CELTIC-NEXT
Project Proposal Pitch

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Operating Multi-function Mobile Private Networks

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Introduction

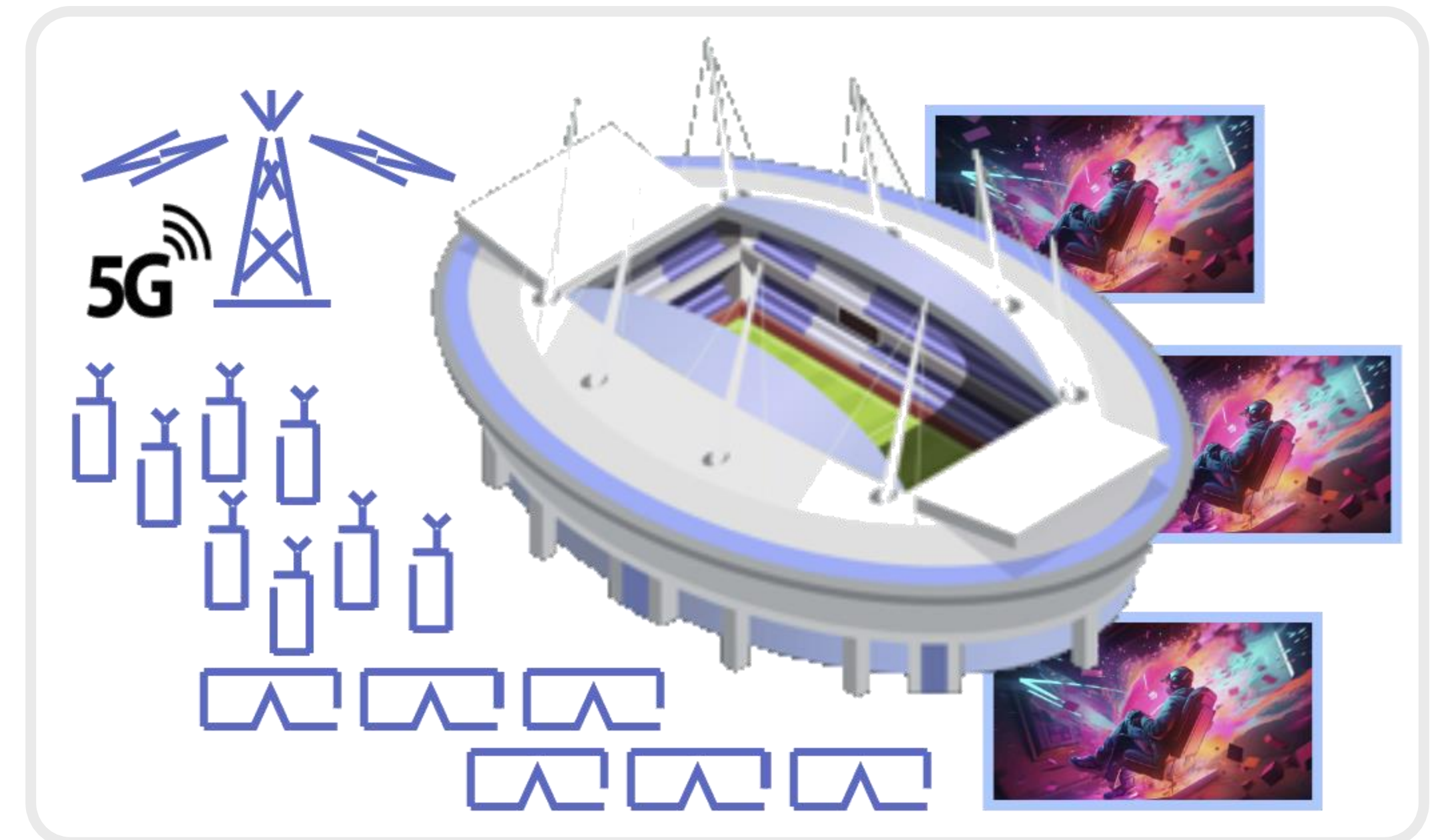## Operating Multi-function Mobile Private Networks

Meeting the connectivity requirements of large-scale, multi-function entertainment venues

Adding value for
- mass interactive gaming
- neutral hosting
- broadcasting
- augmented reality
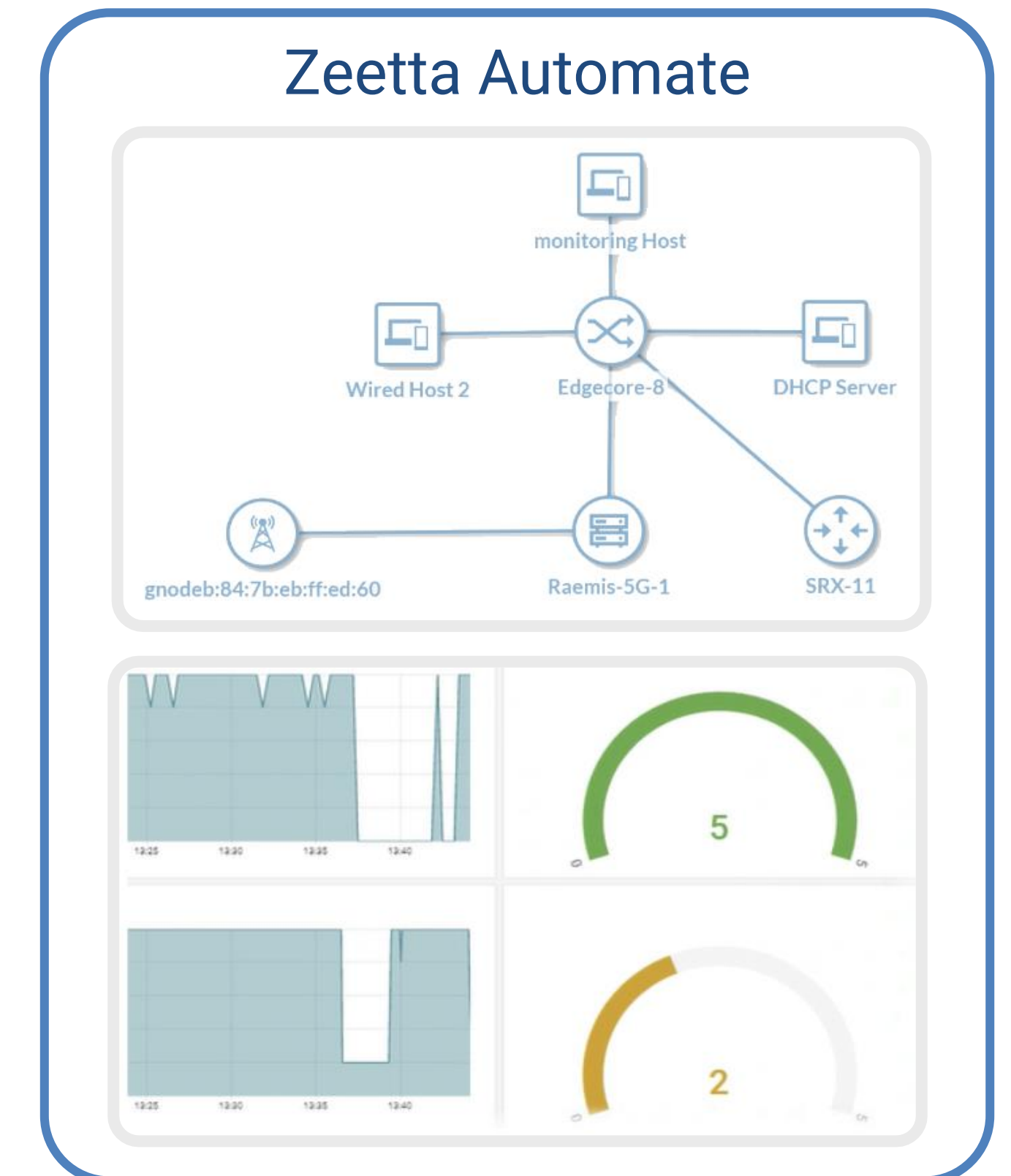- IoT (sensors, cameras, robots, drones etc.)
- emergency and security

Benefits
- Excellent consumer experience
- Easy to manage and operate connectivity
- Partitioned, scalable, dynamic wireless connectivity
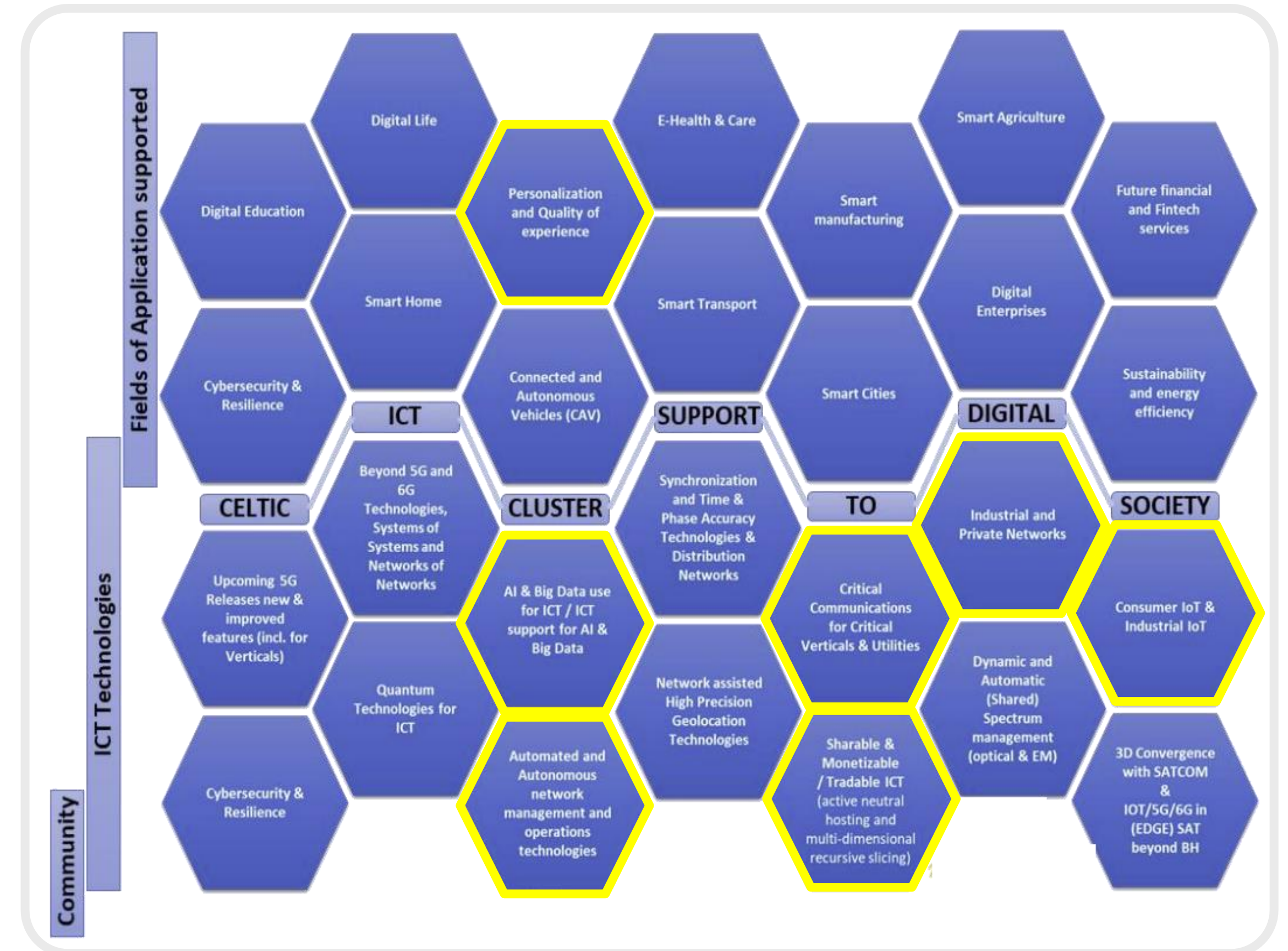- Intelligent assurance

Join us in creating easy to operate, cost effective, 5G private network solutions.

Background

- Founded in 2015 to develop a vendor-agnostic domain controller before evolving to develop a cloud native multi-domain orchestration solution.

- Spun-out from the University of Bristol.

- Led £9m 5G-ENCODE consortium validating 5G private networks in manufacturing.

- Participated in multiple grant-aided projects to validate new 5G and network automation solutions.

- A software company with a team of network and software specialists.

Zeetta Automate

Roadmap Alignment

CELTIC-NEXT Roadmap domains addressed in this proposal

1. **Personalization and Quality of Experience**

2. **AI & Big Data use for ICT**

3. **Automated and Autonomous network management and operations technologies**

4. **Critical Communications for Critical Verticals and Utilities**

5. **Sharable & Monetizable / Tradeable ICT**
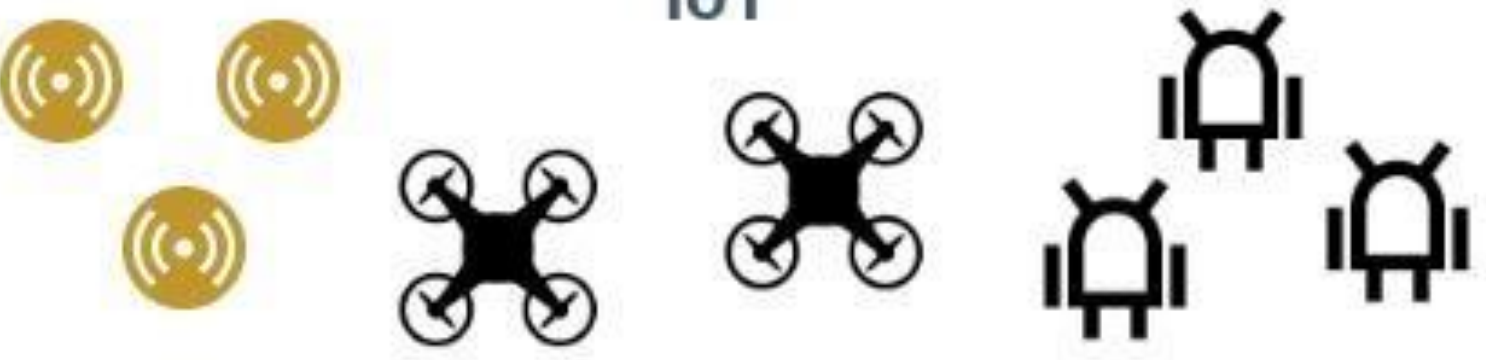
6. **Industrial and Private Networks**

7. **Consumer IoT & Industrial IoT**
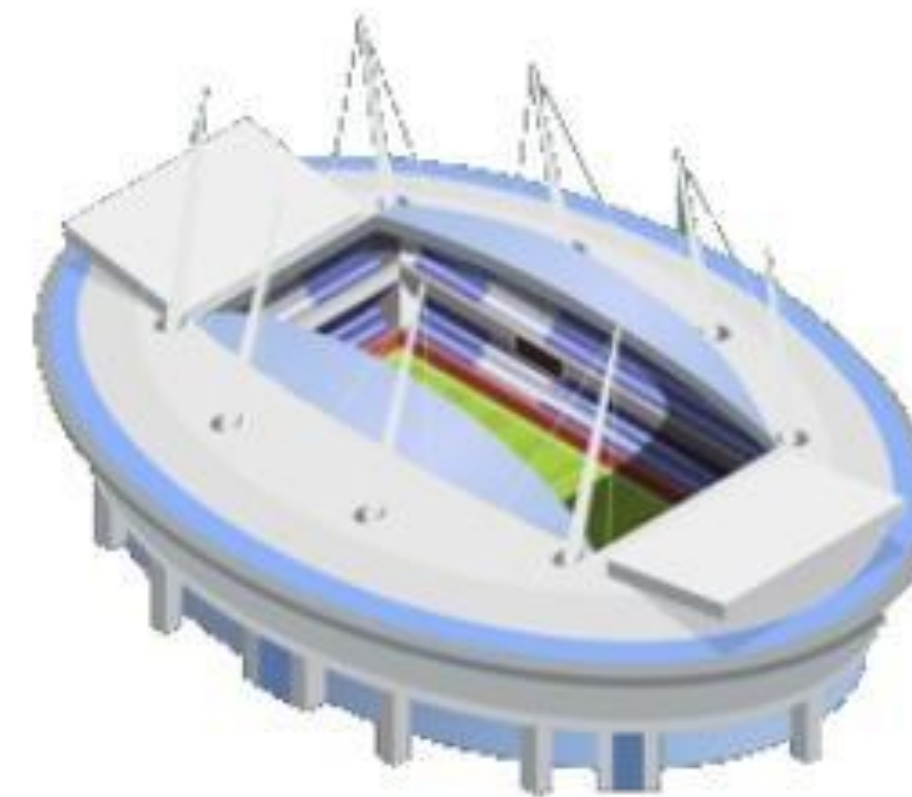
Features Overview

Mass interactive gaming

IoT

Critical Services

Broadcast

5G

Augmented Reality

Neutral Hosting

Users from MNO X   Users from MNO Y

Enterprise Private Network

RAN   5GC   LAN   MEC

Innovation

Private networking in entertainment venues

State of Art	Innovation
Manually Configured	Automated Configuration
One-size-fits-all connectivity	Partitioned connectivity
Static network configuration	Dynamic network configuration
Over-provisioned network	Scalable network
Wireless Networking implemented with Wi-Fi	Wireless Networking implemented with 5G
Broadcast connectivity using Fibre	Broadcast connectivity using 5G
Manual assurance	AI/ML-powered assurance
Limited neutral-hosting trials	Multi-CSP neutral hosting for venue customers

Outcomes & Impacts

Outcomes

- o Performance and reliability blueprint
- o Working Neutral hosting
- o 5G private network for entertainment use

Impact

- o Increased trust in network automation
- o Reduced cost of operation for multi-tenant 5G private network
- o Using 5G to make a compelling experience for users and application developers
- o Validation of AI/ML managing an enterprise private network

Schedule

- o 36 months

Partner Roles

Function	Role	UK	IRELAND	CANADA
Project leadership	Project management	ZEETTA		
Enterprise	Host project at premises			**Stadia** *(confidential)*
Orchestration	Vendor	ZEETTA		
Test and Measurement	Vendor			VIAVI
MPN 5GC	Vendor		DRUID	
MPN RAN	Vendor			
CSP	Neutral Hosting Partner(s)			
Application(s)	Development and integration			ROSS VIDEO
IoT Application/Infra	Vendor/Integrator			

Contact

For more information and for interest to participate please contact:

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