



**TeckNexus**  
DIGITAL SERVICE PROVIDER ECOSYSTEM



# 5G Fireside Chat Series

## Network Slicing & Splicing in Industry 4.0 Use Cases

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Host :  
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# Agenda

What is 5G network slicing & splicing?

Network slicing - sample use cases & how it works?

- Industry 4.0 (5G-Encode) use cases

- High level architecture with network slicing & splicing

- What network components are sliced & spliced?

- RAN, transport & core slicing components

- Zeetta Networks products for 5G slicing & splicing

Network slicing use cases beyond Industry 4.0



# What is Network Slicing & Splicing?

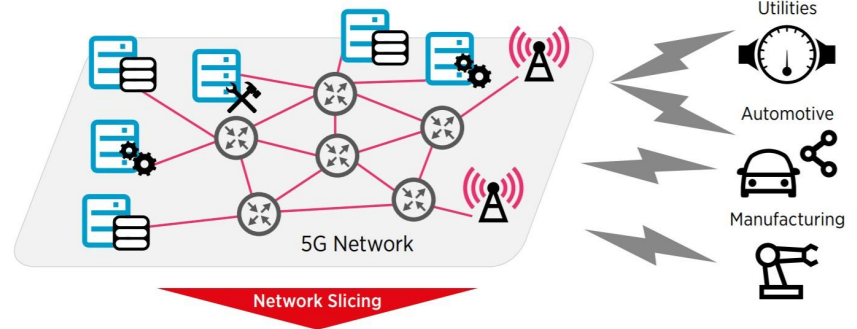
5G network **slicing** is a network architecture enabling

- running of multiple virtualized, isolated & logical networks
- on a common physical network infrastructure

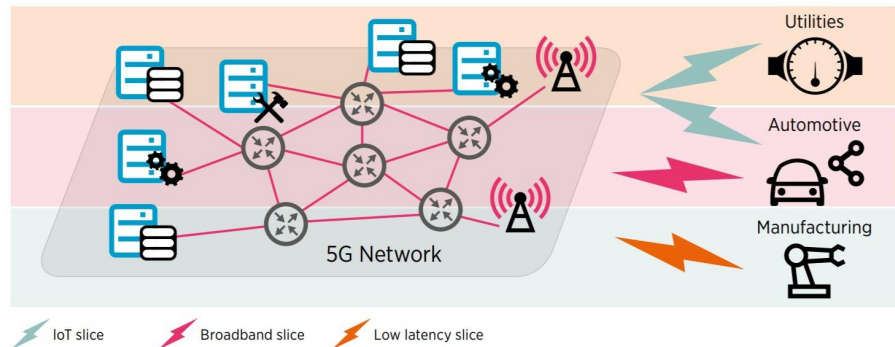
5G network **splicing** is a concept of

- joining together 2 or more network slices to create a new network slice
- for seamless delivery of the network services

5G networks need to serve customers with very different needs



5G networks subdivided into virtual networks each optimised for one business case



Source: [GSMA Introduction to Network Slicing](#)

# Network Slicing Use Cases | 5G-Encode Project

## In-factory and in-transit asset tracking



**Business Objective:** Improve productivity and reduce costs by providing accurate and live location and condition information of tracked assets

## Virtual 360 video training

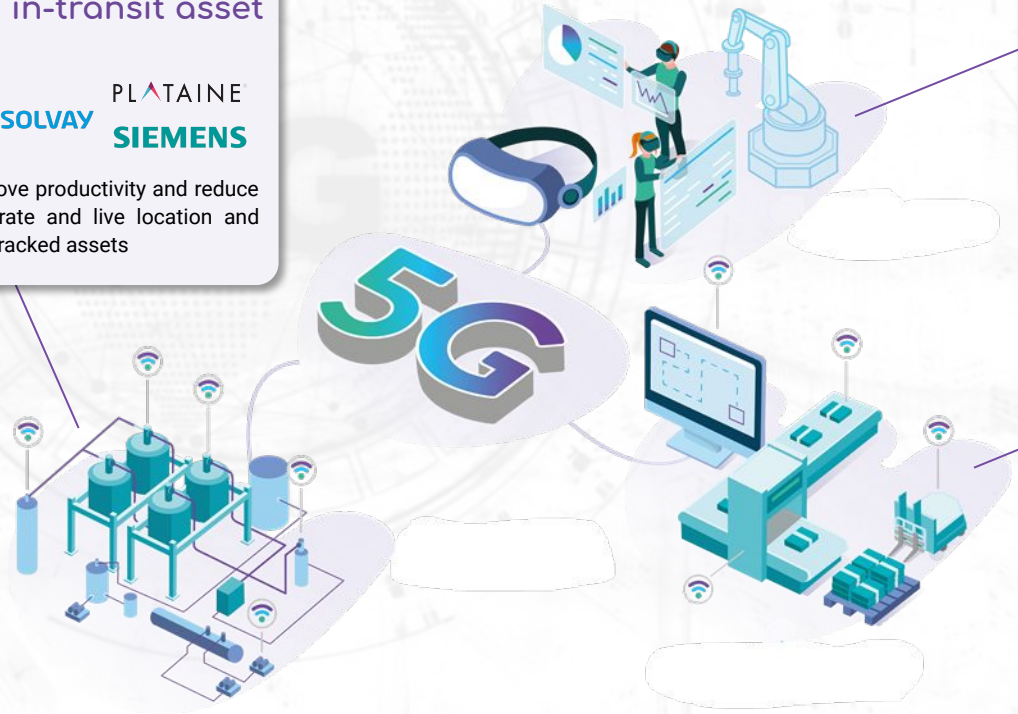


**Business Objective:** Improve efficiency and trainee satisfaction of in-house training using immersive and interactive VR 360° platform over a 5G mobile network

## Closed loop manufacturing in Liquid Resin Infusion (LRI)

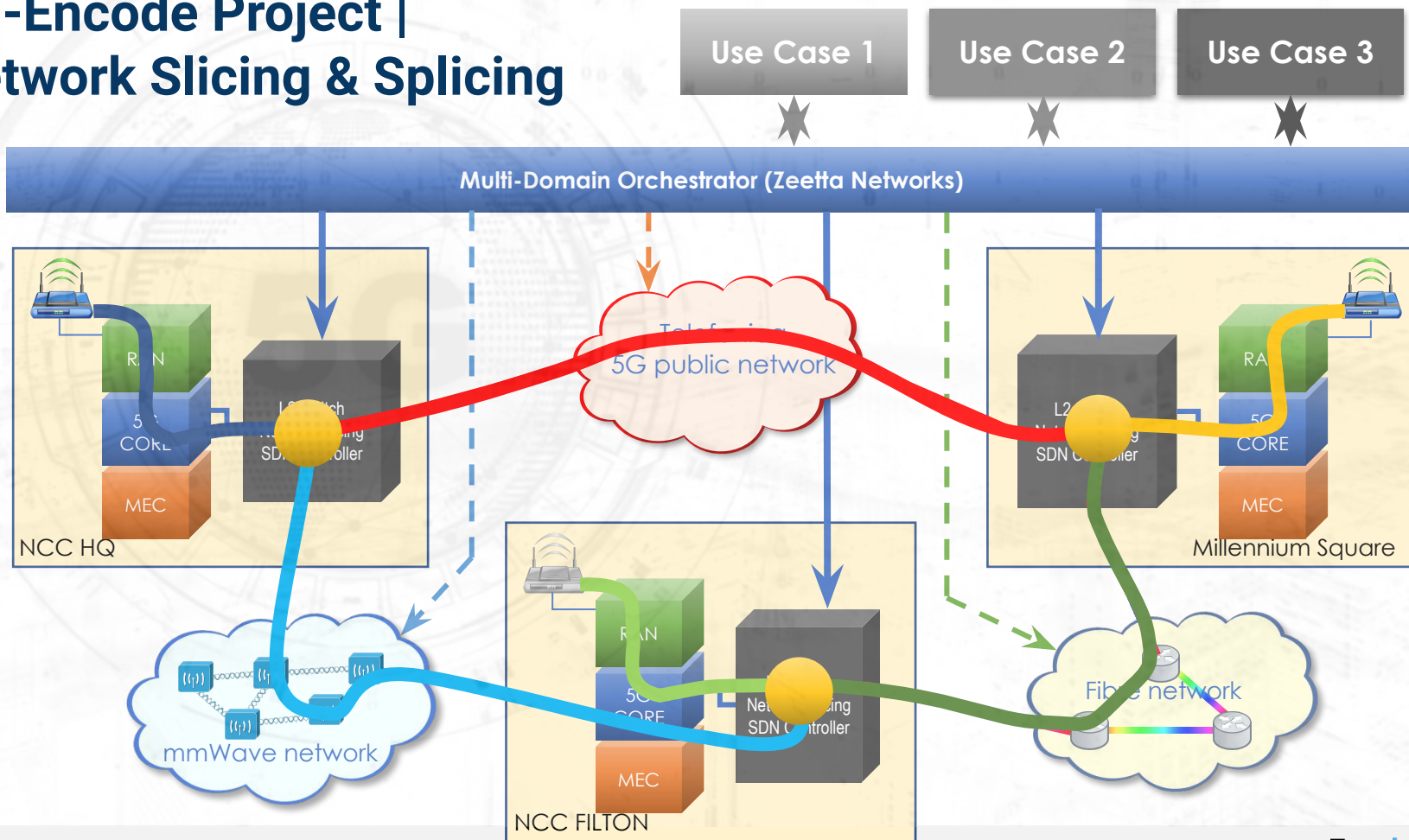


**Business Objective:** Improve efficiency and productivity in LRI composite manufacturing using 5G and digital technologies





# 5G-Encode Project | Network Slicing & Splicing



# Zeetta Network Products - Enabling Network Slicing & Splicing for 5G Use Cases

- **NetOS<sup>®</sup>** is an SDN-controller and single-domain orchestration platform that is commercially available
- A deployable private network solution, **NetOS Rapide<sup>™</sup>** will be used to provide the private 5G network and Layer-2 network slicing
- **NetSplicer<sup>™</sup> Multi-domain Orchestrator (MDO)**: Extends the capability of NetOS to a multi-domain environment



Aarna  
NETWORKS



Zeetta



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5G

# Thank You

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