

March 19, 2021

National Stock Exchange of India Limited

Exchange Plaza, 5th Floor,
Plot No. C-1, G Block,
Bandra Kurla Complex, Bandra (East)
Mumbai - 400 051.

BSE Limited

Phirozee Jeejeebhoy Towers,
Dalal Street,
Mumbai - 400 001.

Sub: Intimation of Key Discussions in STLescope Tech Talk – Virtual Meet

Dear Sir/Madam,

Further to our intimation dated March 18, 2021 and pursuant to Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we wish to inform you the key points discussed in the Virtual Tech Talk on 19th March 2021.

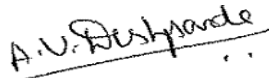
The presentation of the STLescope Tech Talk is attached herewith.

Kindly take the above on your record & acknowledge the receipt.

Thanking you,

Yours faithfully,

For **Sterlite Technologies Limited**

A handwritten signature in black ink that reads 'A. V. Deshpande' with a horizontal line underneath.

Amit Deshpande

Company Secretary & Corporate General Counsel



March' 21

Design a converged fibre enabled 5G-ready network

STLescope

Tech Talk Series
Part 3



Network creation – opportunity landscape



1

**Network creation –
opportunity
landscape**

2

**Role of network
design**

3

**Converged edge
network**

4

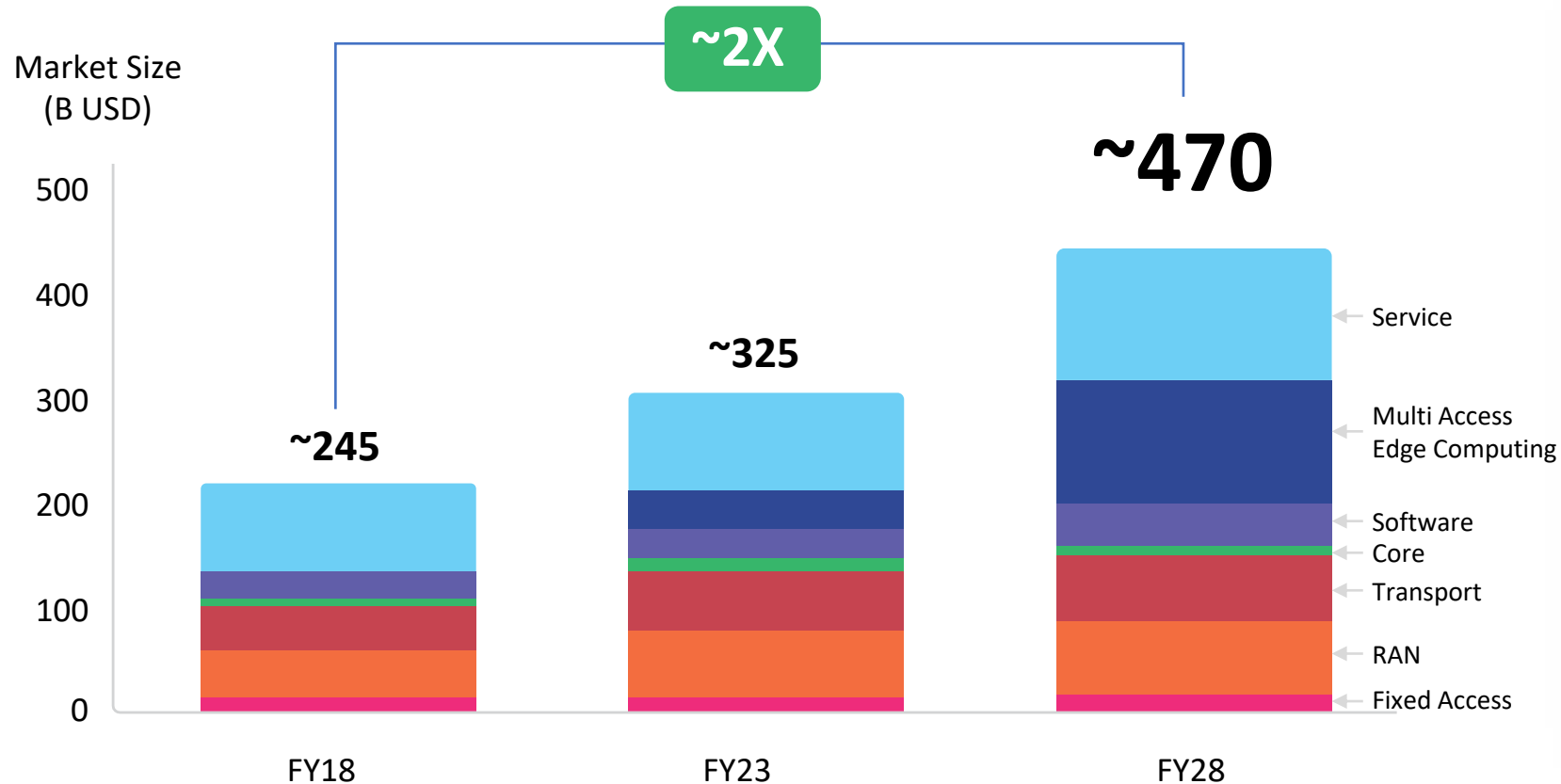
**Key challenges in
the current
network design**

5

**STL way of designing
a converged edge
network**

Network creation outlook is buoyant

Network spends are likely to double



Driving Factors





- Global 5G roll-out over next 8-10 years
- Growing FTTx penetration
- Transition to cloud and software defined networks
- Acceptance of Open standards

And we are seeing acceleration in network investments



Network Creators are Investing Heavily...



<p>May 2020</p>  <p>China mobile to invest \$14 Bn in building digital infrastructure enabling faster 5G Connectivity</p>	<p>May 2020</p>  <p>BT to invest \$12 Bn in building 5G and next generation full fibre broadband across the UK</p>	<p>March 2020</p>  <p>Verizon to invest \$18.5 Bn to accelerate its 5G plans globally</p>	<p>June 2020</p>  <p>Airtel to double its fixed line penetration in next three years</p>
--	---	---	--



... and Attracting Billions

July '20




Jio platforms has raised **\$20.2 Bn** capital from global financial & strategic investors incl. Google & Facebook



<p>May 2020</p>  <p>Microsoft to invest \$15 Bn to accelerate digital transformation in Italy including its first data centre region</p>	<p>March 2020</p>  <p>Google to invest \$10 Bn in US offices and data centres in 2020</p> <p>Sets aside a \$10 billion for India</p>
---	--



Indian Govt. aims to provide 5,00,000 FTTH connections by Sept 2020 (part of BharatNet)



FCC, US launched rural digital opportunity fund worth \$20 bn.

PE INVESTMENT

<p>Feb 2020</p>  <p>KKR in partnership with Telecom Italia to invest \$7-8 Bn in Open Fibre deal</p>	<p>Feb 2020</p>  <p>EQT in partnership with OMERS to invest \$4 Bn to acquire a fibre optic internet access company in Germany</p>
---	---

Source: Telecom lead

Role of network design



1

Network creation –
opportunity
landscape

2

Role of network
design

3

Converged edge
network

4

Key challenges in
the current
network design

5

STL way of designing
a converged edge
network

Network design has a pivotal role to play

It is the most intellectual step in the network creation cycle



Converged Edge Network



1

Network creation –
opportunity
landscape

2

Role of network
design

3

Converged edge
network

4

Key challenges in
the current
network design

5

STL way of designing
a converged edge
network

5G use cases demand a Converged Edge Network

Drivers



Enhanced mobile broadband

- Gigabytes in a second
- Immersive reality
- eSports

Fixed wireline and wireless

- Last-mile technology for fixed and mobile broadband access
- Tower Fiberisation
- High speed broadband for all

Massive Internet of Things

- Smart cities, homes and buildings
- Multiple vertical industries
- Wearables

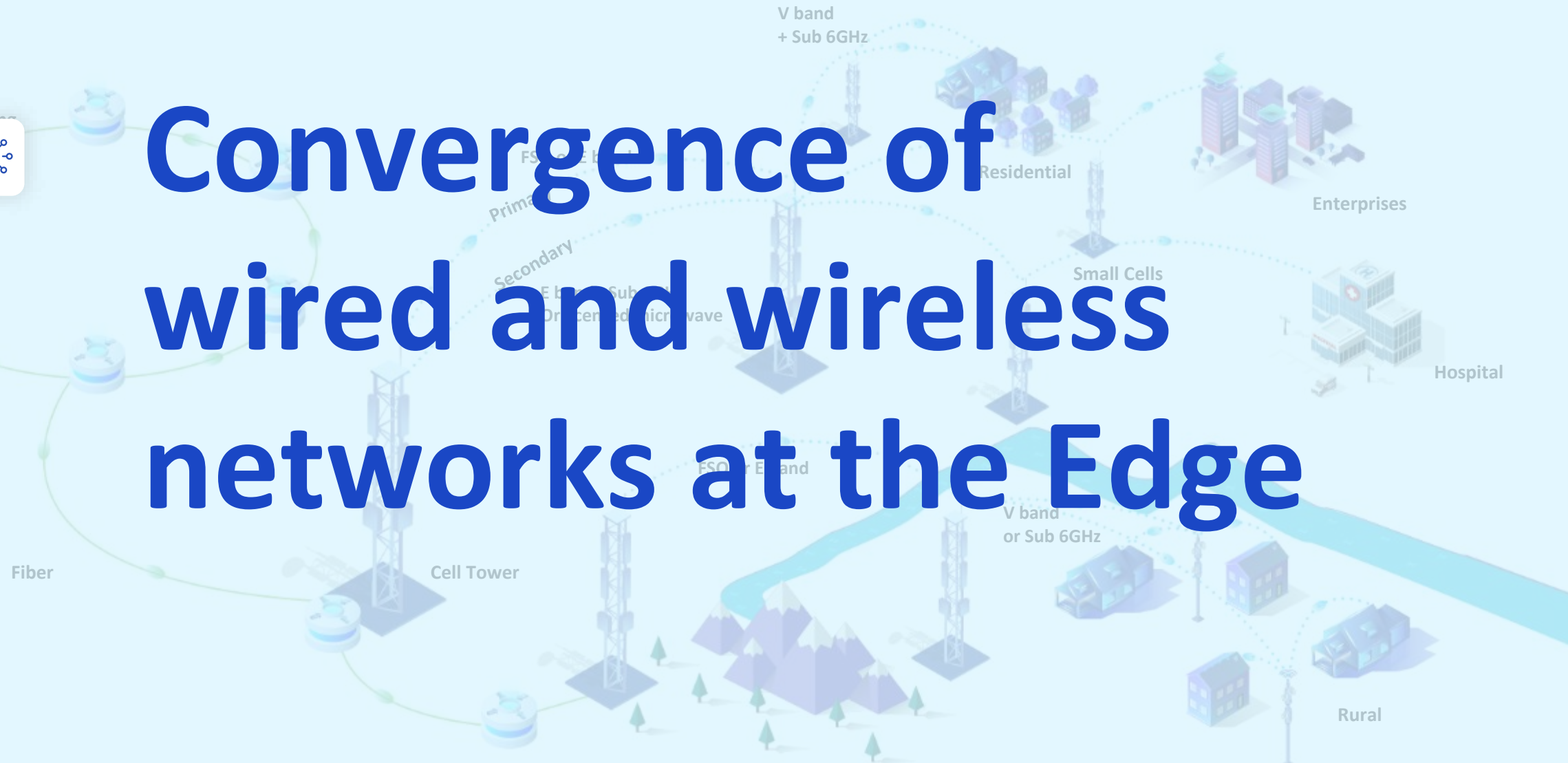
Ultra-reliable, low- latency communications

- Autonomous driving
- Industrial and vehicular automation
- Remote Surgery

Convergence of wired and wireless networks at the Edge



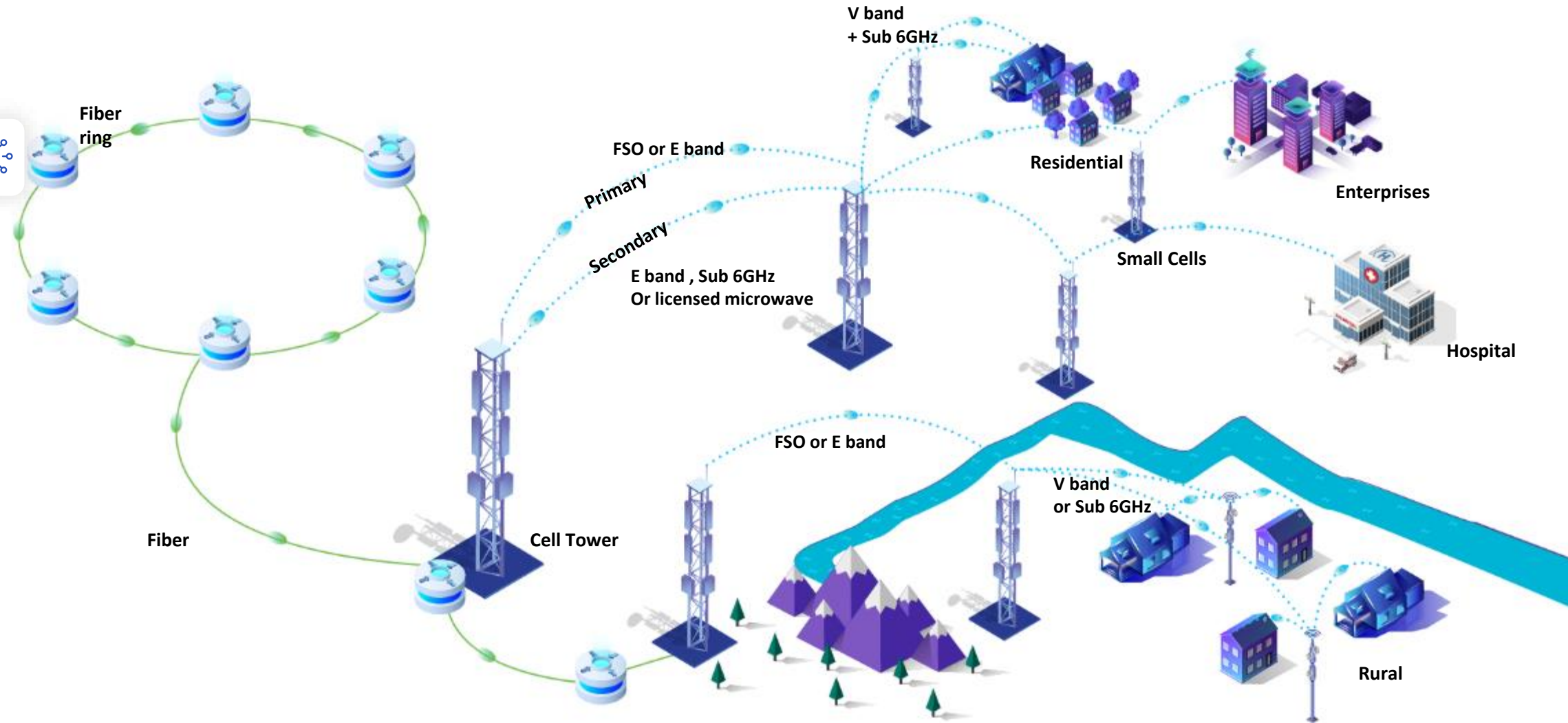
Definition



How will a “Converged Edge Network” look like?



Definition



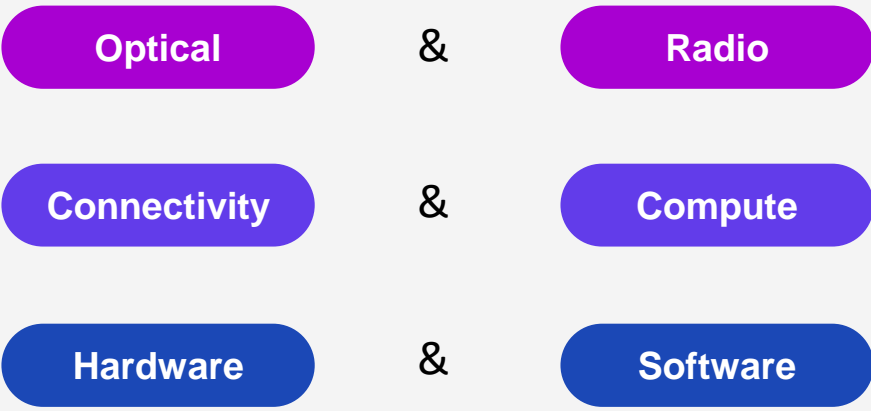
Characteristics of a Converged Edge Network



Characteristics

- Close to the Edge
EDGE
- Seamless Wired & Wireless
CONVERGED
- Enhanced Experience
COMPUTE
- Agile, Scalable, Agnostic
DISAGGREGATED

At the Edge



What world expects from a Converged Edge Network

All kind of digital networks
Converged at edge



Data Centre

Enterprise



FTTH

Requires **optimal mix** of
design considerations

SCALE

LATENCY

AGILITY

UPTIME

COST_{PER GB}

EXPERIENCE



Design Considerations



SLAUCE optimization is the key to a Converged Edge Network



Design Considerations

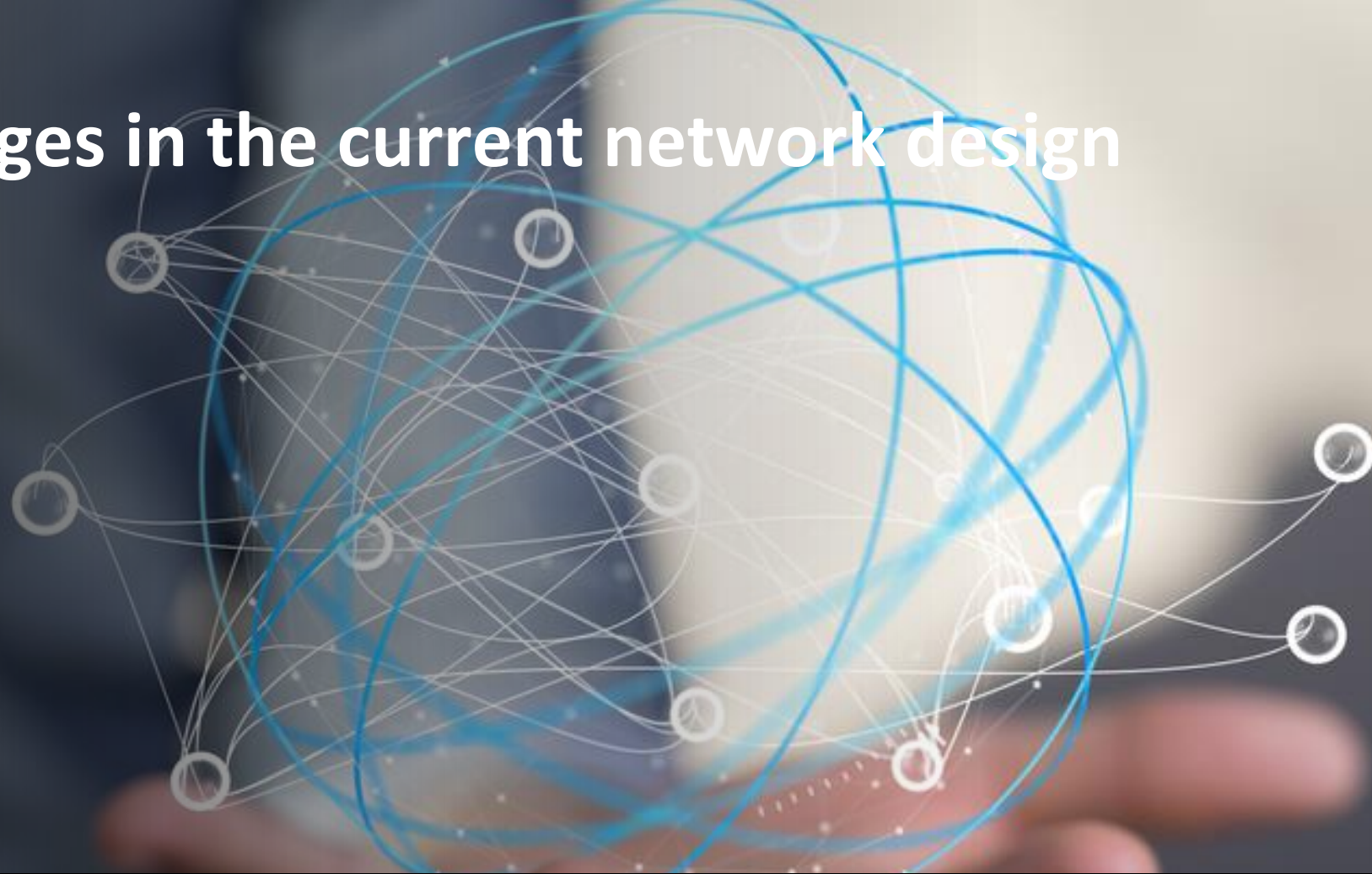
PARAMETER	5G	FTTH	Enterprise	Data Centre	IOT
SCALE	●	●	●	●	●
LATENCY	●	●	●	●	●
AGILITY	●	●	●	●	●
UPTIME	●	●	●	●	●
COST PER GB	●	●	●	●	●
EXPERIENCE	●	●	●	●	●

Degree of Importance

Digital Mega trends are shaping the future of DATA NETWORKS



Key challenges in the current network design



1

Network creation –
opportunity
landscape

2

Role of network
design

3

Converged edge
network

4

Key challenges in
the current
network design

5

STL way of designing
a converged edge
network

SLAUCE is key, but design challenges need to be solved

KEY CHALLENGES

NETWORK IMPACT

1	DISINTEGRATED APPROACH		Design gap among different layers
2	INCREMENTAL PLANNING		Inadequate resource dimensioning
3	MULTI PHYSICAL LAYER		Inefficient resource utilization
4	EXECUTION CONSTRAINED PLANNING		Unoptimized Planning
5	POOR NETWORK INVENTORY DATABASE		Unoptimized usage of existing asset

STL way of designing a Converged Edge Network



1

**Network creation –
opportunity
landscape**

2

**Role of network
design**

3

**Converged edge
network**

4

**Key challenges in
the current
network design**

5

**STL way of designing
a converged edge
network**

Solving network design challenges

STL way of network design - iCORE

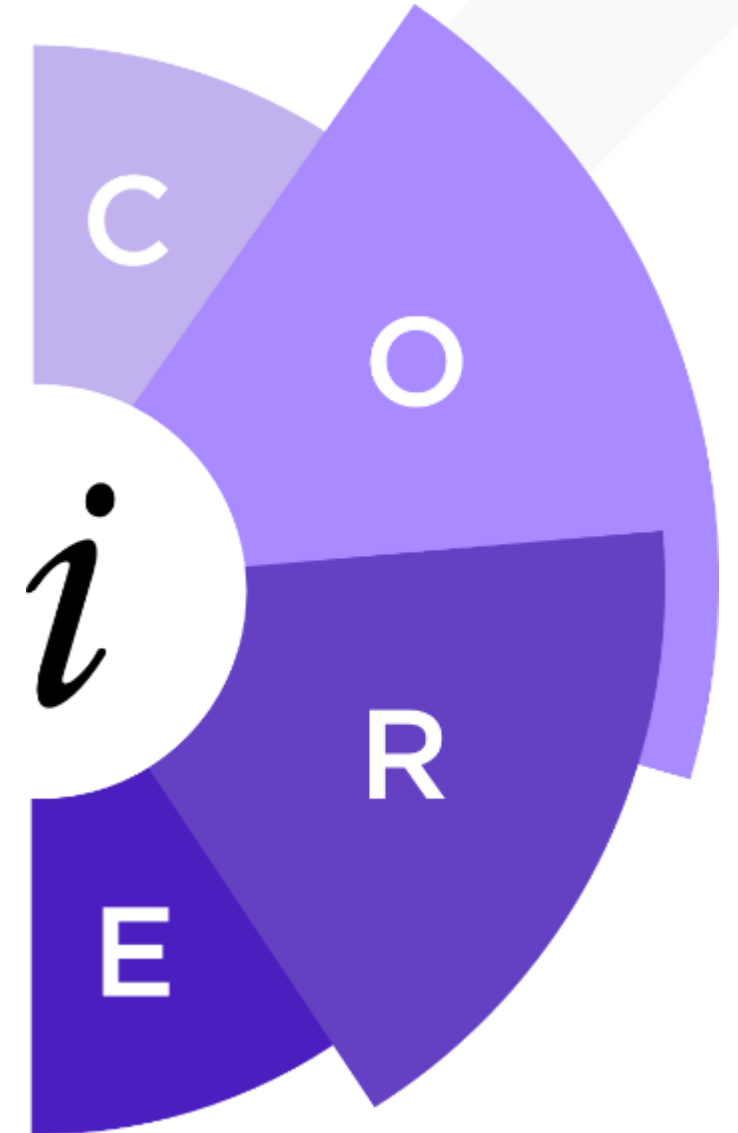
I Integrated

C Centralized Planning

O One Backbone

R Re-Use Existing Infra

E Everything Survey



STL

C

O

i

R

E

PRESENTING STL *i*CORE

A network design approach for designing
VERY COMPETENT NETWORKS OF FUTURE

Integrated design across all 3 layers

Integrated

Disaggregated approach..



Team A



Application Layer



Team B



Logical Layer



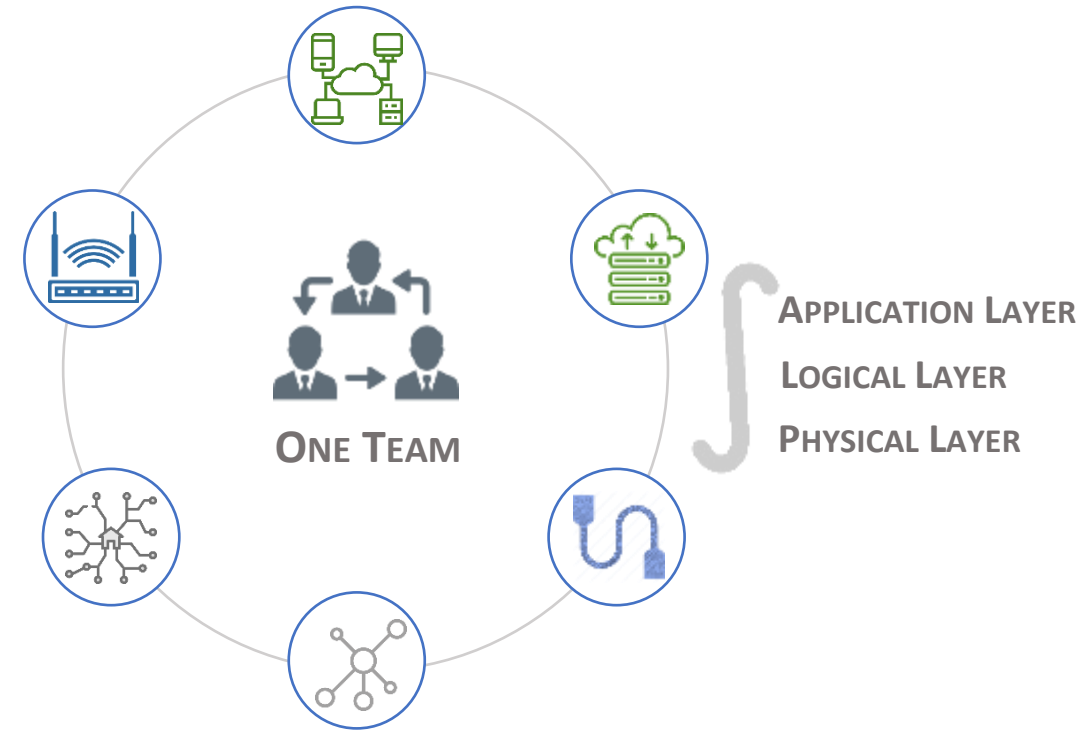
Team C



Physical Layer



E2E Integrated Play across 3 layers...



Centralized network planning

Transition from decentralized

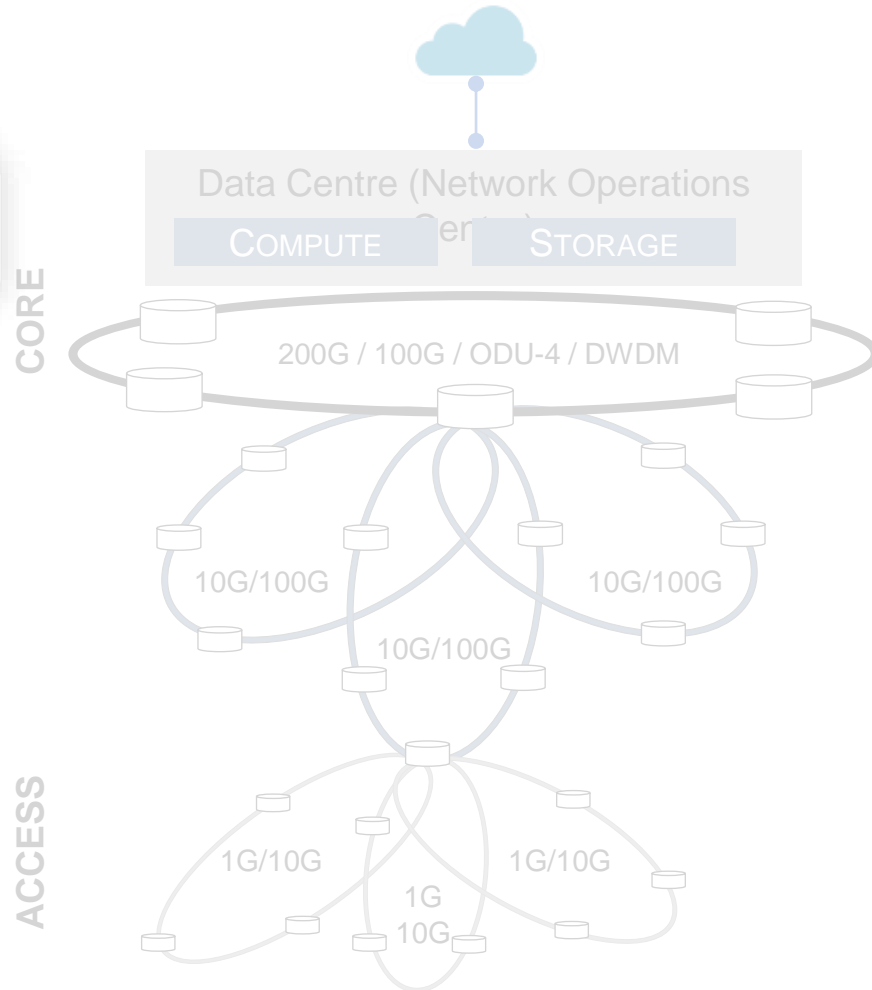
I

C *Centralized Planning*

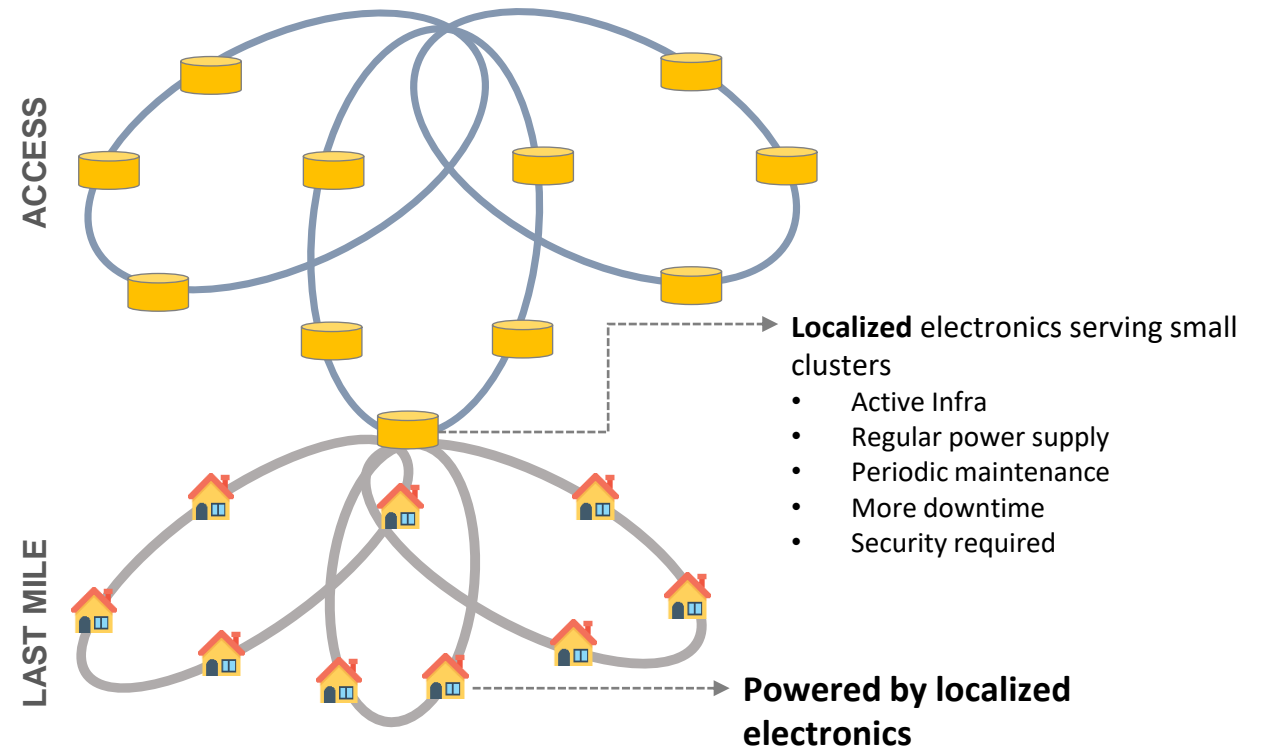
O

R

E



Decentralized network planning



DECENTRALIZED to CENTRALIZED

Centralized network planning

- Transition from decentralized

I

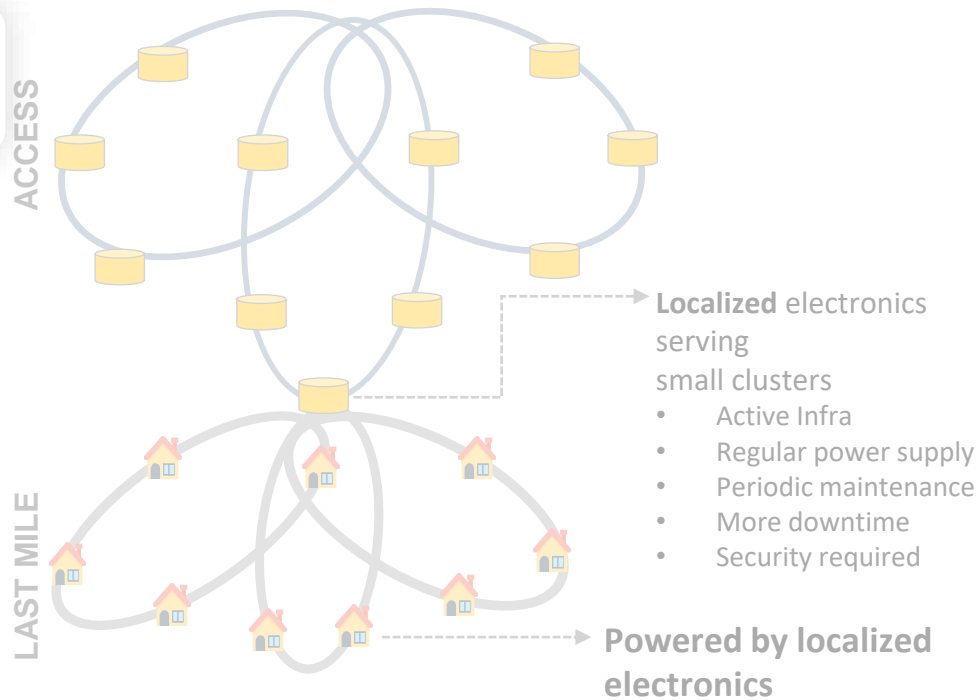
C Centralized Planning

O

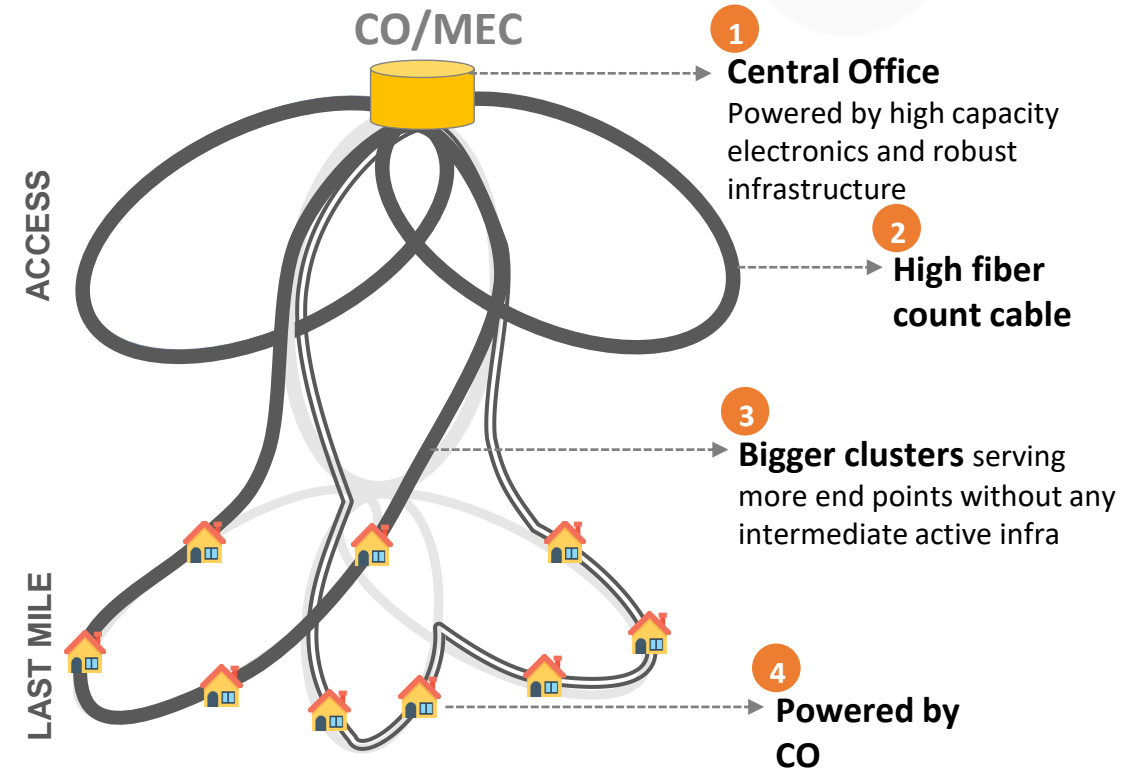
R

E

DECENTRALIZED NETWORK PLANNING



Centralized network planning



*CO – Central office

I

C Centralized Planning

O

R

E

STL Indirapuram Cluster

A live use case for

Decentralized Vs Centralized approach

A live example- STL Indirapuram Cluster

Decentralized approach



I

C Centralized Planning

O

R

E

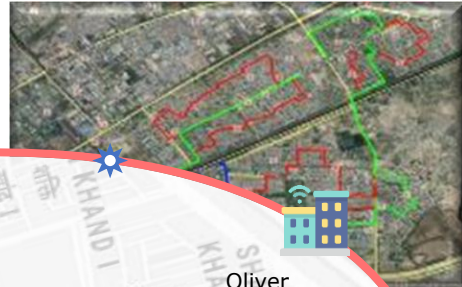
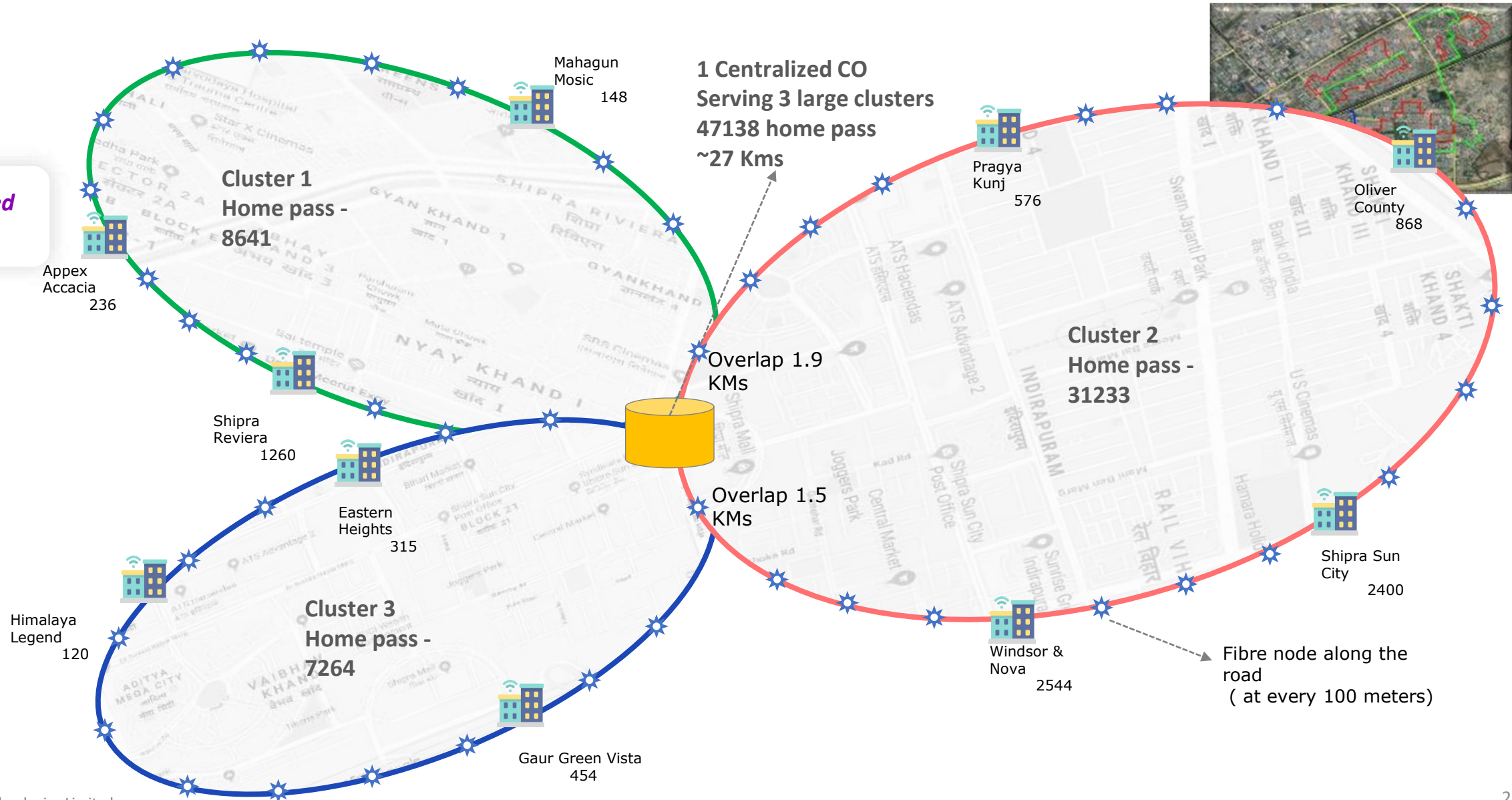


A live example- STL Indirapuram Cluster

Centralized approach



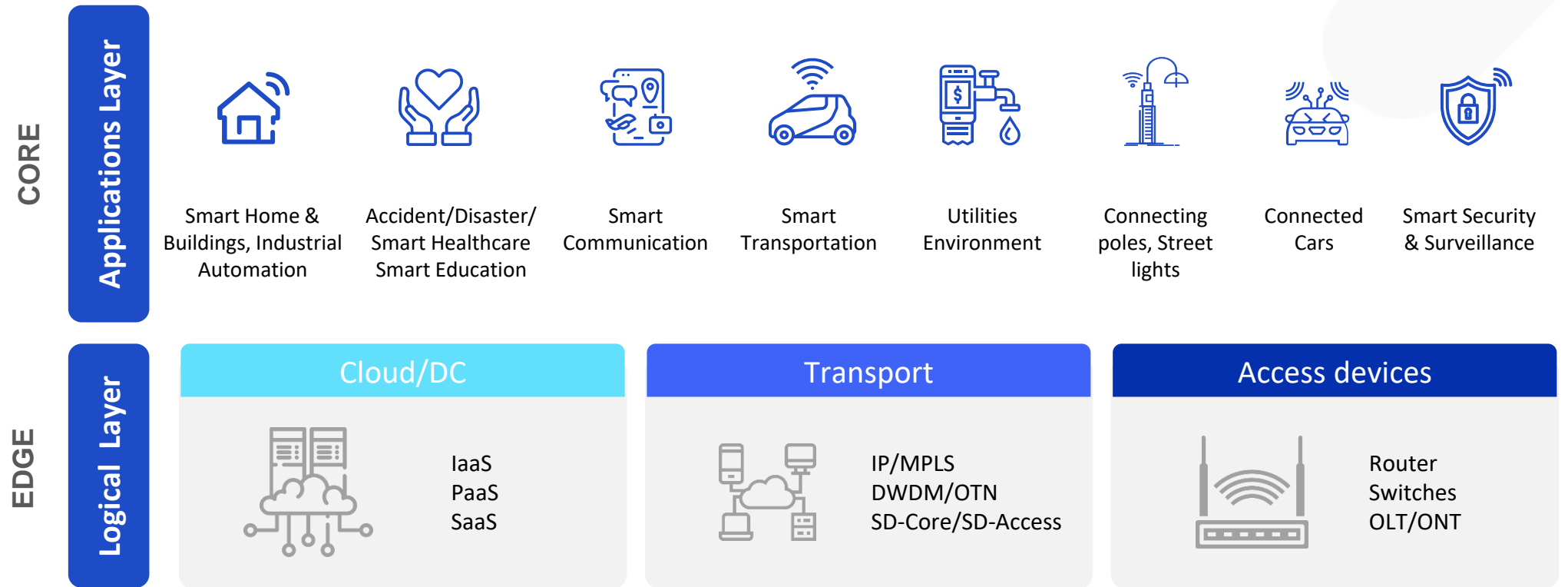
I
C Centralized Planning
O
R
E



One integrated physical backbone to cater all digital needs



I
C
O *One Backbone*
R
E



Future Proof highly scalable Physical layer
High fibre count backbone

Re-use of existing infra for network enhancement



Service Intelligence

- Leverage already laid duct utilities
- Tracking of unused passive infra
- Surveillance of active and passive equipment



Robust information database

- Centralized database for passive and active infra deployed
- Extensive use of GIS
- Geo tagging of network resources



Optimize active & passive elements

- Consideration of centralize Vs decentralize planning
- Optimize space and power need by proper assessment
- Less electronics to reduce overall cost

Leveraging existing infra will optimize scale and reduces overall cost

I

C

O

R *Re-Use Existing Infra*

E

I

C

O

R

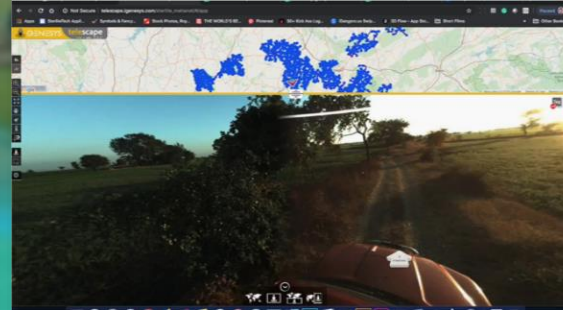
E Everything Survey

TECH-ENABLED SURVEY TECHNIQUES

Drone led survey



Street view survey



LIDAR survey



Ancillary technologies

Advanced video analytics, Digital measurement tool , Soil strata prediction tools, Iterative design, based on info collected

iCORE in action – Case Studies



Mahanet – Rural broadband connectivity

First ever
BharatNet project to use MPLS design

19,000 route Kms optical connectivity
in rugged, arid and the hottest (~50°C) terrains

**Future proof design for enabling
5G and FTTx**

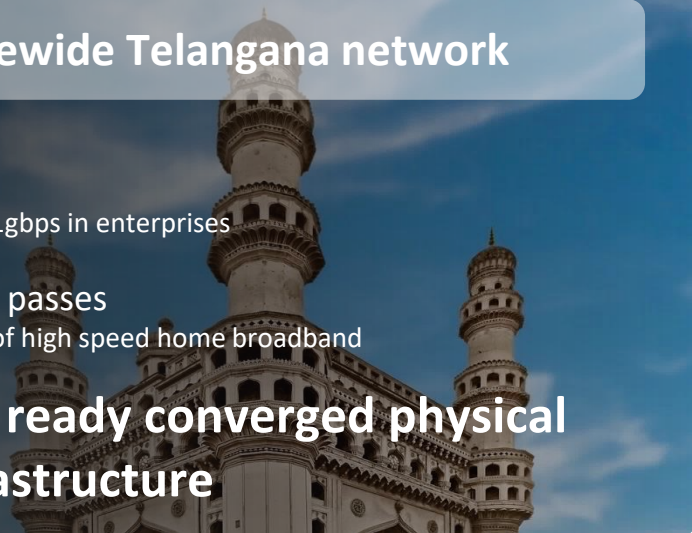


Futuristic statewide Telangana network

High speed broadband
Upto 20mbps in homes and 1gbps in enterprises

4.5 million fibre home passes
providing ubiquitous access of high speed home broadband

**Design a future ready converged physical
and virtual infrastructure**

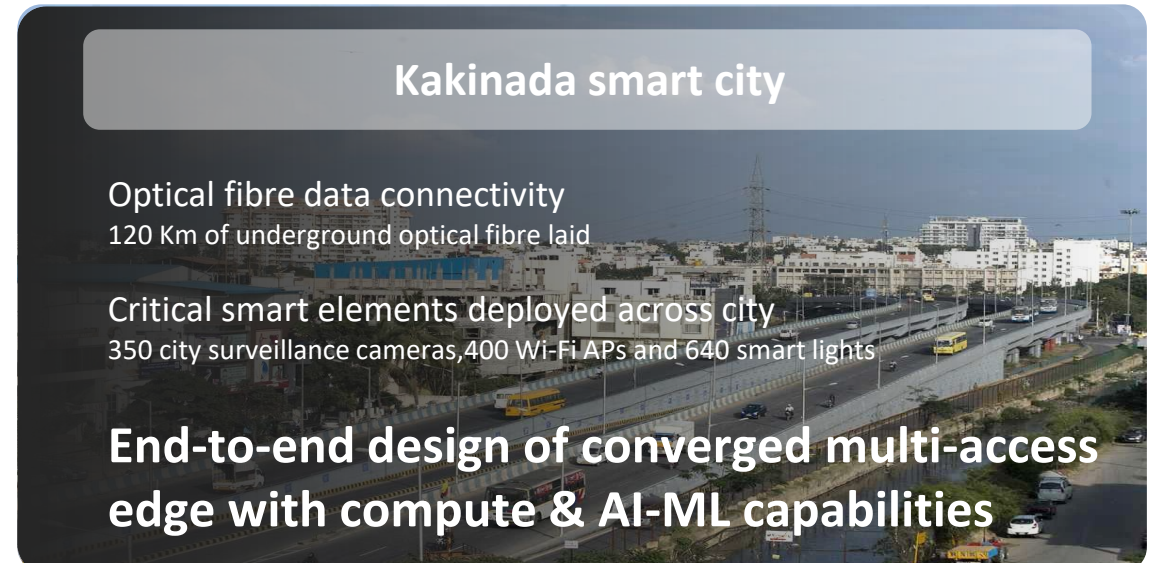


Kakinada smart city

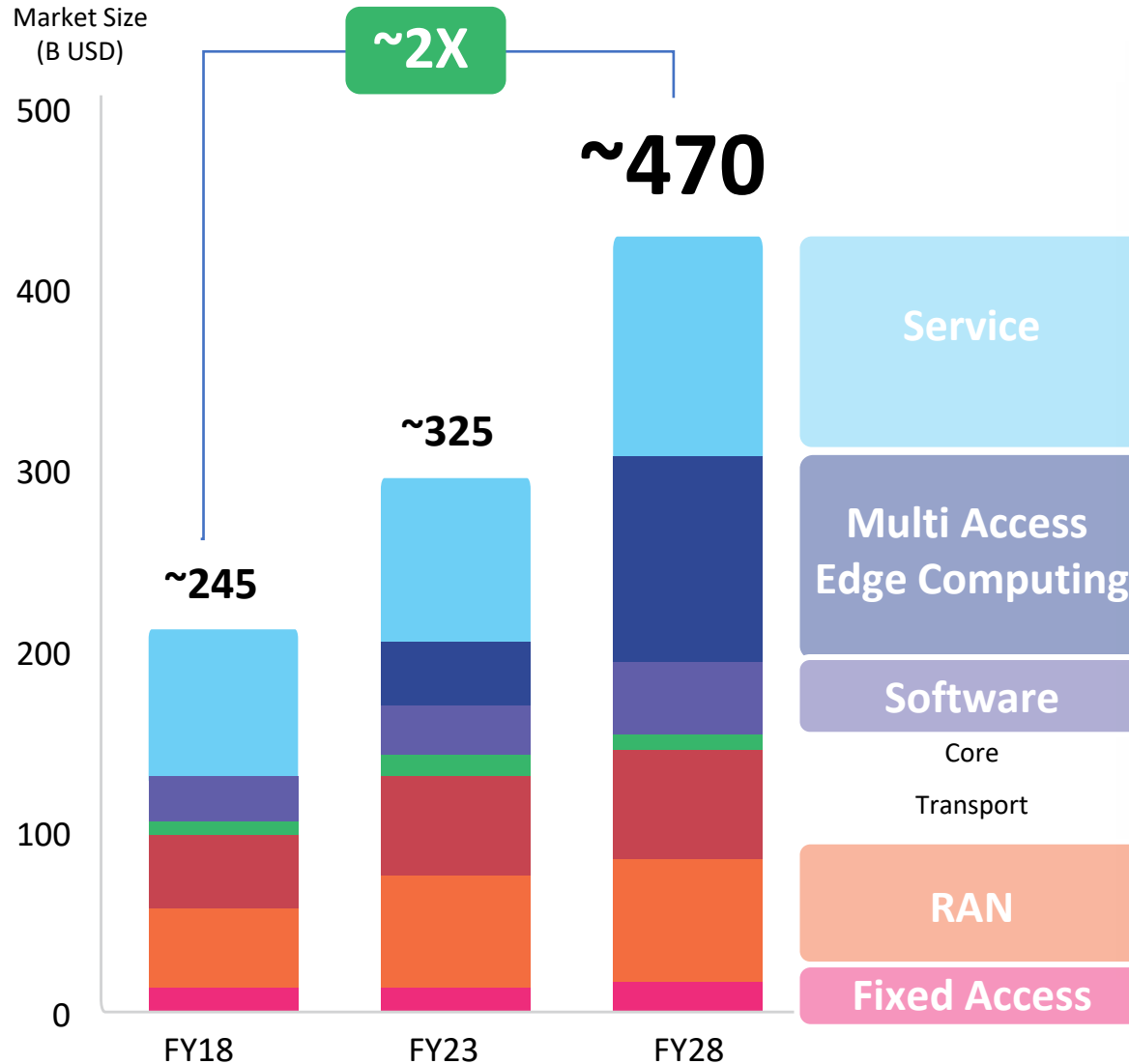
Optical fibre data connectivity
120 Km of underground optical fibre laid

Critical smart elements deployed across city
350 city surveillance cameras, 400 Wi-Fi APs and 640 smart lights

**End-to-end design of converged multi-access
edge with compute & AI-ML capabilities**



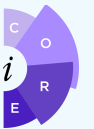
STL expertise in network services



STL has end to end solutions across the value chain

Design, Build, Manage

Powered by a world class partner ecosystem



Converged Platform for Wireless and Wireline networks

Modern SaaS based platforms

AI-ML enabled solutions

dTelco **Intelliza**

Cloud native, open vRAN solutions

Garuda **WiFi6**

Programmable FTTx and optical connectivity solutions

FTTx mantra **stellar**
One Solution. Countless Opportunities



beyond tomorrow