

Progressing towards the City as a Platform

IoT Week, June, 2019

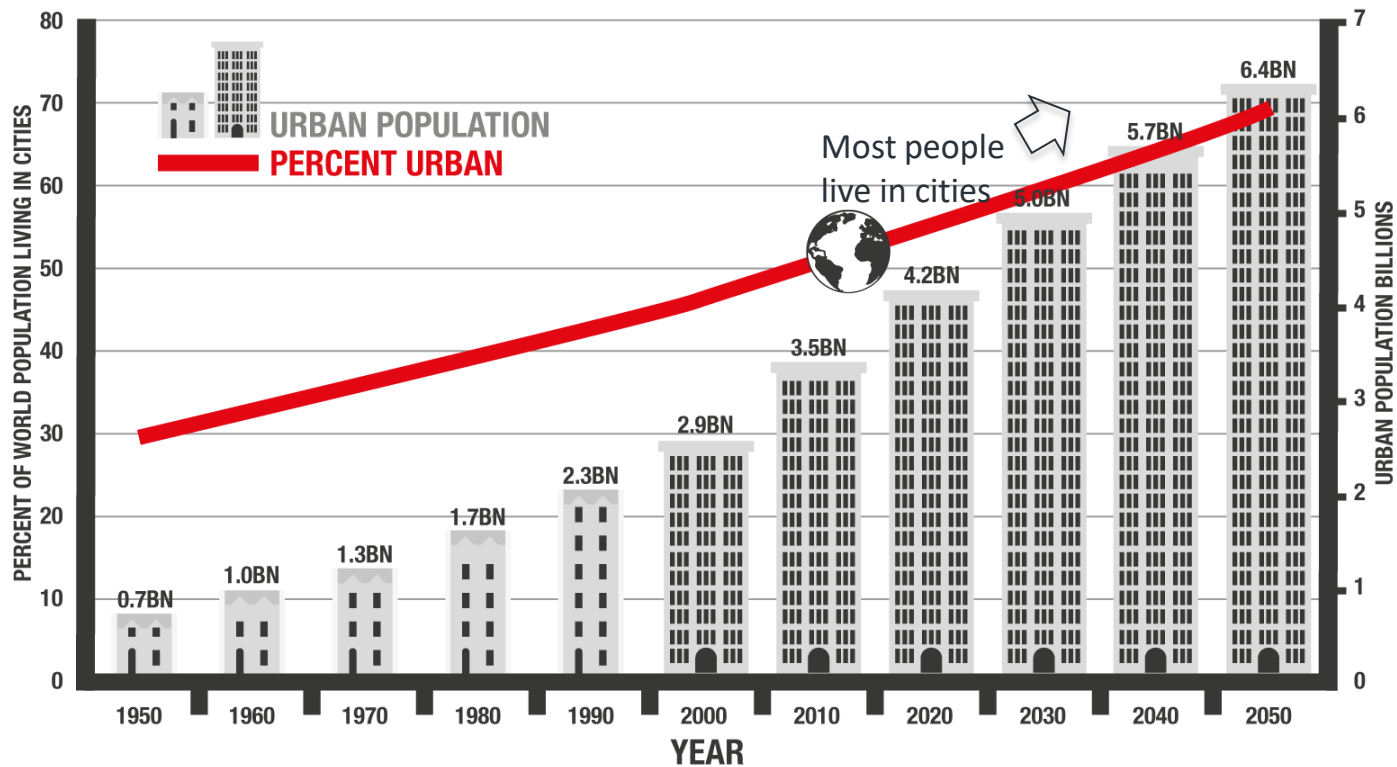
Paul Wilson

Founder Bristol Is Open, co-Founder UK5G

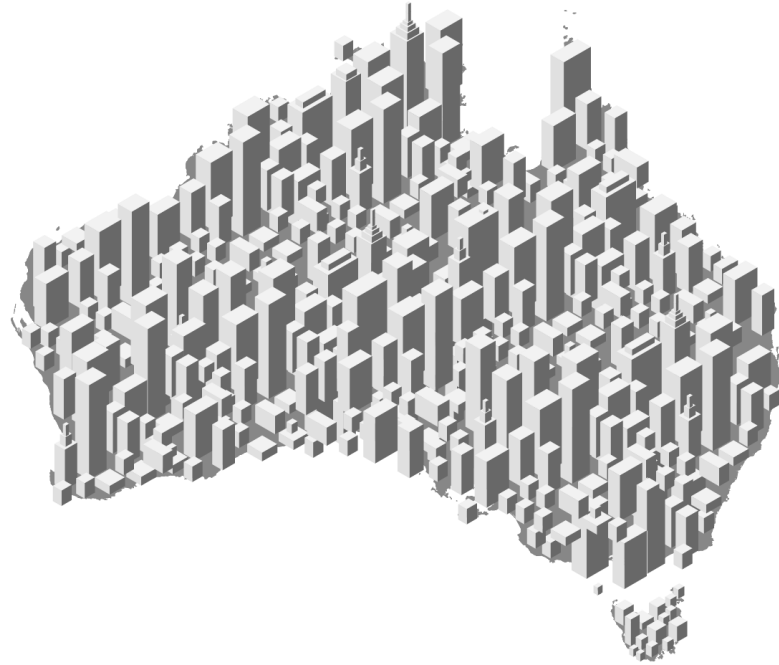
Originator City as a Platform Manifesto

Chief Marketing Officer, TM Forum

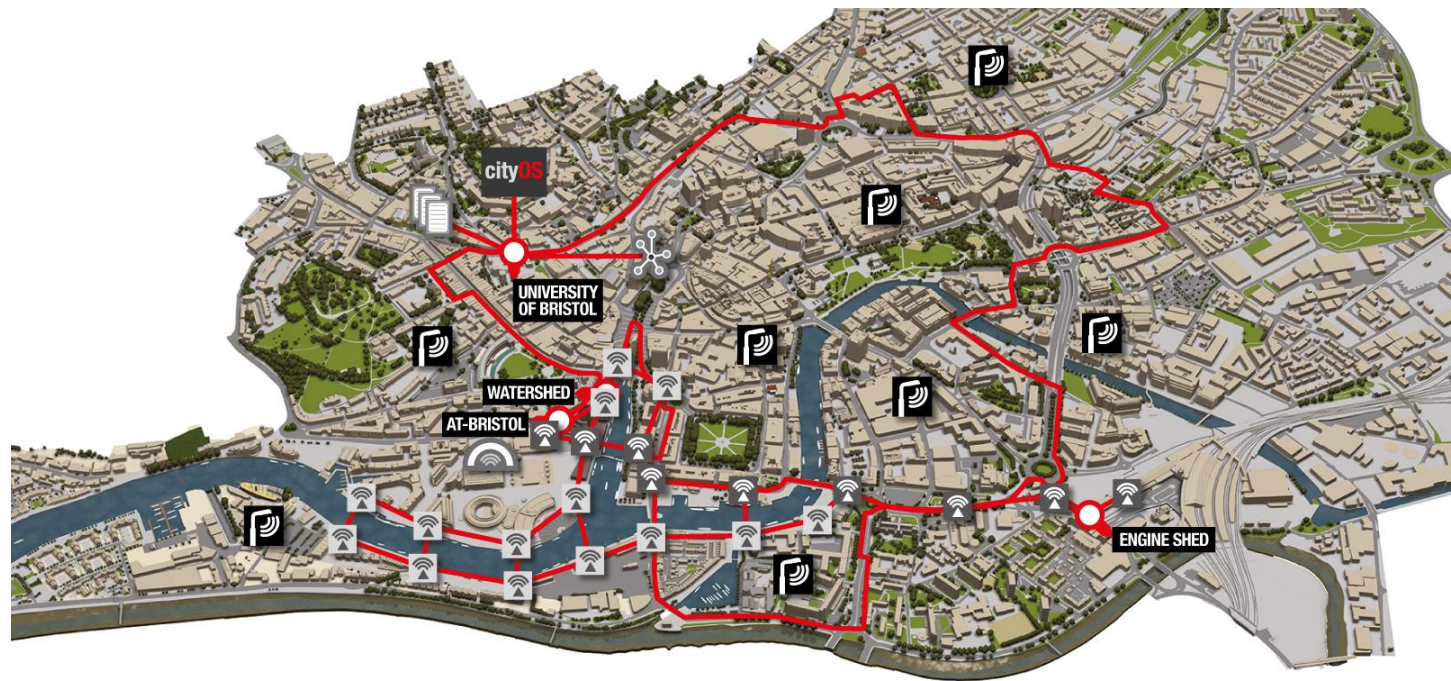
1m more people are born-or-move-into a city a day





An area the size of Australia will be urbanised by 2050



2015 Bristol Is Open: Fibre Core, 5G & IoT ‘canopy of connectivity’ across the city



ACTIVE NETWORK

-  Fibre network
-  Core network nodes with accessible rack space

-  Network emulator
-  High performance computer
-  cityOS Software
-  Data Dome

WIRELESS NETWORK

-  Main hubs
-  'Sub-hubs'
- 3G, 4G, LTE & 5G Technologies
- 60GHz & Experimental wireless

RF MESH NETWORK

-  1,500 lamp posts

2016 Emerging consensus on how to grow the City as a Platform

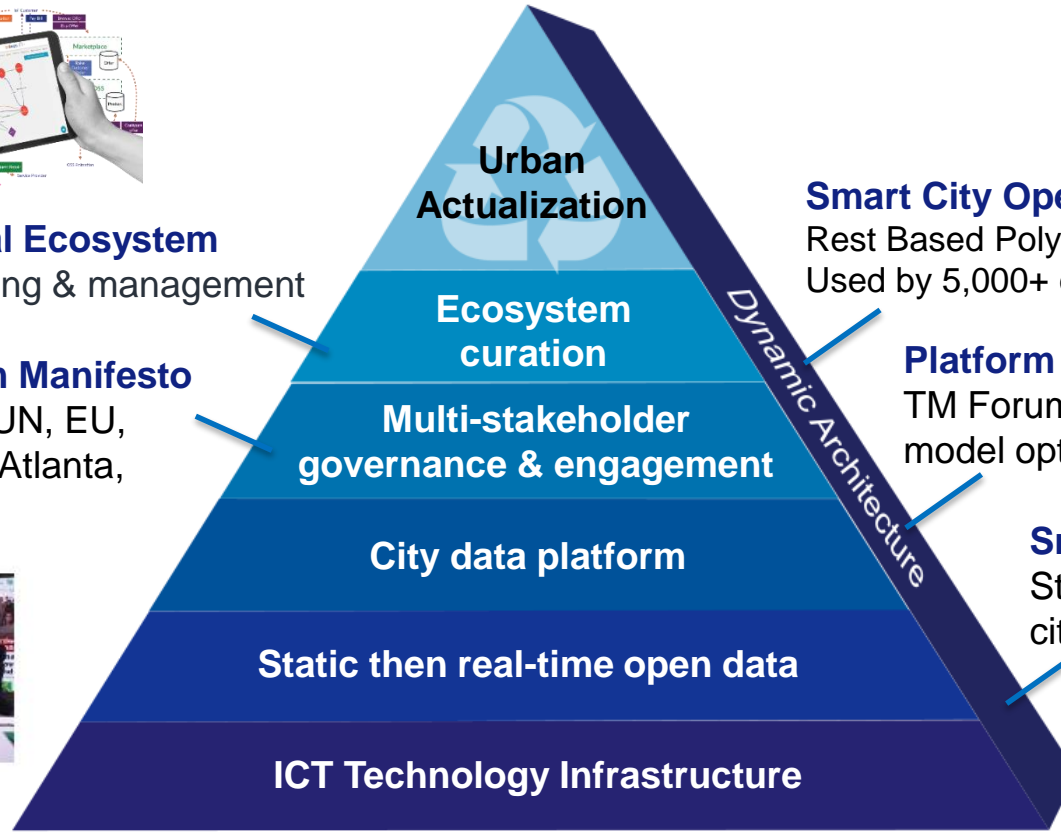


Digital Ecosystem

Mapping & management

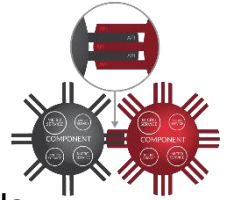
City as a Platform Manifesto

180+ signatories (UN, EU, Dubai, Barcelona, Atlanta, IBM, ZTE...)



Smart City Open APIs,

Rest Based Polymorphic APIs,
Used by 5,000+ developers in 65+ countries



Platform Data Models FIWARE,

TM Forum & others collaborate on
model optimisation

Smart City Benchmark

Standards based goal setting,
city peer-to-peer progress

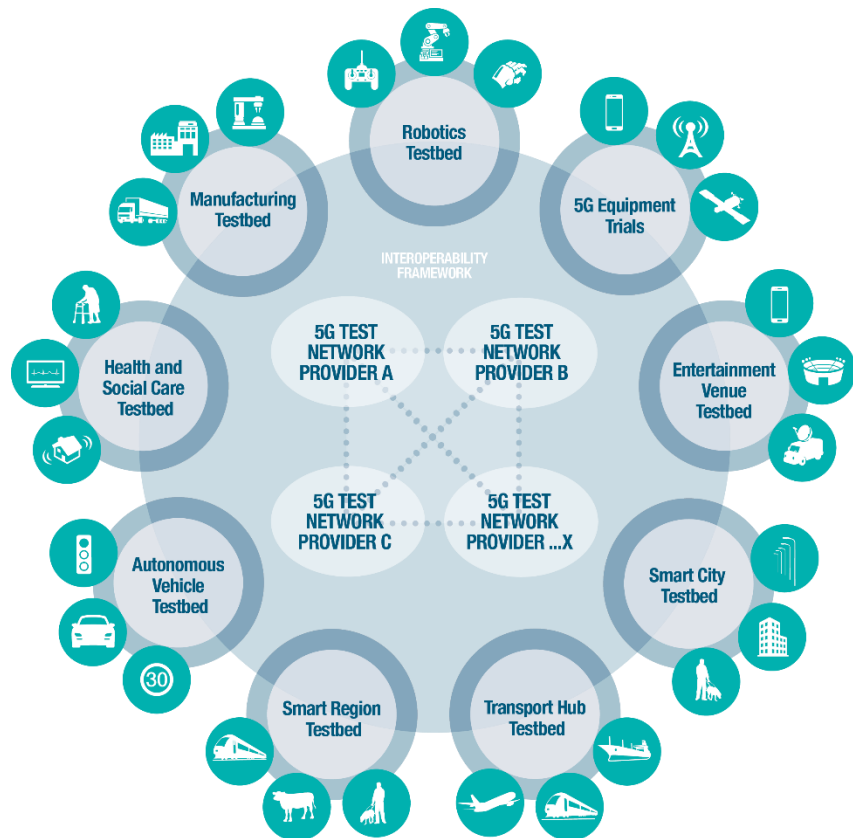


5G connectivity

Mass digitization



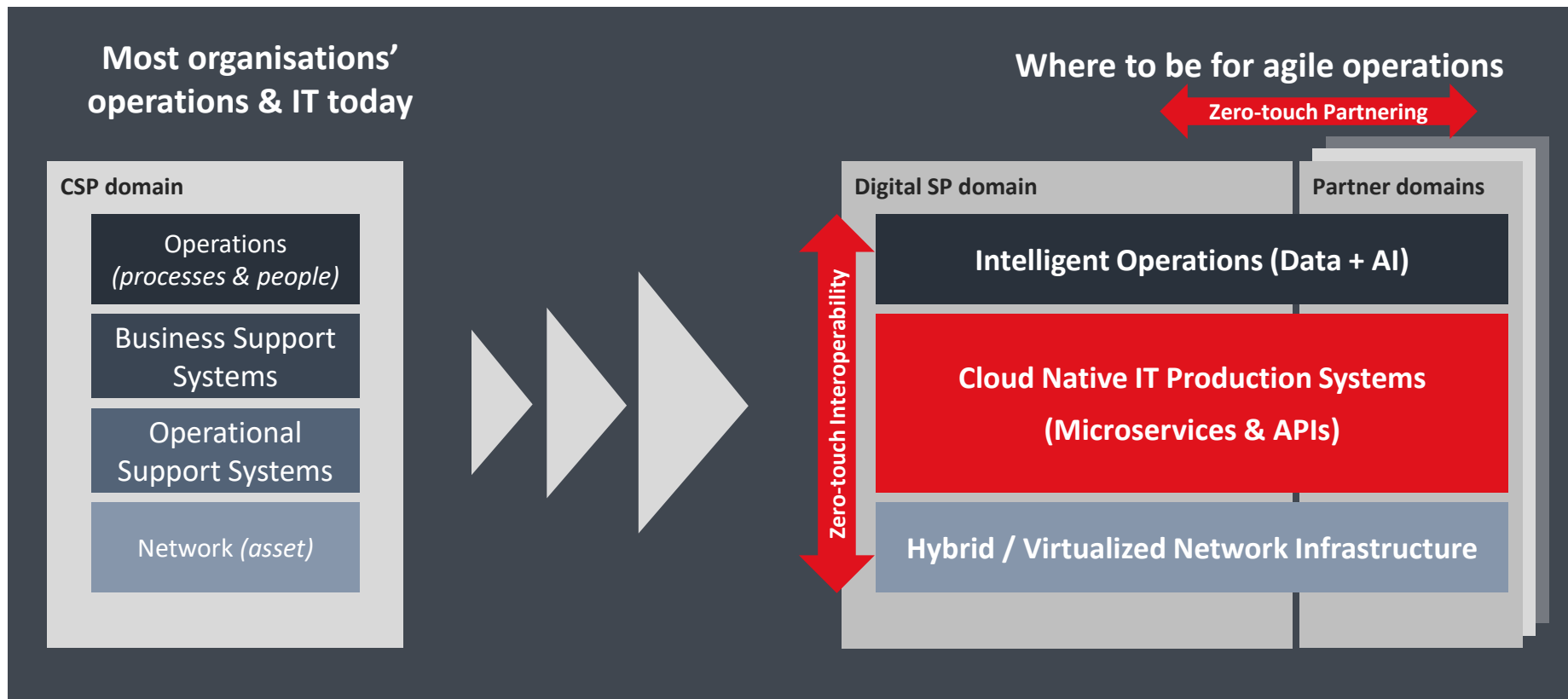
2018-19 UK 5G Tesbeds & Trials - £250m R&D programme + the Forum's Catalyst programme



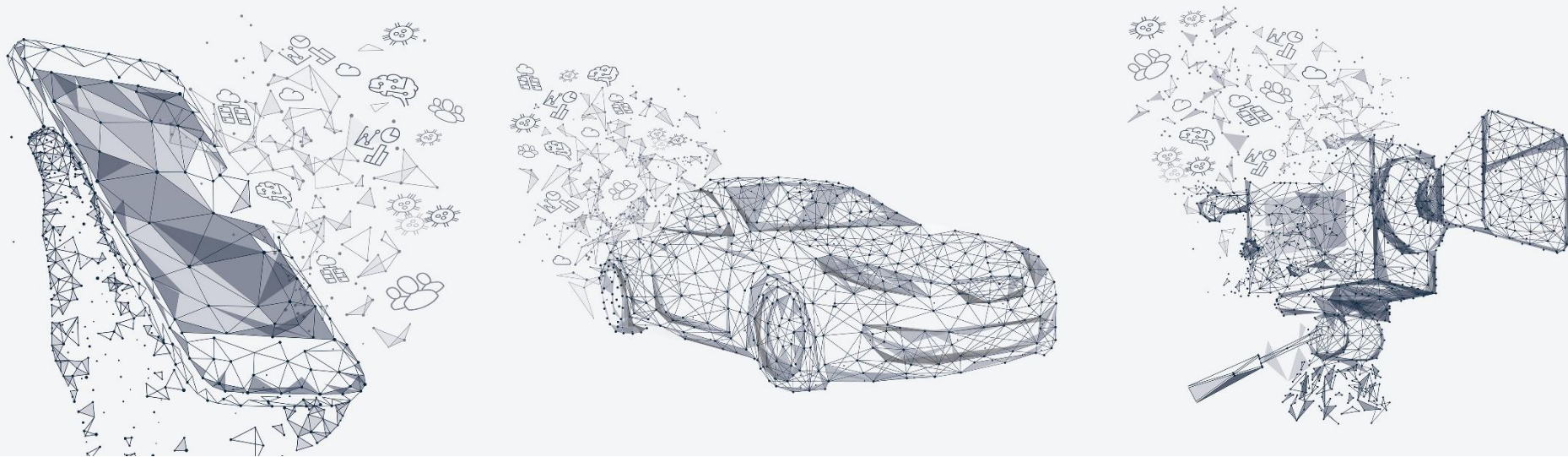
TM Forum Catalyst Programme



Telecoms and other industries are moving to the cloud to create agile intelligent operations



Transformation driven by principles of Simplification, Automation & Intelligence



- Continuously innovating: real-time, data-driven leveraging augmented intelligence
- Demand true partnerships: trusted; agile; innovative domain experts
- Dependent on partner-based platforms and open ecosystems

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