

Disclaimer

This presentation is issued by L&T Technology Services Limited (the "Company") for general information purposes only, without regard to specific objectives, suitability, financial situations and needs of any particular person.

This presentation may include statements which may constitute forward-looking statements. All statements that address expectations or projections about the future, including, but not limited to, statements about the strategy for growth, business development, market position, expenditures, and financial results, are forward looking statements. Forward looking statements are based on certain assumptions and expectations of future events. This presentation should not be relied upon as a recommendation or forecast by the Company. Please note that the past performance of the Company is not, and should not be considered as, indicative of future results. The Company cannot guarantee that these assumptions and expectations are accurate or will be realised. The actual results, performance or achievements, could thus differ materially from those projected in any such forward-looking statements. The Company does not undertake to revise any forward-looking statement that may be made from time to time by or on behalf of the Company. Given these risks, uncertainties and other factors, viewers of this presentation are cautioned not to place undue reliance on these forward looking statements.

This presentation may not be copied or disseminated, in whole or in part, and in any manner or for any purpose. No person is authorized to give any information or to make any representation not contained in or inconsistent with this presentation and if given or made, such information or representation must not be relied upon as having been authorized by any person. Failure to comply with this restriction may constitute a violation of applicable laws.

The information contained in these materials has not been independently verified. None of the Company, its Directors, Promoter or affiliates, nor any of its or their respective employees, advisers or representatives or any other person accepts any responsibility or liability whatsoever, whether arising in tort, contract or otherwise, for any errors, omissions or inaccuracies in such information or opinions or for any loss, cost or damage suffered or incurred howsoever arising, directly or indirectly, from any use of this document or its contents or otherwise in connection with this document, and makes no representation or warranty, express or implied, for the contents of this document including its accuracy, fairness, completeness or verification or for any other statement made or purported to be made by any of them, or on behalf of them, and nothing in this presentation shall be relied upon as a promise or representation in this respect, whether as to the past or the future. The information and opinions contained in this presentation are current, and if not stated otherwise, as of the date of this presentation. The Company undertakes no obligation to update or revise any information or the opinions expressed in this presentation as a result of new information, future events or otherwise. Any opinions or information expressed in this presentation are subject to change without notice.

Hi-Tech Snapshot

SEMICONDUCTOR



CONSUMER ELECTRONICS



TELECOMMUNICATIONS



SOFTWARE & INTERNET



MEDIA & ENTERTAINMENT



Semiconductor and sensors for IoT

market: \$53B by

2020

20 Billion connected devices to be in use by 2020 Mobile Industry To Invest \$500B in 5G Capex By 2020

Software Spending expected to reach \$94B by 2020.

New Media to account for \$450B by 2021

10+ Years of Experience

8+ Strategic Engagements

5+ Offshore
Delivery Centers

3500+
Skilled Resources

3000 + New Product Design Contribution

The Hi-Tech Market: What's cooking?

SEMICONDUCTORS

DEVICES

TELECOM

SOFTWARE

The Chip market has expanded from OEMs to all new-age tech giants!

Biggest growth in devices that require minimal bandwidth & remote connectivity

Low Cost, Open
Network
Communication
Platforms are the
future

'Software on product' is the area to watch out for

Our Journey – Hi-Tech

Upto 2012 Ecosystem Partnership • Engagement with Tier-1 **OEMs** • Partnership with Tier-1 Chip Makers, ODMs 2G, VLSI,

Service

Delivery

Symbian

Capacity / Competency Expansion

- ODCs and Offshore Labs
- Automation Frameworks
- Carrier Compliance and Field Testing

3G, 4G LTE, Android, IoT 2012-2017

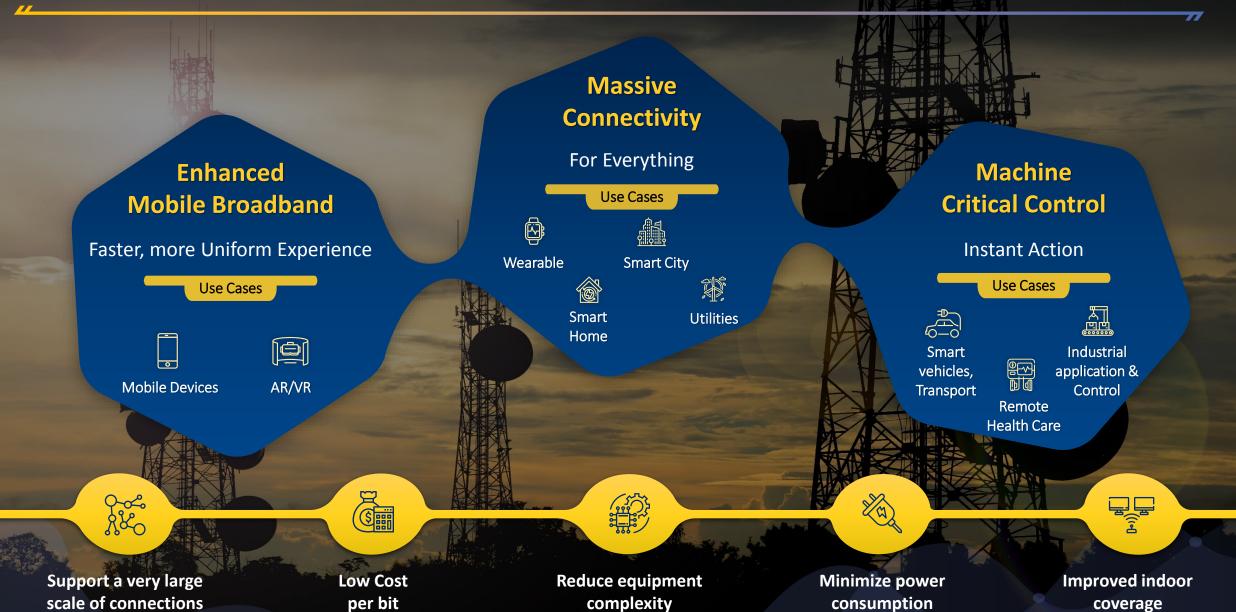
Strategic Focus

- VLSI & ISV acquisitions
- Israel COE for Security
- 5G Lab
- NB-IoT IP

2017-2022

360° Partnership 5G, AI, ML, Security

Why is 5G & IoT a game-changer?



How is LTTS positioned to impact this ecosystem?

CHIPSET



Enhanced Mobile Broadband

- Low Power
- High Complexity and Multi-functional
- NBIoT Enabled
- Al Embedded
- Security and Encryption

CONNECTIVITY



Ubiquitous Connectivity

- 5G Virtualization
- IOT Service Monetization
- Disruptive Open
 Source Network Roll
 Outs

DEVICES



Device-to-Device Communication

- Security
- Ruggedization
- 5G Control Applications
- Operator Customizations

SOFTWARE



Software Defined Everything

- Software Defined Networks
- Specialized Cybersecurity team
- Proven Industrial AR/ VR Applications
- Analytics Edge & Cloud



\$250 Billion by 2021

Some of the Cutting-Edge Work We Do



Facilitating Connectivity for the Developing World

Mesh Network



Terrestrial Wireless Mesh Network for Urban Areas

- 60GHz high speed wireless connectivity system solutions
- Architecture, Design & Field Testing

Solar Drone



Design Activities

- Next generation hardware & software
- Drastic Power & Weight Reduction
- Advance Network Processing Unit
- Custom ASIC

5G Rollout



- 5G Base Station & Core Network Development
- Development of NFV/SDN platform and Tools
- Development of Diagnostics and Outage Isolation Tools

Image Processing: Turnkey SoC

Project Highlights

- Complete physical design and verification including mass production of image processing SoC
- Executed chip development plans using low power process methodology
- Achieved high chip processing efficiency by optimizing die size, pin count, and power/memory/performance/sensor requirements

Application: Industrial Camera

LTTS proprietary VLSI IPs





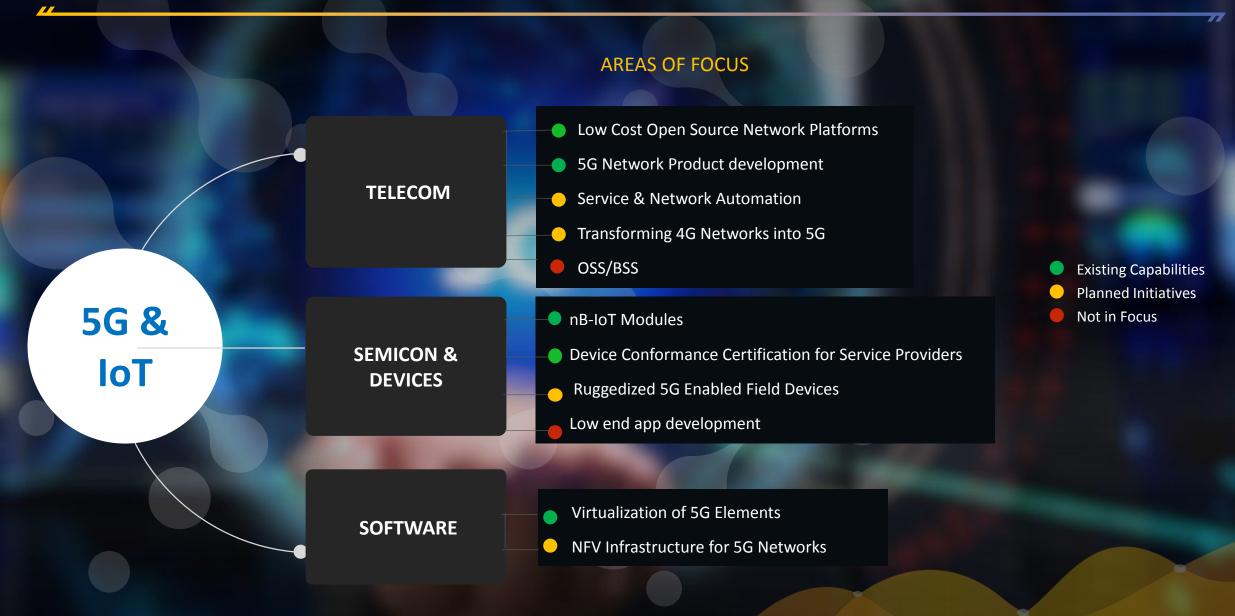
Development of Ruggedized, Smart Public Safety Device



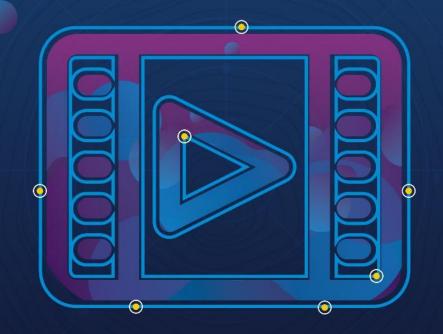
Solution Highlights

- Supports public and private networks
- Unique configuration to support dual SI
- Specialized IMS configuration for public safety network
- Specialized audio profile and path for mission critical application
- Modem configuration and over-the-air upgrade
- Device management for both networks
- Carrier certification testing and development support

5G & IoT Solutions Roadmap







Media & Entertainment Roadmap and Investments

Seema Ghanekar
Business Head

LTTS Investor & Analyst Day 2018 $\beta \in IN \ \textcircled{6} \ \#1$

M&E: From "Idiot Box" to Smart TV to Online Streaming



Era of National Channels

- **1960**: experimental telecast introduced
- 1980 : started National telecast
- Colour broadcasts and colour TVs introduced



Dawn of Cable TV & Satellite TV

- Regional Channels
- Greater variety of local content – news & entertainment
- Mass commercialization of cable TV



Rise of International Channels

- Explosion of News
 Channels
- Hyper-customization of content
- Massive Live Content sports, awards
- Record & Watch Later –
 Precursor to on-demand



 Amazon.com Inc. invested US\$ 3 billion to establish Amazon Prime

Streaming Services

- Netflix commissions
 highest number of shows
 in India, after US, UK and
 Japan.
- Hotstar 350 million followers

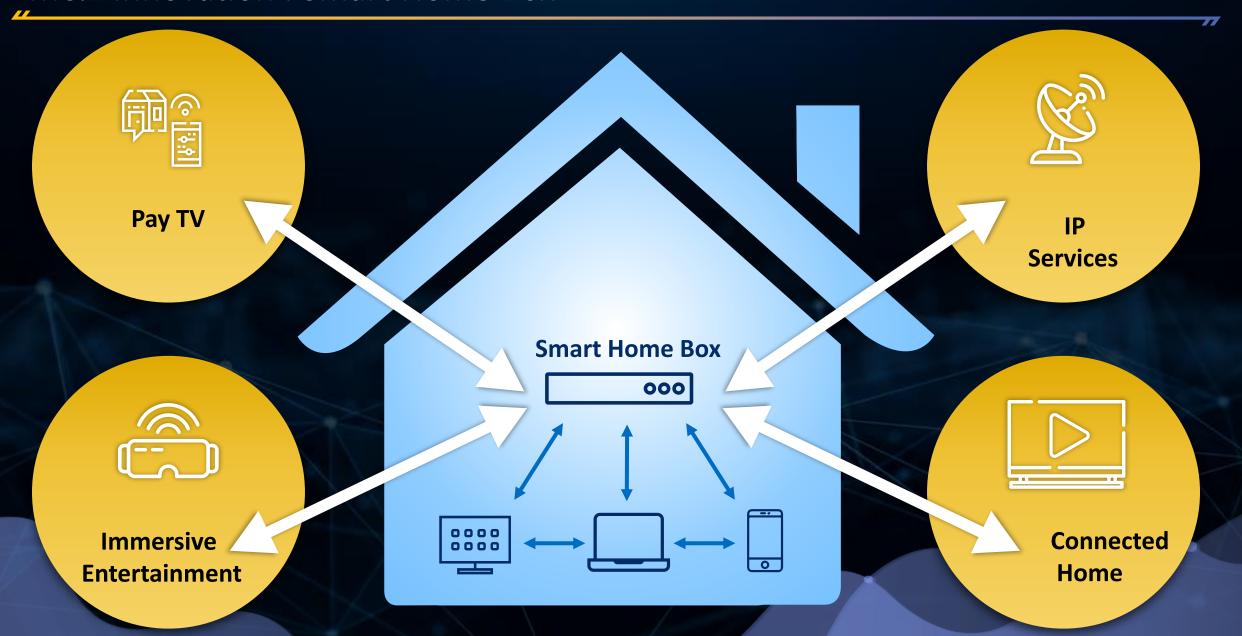
The Media & Entertainment Industry – Growing Rapidly



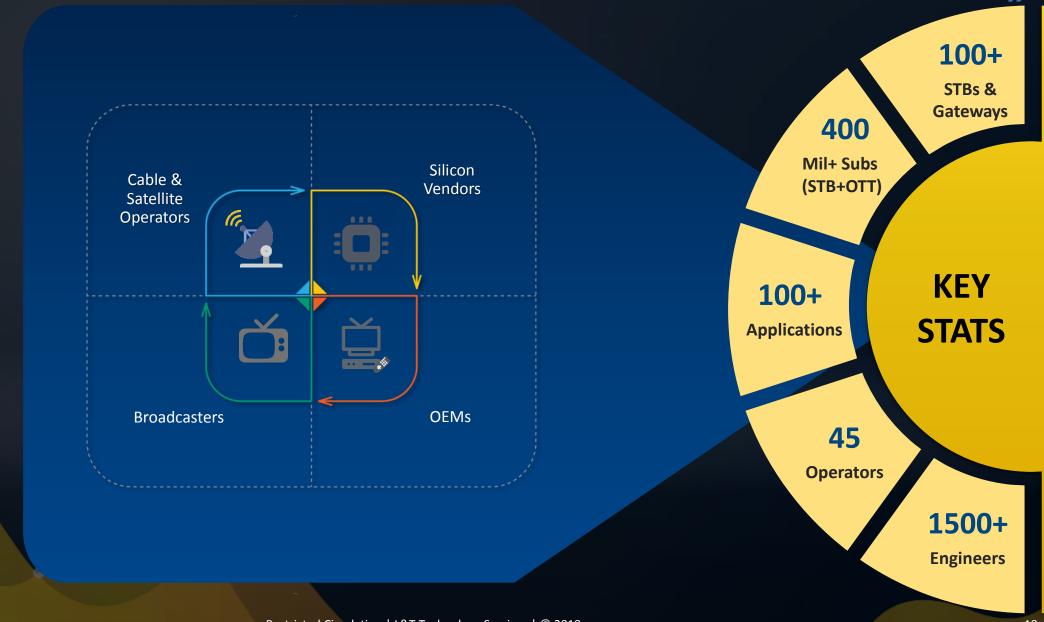
Traditional Scenario



M&E Innovation : Smart Home Box



LTTS in Media & Entertainment – A snapshot



M&E Engineering Feats ..



Live TV, VOD, Catchup TV



Record on Box , Power Search, Voice Control



2nd Screen, Follow Me,



Inflight TV Streaming



Content Monetization

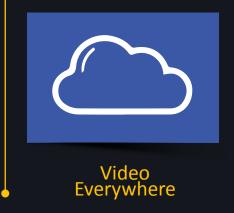


Satellite STB for LATAM



Targeted Ads







Content Security

Key Differentiators for M&E





Video



Content Security Delivery

- Multiple OEMs
- Multiple Devices
- Multiple Industries
- Multiple Product Releases

- Holistic understanding of all sub-systems
 - Head-End
 - Middleware
 - Front End Applications

- Expertise in Multiple
 Platforms
- Interoperability
- User
 Personalization

- Vulnerability
 Assessment
- Video Encryption
- DRM
- Self Learning & Adaptive Algorithms



M&E Roadmap and vision

