

Amdocs Open Networks

COVID-19 analysis &
Rural Wireless Initiatives

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Agenda

- 1 Amdocs Open Networks overview
- 2 COVID-19 impacts on networks
- 3 Rural Wireless Network Initiatives
- 4 How can Amdocs help?





Consumer Experience & Monetization

Lead a digital-first brand
Expand and accelerate your portfolio of products
Capture every revenue opportunity



Media & Digital Services

Deliver premium content
Leverage partner ecosystem
Frictionless user access and experience



Enterprise & Connected Society

Digitize B2B sales & care
Zero touch ordering & fulfillment
Business & NG connectivity services



Open Cloud Networks

Hybrid network operation
Virtual networks
Autonomous operations
Network rollout
Open 5G



New Domains & Disruption

Enter new domains to drive growth and disrupt the industry to enhance loyalty and brand value



Services & Hybrid Operations

Experience Design & Development

Cloud Services

Data Management & Intelligence

Delivery services, IT velocity & development (ADM Plus)

Digital Hybrid Operations

Amdocs Open Network Overview

Enabling the era of Open Cloud Networks



Accelerate & optimize network rollout

- Network Design & Planning
- Integration & Commissioning
- Assurance & Mitigation
- Acceptance
- Optimization



Automate service & network operations

- Service Design & Onboarding
- E2E Service Orchestration
- Network / NFV Orchestration
- Cross-domain Hybrid Inventory
- Assurance & Autonomous Ops.



Realize & manage 5G networks

- 5G Slice Management
- 5G Edge Management
- 5G PEN* Management
- 5G RAN Optimization & Analytics
- 5G Network Rollout

Consumer Multi-play

4G/LTE

5G

Enterprise/ B2B

ONAP

CBRS

SD-WAN

Fixed

ORAN

NaaS

Fiber

5G Open Core Network

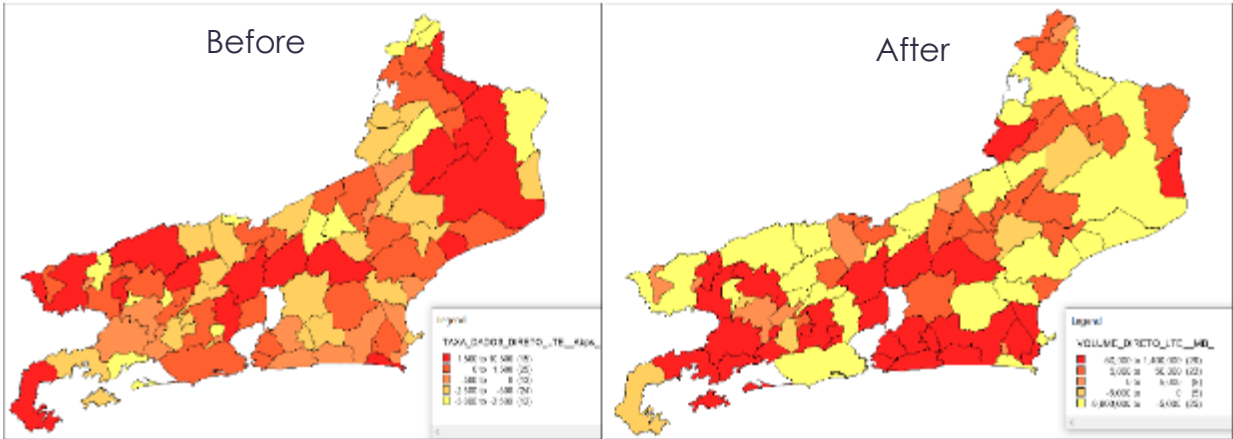
TIP

Cloud

COVID-19 impact on our customers' networks

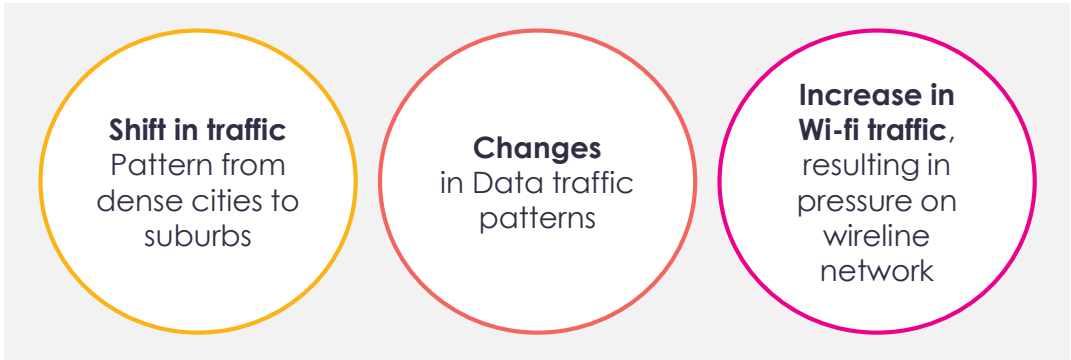
KPI	AT&T	T-Mobile	Verizon
Voice traffic	<div><div></div>44%</div>	<div><div></div></div>	<div><div></div>10%</div>
LTE data traffic	<div><div></div>4%</div>	<div><div></div>6%</div>	
Gaming traffic		<div><div></div>45%</div>	<div><div></div></div>
Wi-Fi Offload	<div><div></div>88%</div>		
SMS	<div><div></div>41%</div>	<div><div></div>26%</div>	

LTE Data volume difference by zip codes



Traffic shift- LATAM operator

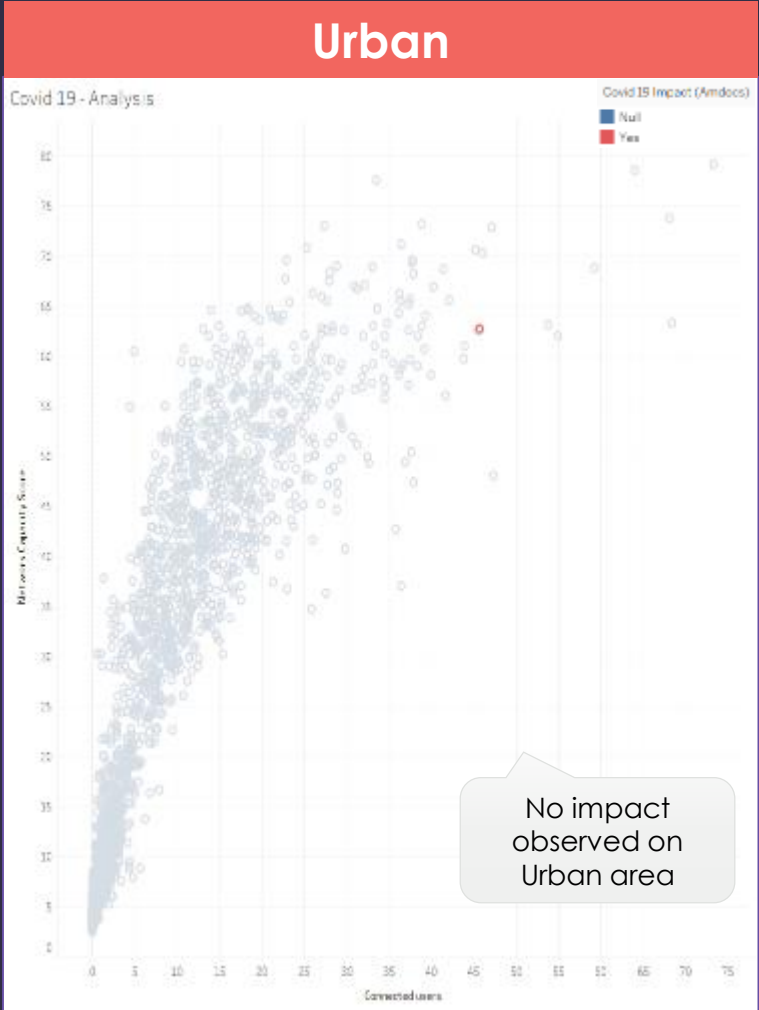
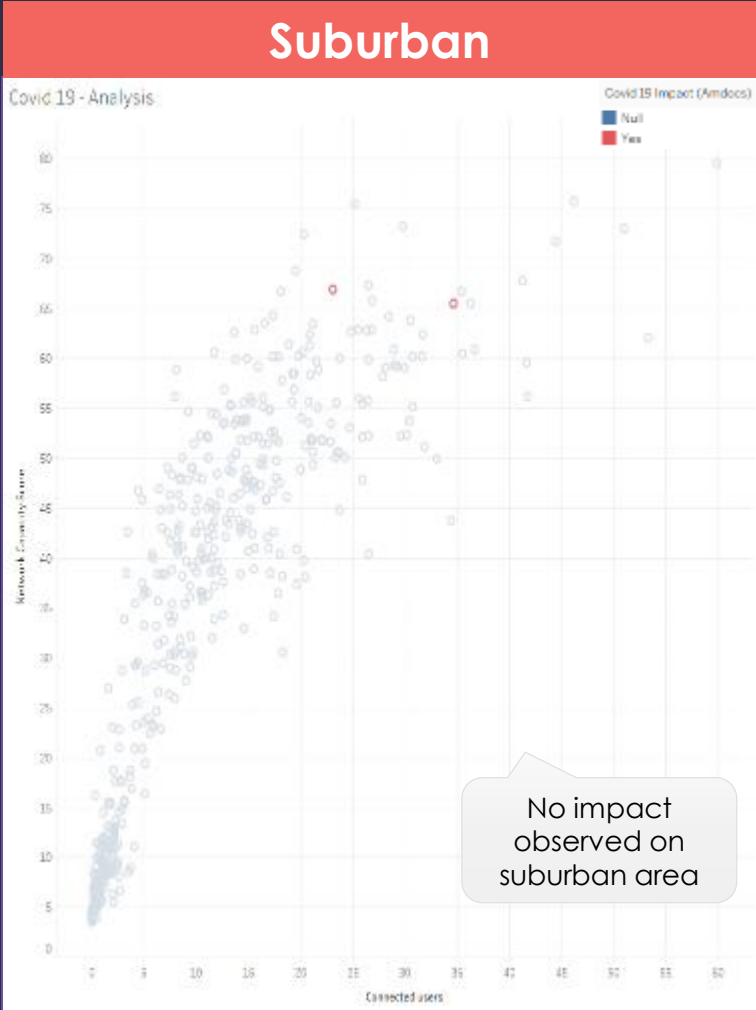
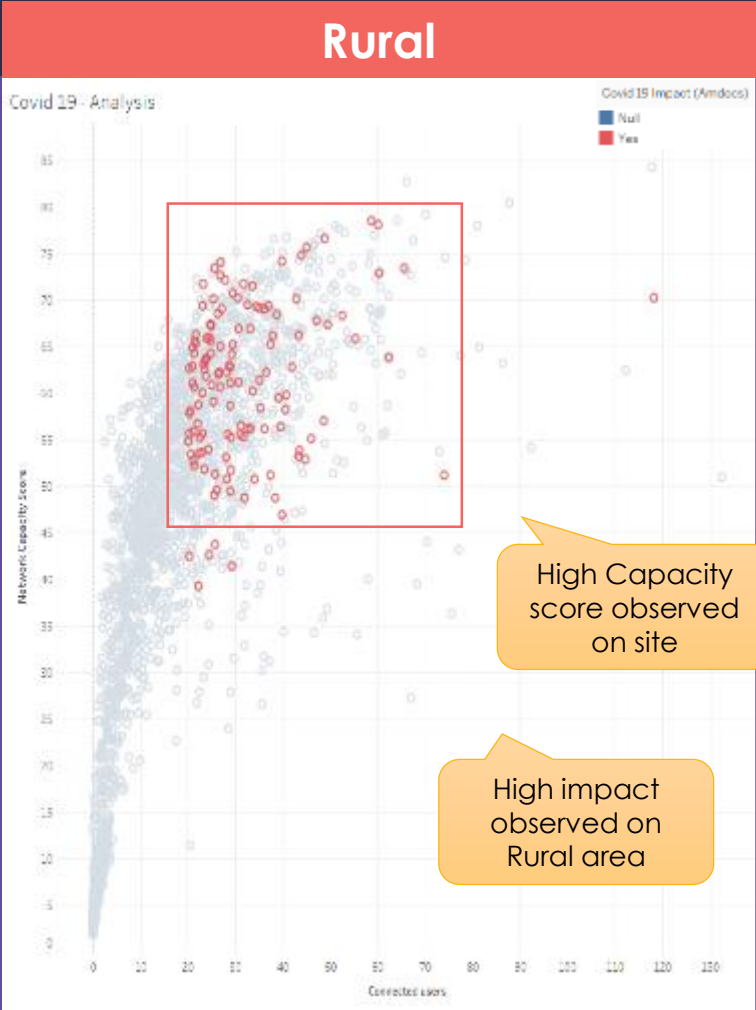
Impact



What needs to be done

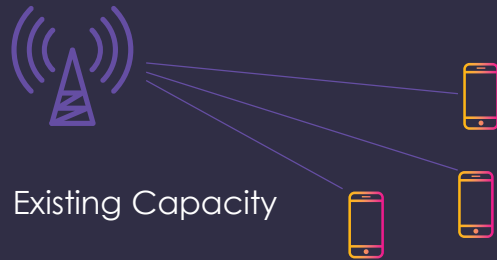


Capacity Score Analysis on Network (Covid19)



Providing automation analytics for traffic changes

Learn more about Amdocs Smart Capacity and Actix solution

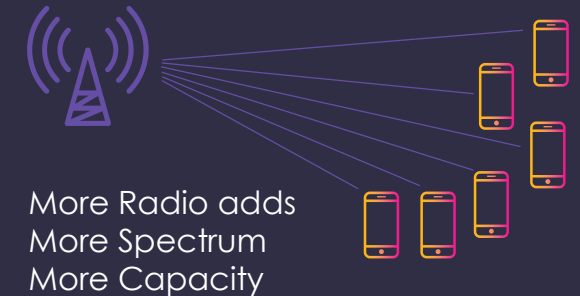


Analyze sudden increase in usage using metrics

Recommend strategy to improve capacity

Forecast timelines for capacity exhaustion

Prioritized investment based on VIP locations



Amdocs Smart Capacity solution for quick analysis

Short term opportunity with Planning team



- Free Demo licenses with Actix solution
- Demo automated capacity assessment
- Provide network planning and strategy for growth
- Prioritize VIP areas for immediate capacity adds

Long term opportunity with Planning team (& CFO)

- Multi-year automated capacity assessment
- CapEx planning and forecasting

COVID-19 telecom infrastructure challenges for impacted business

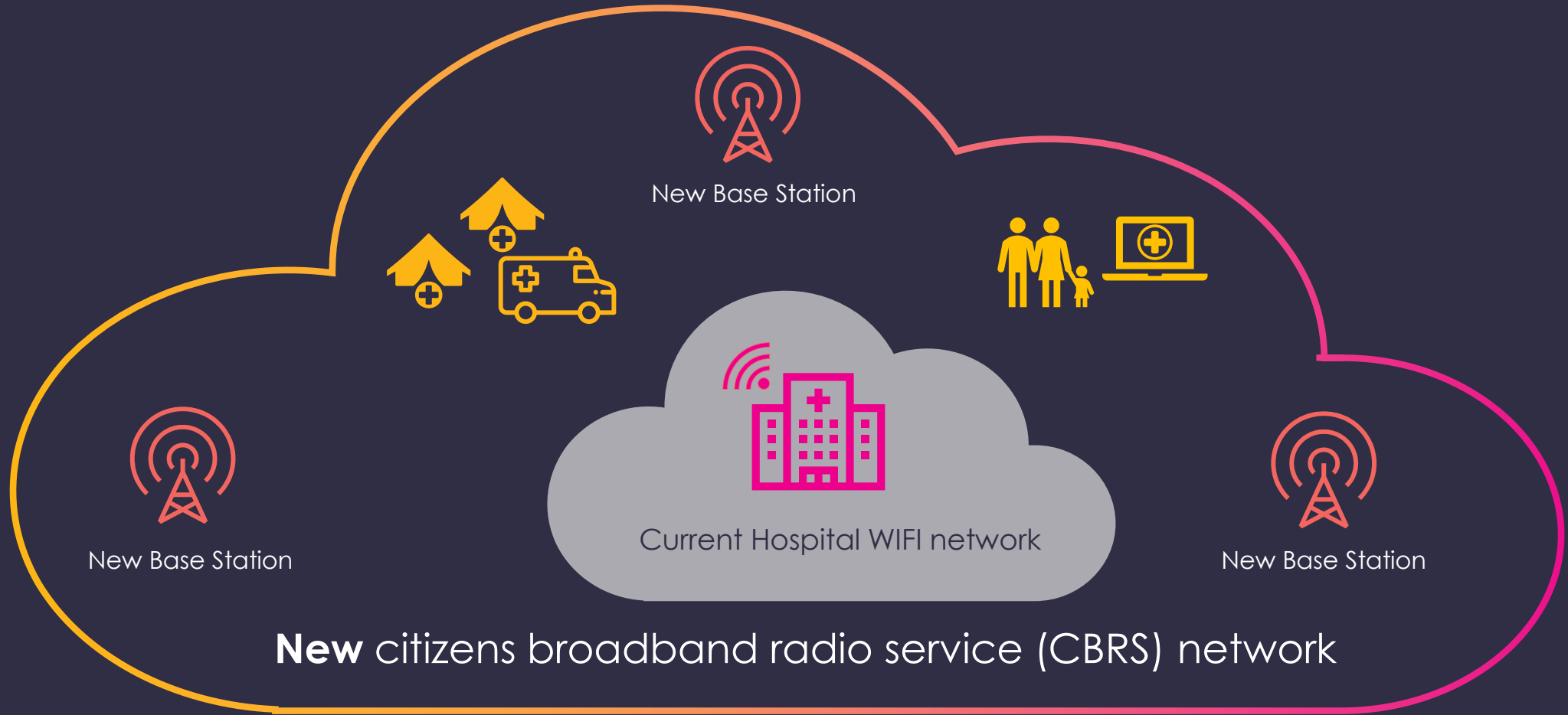
For Patients



For Hospitals



Proposing fast and reliable CBRS-based wireless network solution for COVID-19 challenges



Rural Wireless Network Initiatives

FCC Rip/Replace

FCC \$1 billion fund to be used mainly for “permanently removing”, “replacing” and “disposing” Huawei or ZTE gear and equipment (other vendor may also be prohibited in the list from the FCC in the future)



Protecting existing Part 90 devices

FCC mandates all part 90 device license must transition to part 96 CBRS band 48 by October 17th

Devices must connect to a SAS to operate in CBRS band 48 in order to operate in the 3550 to 3700 MHz frequency

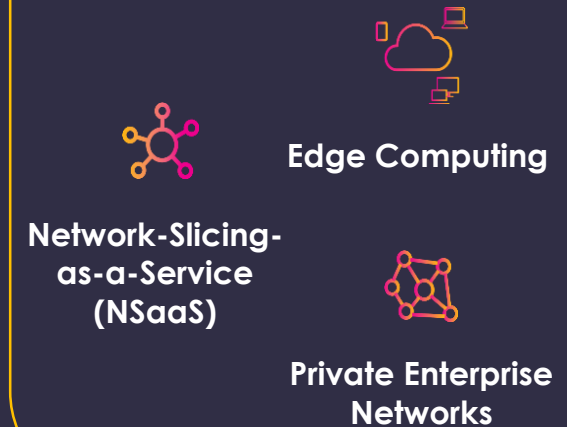


Future proof to LTE and evolving to 5G

Technology Evolution:



5G Key Enablers:

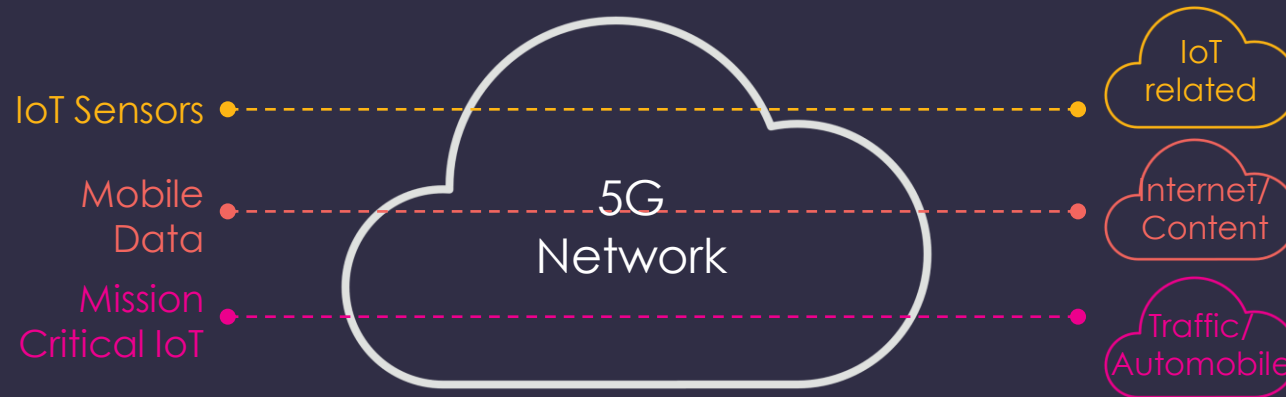


5G Network Slicing in the Future

A network slice provides a set of network capabilities and performance level that are tailored for a set of service types;

A network slice may be dedicated to a particular service type or customer/partner;

Operators will benefit from a more flexible sliced network design to meet specific services and customers/partners requirements

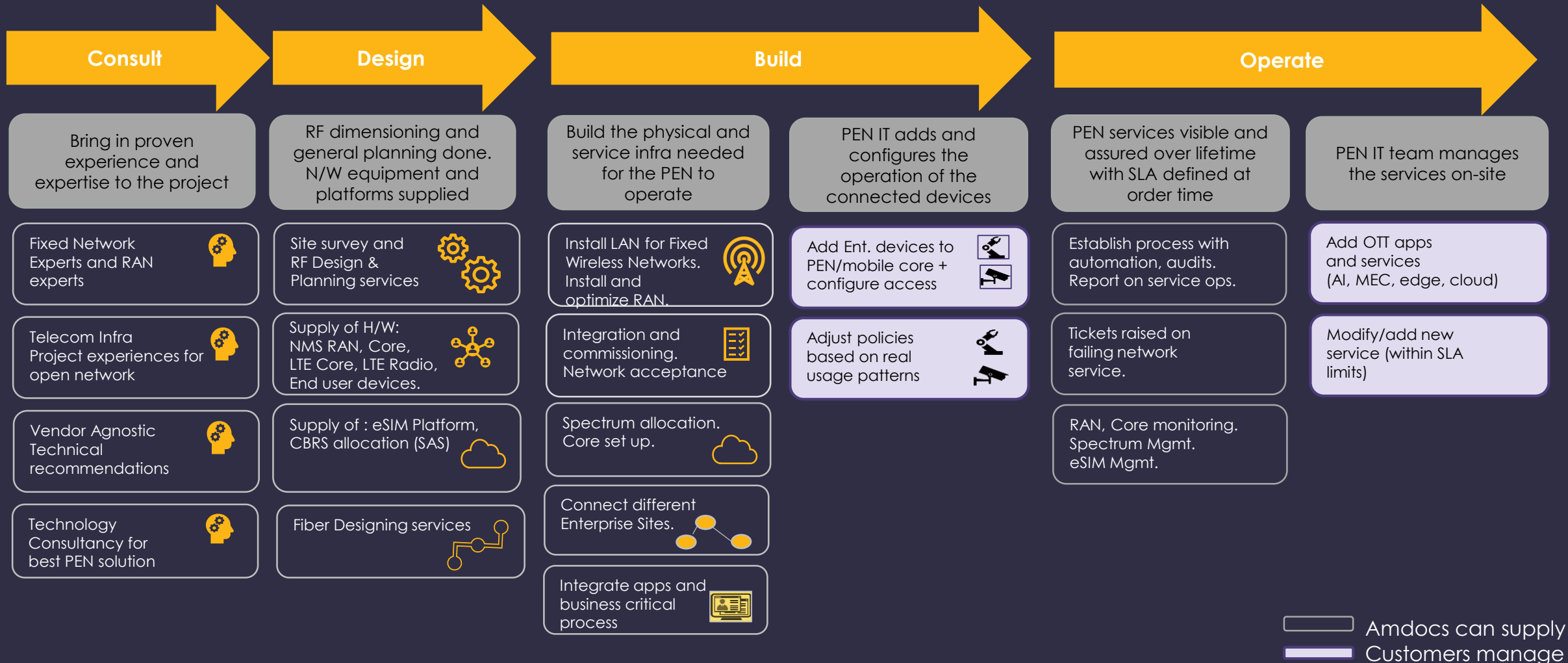


Network Slicing Benefits

- Optimal resources utilization
- Efficient QoE diversity support
- Built-in NaaS Capability
- Higher Agility
- Trial/Fail fast
- Faster TTM
- Logical network isolation

Building wireless network in a box for service providers

Bringing expertise, network components and services to quickly deploy wireless network



Thank You

For more information
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