

Anil Rao

Principal Analyst
Analysys Mason

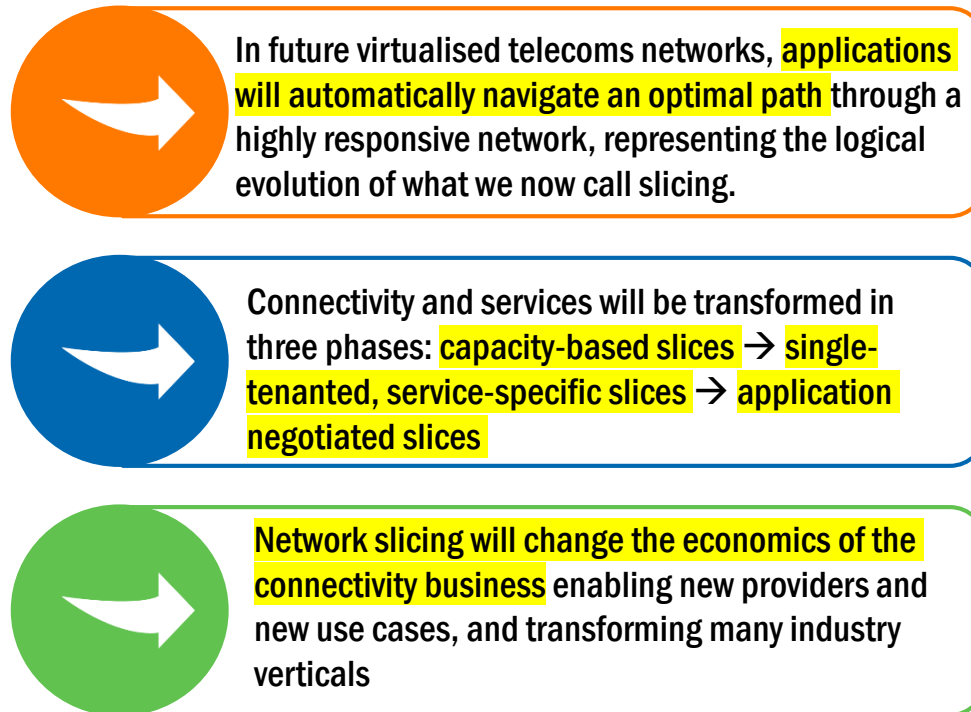


MWC 2018

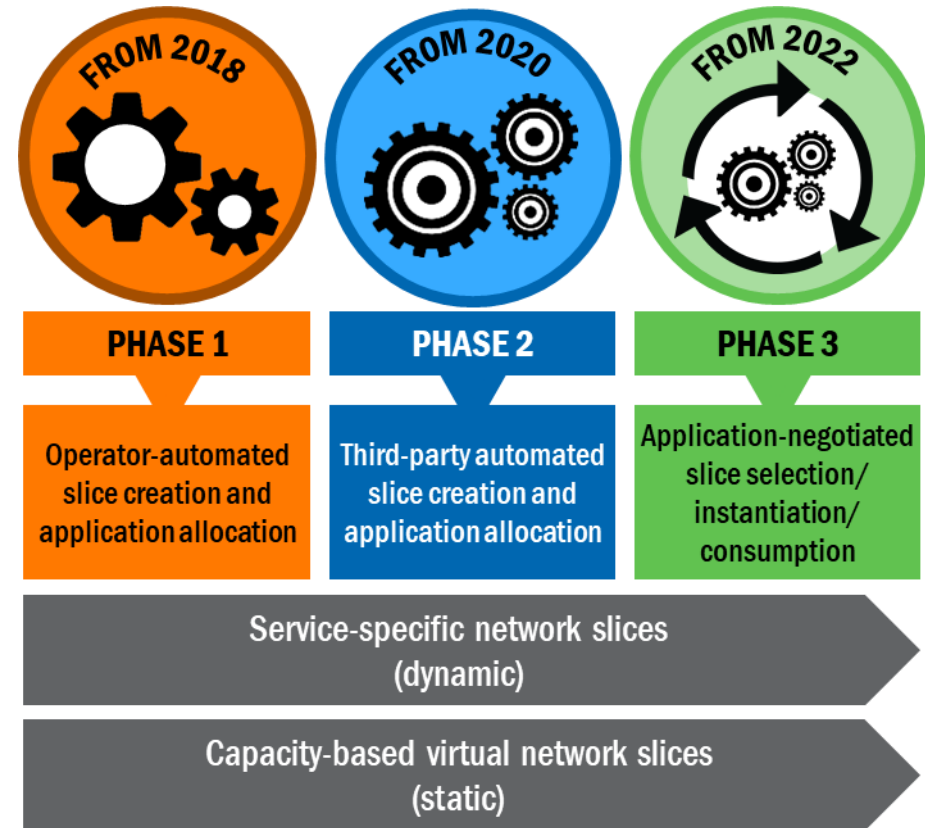
NETWORK SLICING: THE FUTURE OF CONNECTIVITY IN A 5G AND FIBRE ERA

ANIL RAO - PRINCIPAL ANALYST

Key takeaways

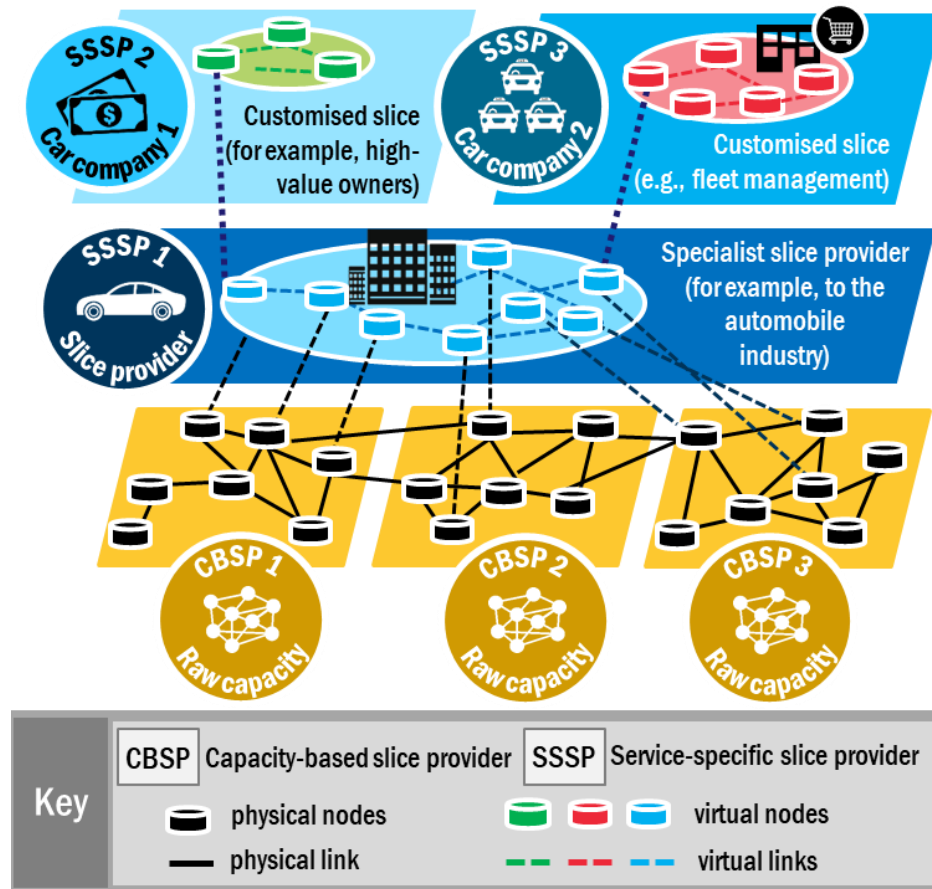


The network of the future will be sliced on different levels to support a wide range of service models and highly flexible resource usage

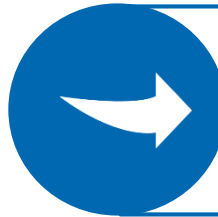


Network slicing provides an end-to-end logical (virtual) network with dedicated capacity and/or other service-specific characteristics

Hierarchy of physical/logical network slicing, shown using an example from the automobile industry



Virtualisation will enable 'slicing' of the physical network into separate virtual networks, providing differentiated latency, performance, reliability, availability tuned for each use case/service



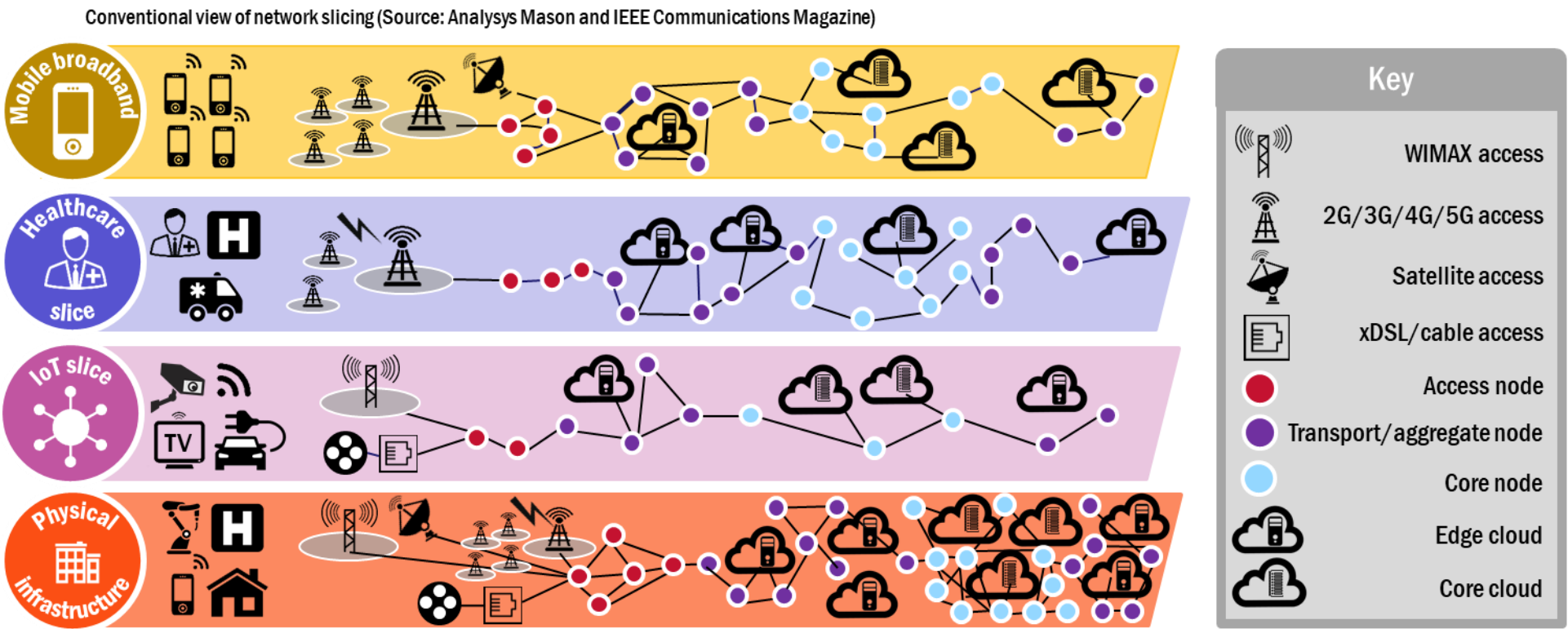
Network slices are end-to-end, virtualised connections across multiple network domains, including fixed/mobile access, transport and data centres



Network slices are created on-demand and independently controlled, managed and customised, with a degree of isolation previously achievable only with dedicated physical networks.

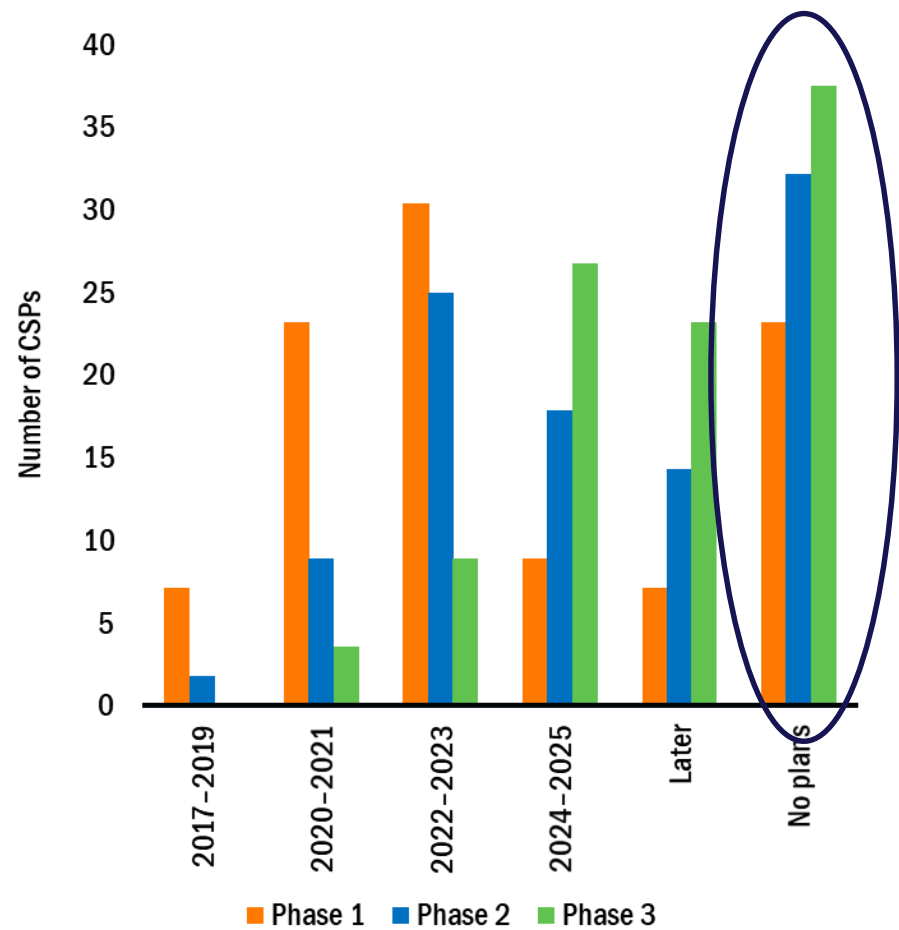
Source: Analysys Mason

There is little consensus on how many slices will be created, but the industry should plan for a large number, crossing many CSPs' networks



It is essential that established operators start to build their strategy now

When, if at all, would you anticipate deploying each of the network slicing stages?¹



According to the results of a survey conducted by Analysys Mason, 23% have no plans to do slicing at all, while a further 9% will stay at Phase 1, and a further 6% at Phase 2

Operators staying at Phase 0 or 1 will find their revenues harder to defend and their share of the value chain diminished, unless they can invest in physical infrastructure at sufficient scale

For NFV/SDN, 52% of operators say they have not identified concrete business gains beyond cost reduction. Slicing is a key way to derive more value from their virtualisation investments.

¹ Source: Analysys Mason's survey of 56 Tier 1 CSPs worldwide, November 2017

Contact details

Anil Rao

Principal Analyst

Anil.Rao@analysysmason.com

Boston

Tel: +1 202 331 3080
boston@analysysmason.com

Cambridge

Tel: +44 (0)1223 460600
cambridge@analysysmason.com

Dubai

Tel: +971 (0)4 446 7473
dubai@analysysmason.com

Dublin

Tel: +353 (0)1 602 4755
dublin@analysysmason.com

Hong Kong

Tel: +852 3669 7090
hongkong@analysysmason.com

London

Tel: +44 (0)20 7395 9000
london@analysysmason.com

Madrid

Tel: +34 91 399 5016
madrid@analysysmason.com

Manchester

Tel: +44 (0)161 877 7808
manchester@analysysmason.com

Milan

Tel: +39 02 76 31 88 34
milan@analysysmason.com

New Delhi

Tel: +91 124 4501860
newdelhi@analysysmason.com

Oslo

Tel: +47 920 49 000
oslo@analysysmason.com

Paris

Tel: +33 (0)1 72 71 96 96
paris@analysysmason.com

Singapore

Tel: +65 6493 6038
singapore@analysysmason.com

Stockholm

Tel: +46 709 211 719
stockholm@analysysmason.com



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Anil Rao – Principal Analyst, Telecom Software and Networks, Analysys Mason



Anil Rao, Principal Analyst, Telecoms Software and Networks, Analysys Mason: With over 15 years' experience in the telecommunications industry, Anil has broad ranging experience in designing and implementing telco network and operations solutions for both fixed and mobile operators. In his current stint as an industry analyst, Anil focuses on how network virtualisation, 5G and IoT will impact operations and enables telcos and industry players explore new business models and revenue opportunities.

Research from Analysys Mason

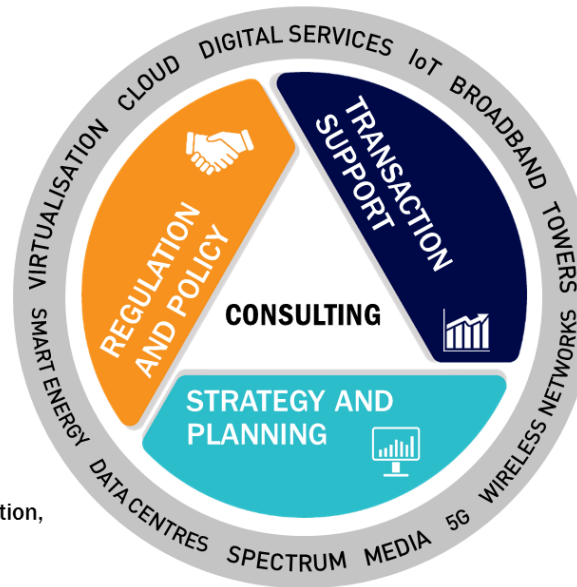
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- Quality of service
- Market review
- Margin squeeze tests
- Analysing regulatory accounts
- Regulatory economic costing
- Policy development and response
- Media regulation
- Expert legal support
- Radio spectrum management
- Net cost of universal service
- Radio spectrum auction support
- Postal sector policy: USO, liberalisation, costing, pricing and regulation



TRANSACTION SUPPORT

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- Technical due diligence
- Digital services
- Mid-market finance sponsors
- Data centres

STRATEGY AND PLANNING

- Commercial expertise
- Technology optimisation
- New digital frontiers

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