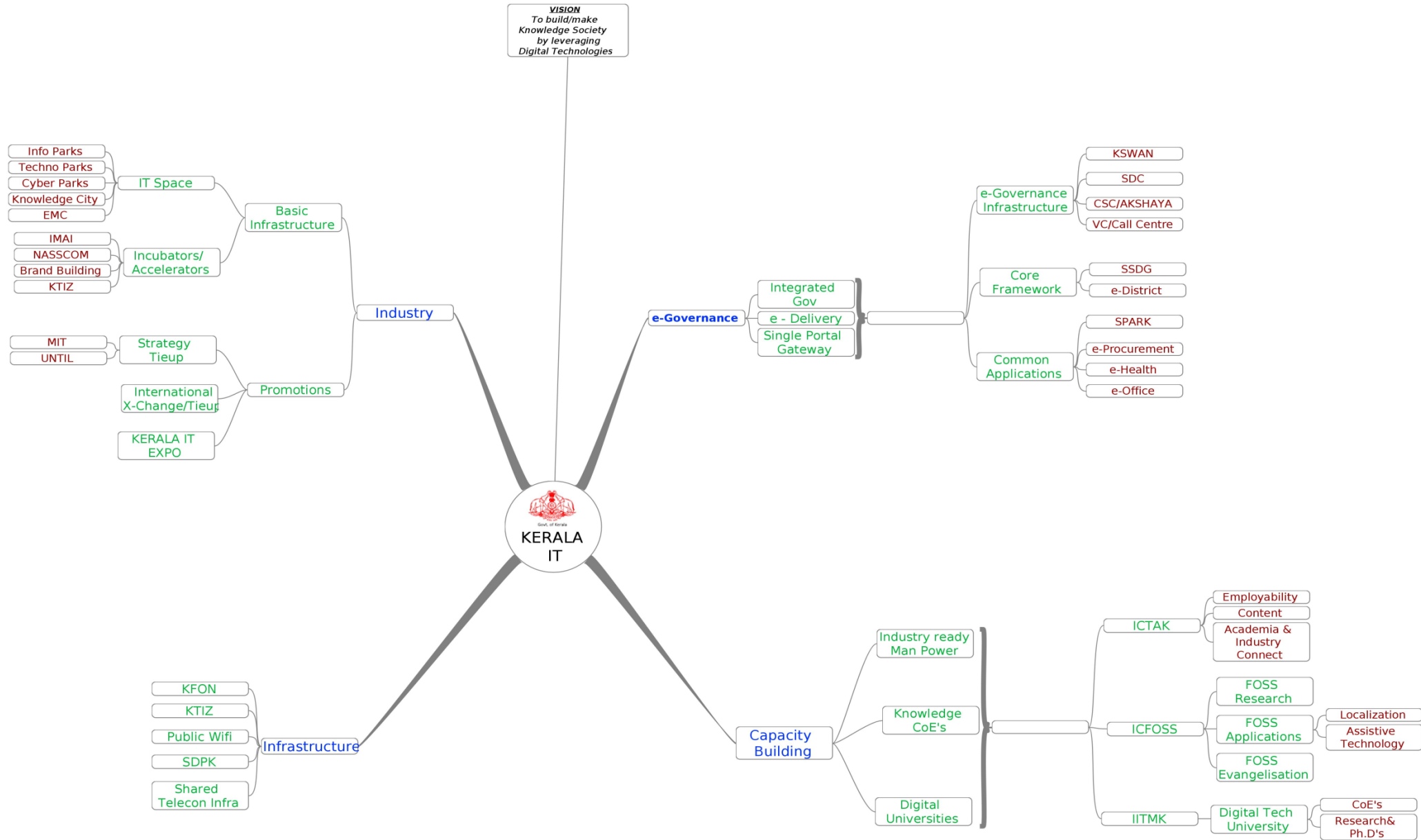


Kerala IT Landscape

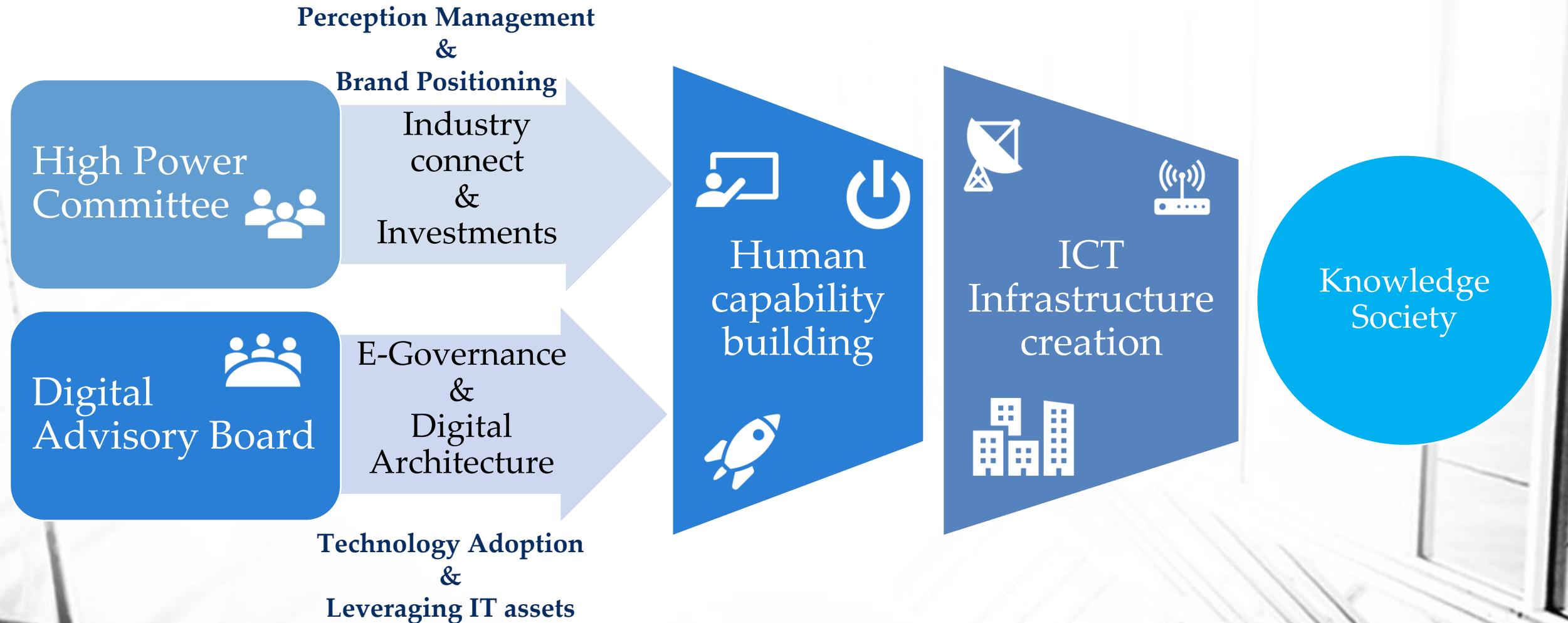
Department of Electronics
and Information
technology
Government of Kerala

21st November 2017

Kerala IT Landscape



Strategic Alignment



IT parks – Status

- Total Land ~ 1500 acres
- Total IT built up space- 1.6 Cr sq.ft
- 85000 direct employment in 25 years

(Technopark- 760 A, Infopark- 365 A, Cyberpark- 48 A, Smart City – 250 A)
 (Technopark- 90 L, Infopark- 60 L, Cyberpark- 8 L, Smart City- 6 L)
 (Technopark- 55 K, Infopark- 30 K, Cyberpark- 100, Smart City- 500)

2017

Development status

- Export Revenue FY 2016-17 - 10,000 Cr (-16% YoY)
- Companies - 600 (+50 YoY)
- Employment - 85000 (+8K YoY)
- Total IT Buildings (Govt / Co-Developer) -33
 (Technopark 21; Infopark 11; Cyberpark 2 ; SCK 1)

2018 -
21

Developments Planned

Target - 1 Cr sq.ft additional IT built up in 5 years

- FY 2016-17 :** 15 lakh sq.ft (Technopark –TCS – 3.7 L + Govt 0.3 L ;
Infopark- Brigade- 4L, Govt - 4L, CyberPark -3L)
- FY 2017-18 :** 30 lakh sq.ft (Technopark-Infosys-7.9L ;
Infopark- Brigade -4L, Lulu-14.6L, TAsia-3L)
- FY 2018-19 :** 5 lakh sq.ft (Technocity- Suntec-3.5L, Govt - 2L)
- FY 2019-20 :** 15 lakh sq.ft (Technopark- Taurus-9L, Carnival-3L ; Infopark- IBS-3L)
- FY 2020-21 :** 16 lakh sq.ft (Technopark – Govt 5L; Infopark- Govt 5L TBC 1 L ;
Cyberpark – Govt building- 5L).

Smart City Kochi (SCK)

Smart City Kochi by 2021 will develop 66 lakh sq.ft out of the 88 lac planned in Frame Work Agreement.
 Total IT built up then cross 1.8 Cr sq.ft in 2016-21 ie we can **double** our existing IT built up space.



Co-developers planned 2021 : 40 lakh sq.ft (Technopark – Taurus -10 L, Infopark- UST-6L, Muthoot -8L, Claysys-2 L, Tata Reality-6 L, Caspian-3 L, Tomar-3 L, Pi Data -2 L)

Total planned - 1.21 Cr sq.ft built up

IT parks – Way forward

Key Initiatives

- Synchronisation of all the three IT Govt Parks and promote 'Kerala IT' as a single entity. HPIC and DAC are created for the first time to Guide and CM IT fellows to support the Govt.
- Knowledge City initiated at Trivandrum to focus on emerging technologies like - Fintech, cyber security, Analytics etc. KPMG is identified as accrediting agency.
- Cyberpark identified to be promoted as Mobility hub of the state and partnered with IAMAI to start operations.
- Infopark & Innovation zone at Kochi will support IOT developments for Smart city initiatives.
- More focus on IT hub development to meet the changing industry scenario. 4 Hubs with Airport proximity viz, Trivandrum, Kochi, Calicut & Kannur. Kannur airport + Calicut will be new focus - Strategic alliances with international players like Hsinchu parks Taiwan for Infrastructure creation & start up acceleration. Need Govt support for new developments.
- Infopark Koratty with proximity to Kochi Intl airport, has large scope and more Govt land may be granted for IT development. (Vaiga threads property)

Key Challenges

- MoEF clearance awaited for 7 projects by Co-Developers (critical to target achievement). Govt support needed, incase it exceeds beyond Dec 2017.
- Wet land / Paddy land conversion issue need immediate resolution, as big investors like Taurus is waiting to start as soon as resolved.
- LAR cases are mounting at Technopark and need Govt support to pay off over Rs 137 crores. Infopark has managed the same using Land leased premium.
- KMBR rule relaxation for car parking to match with Shops & Commercial establishments is an issue which Co-Developers are waiting, which needs immediate attention.

Startup Mission- Curating a Startup Eco System

Technopark-TBI
A DST funded
Incubator

A vibrant Eco system for Startups
757 Product Startups; 20 Incubators, 196 IEDC
Around 100,000 sqft for incubation
End to End Support for Startup Development
Policy Support for incubation, funding,
market connect;

One of the Best Global Startup Ecosystem
Key employment provider for Technical
manpower;
Driver for Industry Growth
Global Accelerators; 1 Million sqft of
Incubation Space;
Innovation Hubs in emerging themes of
growth;
Inclusion of rural and social innovators

2014

- ### Key Initiatives Taken
- Creation of Startup Mission and incubation facility at Trivandrum, Kochi and Kozhikode
 - Startup Policy 2014 & 2017
 - Focus on a Bottom Up Approach- Creation of a strong Pipeline of Startups
 - Creating Knowledge Infrastructure -FAB labs and Future labs
 - Promotion of entrepreneurship in colleges
 - Incubators in Research Institutions

2017

- ### Key Initiatives Planned
- Augmenting own Incubation space to 500,000 sqft and developing another 500,000 sqft through participation of leading national and global accelerators
 - Making funds available to startup in excess of Rs 1000 Crore
 - Global Launch pads for startups to enhance international footprints
 - Special emphasis on Startups promoted by Professional and native innovators
 - Creating Incubators in Engg Colleges to give hands on training and knowledge enhancement

2022

- ### Key Challenges
- Lack of talent
 - Introduction of industry relevant courses in Universities
 - Financial support for high risk ventures

KSITM- e-Enabling Governance

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IITMK – Leading the Knowledge Revolution

Research and education centre of CUSAT offering courses and doing research in Cutting edge areas of Computer Science; Active in Development Projects in the State; Partner in E-Governance initiatives A larger campus is getting ready

Key Driver of Knowledge Initiatives in emerging areas of Technology Anchor Institution for Knowledge City International Collaboration and transformation to a Digital University of National Importance Fully operational Residential campus

A Post Graduate Institution
Limited Number of students
1 Acre campus in Technopark

2014

Key Initiatives Taken

- Affiliation with CUSAT to offer specialised courses in cyber security, Data Analytics, Machine Learning and Geospatial Analytics
- Working with various Government departments and Agencies to take up innovative and impactful projects
- Construction of a 10 Acre campus in Technocity- 200,000 sqft
- Doubling Student Strength

2017

Key Initiatives Planned

- University Status to IITMK and gaining status of Institution of National Importance
- Completion of 10 Acre Residential campus
- At least 6 times enhancement of student strength
- Training Provider for State in Disruptive Technologies
- Collaboration with leading International Universities
- Setting up Knowledge city in Trivandrum with support of Industry, startups and key knowledge partners

2022

Key Challenges

- Academic Autonomy- State University Status
- Non-Plan Support for Augmenting Human Resources

ICFOSS – The Alternative

A research institute primarily focussing on evangelising FOSS

Research and Training
Partner in E-Governance initiatives
Project delivery
Corporate collaboration

An international center for FOSS & Open technologies
Global collaboration and connection

2011

Key Initiatives Taken

- Trainings and Workshops on FOSS
- International Seminars and lectures

2017

Key Initiatives Planned

- Focus on Assistive Technologies
- Local sounding board for FOSS alternatives and connect to international community
- Local language computing
- Open hardware including IoT enablement
- Training on FOSS
- Assistance to FOSS initiatives
- FOSS based research and development

2022

Key Challenges

- Nodal agency for FOSS enablement for Govt
- Campus creation
- Team building

ICT Academy of Kerala (ICTAK)

Incorporated as Not-for-Profit Company
Team on boarded and Operations Started
In 2014 jun

ASAP , KASE , KTU relationships
Various Events for teachers and students

Bridging the Demand supply gap
- Dynamic interventions
Skilling for Future technologies

2013

Key Initiatives Taken

- 72 Member Institutions
- 5700+ Teachers Trained
- 22000+ Students Trained
- +IKM,KSITM relationships

2017

Key Initiatives Planned

- Single Point Organisation for all ICT Training needs in Higher education Segment
- ICT capacity building Projects in Major Govt. Depts. and Corporates

2022

Key Challenges

- Nodal agency for skill delivery in ICT space
- Acceptance of the PPP model

Our Shareholders



Hardware Mission

Kerala State Electronics
Development Corporation
(KELTRON).

Looses manufacturing edge after 1980's

1970's

Key Initiatives Taken

- 1st ESDM policy for the state
- Detailed Report on 'Hardware Ecosystem Kerala' and way forward for mission with budget requirements for FY18-19
- IESA International Desk set up
- Participation in Titronics and India Taiwan Summit 2017
- Intel Inside Project (Laptop and Server Assembly) MoU signed
- EV projects

1st sector specific policy for ESDM
Approach to leverage consumption to drive industry
A nodal agency to coordinate the activities formed "hardware Mission

2017

Key Initiatives Planned

- Hardware manufacturing unit – Keltron JV
- Investments through IESA desk
- Design and testing facility
- Conversion of KAL line to a EV line
- Relocation support to manufacturing

Hub for power electronics
Revival of Keltron in IT hardware
IoT CoE

2022

Key Challenges

- Demand aggregation
- PPP model
- Operational support
- Pilot projects
- Investment channelising

Policy Impetus needed

- Digital University (IIITMK)
- International Tieups and collaboration
- Change in delivery

- Strategic alliances with international players
- Infrastructure creation
- Startup Acceleration
- Demand Aggregation
- Brand Repositioning

Capability

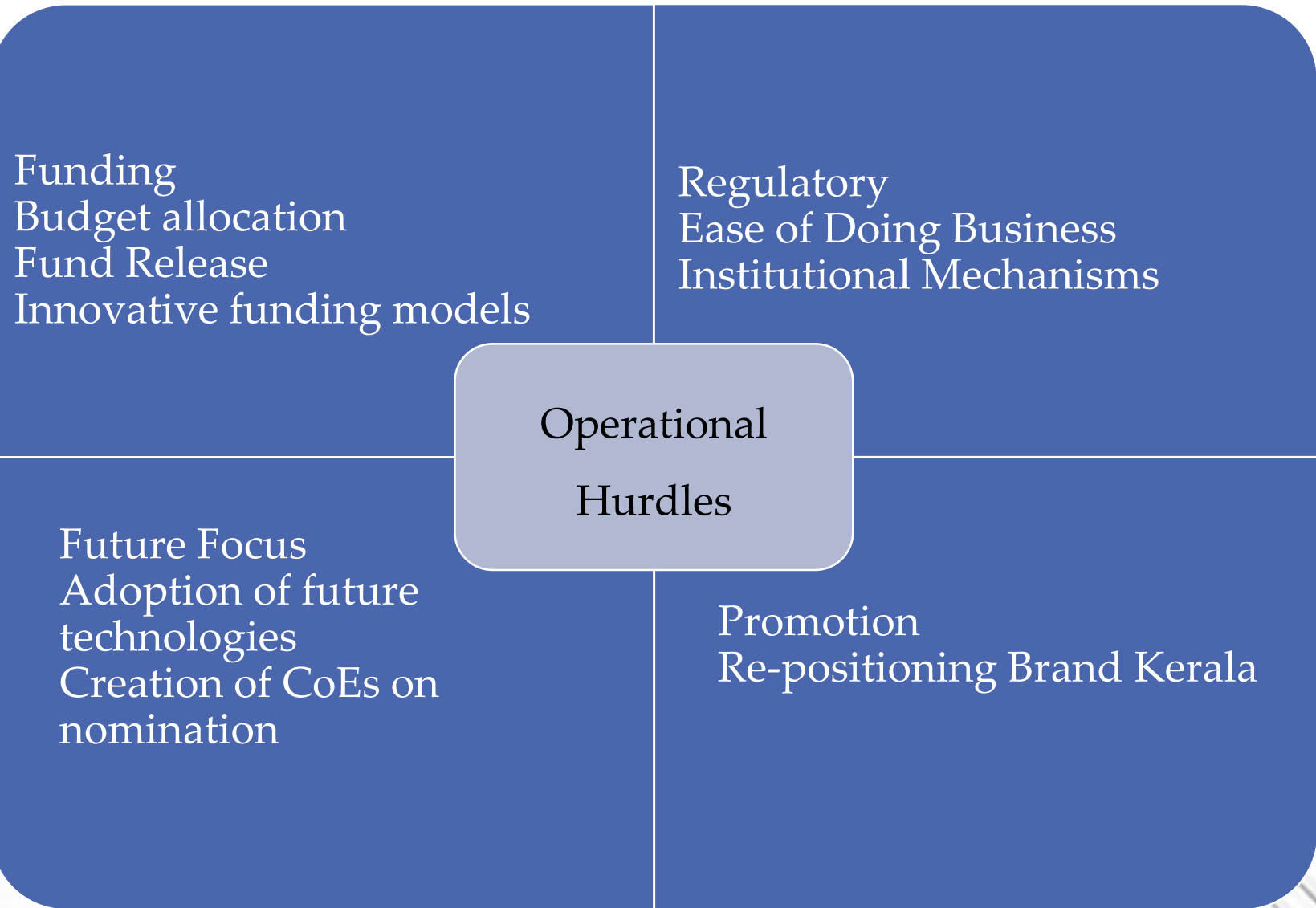
Industry

E-Gov

ICT Infra

- Digital Government
- Data sharing
- Interoperability of systems
- Re aligning of agencies (KELTON K)
- Challenges in alignment with central p
- (Aadhaar, DBT etc)

- Shared telecom Towers
- PPP Models for development



Funding
Budget allocation
Fund Release
Innovative funding models

Regulatory
Ease of Doing Business
Institutional Mechanisms

Operational
Hurdles

Future Focus
Adoption of future
technologies
Creation of CoEs on
nomination

Promotion
Re-positioning Brand Kerala

Knowledge Society :

Knowledge generation

- CoEs,
- Collaborative research

Channels for dissemination

- Learning content updation
- Learning delivery

Avenues for Consumption

- Early market
- Cocreation /pilots

Opportunities for Commercialization

- International connects
- State as a brand

Institution

Industry

Individual

Intellectual property

Innovative
Products

Commercialisation

Thank you

