

2nd Indo-European Dialogue on ICT Standards & Emerging Technologies

4th November 2015 • Shangri-La's - Eros Hotel, New Delhi, INDIA



situation Q3 2015

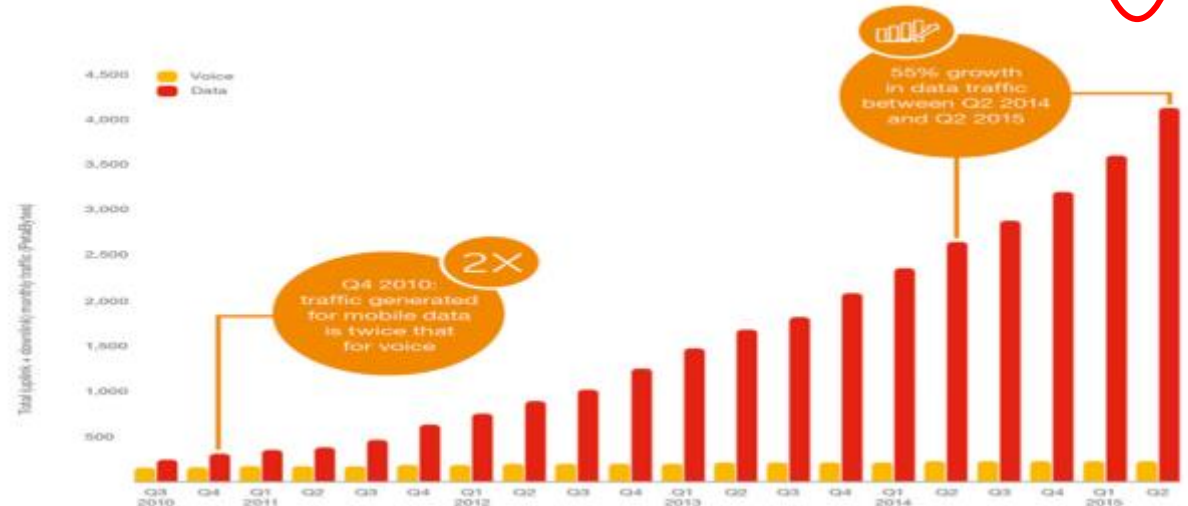
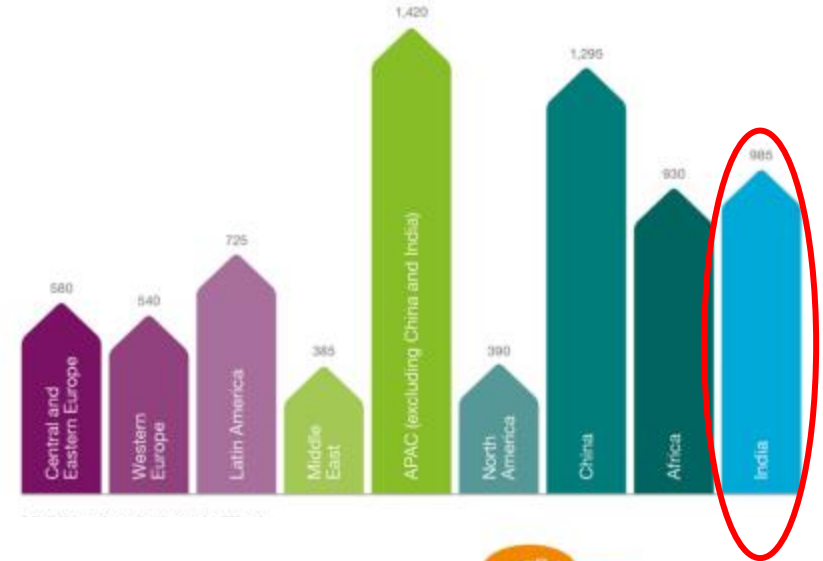


India:

- 77 % penetration
- 965 Million subscriptions

Traffic:

- 55% growth last 12 months



2020



	2014	2020
› Subscriptions (M)	7,100	9,200
› MBB (M)	2,900	7,700
› Smartphone subs (M)	2,600	6,100
› Mobile Traffic (EB/Month)	3.2	30.5
› Fixed Traffic (EB/Month)	40	140
› Video (% of Mobile Traffic)	45	60
› Pop coverage (%)		
–GSM EDGE	>85	~95
–WCDMA/HSPA	~60	~90
–LTE	~20	>70

>2X

10X

Diverse use cases



Cell automation



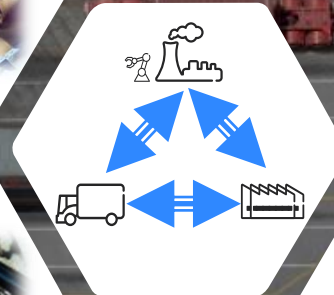
Automated Guided Vehicle



Remote assistance & maintenance



Logistics Tracking



Building Monitoring



Healthcare



Smart Agriculture



Transport/Automotive



Energy Meters



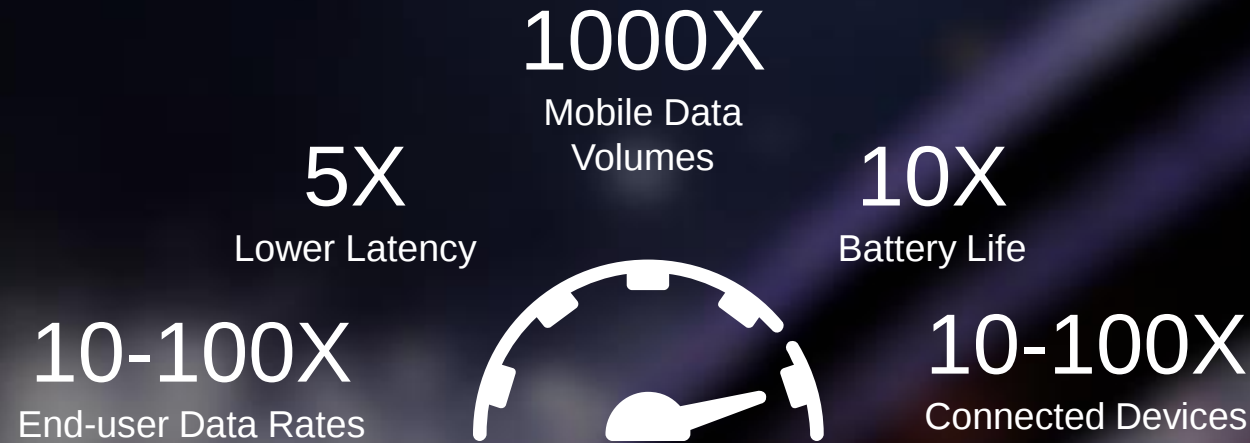
Augmented Reality



Process Control



5g: Pushing the envelope



Critical Communications

<5ms e2e delay
99.999% transmission reliability
500Kmph relative velocity



Intelligent Transport Systems

Massive Communications

>10yrs battery lifetime
>80% cost reduction
20dB better coverage

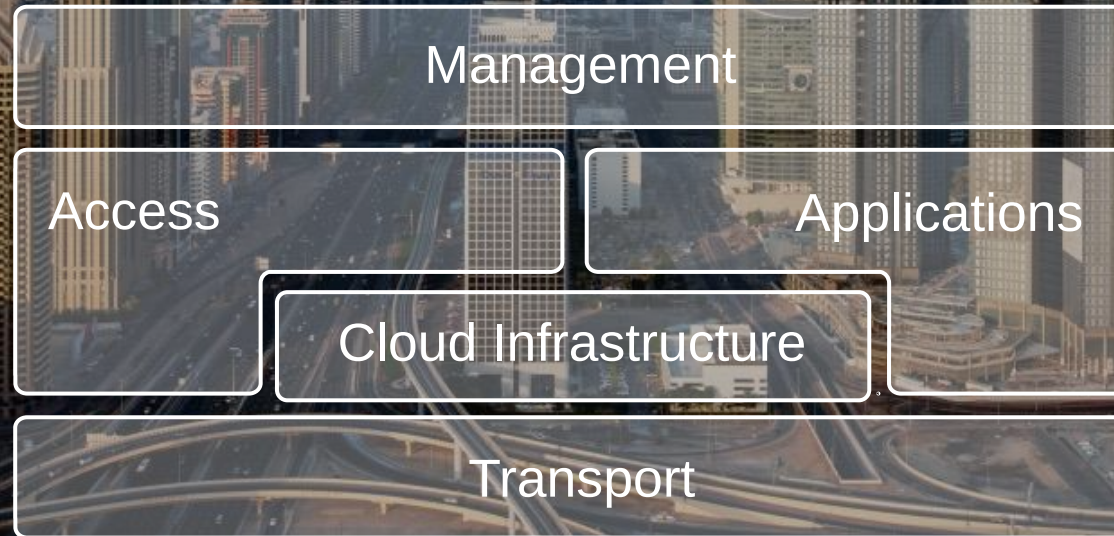


Connected Sensors

← Extreme availability

→ Scalability and flexibility

Network evolution

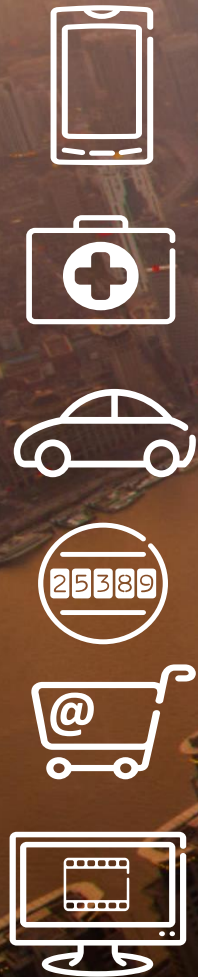


Sustainable



Secure

One network – multiple industries



5X
Lower Latency

1000X
Mobile Data
Volumes

10X
Battery Life

10-100X
End-user Data Rates

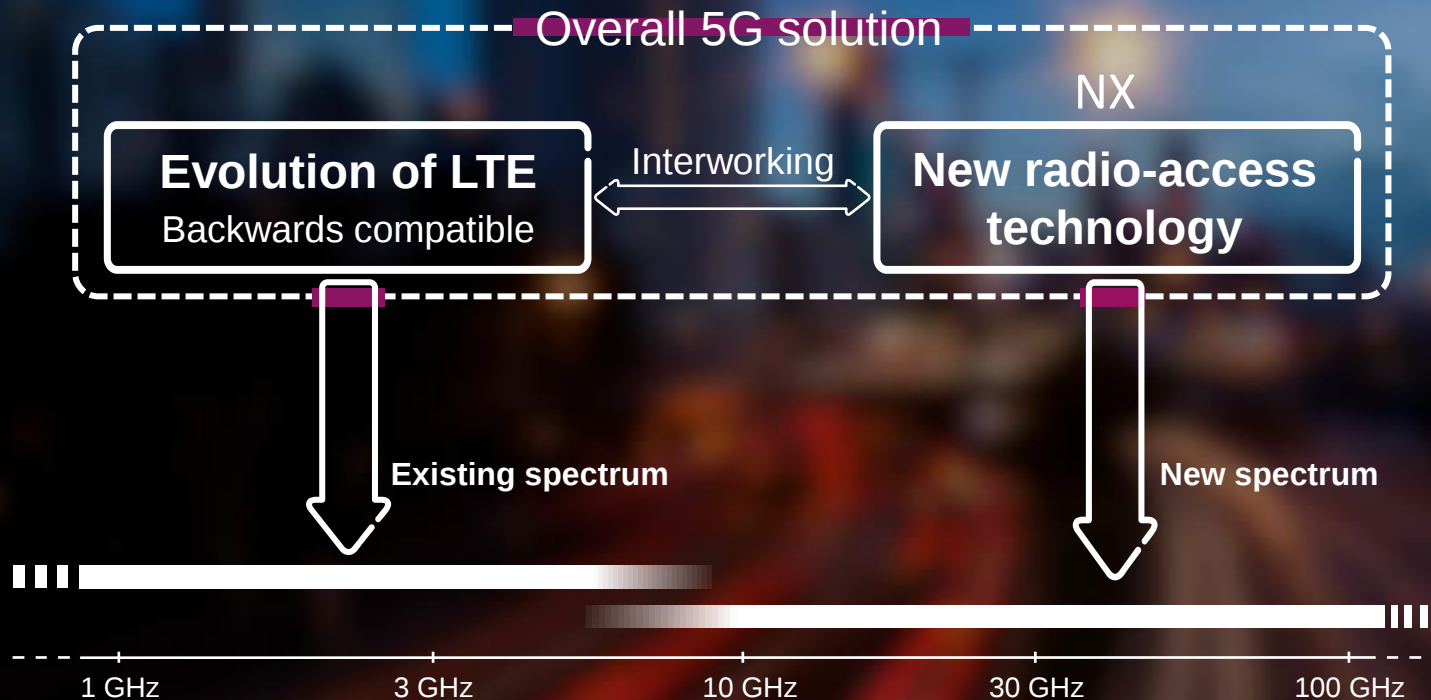
10-100X
Connected Devices



A common network platform with
Dynamic and Secure Network Slices



5g radio ACCESS & Spectrum



Spectrum flexibility

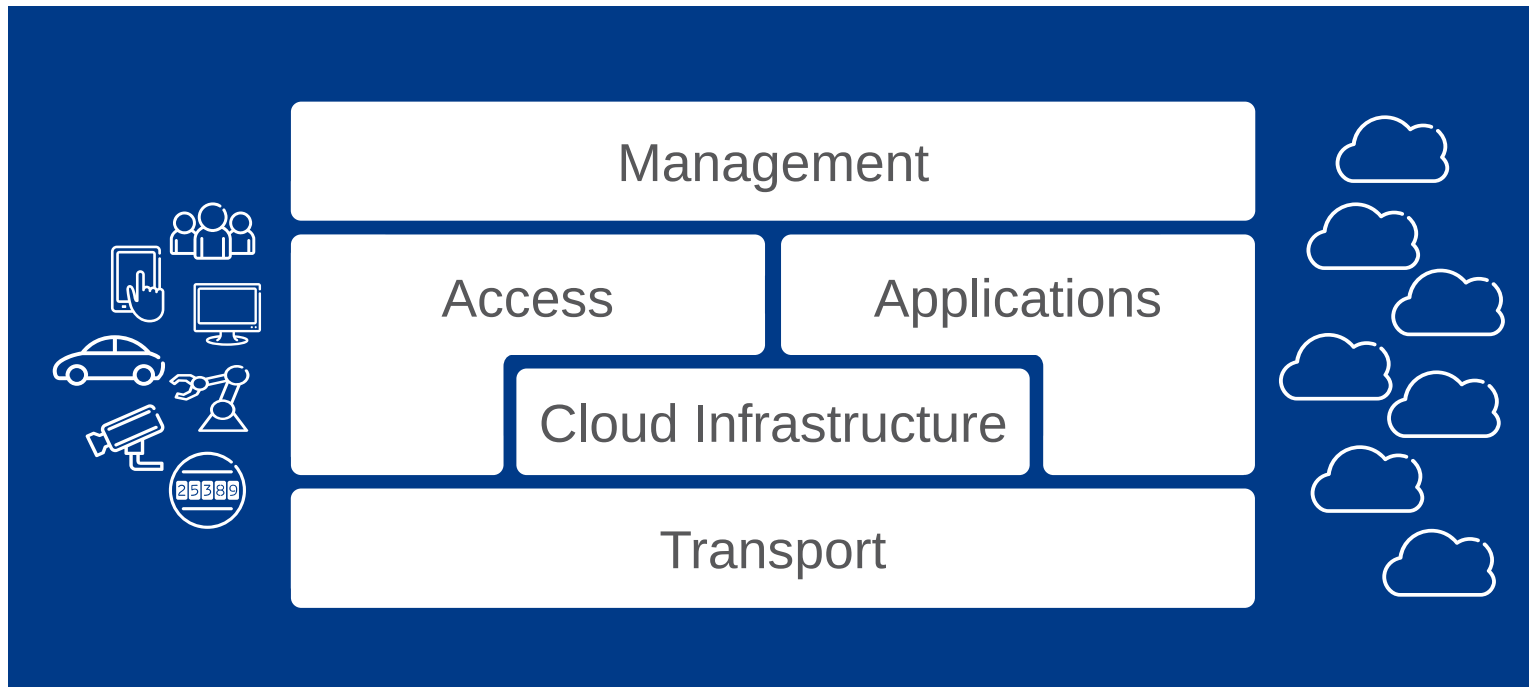
Flexible duplex

FDD and TDD
Dynamic TDD
Full Duplex

Dedicated Licensed Spectrum

Complimented with
spectrum sharing
Unlicensed
Shared licensed

Standardization landscape



3GPP - a global organization

Seven organizational Partners



FU



Japan



Korea



China



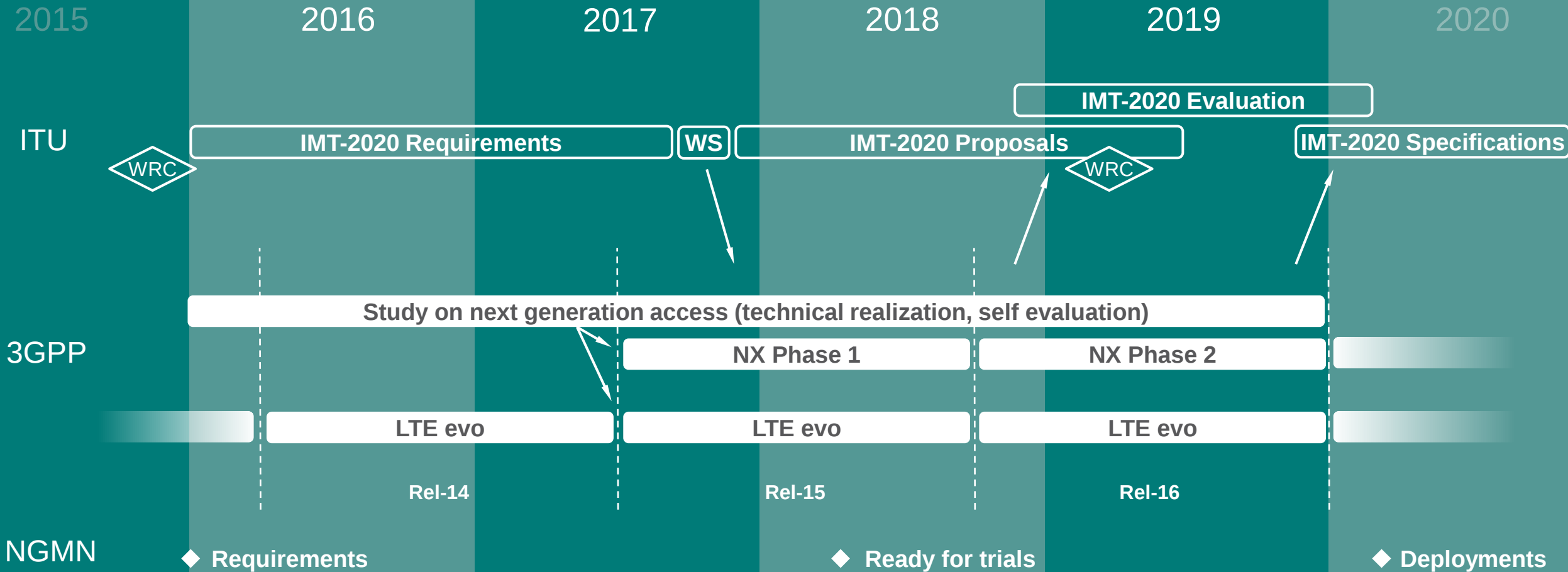
USA



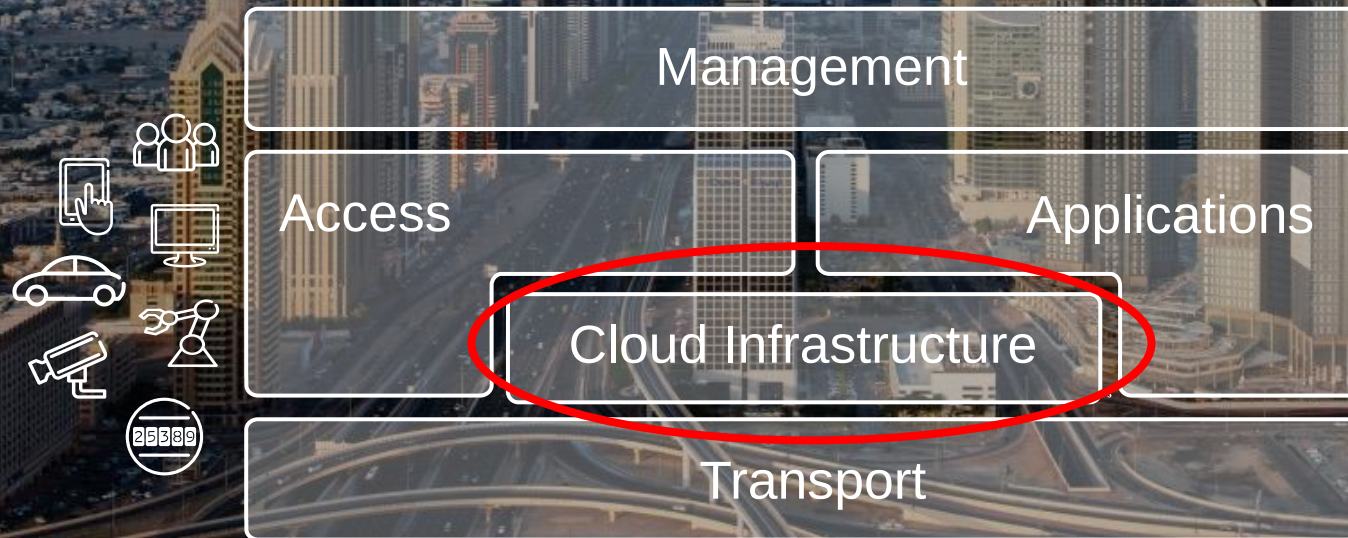
India



5G - Time plan



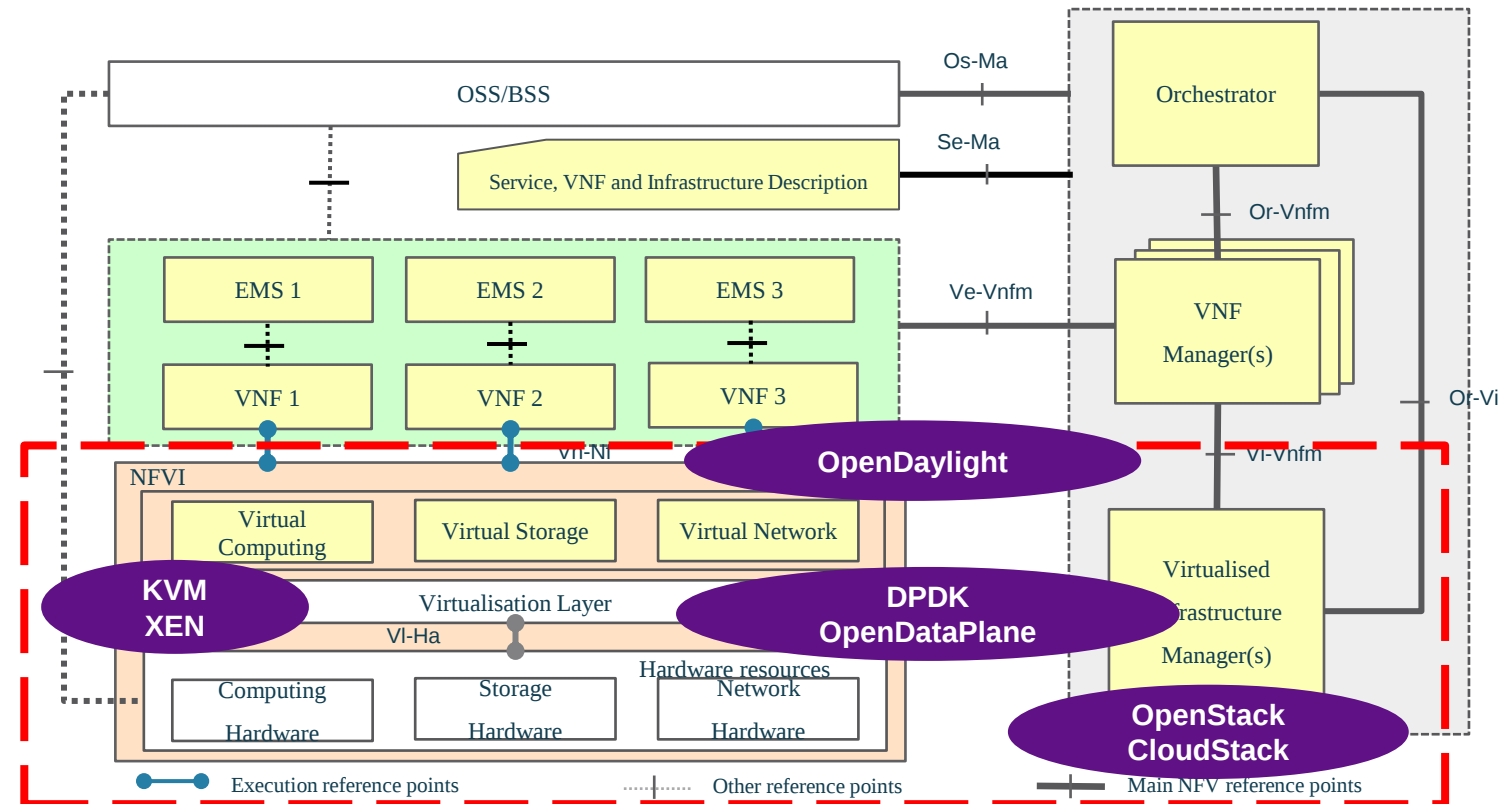
Network evolution



Opnfv - technical overview

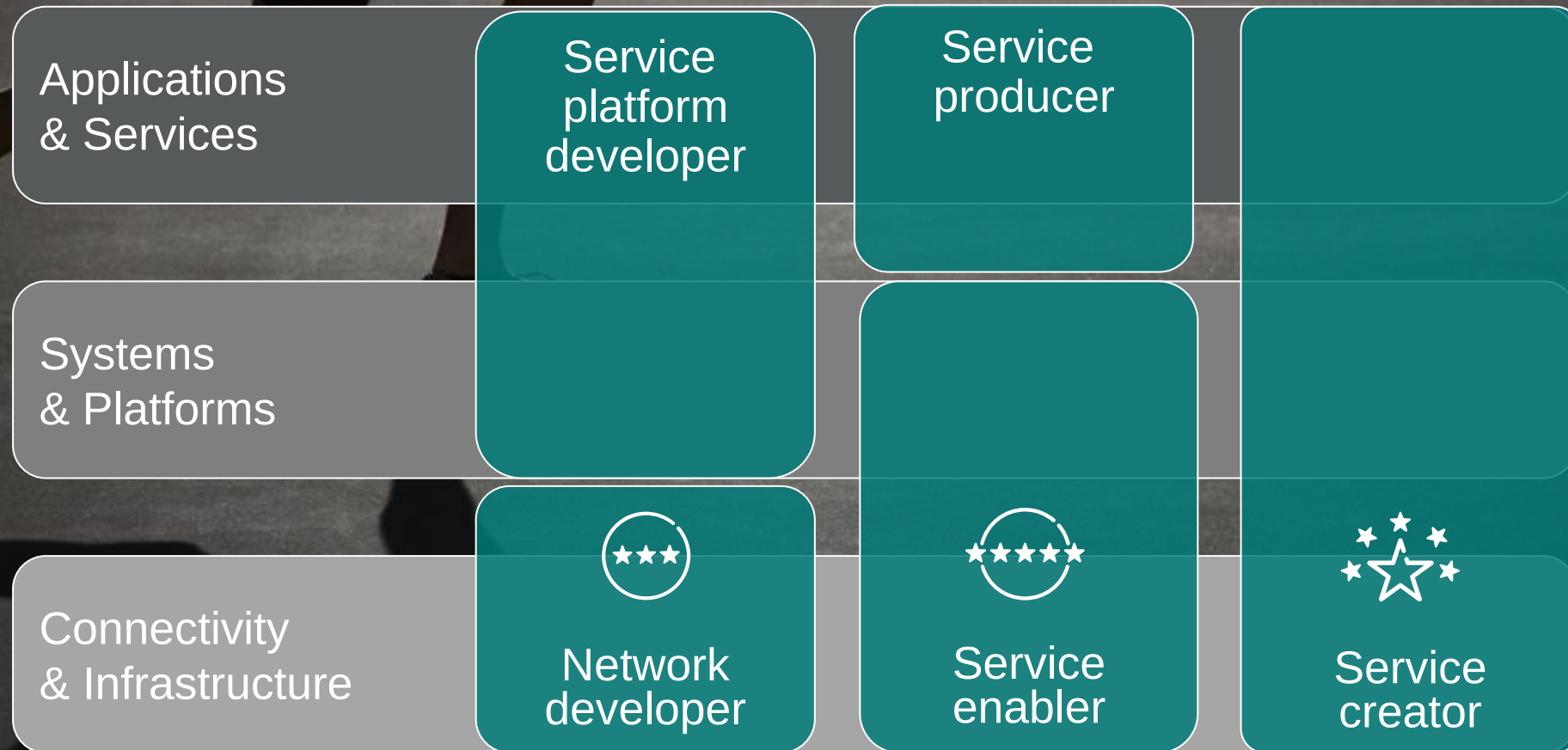
› OPNFV will create a reference implementation for the Virtual Infrastructure layer:

- Based on Open Source
- Pluggable
- Extensible
- Realizing interfaces



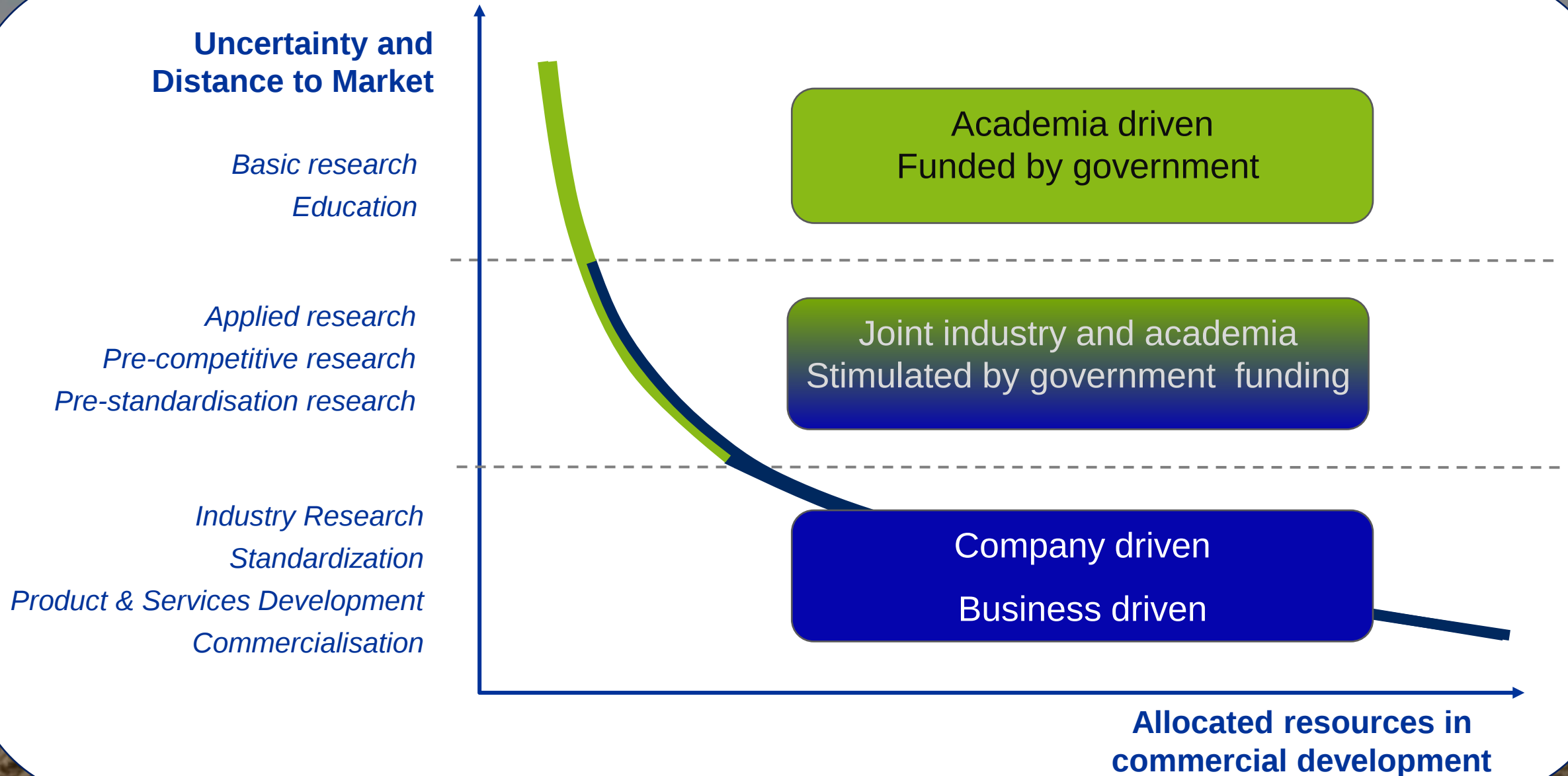


Users, Content & Devices



Service Provider evolution

Research and Innovation - ROLES



Summary



Global alignment – Global industry – Global availability – Global market



ERICSSON