



FLAME

FACILITY FOR LARGE-SCALE ADAPTIVE MEDIA EXPERIMENTATION

University of Bristol
5GUK Test Network – FLAME Infrastructure
Urban Hacking in 5G

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High Performance Network Group - HPN

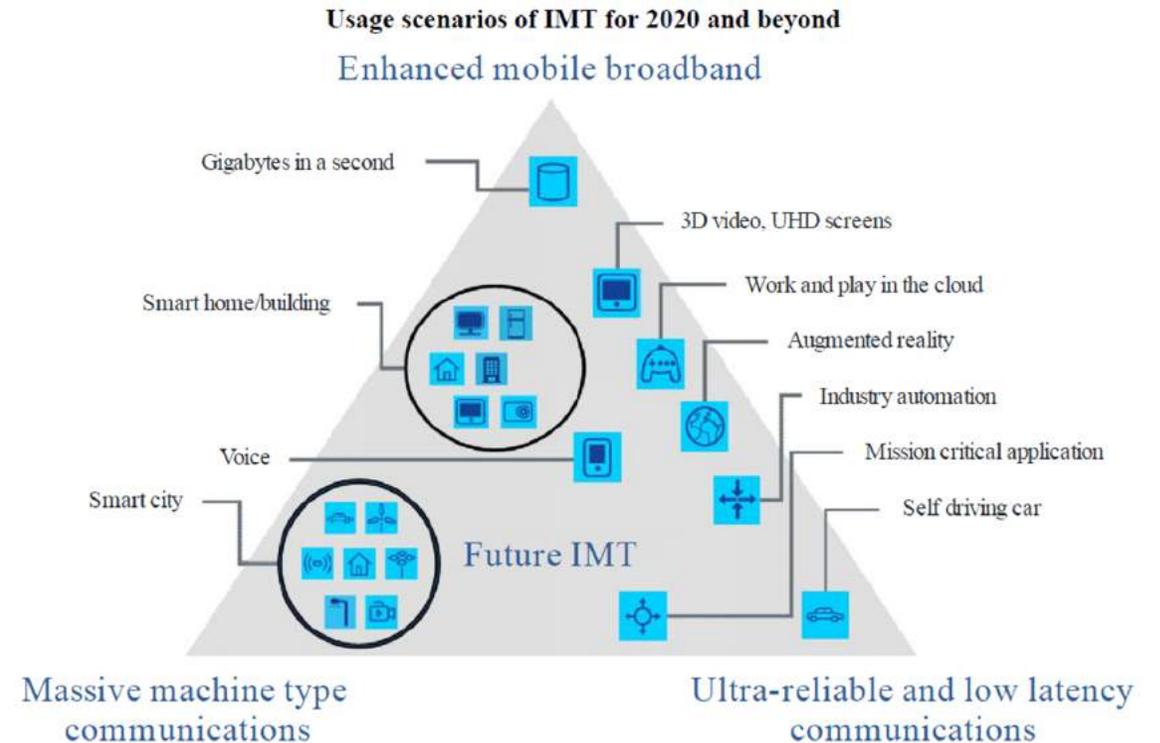
17 – 20 June 2019

Our Objectives → 5G Test Network for Research & Experimentation



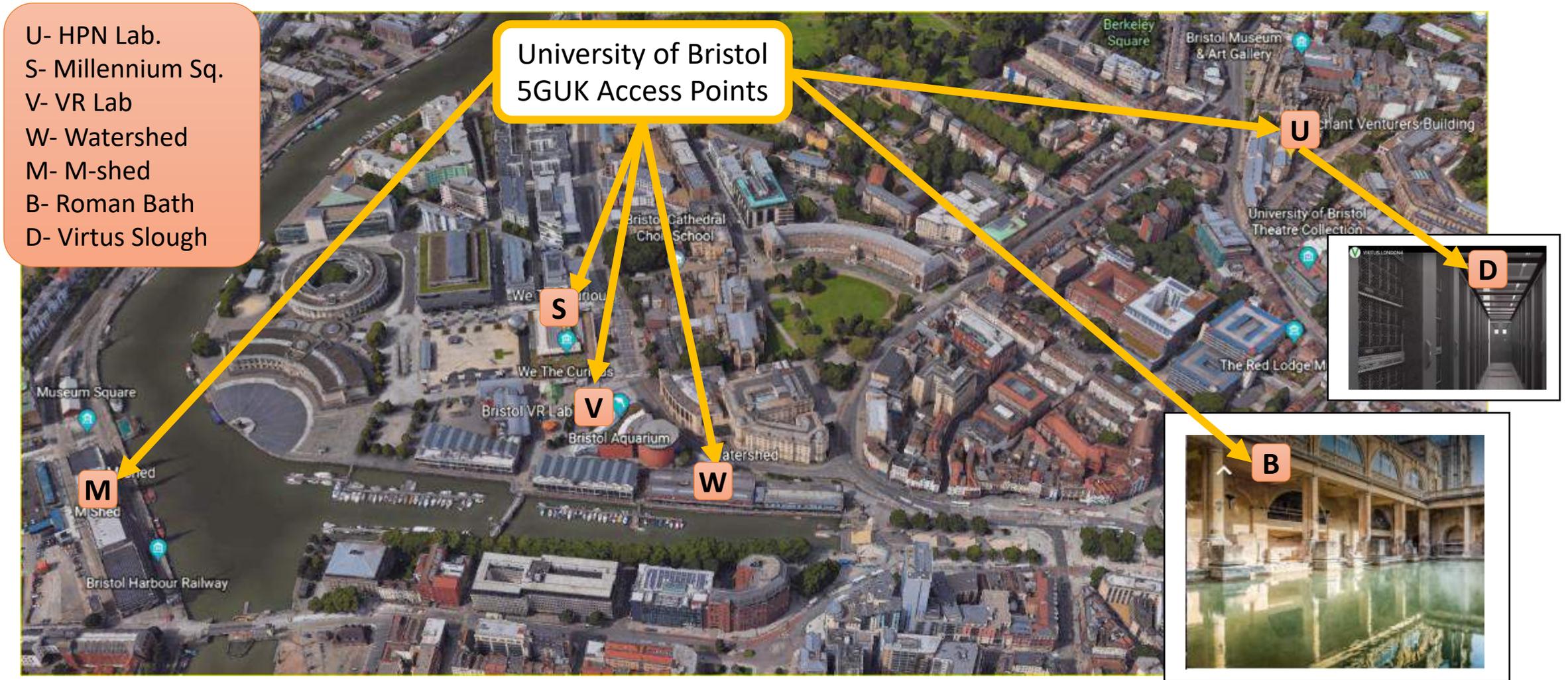
Use Cases -

- (eMBB)
Enhanced Mobile Broadband
- (URLLC)
Ultra Reliable Low Latency Communications
- (mMTC)
Massive Machine Type Communications



https://www.itu.int/dms_pubrec/itu-r/rec/m/R-REC-M.2083-0-201509-1!!PDF-E.pdf

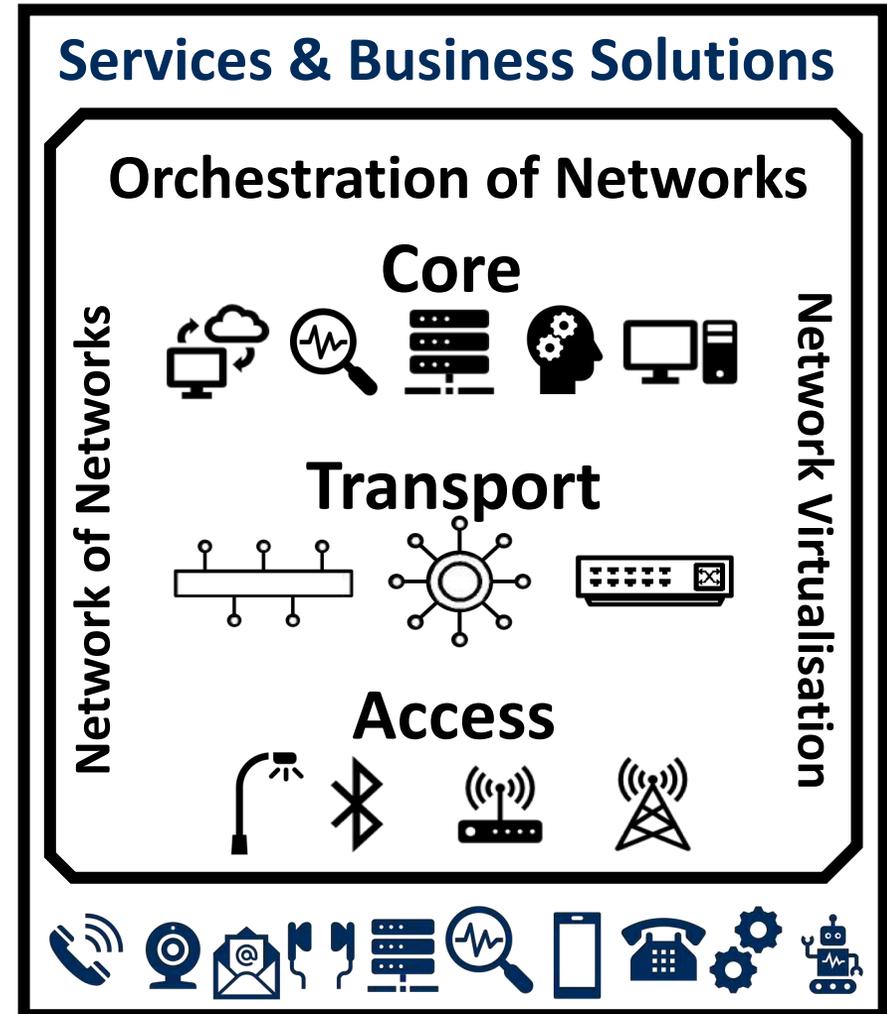
5GUK Test Network Coverage



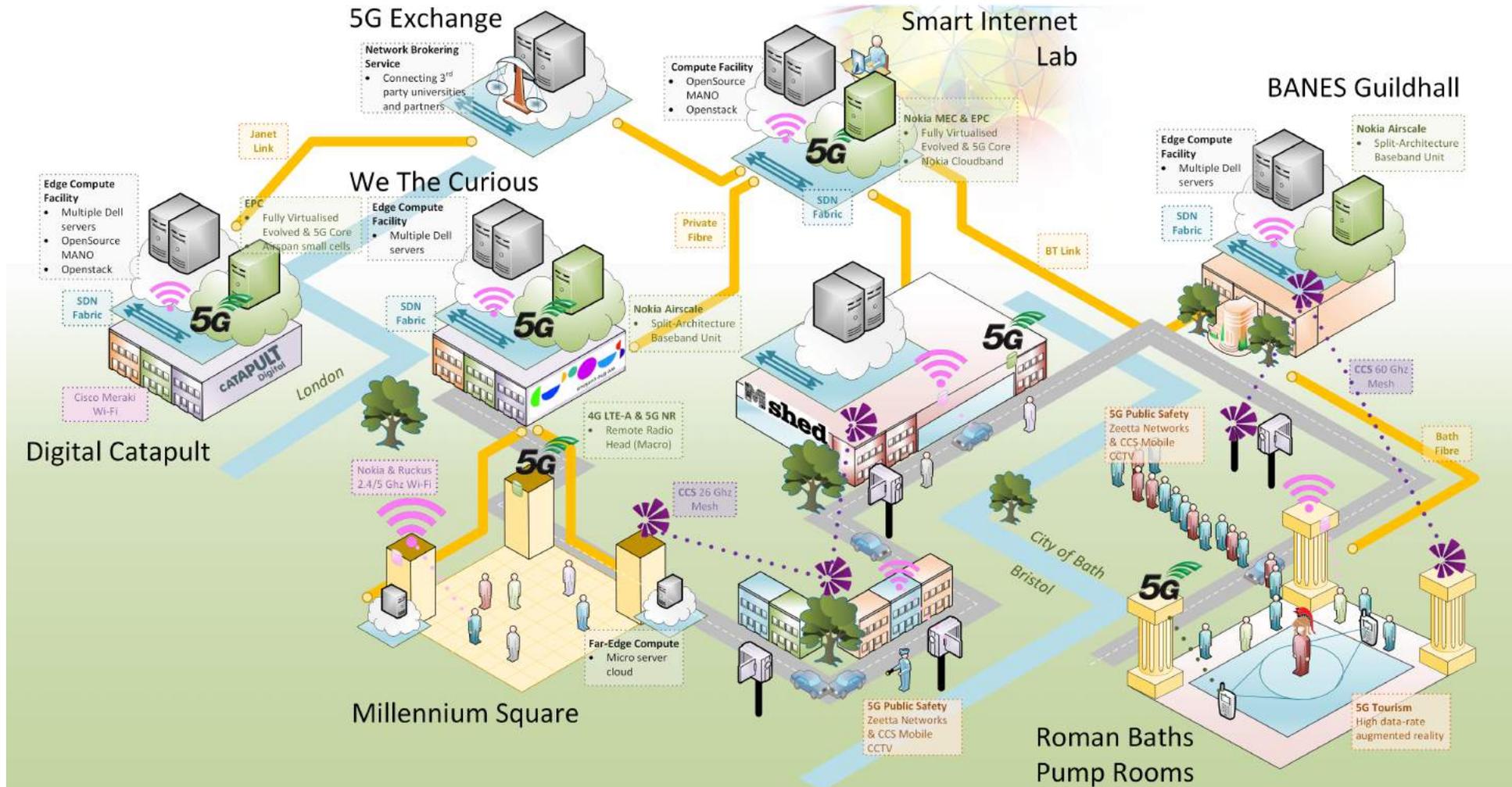
5GUK Test Network Features



- (OSM) Open Source (MANO) Management & Orchestration
- (SDN) Software Defined Networks
- (NFV) Network Function Virtualisation
- (MEC) Multi-Access Edge Computing
- (ML) Machine Learning
- (AI) Artificial Intelligence
- Network Monitoring and Analytics



Network Connectivity



2018 Showcase – Demonstrations

Layered Realities



Orchestrating the Orchestra,
Synchronised Performance over 5G



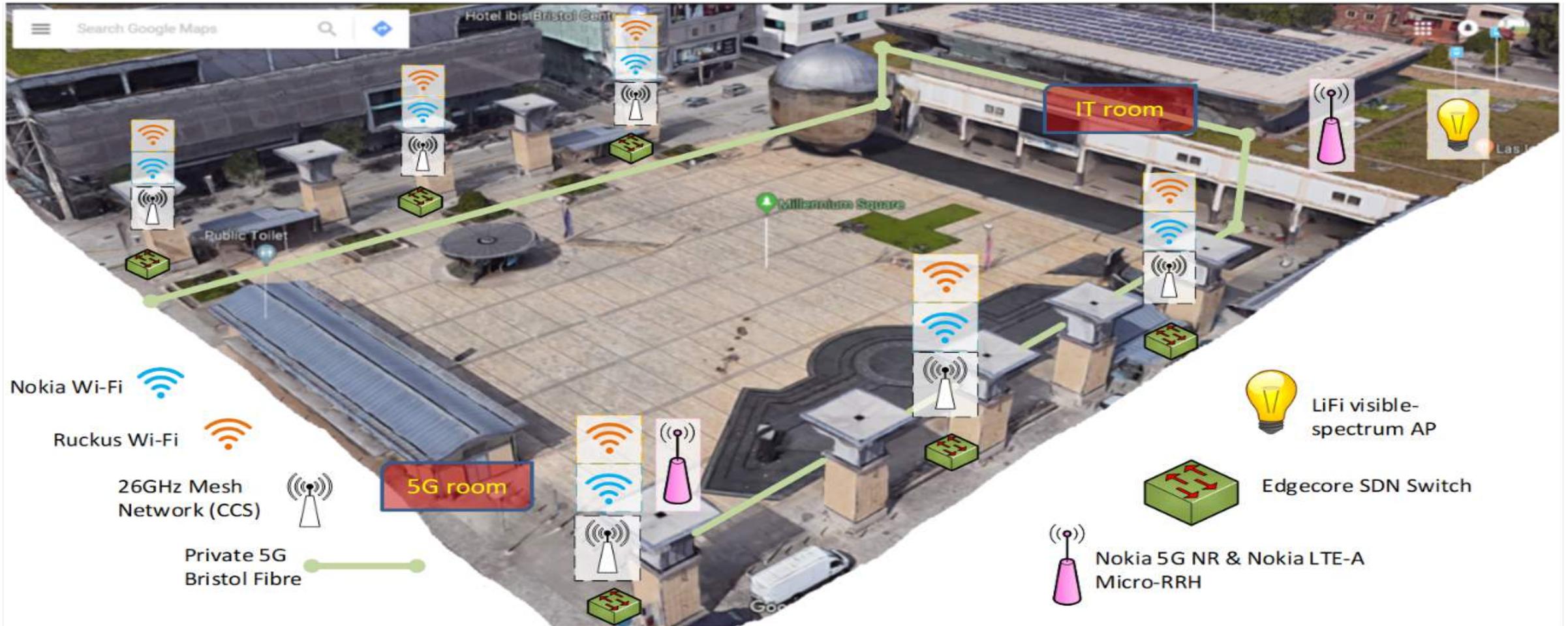
5GUK Exchange,
Solution Architecture for 5G Hub

bristol.ac.uk

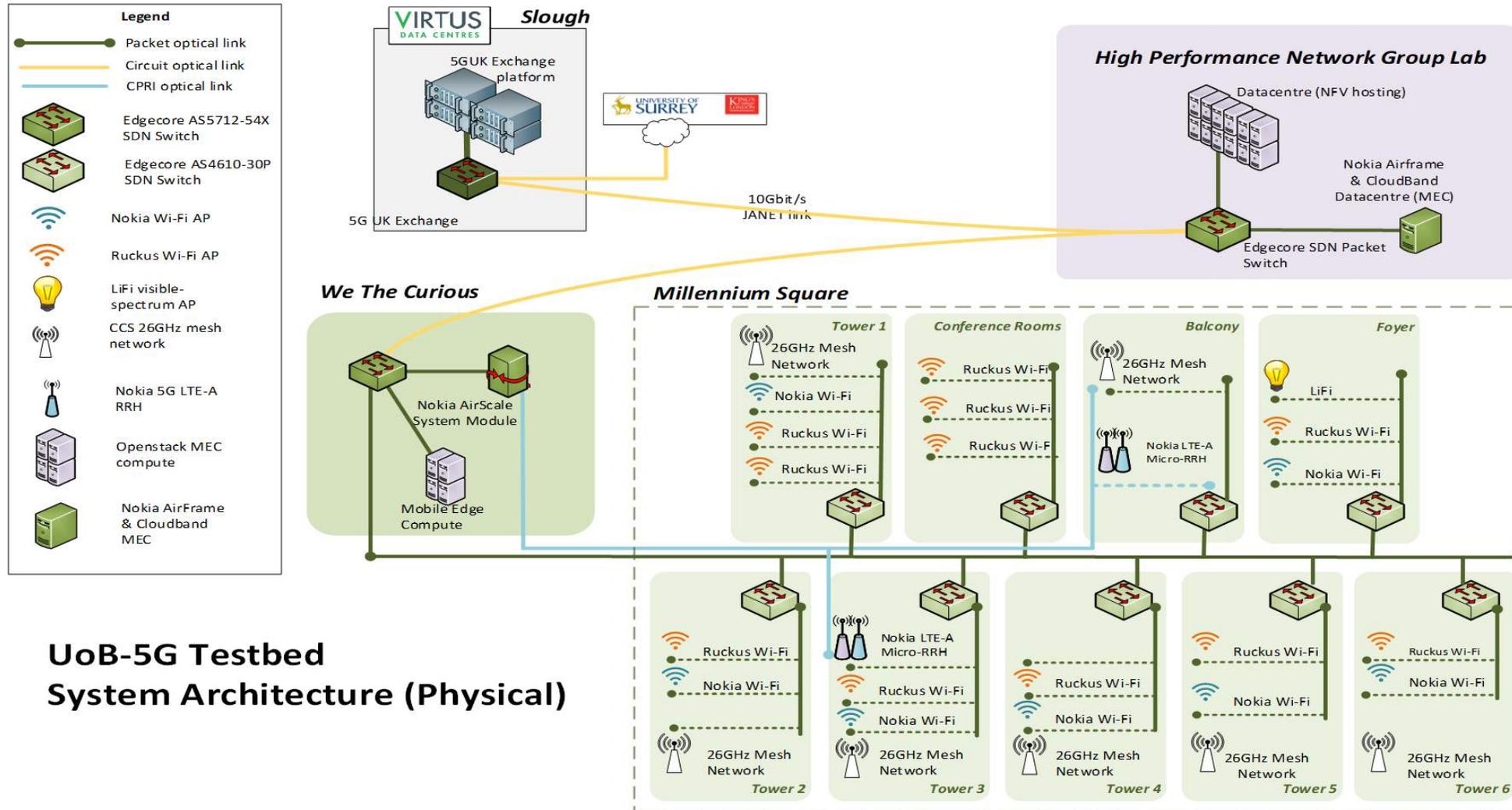
<http://www.bristol.ac.uk/engineering/research/smart/5g-demonstrations/>

bristol.ac.uk/smart

Bristol FLAME Site



UNIVBRIS Overall Architecture



UoB-5G Testbed System Architecture (Physical)

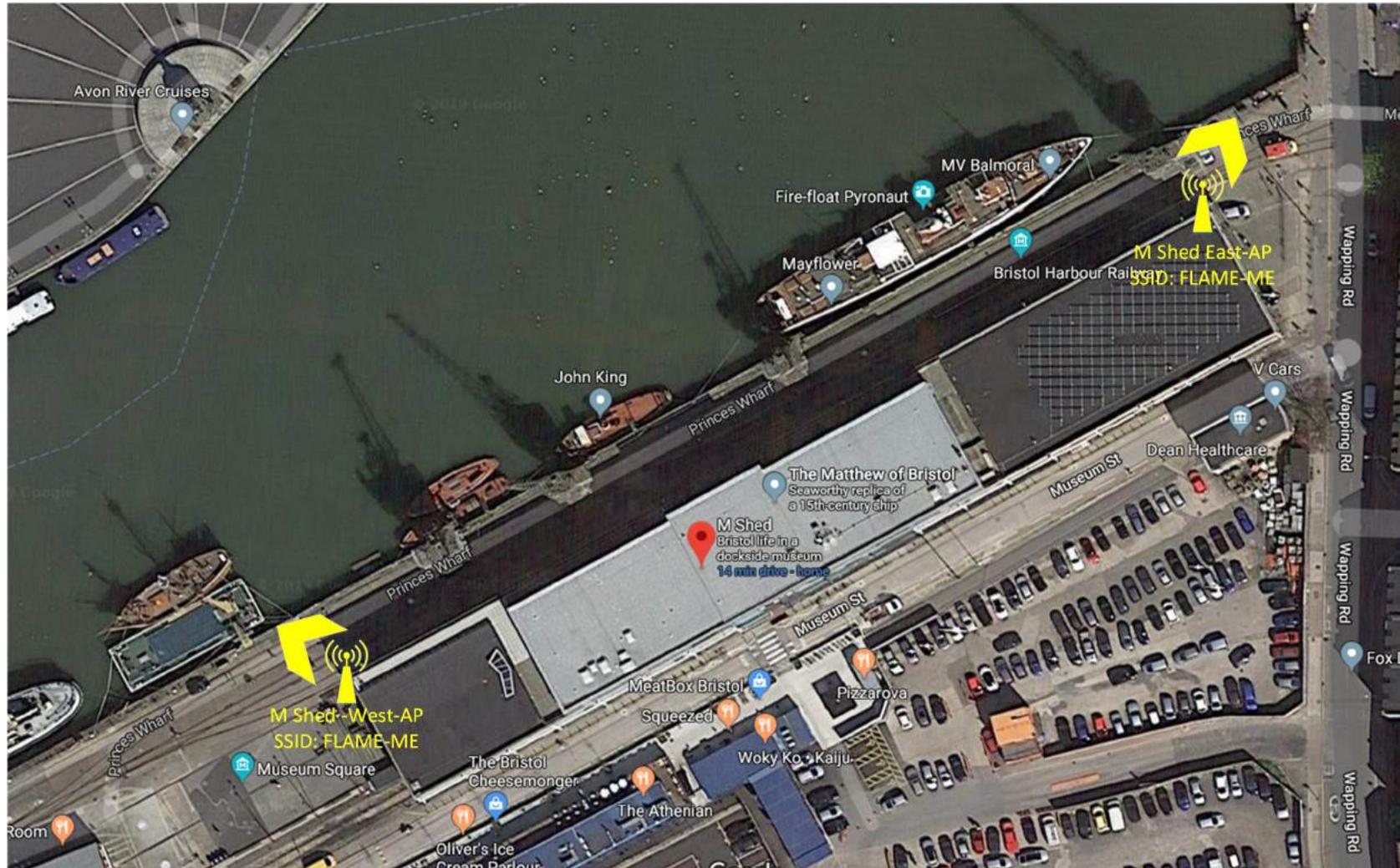
FLAME – Replicate Bristol Infrastructure



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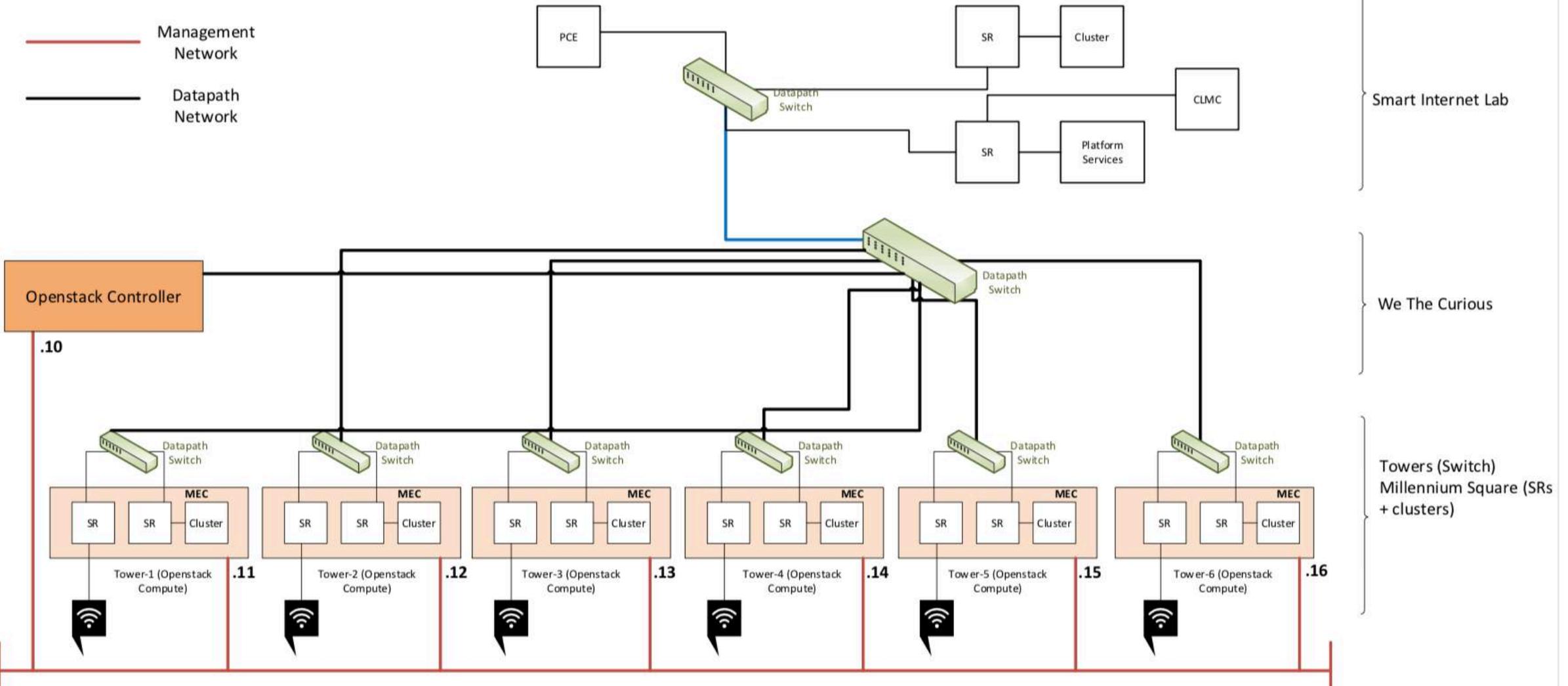
FLAME – Replicate Bristol Infrastructure



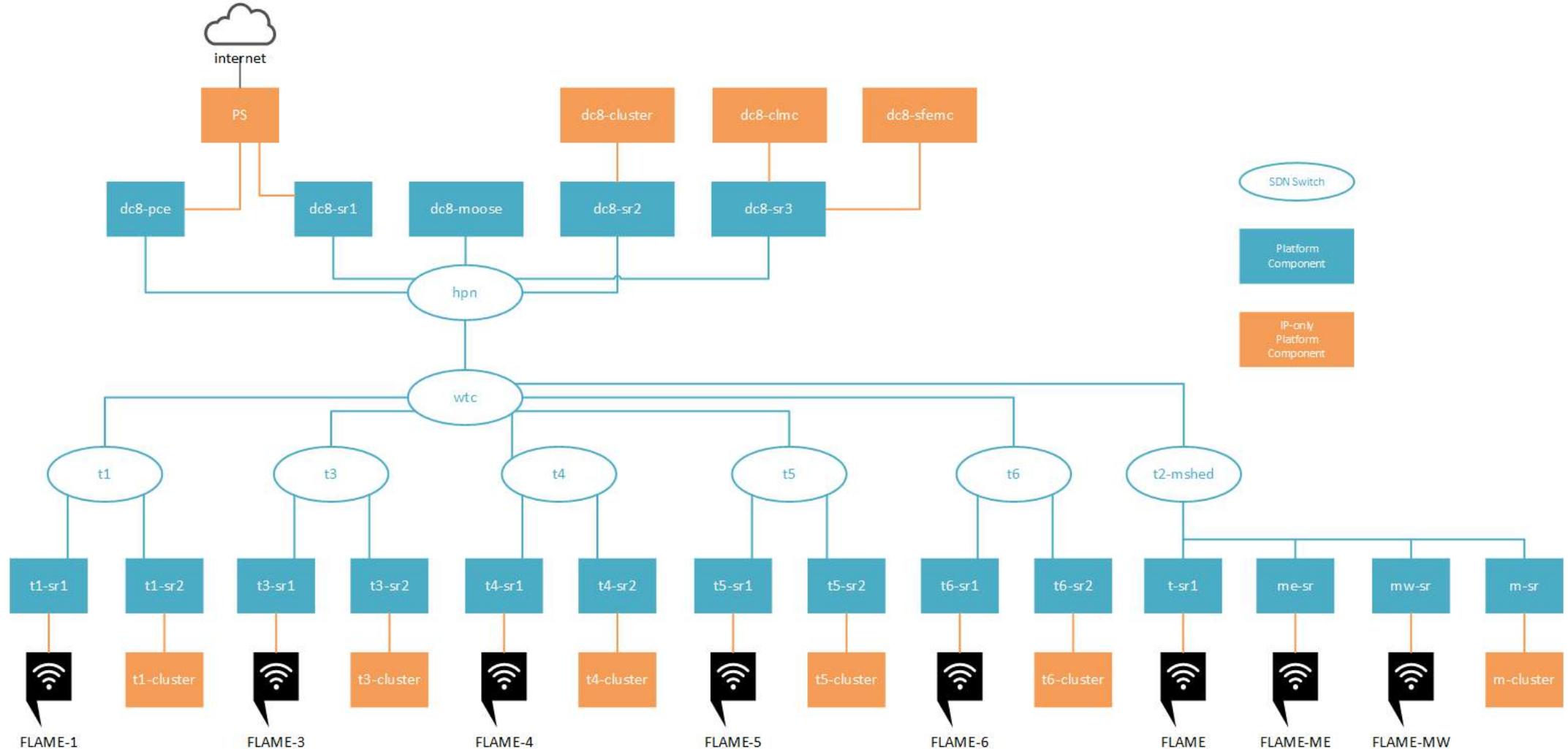
Bristol FLAME infrastructure



Smart Internet Lab



Flexible infrastructure + M-Shed





FLAME

Contacts for access to Bristol FLAME infrastructure

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THANK YOU



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