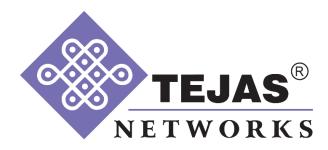


# INVESTOR PRESENTATION FY22



## **Safe Harbor Statement**

Certain statements in this release concerning our future growth prospects are forward-looking statements, which involve a number of risks, and uncertainties that could cause actual results to differ materially from those in such forward-looking statements due to risks or uncertainties associated with our expectations with respect to, but not limited to, our ability to successfully implement our strategy and our growth and expansion plans, technological changes, our exposure to market risks, general economic and political conditions in India which have an impact on our business activities or investments, changes in the laws and regulations that apply to the industry in which the Company operates. The Company does not undertake to update any forward-looking statements that may be made from time to time by or on behalf of the Company.



# **Tejas Networks: A Snapshot**

### India's leading R&D-driven telecom product company

- Founded in 2000; Headquartered in Bangalore
- #1 in Optical Aggregation in India; Top-10 globally (Source: Ovum)
- Cumulative Revenues of over US \$1 Billion
- Customers in 75+ countries; 500,000+ units shipped worldwide
- Presence in all major telecom networks in India
- TL9000 certified

## Technology differentiation: "Software-defined Hardware"

- Innovative use of programmable silicon for time-to-market and cost advantage
- Focus on innovation: 349 global patents and 300+ silicon IPs
- Award-winning products recognition at international forums
- Innovation + Quality + Cost

## Financially strong with an innovative business model

- Went public in the year 2017; debt-free company
- Leveraging India R&D cost advantage to create globally competitive products
- Success in India leading to global success; cumulative exports of over US \$400M

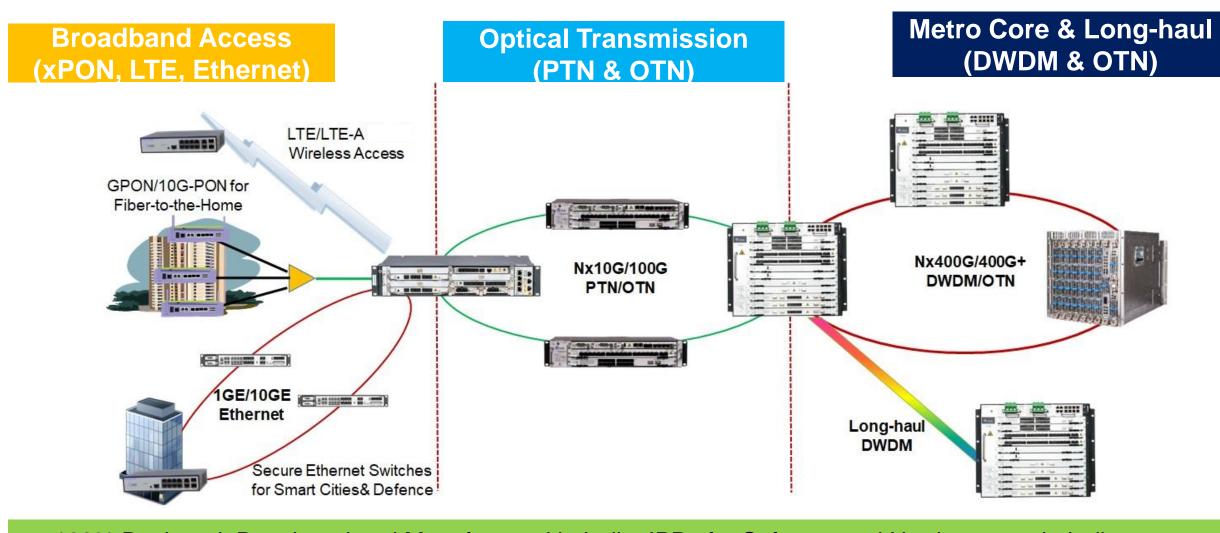




Top-3 R&D spender\*\*
among all public
companies in India
(source: ICICI Securities)



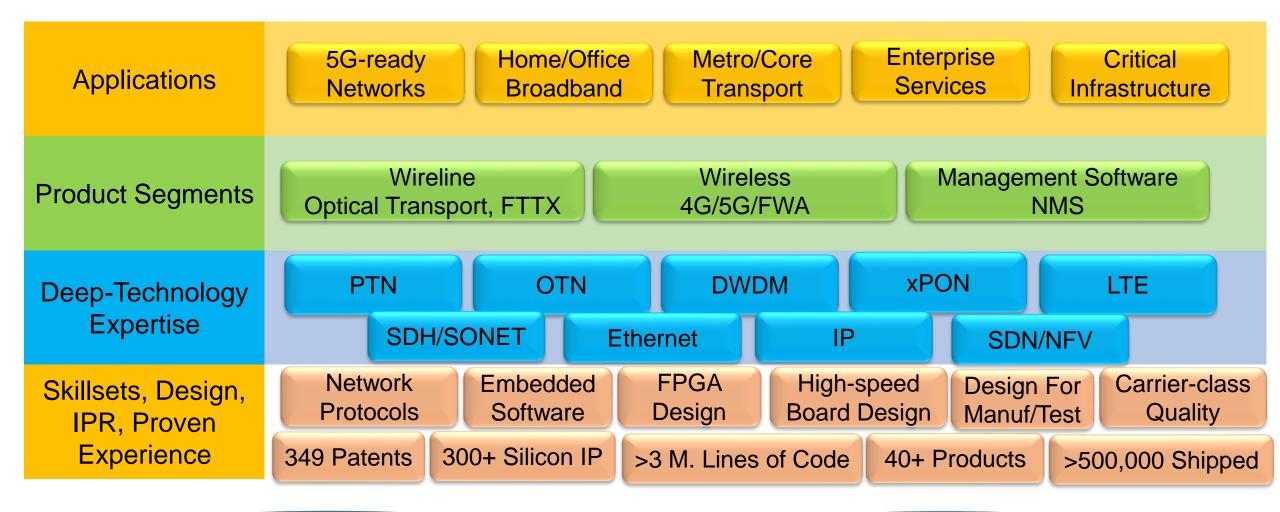
## **Our Product Focus: From Access to Core**



- 100% Designed, Developed and Manufactured in India; IPRs for Software and Hardware are in India
- Over 50% employees in R&D with strong multi-disciplinary skillsets; 349 patents and 300+ silicon IPs
- Highest possible value-addition in India; Indian Control Key Management and Board of Directors



# Strong Foundation of Technology and R&D



**Cumulative R&D Investments of Over Rs 1000 Cr** 

**Award-winning, Globally Competitive Products** 



# **Our Sustainable Competitive Advantages**

# Software-defined Hardware ™

Programmable silicon eases feature upgrades, incorporation of new standards and protocols

## Ultra Converged Broadband Access/Edge

Any Media, Any Service, Any Technology







# Future Ready Products

Support multiple technology generations from same shelf (2G/3G to 4G/5G)

# Innovative Business Model

Asset-light manufacturing, with cost-efficient India-based R&D and low operating costs, delivers superior financial performance



## **Global Telecom Industry- Positive Growth Drivers**

### E-Learning



#### **Telemedicine**













#### OTT



### **E/M-commerce**

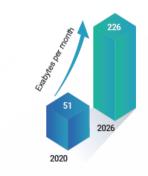








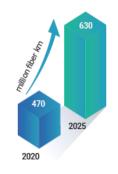
#### **Mobile Data Traffic**



Growth Factor: 4.5x

Source: Ericsson

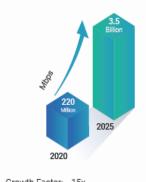
#### **Fiber Rollout**



Growth Factor: 1.3x

\*growth as per internal estimates

#### **5G User Base**

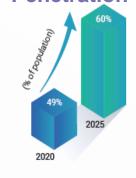


Growth Factor: ~15x

Source: Ericsson

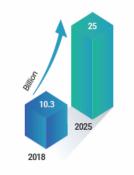
# Telecom Networks are now an essential infrastructure for Digital society and Economy

# Internet Penetration



Source: GSMA

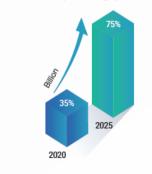
## IoT Connections



Growth Factor: ~2.5x

Source: GSMA

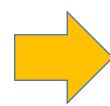
# High-speed Broadband Subscriptions (>100 Mbps)



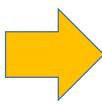
Growth Factor: 2.5x
Source: Omdi

## **Our Growth Strategy**





- Benefit from new geo-political situation, as customers diversify their supplier base
- Increase sales investments and local presence in Africa, Mid-east, SE Asia, N. America & Europe
- Explore partnerships



- Leverage growth from Fiber-based broadband (FTTX) and increase in Mobile broadband (4G/5G)
- Increase wallet share in private telcos and government accounts
- Leverage "Atmanirbhar Bharat"



- Unique software-defined hardware™ architecture; India R&D cost leverage
- Diversified portfolio focused on fast growing technology segments
- Leading-edge solutions for Broadband Access,
   Edge and Metro/LH networks



## 1. Focus on International Markets







Source: Omdia and internal estimates

## Total International Addressable Market (TAM) of \$9.2 Billion in FY22

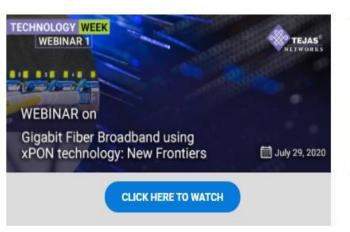
- Our Asia business grew by 366% YoY
- Carriers expanding coverage of fixed and mobile broadband services and for 5G
- Strong demand for FTTH and FWA products for broadband rollouts
- Won multi-million rural broadband project in SE Asia for our converged wireless/wireline product

- Our Africa business grew by 68% YoY
- Carriers upgrading capacities to address bandwidth demand from web-scale companies and for 5G rollouts
- Strong traction for Metro DWDM/OTN and
   Alien Wavelength solutions
- Growing incumbency across multi-country customers; hired new sales leaders for CIS/Europe regions

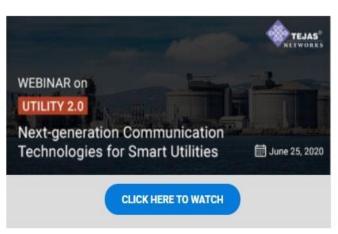
- Adverse impact of Covid-19 in FY21
- USA: Federal funds for rural broadband; Targeting Tier-2/3 telcos and rural ISPs for FTTX products
- Mexico: Benefiting from broadband growth; Strong incumbency and local presence



## **Enhancing our Brand in International Markets**



























THE UK'S MOST **IMPORTANT** 





#### TelOne Zimbabwe deploys Tejas TJ1600 DWDM/OTN platform

TelOne will use the 100G and greater wavelength transmission capabilities on its network throughout the African country.



the telecoms industry. The onset of the coronavirus

pandemic saw demand for connectivity skyrocket to an

incredible extent, with most of us reliant on broadband

But while this surge in demand was impressive, it was not

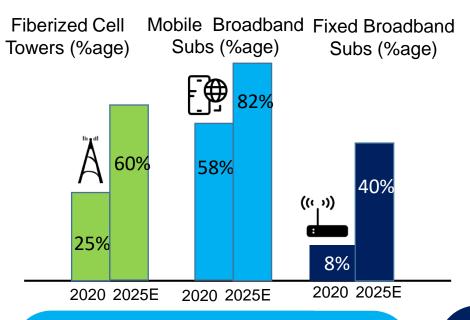






## 2. Benefit from Data and Broadband Growth in India

# India TAM for FY22: ~\$1 Billion



- Pan-India rollout of FTTX home, enterprise broadband networks by Telcos and ISPs
- Growing cell-site fiberization
- Backbone capacity expansion
- Large investments in modernization of critical infrastructure networks

### **India Government**

- BharatNet fiber broadband to every village; 650,000 villages to be covered by end of 2023.
- BSNL's pan-India 4G network rollout including both wireless and optical transmission infrastructure.

### **India Private**

- Increase in FTTX rollouts and network capacity expansion. Expansion of 4G and impending launch of 5G
- Selected by 2 Tier-1 telcos for pan-India FTTX rollouts on GPON
- Selected by 2 Tier-1 telcos for OTN and DWDM products for Metro, Long-haul capacity augmentation

## Critical Infrastructure

- With Cybersecurity as a key concern, preference for domestic vendors in utility, defense and smart/safe city projects
- Growing demand for FTTX, PTN
   DWDM and Ethernet switches



## **Indian Government push for "Atmanirbhar Bharat"**

Preference to Make in India (PMI)

 Our products are included in the list of telecom products eligible for purchase preference in Government tenders

 Suppliers from countries sharing a land border with India to register with competent authority before bidding All telecom products
being manufactured and
sold by Tejas are
included in the PMI list

"Trusted Products" Directive

- Indian Government has issued a national Security Directive, mandatorily requiring all TSPs and ISPs (public or private) to use "trusted products" from "trusted sources" only
- Applicable on all new telecom equipment purchases (by Government, Private telcos, ISP etc.) from June 15 2021

Tejas has full ownership and control of all software, hardware, design. All manufacturing is done in India

Product Linked Incentive (PLI)
Scheme

- Rs 12,195 Crore incentive scheme for local manufacture of specific telecom and networking products
- 4-6% incentive to eligible companies on incremental sales, over FY20 base year, subject to meeting capital investment commitments
- Policy applicable from April 2021 for a period of five years.

Telecom products being manufactured and sold by Tejas are eligible under PLI scheme



3. Differentiation through Innovation and R&D

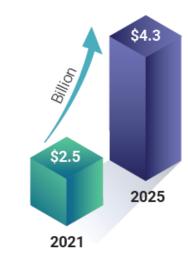
Global XPON Market



Global Metro/Access WDM Market



Global Fixed Wireless Access Market



Global Converged Packet Optical Market



- Expanding product portfolio to address high-growth segments
  - Successful commercial launch of our wireless broadband product on LTE
  - High-speed Fiber Broadband (NG-PON) deployed for FTTX
  - Multi-terabit Metro/Core Switching and Transport (DWDM, OTN)
  - Converged Packet-Optical Transport (PTN, IP, CE2.0, SDH)
  - Secure and Industrial-grade IP/Ethernet Switches
- Top-3 R&D spender among public companies in India
  - Over 50% employees in R&D with strong multi-disciplinary skillsets; 349 patents and 300+ silicon IPs





## **Award Winning Products and Solutions**

# Home & Office Broadband

Deliver high-speed broadband connectivity on optical fiber, fixed wireless and copper cables to residences, businesses & institutions

Products: xPON, PTN, LTE,
Ethernet Switches

# Critical Infrastructure

Seamless network transformation from legacy circuit to packet transport technologies in power, rail, oil & gas, defence sectors Products: Next-gen SDH, DWDM, Ethernet Switches, GPON

















# Metro Capacity Expansion

Cost-efficient solutions to upgrade bandwidth in Metro and Core networks

Products: DWDM, OTN

# 5G-Ready Mobile Backhaul

High-performance optical crosshaul solutions to cater to increased fiberization, densification & virtualization of 4G & 5G Networks

Products: PTN, GPON, OTN



## **Leading to Tier-1 Wins in India and Global Markets**



5 Out of Top 10 Telecom Operators in the World



3 of the Largest Wholesale Bandwidth Providers in Africa



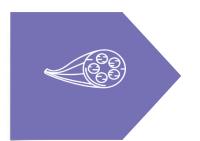
All Large
Public & Private
Telco networks
in India



Largest supplier to India's Utility Networks (Power, Rail, Oil & Gas)



Asia's 1st Converged
Fiber & Wireless
Broadband
Network



World's Largest Rural Broadband Optical Fiber Network



# Strong Professionally Managed team with Significant Industry Experience

## Management



Sanjay Nayak
Chief Executive Officer and Managing Director
Ex-Managing Director at Synopsys
Chairman, FICCI Science & Technology Council



Kumar N. Sivarajan
Chief Technology Officer
Associate Professor, IISc, Bangalore
Former Chairperson, Telecom Standards
Development Society
Ph.D, California Institute of Technology



Arnob Roy
Chief Operating Officer and Full-time Director
Ex-Manager, R&D, Synopsys
Master's Degree, University of Nebraska
Bachelor of Technology, IIT, Kharagpur



Venkatesh Gadiyar
Chief Financial Officer
Ex-Assistant Financial Controller, Infosys
Fellow Member, Institute of Chartered Accountants of India



Sukhvinder Kumar
President, Global Manufacturing Ops
Ex-CEO and Managing Director, Eolane Electronics
Advanced Management Program, IIM, Bangalore



N.R. Ravikrishnan
General Counsel and Chief Compliance Officer
Ex-Company Secy and Head Compliance, Infosys
30+ years of experience in Tata, Infosys and TVS

### **Board of Directors**



Balakrishnan V.
Non-Executive, Independent Director and Chairman
Founder and Chairman of Exfinity Venture Partners Ex-Group CFO and Board member of Infosys



**Dr. Gururaj Deshpande Non-Executive Director**President and Chairman of Sparta Group MA LLC
Life-Member of the MIT Corporation



C.B. Bhave
Non-Executive Director, Independent Director
Chairman, SEBI (2008 -2011)
Chairman and MD, NSDL (1996-2008)
Indian Administrative Services (1975 Batch)



Leela Krishnamurthy Ponappa Non-Executive Director, Independent Director Indian Foreign Service Officer Ex-Ambassador of India to Thailand and Netherlands



# Global Recognition for Innovation, R&D & Business

### 2018-2021



IEEE Technology Corporate of the Year



Best Equipment Supply Partner by Gol



Aegis Graham Bell award in "Digital India Initiative"



"Best Exporter" award in Gold Category by FKCCI



Top 3 R&D spender among listed cos



Finalist in Global Finalist in World Telecom Awards Forum Award



Finalist in Fierce Innovation Awards



Finalist in Leading Lights Awards

### 2012-2015







CSIR Diamond Jubilee award from PM in 2012

### 2016-2017



IESA Most Innovative Product Award in 2016



President of India award for successful commercialization of indigenous innovation in 2016



National Intellectual Property Award by Minister of Commerce and Industry in 2017

### 2000-2008



Deloitte. Global Deloitte Technology Fast-50



Red Herring Top-100 Asia

### 2009-2012

Technology and Innovation awards from

- NASSCOM
- Economic Times
- · Aegis Graham Bell
- TCOE India



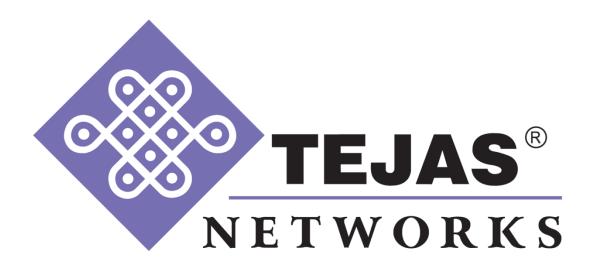


HARVARD BUSINESS SCHOOL



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CSIR Diamond Jubilee award from PM in 2006





# Thank you!

## **Contact Us:**

ir@tejasnetworks.com

Contact - +91(80)41794600