Store digital implementation
Systemic Array implementation
SCL 180nm Tapeout through C2S Programme
SYNOPSIS-GF 180nm Tapeout



Talent Development



Establish Kerala
Competence Centre for
Semiconductors

**Launching in Feb
2026!**



Verticals	Industry Partners
EDA	SYNOPTIS®
Ecosystem	ChipIN, Government of Kerala, Ministry of Electronics and Information Technology, Chips to Startup Programme
Analog	MARVELL®
Power	IVP SEMI
Neuromorphic	innatera
Verification	axiomise®

- Design-linked incentives with 30-40% reimbursement for R&D expenses
- Capital expenditure subsidy up to 30% to reduce setup costs
- Tax exemptions including 7-10 years of SGST, stamp duty, and electricity duty relief
- Employment bonuses promoting local hires and workforce diversity
- Shared infrastructure and prototyping support for startups and MSMEs

Investment & Incentives

VLSI Design - 1 year MSc by Research

- To be launched by Digital University Kerala
- Focus on hands-on industry focused education and IP development
- Work closely with industry for IP and system development
- Tape-out chips



Research & Innovation

FA 6 Digital Infrastructure

- KFON Expansion: 30k institutions + 20 L families
- Kerala Cloud & Data Exchange Grid
- Green Data Centres & SOC 2.0
- GPU Cluster (₹10 Cr) for AI workloads
- 5G Infrastructure Policy & shared tower model



A robust, secure, scalable digital foundation.

IT Action Plan

FA 7 : Skilling for Digital Future

To create India's largest
Future-Skills Hub by 2030

Curriculum for future

- AI/ML, LLMs, AgenticAI
- Quantum Computing
- IoT, Robotics, VLSI
- Automation
- Blockchain
- Cyber Security
- Cloud Computing
- Social Innovation

Skilling & Innovation Centres

- Centres of Excellence (**CoE**)
- ICT Academy of Kerala
Centres across IT Parks
- District Skill Centres
- Skills labs in Higher
Educational Institutions
- Industry partnered programs

Infrastructure & Systems

- **Ignite** - Internship Platform
- **SDPK** - Skilling platform



Investments to drive talent and innovation

- 250Cr - DUK Phase II
- Kerala Digital Fellowships



FA 8 : TRICK Framework for Industry–Academia Convergence

Translational Research & Incubation Centres - Kerala

- TRI Centres in Universities and HEIs → Productization of research
- CoEs and Deep Tech Incubation Centers
- Tech Parks and GCC Parks in Future
- Collaboration: DUK | Maker Village | C-DIT | ICFOSS
- Open-source & community innovation promotion
- Research focus: AI-Health | AR/VR-Edu | Data Gov

A program to promote research and innovation in the intersection of traditional sectors and emerging technologies with Industry collaboration to make Research Institutions the epicenters of Tech Industry Growth



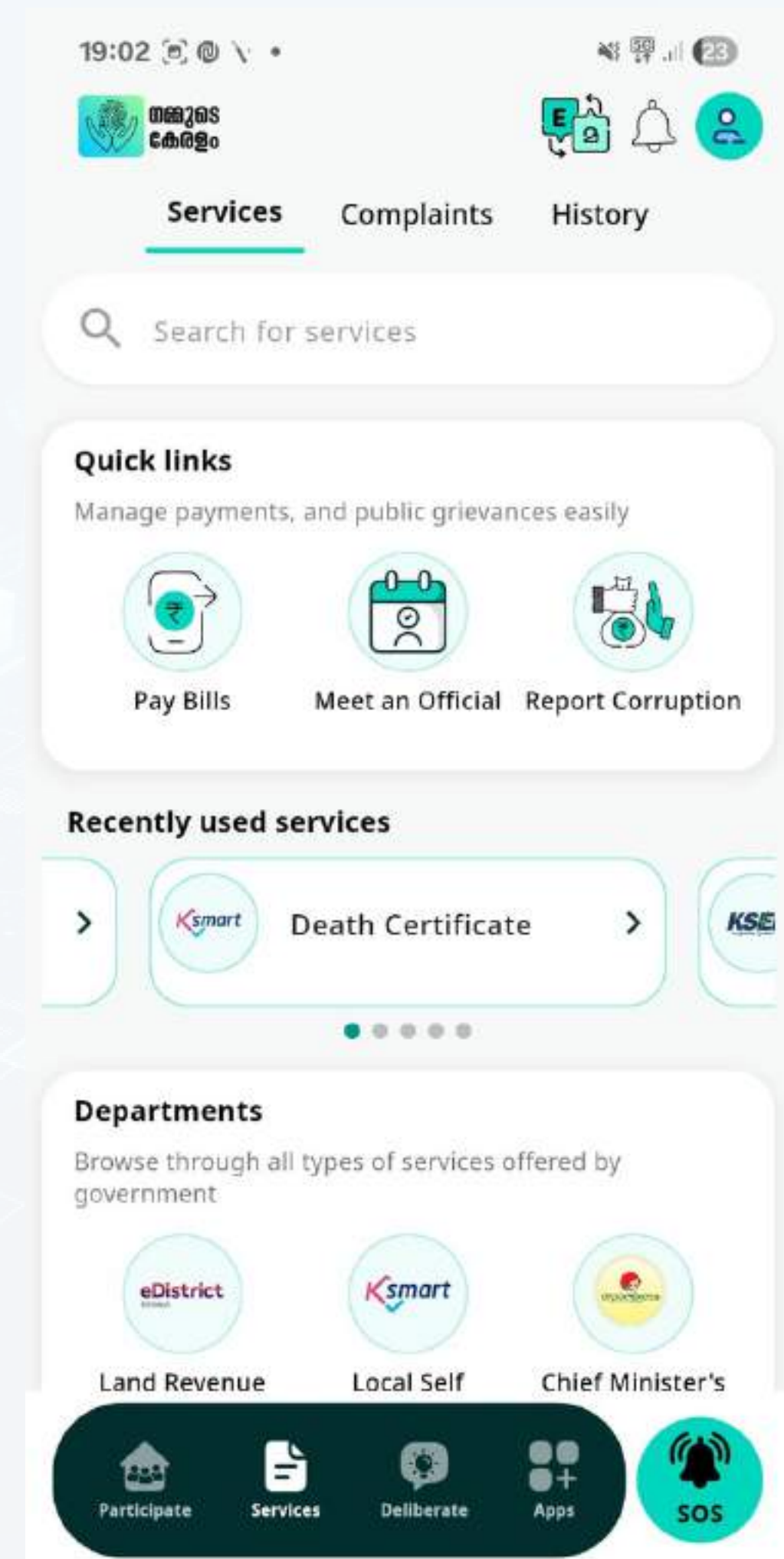
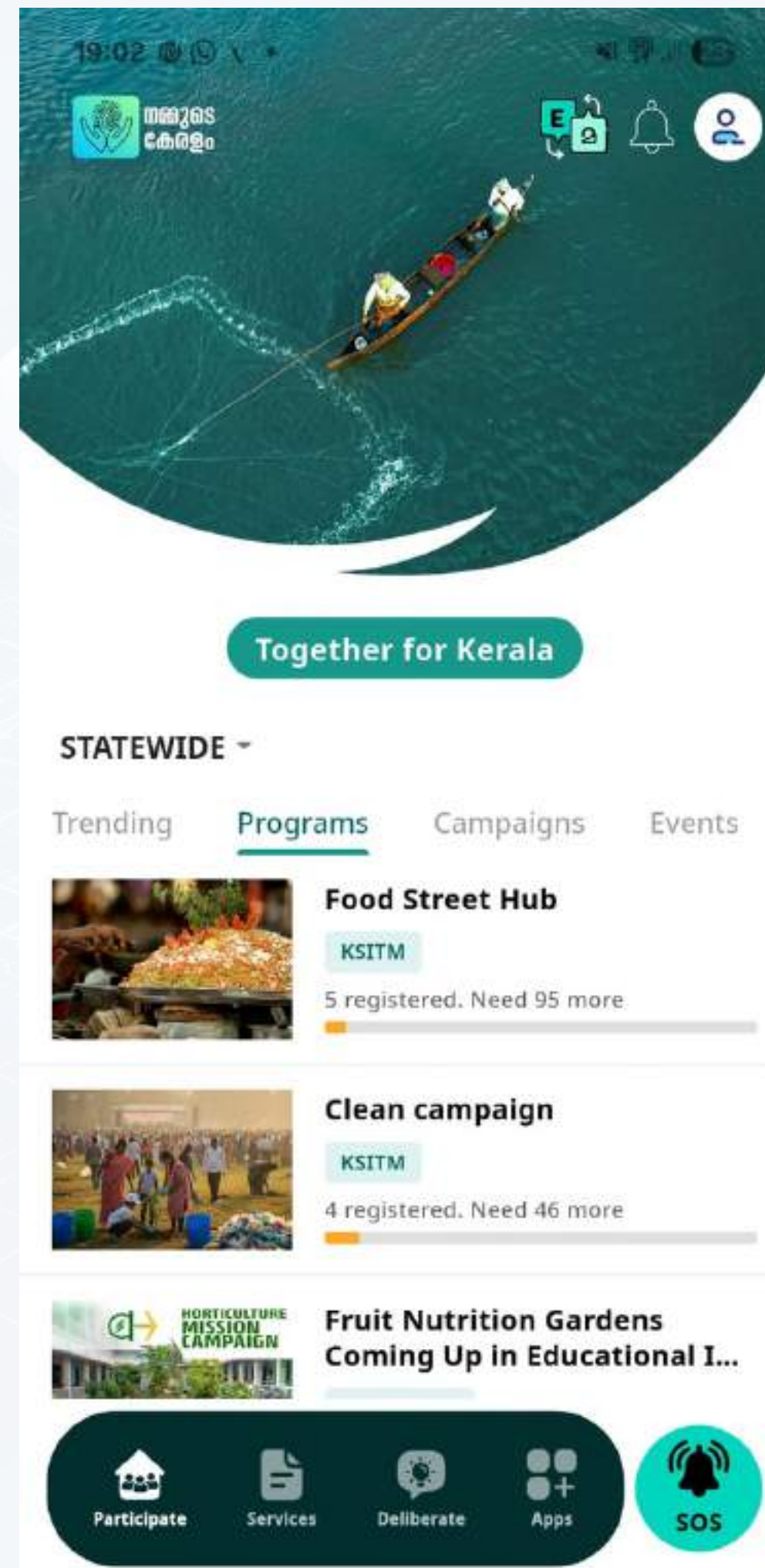
IT Action Plan

FA 9: Digital Government

- **Nammude Keralam:** Digital Government Standard for best possible citizen experience and effective governance

- Sevana Keralam
- Sadhbharana Keralam
- Bhaavi Keralam
- Janakeralam

Governance that reaches citizens before they reach offices.



Kerala's Tech: Decade Ahead

Kerala stands at a defining moment

2016-2025:

- Built foundations of trust, inclusion, innovation
- Broke long standing misplaced narratives

2025-2030:

- Transform digital strength into economic power and global recognition

**“Inspire from strong foundations.
Innovate for exponential outcomes.
Impact every citizen.”**





Thank You



Sambasiva, Special Secretary (E & IT)
Govt. of Kerala