

End-to-End Cognitive Network Slicing and Slice Management Framework in Virtualised Multi-Domain, Multi-Tenant 5G Networks

5G-PPP Project SLICENET

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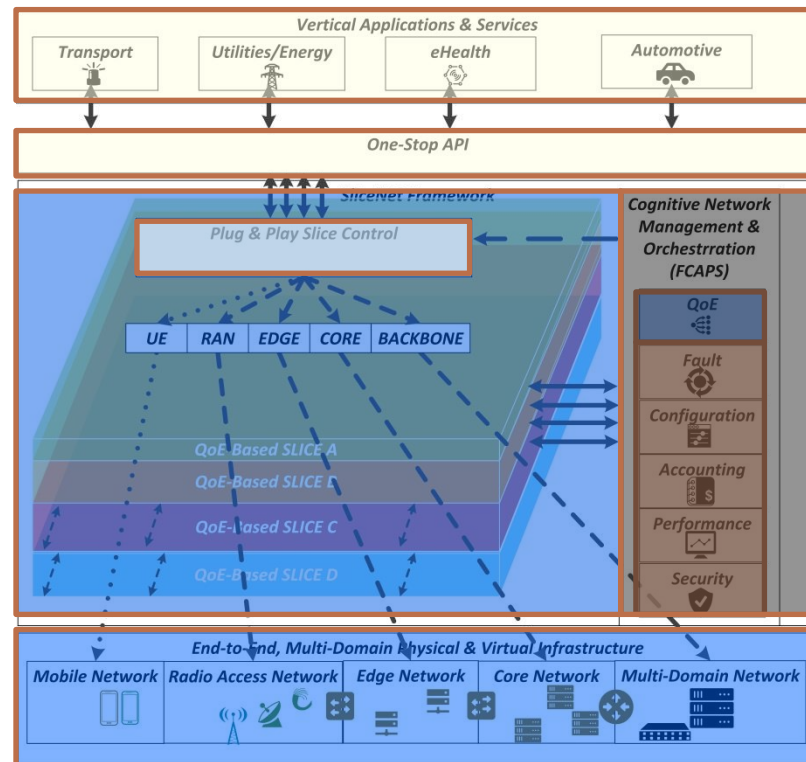
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Innovations

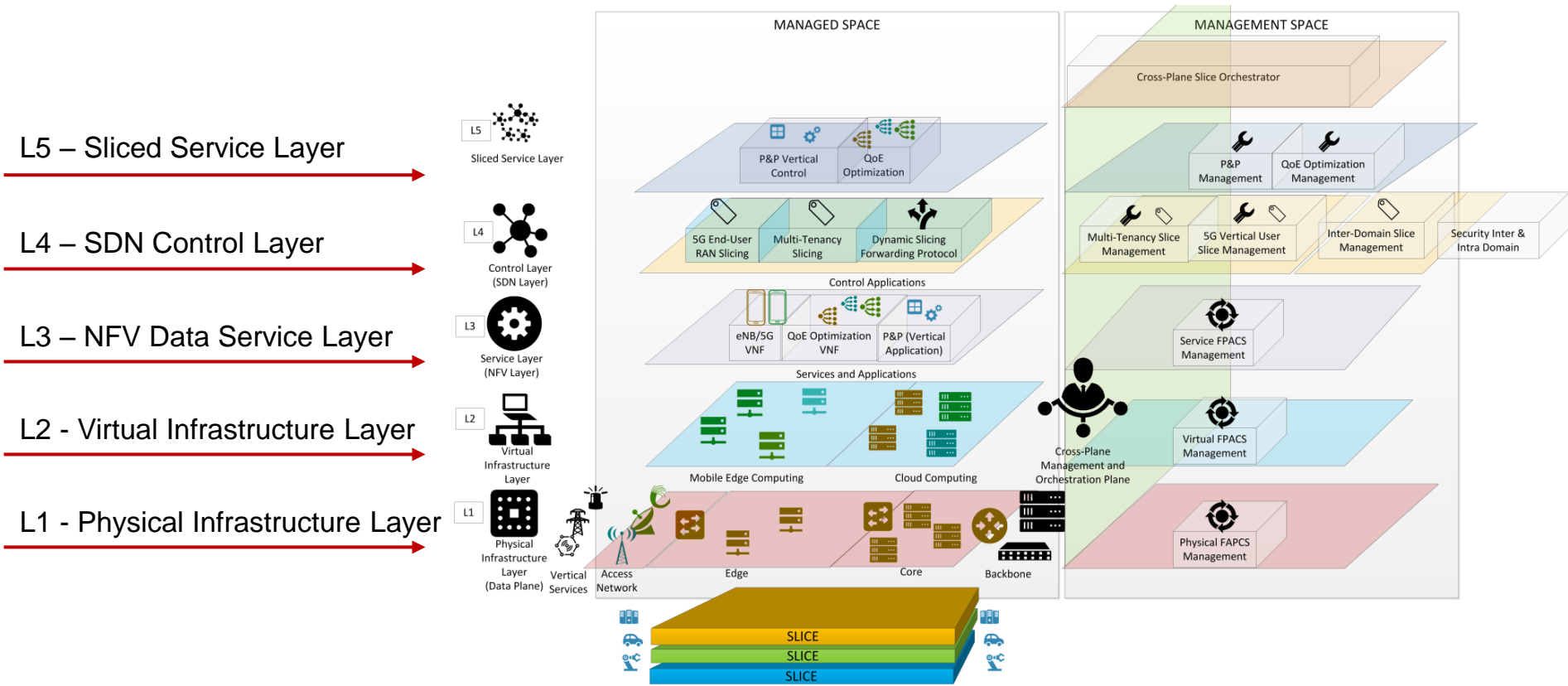
- **One-stop slicing API (and P&P slice control) for verticals**
- **End-to-end scalable slicing as a service over multiple administrative domains**
- **Integrated FCAPS management in a single administrative domain**
- **Integrated FCAPS management in multiple administrative domains**
- **Cognition/intelligence based QoE management for optimising slicing**
- **Cross-plane, cross-domain orchestration**
- **Slicing-friendly infrastructure with MEC and enterprise networking support**
- **Representative 5G verticals' use cases**

Main Objectives

1. Achieve an innovative, cognitive, integrated **'one-stop shop' 5G slice management framework** for **vertical businesses** and co-designed by vertical sectors
2. Enable extensible, **end-to-end slice FCAPS management** across multiple planes and operator domains
3. Establish **cognitive, agile QoE management of slices** for service assurance of vertical businesses
4. Enable **slicing-friendly infrastructure**
5. Empower **orchestration** for cross-plane coordination of management, control, service and data planes to achieve **system-level slicing** control and slice operation

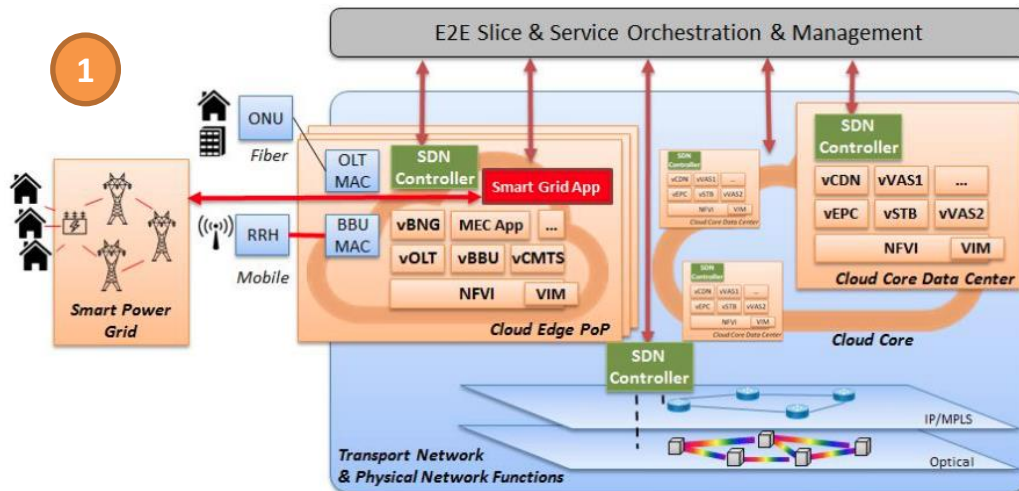


Detailed Architecture & Scope



Use Cases Overview

5G Smart Grid Self-Healing Use Case



5G eHealth Smart Ambulance Use Case



5G Smart City Use Case



Thank you for your attention

<https://slicenet.eu> (under construction)

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