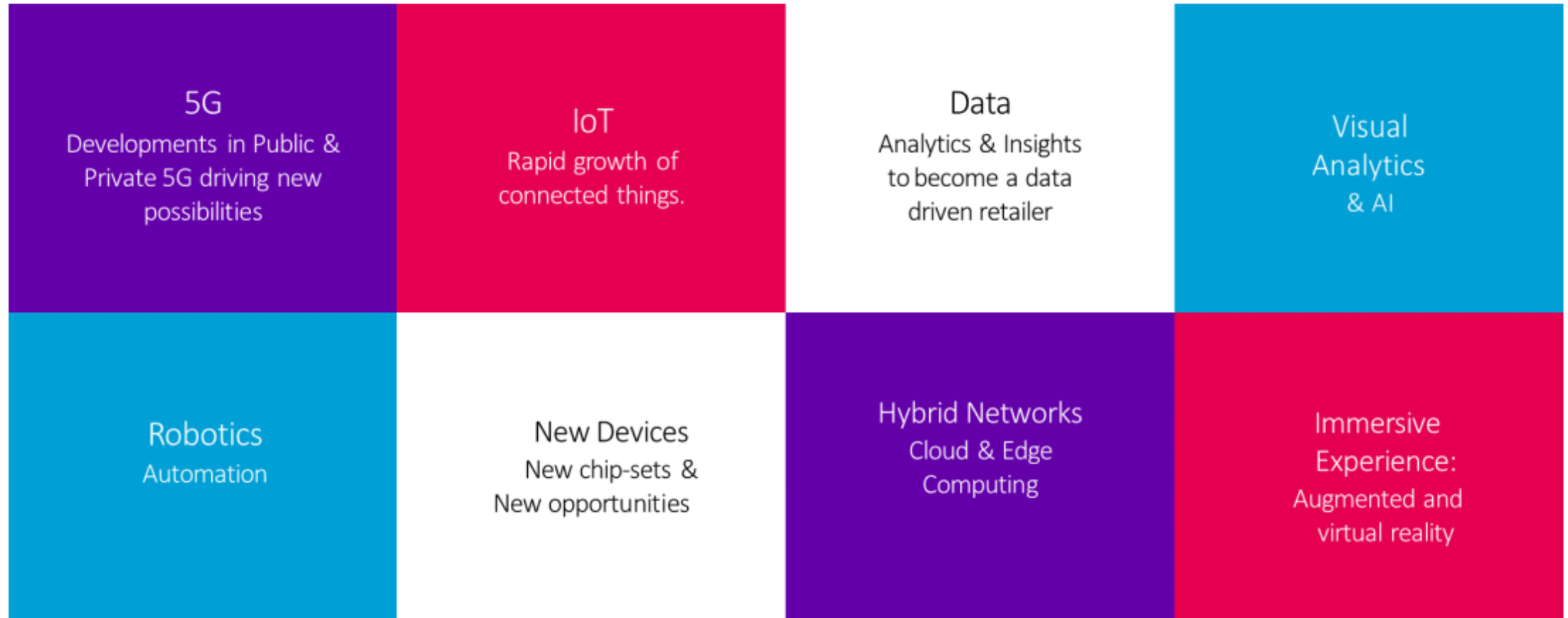




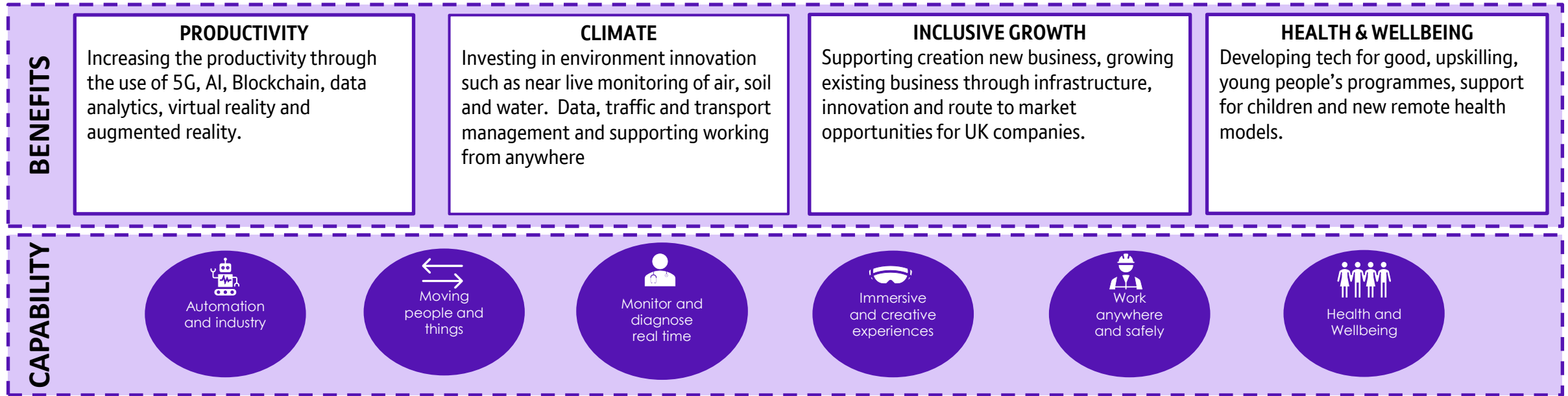
Creating a digital fabric



Technology themes we are seeing



Our Innovation Ecosystem Provides a Complete “Digital Fabric” For a Place



Coherent, repeatable and scalable technology foundation.



Sector Technology – On A Page

Area	Key deliveries
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● **Health & Social Care**
 Queen Elizabeth Hospital
 Guys St. Thomas Hospital
 West Midlands Ambulance

Reduce hospital admissions
 Remote diagnostic capability
 Reduce movement of individuals
 Home & care home support
 Connected hospital



● **Industry 4.0**
 Worcester 5G (indoor & outdoor)
 Unipart
 Bosch
 AE Aerospace
 MTC
 Hyperbat (Williams Eng. & Unipart)

Connected mobile robotics
 Automated Guided Vehicles
 Mobile Asset Location/calibration
 Machine Time-aaS
 Product Quality assure
 Split-rendering XR for design



● **Logistics, Construction & Surveillance**
 Belfast Harbour
 MoD

Improved operational efficiency
 Improved worker safety
 Smart surveillance
 Immersive collaboration



● **Environmental & Climate**
 Forth Valley Region
 Wales RCC

Green regeneration
 Green transport
 Green tourism
 Rural economy



● **Education & Academic**
 Warwick University
 Lincoln University
 North Lanarkshire Council

5G enabled UK University
 Autonomous CAV
 Agritech robotics
 Immersive education



● **Regional & City**
 Scotland
 Cardiff
 Belfast
 Westminster City Council

Green economic recovery
 Integrated public services
 Digital access
 Smart transport

Key Highlights:

- Defined a converged technology architecture – the “Digital Fabric”
 - Growth strategy for sales regions
 - Underpins sales MTP
 - National Champion Programme
- Started delivering a set of future outcome-based cross-sector converged solutions over that digital fabric:-
 - European first CAM use case at Warwick.
 - UK first 5G-led connected ambulance.
 - UK first 5G immersive classroom.
 - UK first harbour private 5G network.
 - UK first 5G-led connected campus.
 - UK first 5G enabled SME.

We have developed a 3 step process to deliver 5G-led solutions to our customers

Step 1: Co-creation



- Exploration of key business issues and potential solutions
- Creation of solution designs for priority areas

- **Business consultancy team** with industry, business architecture and process knowledge
- **Solutions development team with emerging technology**, partner and portfolio knowledge
- **Solution architects** with expertise across 5G, edge compute and SD-WAN/LAN
- **Radio access design expertise**
- **Programme management**

Capability required

Step 2 – Rapidly proto-type



- Paid for, rapidly deliver commercial proof of value trials to demonstrate customer ROI
- Using commercially available (or close to) technology and services

- **Rapidly deployable network and compute services from the EE lab** – “labs to live” concept
- Temporary 5G coverage e.g. **pop up 5G** trailers and 5G in a box solutions
- **Application and device partners**
- **Design, integration, testing and delivery expertise**, spanning device, RAN, core networks, edge compute and applications

Step 3 – Solution delivery



- Modular solution development for repeatability, horizontally and vertically
- Establish all supporting commercial and service mechanisms

- **Industry solution development** team to build the end to end solution in a modular fashion and on-board any new 3rd party elements
- **Commercial and deal team** to price and contract customer solutions
- **Managed service development**
- **IT and digital values streams** to provide supporting systems capability

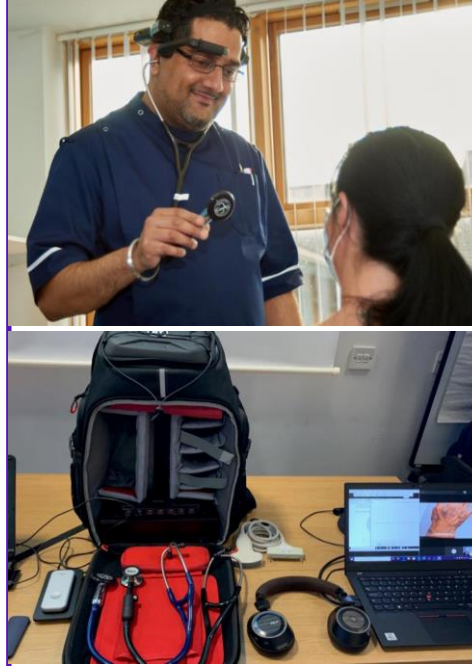
Innovation acceleration

Immersive Education



The UK's first 5G Immersive Classroom has been developed in partnership with North Lanarkshire Council, where a room has been transformed into an exciting and engaging learning environment. This exciting new technology will bring the real-world into an immersive experience for students. BT, makes this immersive experience possible through its public 5G network which brings ultrafast speeds and enhanced reliability for classrooms of the future.

Future of Healthcare



Following on from our 5G remote ambulance use case, BT have created a remote diagnostic capability for use by The University Hospital Birmingham, Guys & St Thomas Hospital, Care Homes, GPs, intermediate care centres and community settings. This includes "see what I see camera, medical devices such as remote stethoscope, remote ECG machine and remote ultrasounds equipment - all connected through a mobile converged digital fabric fitted inside a charging back pack.

Smart Places



BT have signed a deal to deliver the UK's first 5G private network in Belfast Harbour. This technology allows for further solutions to be deployed on top of our network via the implementation of Edge computing, IOT sensors & CCTV and data hub services.

Green Recovery



The "living laboratory" project will work by capturing, processing and sharing data from across the Forth Valley using a 5G Led - digital fabric. Using sensors, satellite data and AI, the lab will provide real time vital information on data, soil and air to inform decisions that will help support major economic and sustainability efforts.

Connected Campus



BT & the University of Warwick have formed a partnership enabling the first 5G University Connected Campus in the UK. In November 2020 5G Use Cases were demonstrated in connected autonomous mobility (CAM) and Immersive Reality (XR).

CAM demo was a EU first, with two CAM pods connected over 5G transmitting live LIDAR feed. XR demo had VR for remote learning and AR for remote maintenance.

Also collaborating in telemedicine and the creative industries

The Best a City has to Offer...

Interactive Menu

Travel Time & Distance

Information Panel

Digital Compass



Walkable Timelines

Famous People & Places of Westminster



Intelligent Data Insights



Security classification. Published version. Owner's name.