Digital Leader

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City of two stories

Some of the Key challenges the City came together to address

BRISTOL IS OPEN

Bristol has the first local authority large-scale wind turbine & commitment to city-scale low carbon, Smart Energy Infrastructure programme.

BRISTOL city leap

ENERGY SERVICE BRISTOL

Bristol is 3rd most congested city in UK

November 2018 Bristol was one of the First UK Cities to declare Climate Emergency

Pollution increase in health problems, 40,000 UK deaths p/a

Here
80% of the children go onto higher education

Here
Less than 5% of the children go onto higher education

Bristol has seen a growth of 50% of those 85+ over 10yrs

In Bristol 50% of people who use Social Care services are aged 75 + & Living in isolation is increasing

Local councils to see central funding fall 77% by 2020

Less Government expenditure: We need smarter ways of working

Better off Bristol

Middle income Bristol

Less well off Bristol

Henbury, Southmead, Kingsweston, Westbury-on-Trym, Horfield, Henleaze, Lockleaze, Frome Vale, Bishopston, Eastville, Redland, Hillfields, Cotham, Ashley, Easton, Clifton East, St George West, Clifton, Cabot, St George East, Lawrence Hill, Southville, Windmill Hill, Brislington, Bedminster, Knowle, Bishopsworth, Filwood, Hartcliffe, Hengrove, Stockwood, Whitchurch Park

Bristol is on a journey…

- **Early 2010s Bristol took the challenge to become Smart & Green**

- **Developed Smart City approach on:**
  - Smart Operation Centre, Smart Transport, Smart Data

- **Delivered suite of smart city initiatives… the awards followed**

  - Bristol Operation Centre

  - Bristol is Open

  - Bristol Energy

  - Bristol Waste

- **Demonstrates Bristol's ability to turn ideas into reality**

  - Strategy > R&D > Scale > Delivery

  - Evolution and lessons learnt from experimentation

BRISTOL IS OPEN

Bristol's journey to becoming a smart and liveable city

GLOMO Global Mobile Awards WINNER

1st HUAWEI UK SMART CITY INDEX 2017

BRISTOL 2015 EUROPEAN GREEN CAPITAL

wca 2016 Winner

In 2050, Bristol is a fair, healthy and sustainable city.

A city of hope and aspiration, where everyone can share in its success.

Connectivity

By 2050 everyone will be well-connected with digital services and transport that is efficient, sustainable and inclusive; supporting vibrant local neighbourhoods and a thriving centre

- Transport is healthy, active, sustainable, safe and enables easy movement throughout the city
- The city is well connected, supporting access to employment, education and services for all
- World class urban communication infrastructure and services underpin all we

Economy

By 2050 everyone in Bristol will contribute to a sustainable, inclusive and growing economy from which all will benefit

- Tackle persistent worklessness and economic exclusion
- Economic growth through boosting productivity
- Improved integration between neighbourhoods and employers.

Environment

By 2050 Bristol will be a sustainable city, with low impact on our planet and a healthy environment for all

- Bristol will be a carbon neutral city
- Everyone will have access to healthy, ethical and sustainably produced food
- Bristol will have an abundance of wildlife, all people will benefit from healthy natural environment.

Health and Wellbeing

By 2050 everyone in Bristol will have the opportunity to live a life in which they are mentally and physically healthy

- Mental health will be as important as physical health in Bristol
- Health inequalities will be reduced
- Children will grow up free of adverse childhood experiences having had the best start in life and support through their life.

Homes and Communities

By 2050 everyone in Bristol will live in a home that meets their needs within a thriving and safe community

- Every person in Bristol will be able to live in a home that they can afford and which is secure and warm
- Bristol is a safe city for all citizens and provides a safe environment for future generations
- Everyone can play their part in powerful, connected, inclusive neighbourhoods with access to the things needed for a good life.

Learning and Skills

By 2050 everyone in Bristol will have the best start in life, gaining the support skills they need to thrive and prosper in adulthood

- School engagement and attendance has improved has the development of people's life skills
- Improved support for children with Special Educational Needs and Looked After Children
- Improved post 16 offer developed with clear links to employment and skills pathways.

SUSTAINABLE DEVELOPMENT GOALS

BRISTOL ONE CITY

How Bristol Collaborated to develop a city strategy for all

EUROPEAN CAPITAL
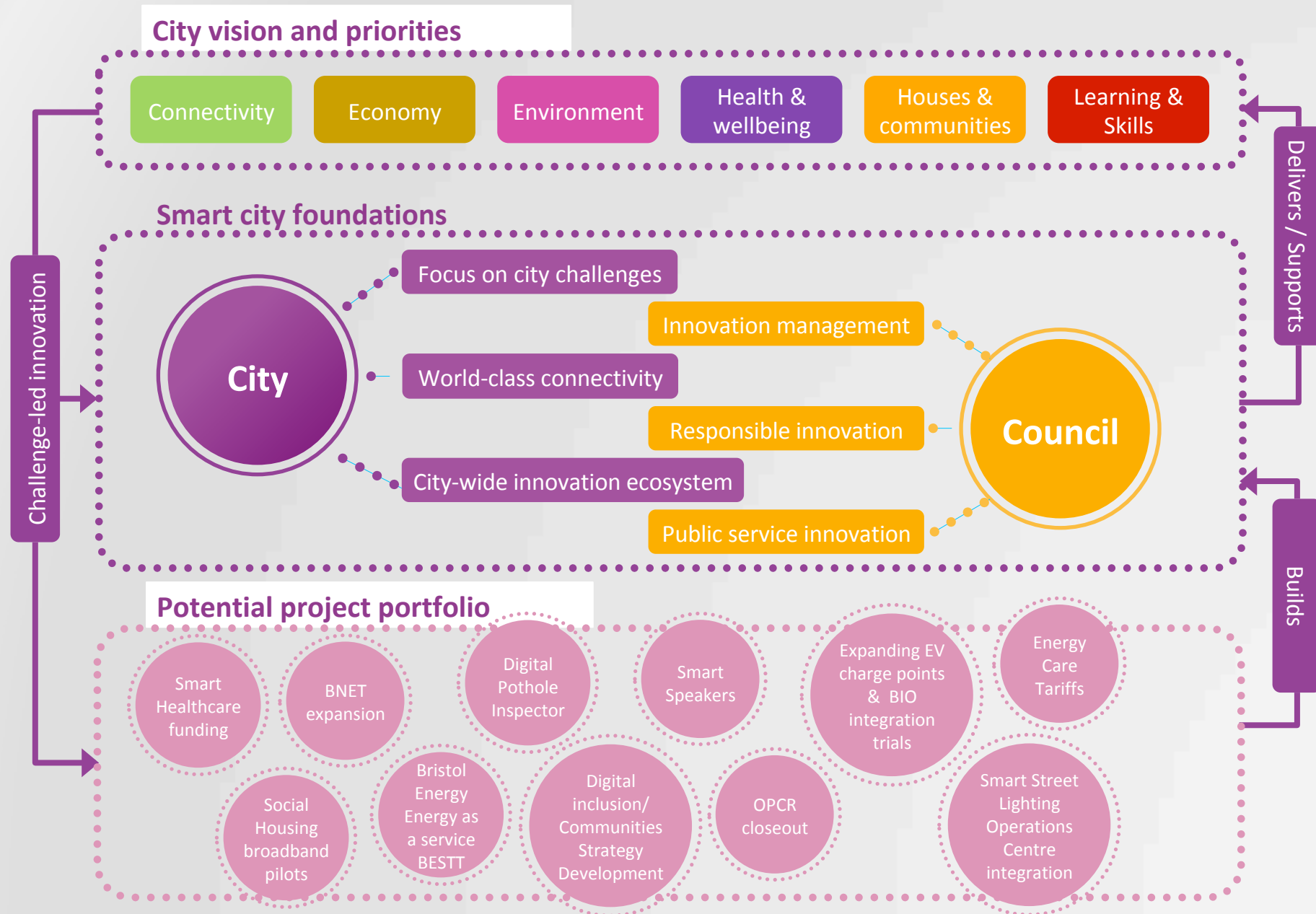OF INNOVATION
AWARDS

#iCapitalAwards

European Commission

https://www.bristolonecity.com/one-city-plan/
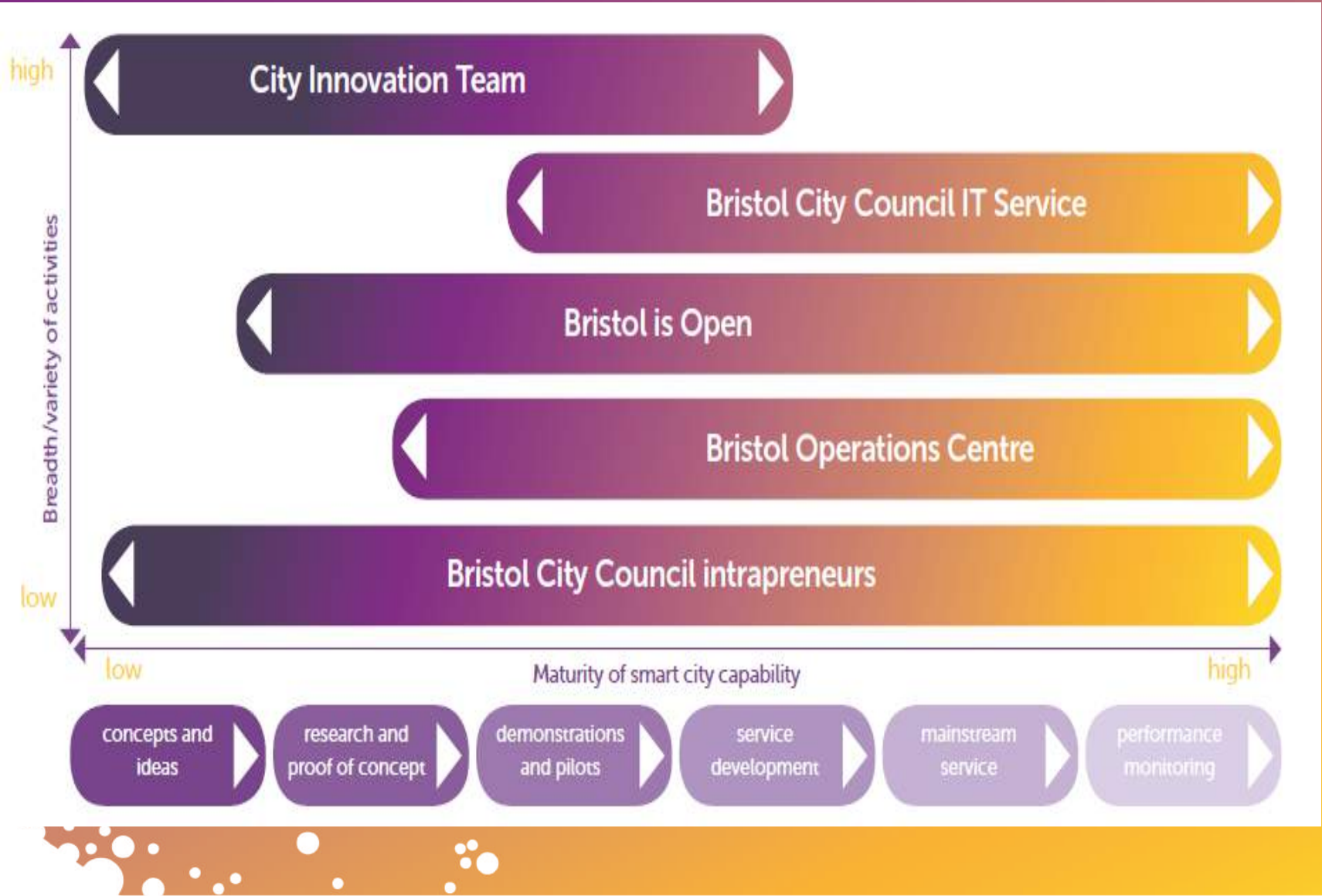
Connecting Bristol
Laying the foundations for a smart, well-connected future

BRISTOL CONNECTED CITY

Connecting Bristol on a page

City vision and priorities

| Connectivity | Economy | Environment | Health & wellbeing | Houses & communities | Learning & Skills |

Smart city foundations

City

Focus on city challenges

Innovation management

World-class connectivity

Responsible innovation

City-wide innovation ecosystem

Public service innovation

Council

Delivers / Supports

Challenge-led innovation

Builds

Potential project portfolio

Smart Healthcare funding

BNET expansion

Digital Pothole Inspector

Smart Speakers

Expanding EV charge points & BIO integration trials

Energy Care Tariffs

Social Housing broadband pilots

Bristol Energy Energy as a service BESTT

Digital inclusion/ Communities Strategy Development

OPCR closeout

Smart Street Lighting Operations Centre integration

B-NET, what is it ?

- Bristol City Council Network = B-NET
- Minimum of 115km Duct & Fibre Infrastructure across the city
- Purchased Redeffussion network, at least 75km of unused & unproven duct
- Linked with Bristol University Network
- Third biggest duct network in the city

Opportunities for investment & connectivity, enabled further in BNET new duct sections delivered under our 'dig once' policy

BRISTOL
CONNECTED CITY

What B-NET does for the City….

- What is connected to BNET
  - Essential Services
  - CCTV
  - Traffic signals / Management
  - Operations Centre
  - Own Public Digital Service

Case Study

Driven by our need to save lives

2018 the West of England Combined Authority secured £5 million from government to trial a superfast 5G network at tourist destinations in Bristol and Bath.

5G Smart Tourism project looked at new 5G technology and infrastructure in the West of England

Region of Collaboration

5G Tourism Visitor Safety - Objectives

- Provide improved visitor Safety Concepts

- Built in Harbour side

- Monitored out of Operation Centre

- Migrate to a live Event

- Provide some demonstrations

- Leave a operational legacy that could be developed

- Help reduce; Rescue call out cost; estimate £90K (Andy Goode: Fire Chief)

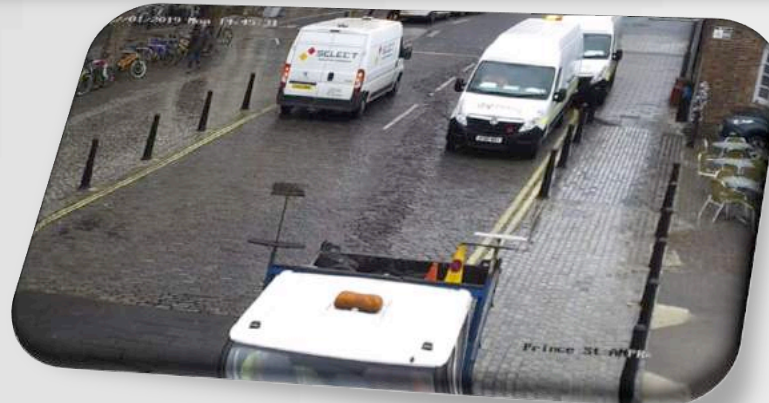Drivers for More Safety and Security

Recent spate of incidents

5G Tourism Safety & Security Outputs Left Packages

5G Tourism Safety & Security Outputs Vehicle Detection

5G Tourism Event Control

Sited With Harbour Festival Event control

Wirelessly Connected

Providing:
- Telephone
- WiFi
- Camera Visualization
- Crowd Analysis
- Marshal Tracking

Watch this space: we are still developing and refining the business case to look at the option to scale this solution to support a safer and better Bristol Visitor experience

Thank you for joining us today

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