

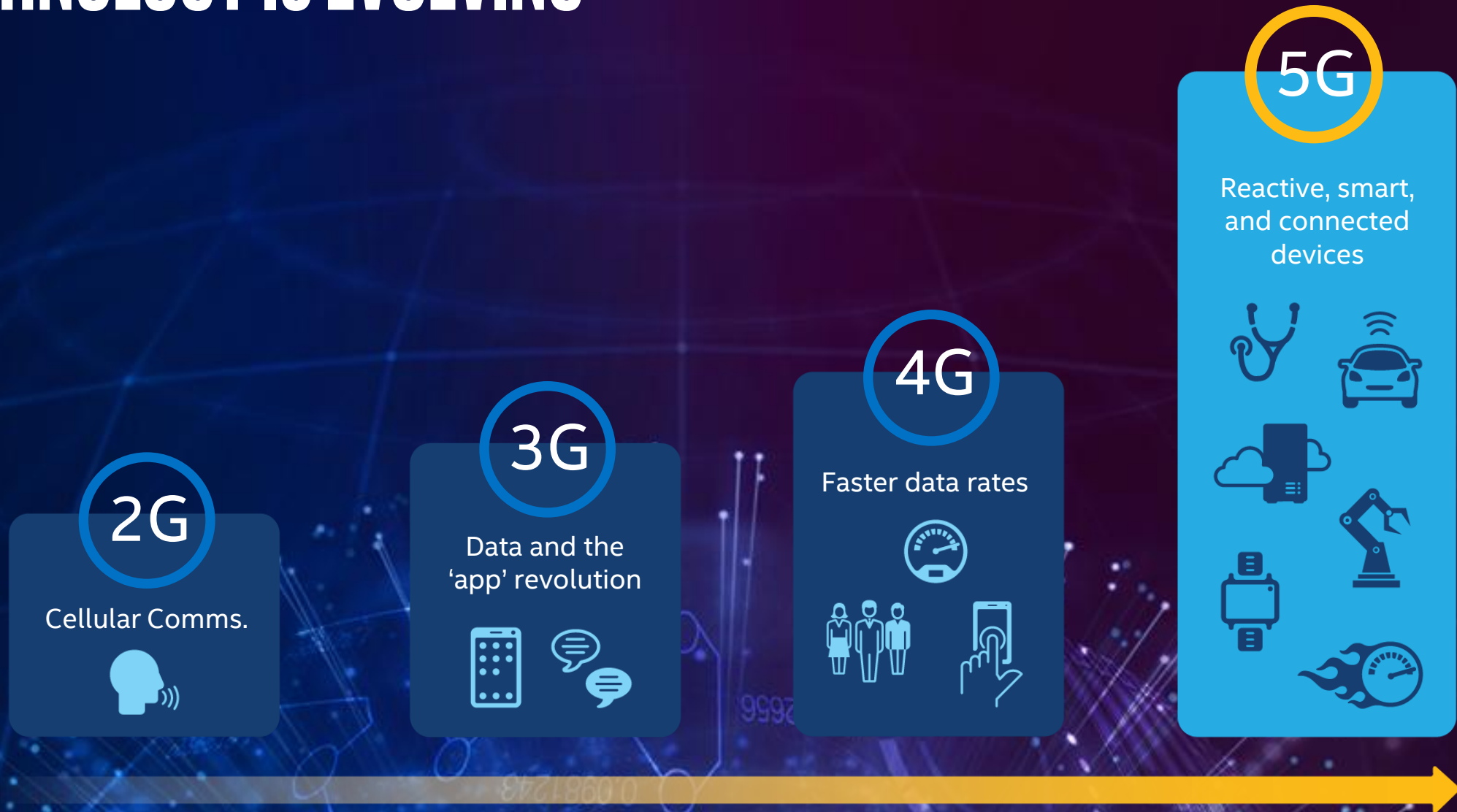
ACCELERATING 5G FOR DIGITAL EMPOWERMENT

NIVRUTI RAI

COUNTRY HEAD & VICE PRESIDENT, DATA CENTRE GROUP

INTEL

TECHNOLOGY IS EVOLVING



EVERYTHING SMART, EVERYTHING CONNECTED ..



Warehouse & Manufacturing



Hospitality



Health & Education



Transportation



Retail



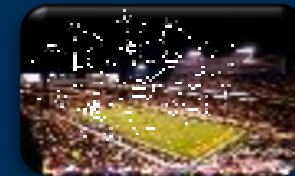
Smart City



AR/VR & Cloud Gaming



Disrupting Business Models



Smart Stadiums

.. TRANSFORMS LIVES & ENABLES NEW BUSINESS OPPORTUNITIES

... AND NETWORK IS TRANSFORMING

**Yesterday:
Purpose-Built**

Siloed Management Consoles



TRANSFORMING:

ARCHITECTURE

VALUE CHAIN

BUSINESS
PROCESS

Modern: Built for Multi-Purpose

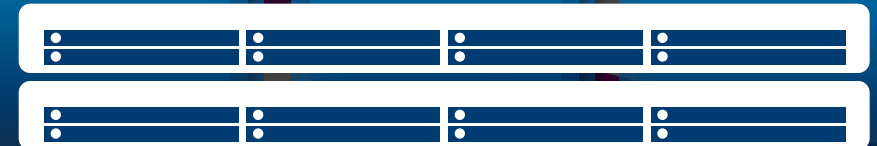
Infrastructure Wide Orchestration

SDN: Unified Management & Control

Virtual Router

Virtual VPN

Virtual Firewall



Today:
Add NFV & SDN

DELIVERING NETWORK SCALE & AGILITY

... WITH ENTIRE VALUE CHAIN READINESS



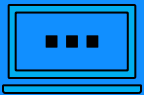
System Integrators to stand up and support new solutions



Operators / Service Providers to build out software defined networks including edge



Telecom Equipment Manufacturers to create scalable COTS solutions



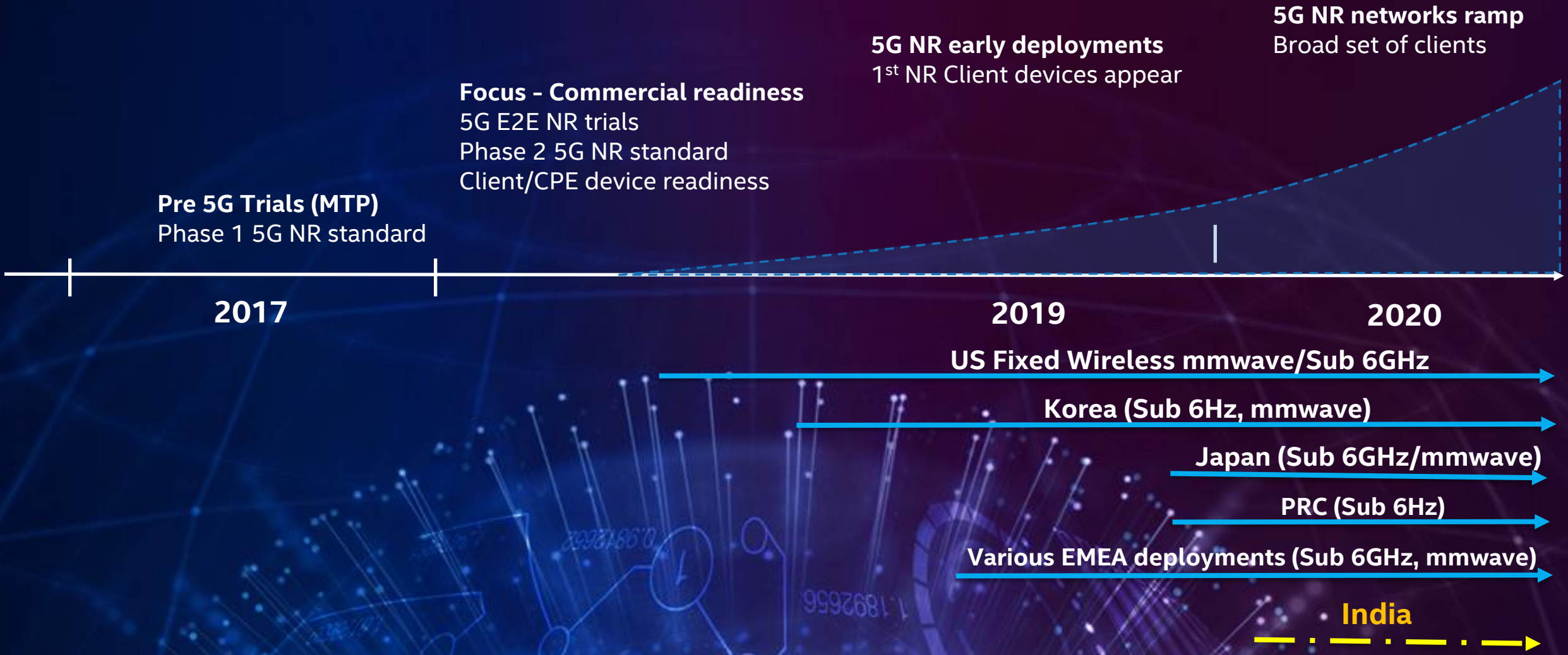
ODMs to utilize the latest 5G ready building blocks for agile platforms



Standards / Open Source: ETSI, TSDSI, TIP, ONAP, OPNFV, OVS...

OPPORTUNITY FOR INDIAN ECOSYSTEM TO TAKE GLOBAL LEADERSHIP

5G TIMELINE ... GETTING READY FOR COMMERCIAL DEPLOYMENTS



WE NEED TO START NOW TO REALIZE "VISION 2020"



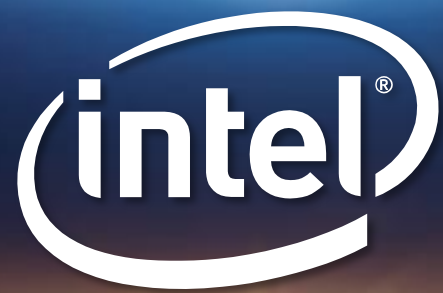
ITS OUR OPPORTUNITY TO TAKE A LEAD

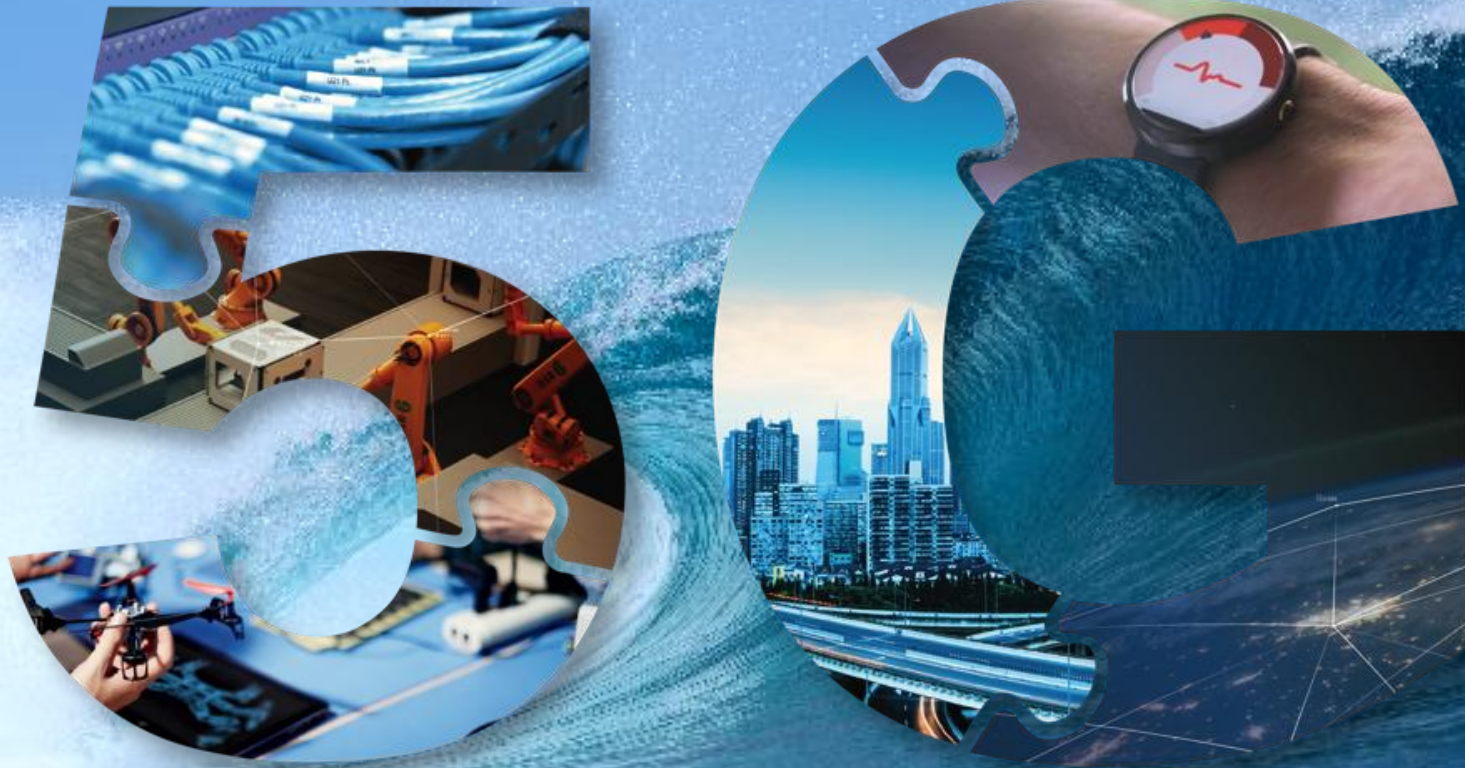
COMMUNICATION IS A FOUNDATIONAL TECHNOLOGY FOR INDIA'S DIGITAL FUTURE

5G COMMERCIALIZATION - DEPLOYMENT & USE CASES ACCELERATING

SUCCESSFUL DISRUPTIVE 5G SHOWCASING - DRIVES INITIAL USE CASES & MONETIZATION

GOVT, INDUSTRY, ACADEMIA STARTUP COLLABORATION FOR A LEADERSHIP ECOSYSTEM





BY 2020



AVG. INTERNET USER
1.5 GB
OF TRAFFIC / DAY



AUTONOMOUS VEHICLES
4 TB
OF DATA/DAY



CONNECTED AIRPLANE
5 TB
OF DATA/DAY

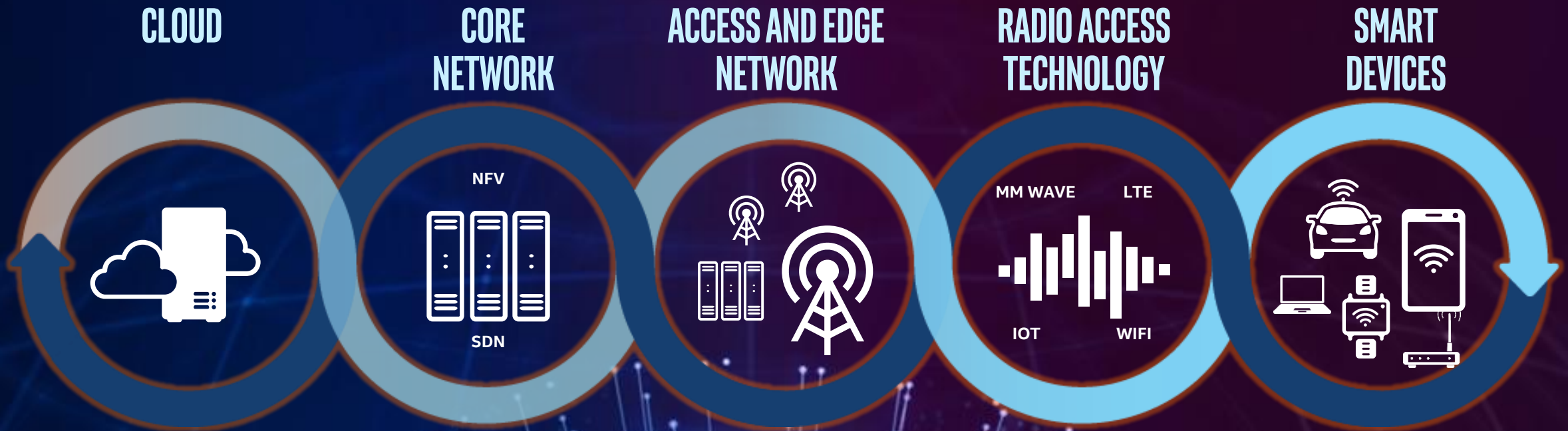


SMART FACTORY
1 PB
OF DATA/DAY



CLOUD VIDEO PROVIDERS
750 PB
OF VIDEO/DAY

WILL NEED AN END-TO-END STRATEGY



PROGRAMMABLE, FLEXIBLE PLATFORMS IS KEY



TRANSFORMING THE NETWORK END-TO-END

ONE ARCHITECTURE ACROSS THE NETWORK, FROM DEVICE TO CLOUD



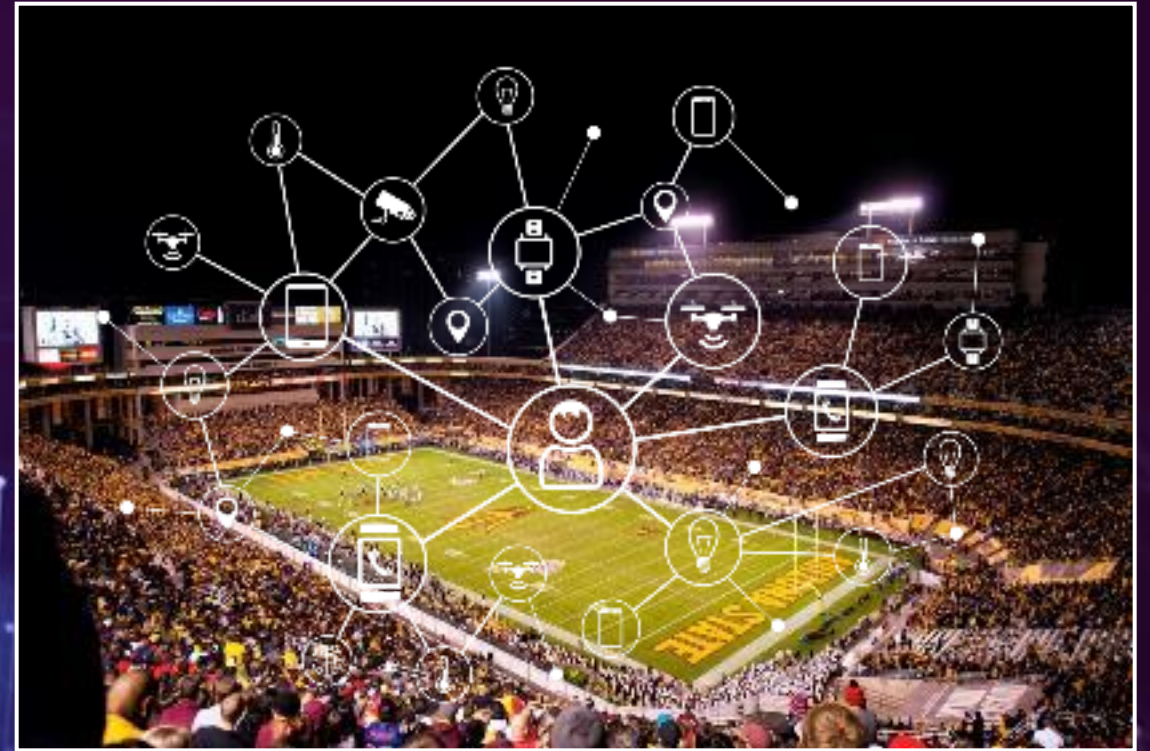
ENABLING ONE COMPUTE PLATFORM FROM EDGE TO CLOUD – **PLACED WHERE IT IS NEEDED**



THAT ARE A COMPOSITE OF SERVICES...

Lets Look at Smart Stadium Use case

- Integrated services targeted for stadium venue
- Live camera signals and instant replays
- Drones 360 Cameras deliver real time video
- Stadium displays become personal
- Navigation
- Personal Advertising
- Stadium security



The network is becoming personal

THESE SERVICES CAN CREATE VALUE AND OPPORTUNITIES FOR INDIA AND INDIAN ECOSYSTEM