



CELTIC-NEXT Event

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Pitch of the Project Proposal

5GCV: Cognitive Control Framework to Empower Smart 5G Verticals

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Teaser



Main benefit: facilitating the vertical industries to adopt 5G, ordering to build cognitive capabilities on demand, thereby making a tangible difference in service provisioning in the 5G era

Added value to verticals: improved end users' experience; reduced service creation/deployment/operational/maintenance costs

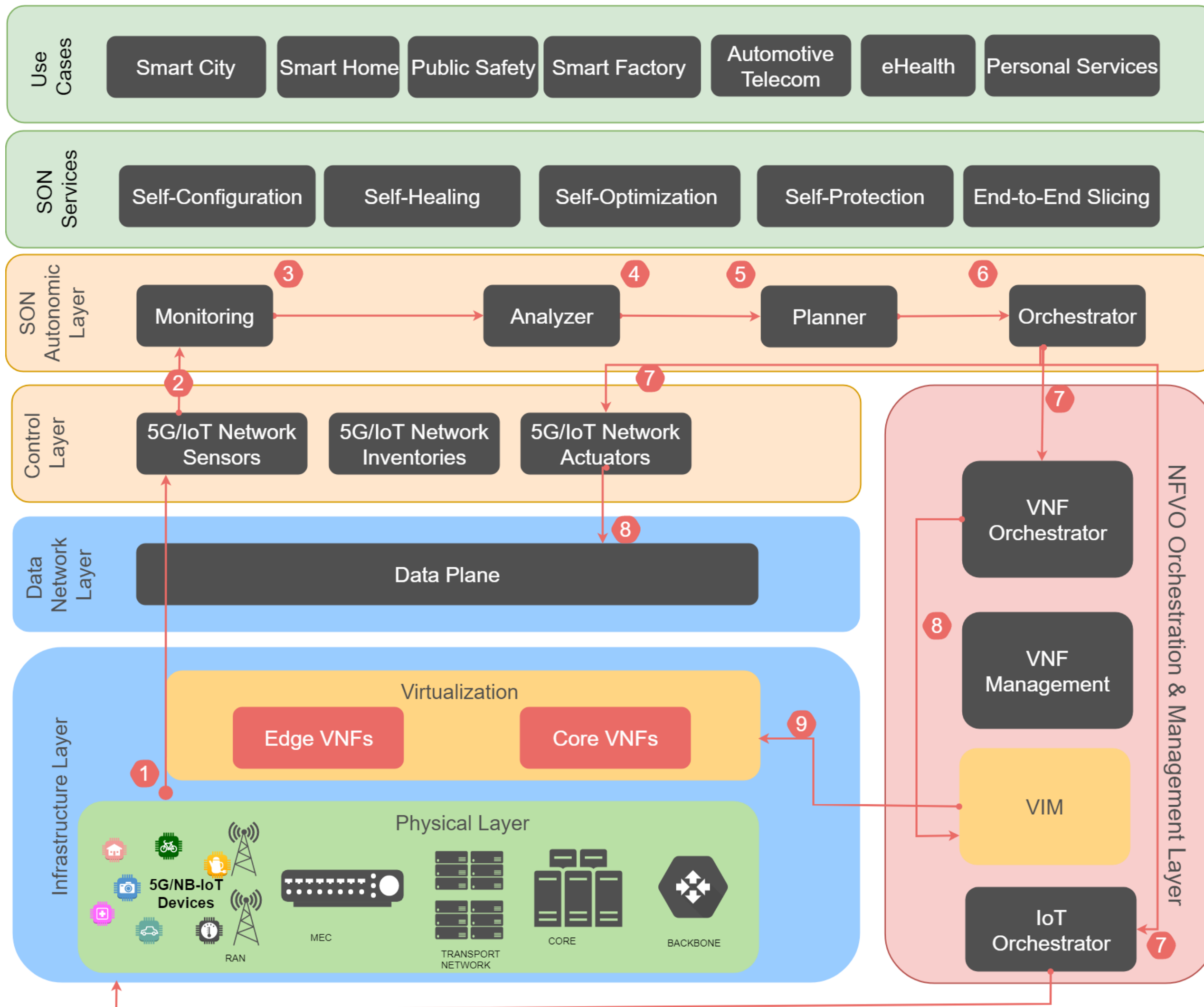
Benefits for project participants: the envisioned ecosystem is expected to benefit main stakeholders in the 5G value chain including 5G network service providers, communication service providers and verticals in this layered and extensible framework

Organisation Profile



- Leading Scottish Research Centre of Excellence on Artificial intelligence, Visual Communications & Networks (AVCN), including 6 full professors, 4 associated/assistant professors, and 50+ postdoctoral/PhD researchers
- Technical Managers of EU H2020 5G PPP Phase 1 & Phase 2 projects SELFNET & SliceNet
 - SELFNET: Self-organised Network Management for 5G Network Operators, 7 Million Euros (2015-2018)
 - SliceNet: Cognitive Service Provision for Vertical Businesses Using 5G Networks, 8 Million Euros (2017-2020)

Proposal Introduction (1)



- Enabling various verticals to access the same framework to build and operate their smart services via a range of Self-Organising Networking (SON) capabilities
- Building upon achievements of 5G SELFNET & SliceNet projects
- Optimising MAPE-K based autonomous control loop with customisable AI-based schemes

Proposal Introduction (2)



Expected outcome:

- Functional cognitive control framework
- Validated machine learning based approach
- Demonstration of various vertical use cases
- Early deployment in selected vertical and 5G telecom cases

Expected impacts:

- Help form a novel 5G AI value chain
- Help vertical users of various sizes (SME or industries) to benefit from AI-empowered 5G

Schedule: project duration 36 months

Partners



Existing consortium: In progress of discussion

Involved countries, expertise, profiles and types of partners we are looking for:

- UK SME(s) as 5G/AI technology provider or vertical user
- UK 5G Telecom or service provider
- Spanish 5G/AI industry/SME partners or stakeholders
- Vertical industries

Contact Info

For more information and for interest to participate please contact:

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Presentation available via:

