

# INWARD INVESTMENT OPPORTUNITY

in Dorset



## 5G ECOSYSTEM

### 5G application in Dorset

Dorset has a thriving digital economy and a world-leading digital sector. Bournemouth and Poole are the UK's top areas for high growth digital businesses (Tech Nation Report 2017), supporting 15,000+ digital jobs worth over £352 million to the economy. The region is committed to becoming a first-class, smart and connected digital place supporting the future needs, economic expansion and productivity of industry.

Dorset is at the forefront of 5G wireless communications technology plans. Building on Government-backed pioneering 5G mapping work carried out in Bournemouth, Dorset is spearheading the development of a Smart Place ecosystem to include gigabit fibre connectivity, public WiFi, Internet of Things, 5G (low, mid and high bands) and a platform with an open, agnostic architecture that hosts 'place data' – enabling application development.



### The opportunity

Ten years ago, the 4G connectivity was the catalyst for mobile developers to create new applications and services through the App Store. 5G will enable enhanced mobile broadband but it will also enable massive machine type communications and ultra-reliable, ultra-low latency networks. This step change in connectivity will be transformational and provide an even bigger opportunity for industry to innovate and deliver new products, applications, services and experiences. The early deployment of Dorset's 'smart place' network and platform offers businesses the opportunity to gain first-mover advantage in global markets, enabling companies to conduct pioneering hardware and software R&D and to test new business models across a number of areas:

#### • Manufacturing

- » Manufacturers of mobile devices, intelligent devices and machines
- ~ e.g. smart home technology, wearables, vehicles, street furniture, robotics
- ~ IoT sensor equipment, IoT base station equipment (700-900MHz), telecoms including 5G (3.5GHz, 26GHz, 28GHz) equipment

#### • Infrastructure

- » Companies specialising in:
  - ~ Network design, 5G core networks, software defined networks, network virtualisation, cyber security, 5G network mapping, machine-to-machine communications, business models in dynamic spectrum allocation

#### • Platform

- » Open, agnostic city data architecture, cyber security, blockchain, artificial intelligence, data ethics, data governance, data analytics, data sharing; data visualisation, simulation modelling

#### • Applications

- » Smart city applications in sectors e.g. community, health and social care, mobility, security, education, environment, energy, finance, tourism, culture, retail, utilities
- » Creative applications using augmented reality, virtual reality, VFX and gaming retail, utilities



## Support for Dorset's digital economy

### Digital initiatives - a snapshot of opportunities:

- **Smart Place Research and Development Consortium**
  - › Accelerating Dorset's Smart Place programme enabling productivity, driving innovation and generating value for people, business and place
  - › Members include major private sector technology companies, local authorities, local universities, Dorset Local Enterprise Partnership (LEP), Dorset Clinical Commissioning Group and Public Health Dorset
- **The Dorset Cyber Alliance**
  - › Protecting and supporting Dorset businesses to create safe online environments to trade by addressing cyber security
- **Silicon South – [siliconsouth.org.uk](http://siliconsouth.org.uk)**
  - › Accelerating digital economy in Dorset
- **Dorset Gateway – [dorsetlep.co.uk](http://dorsetlep.co.uk)**
  - › Dorset LEP's business support service
- **Arts University Bournemouth's Innovation Studio**
  - › Increasing employability in the digital and creative industries
  - › Supporting research and innovation in Dorset

### Training and education:

- **Bournemouth University** has a cyber security unit and expertise in digital creative industries, including the National Centre for Digital Animation
- **Arts University Bournemouth** specialises in art, performance, design, media and creative / digital technology
- **Anglo-European College of Chiropractic** harnesses digital technologies to improve healthcare outcomes in the chiropractic field
- **Bournemouth and Poole College and Weymouth College** offer a range of digital intensive courses including creative and digital industries, computing, IT and engineering

## CASE STUDY

### Lansdowne Business District

Already a test bed for the development by Ordnance Survey of a 5G mapping tool, Dorset is playing a key role in the world-wide development of 5G technology. 5G is earmarked for launch in one of Bournemouth's primary business districts, Lansdowne. Alongside its planned revamp and transformation into a next generation commercial business centre, Lansdowne is set to become an epicentre for one of the UK's fastest growing digital economies, where ideas, innovation, technology and enterprise flourish.





## **DORSET – A HIGHLY DESIRABLE AND DYNAMIC PLACE TO LIVE AND WORK**

- Thriving economy – £17 billion GVA
- Growing population – 795,000+
- 47,000+ businesses
  - » Low churn and high survival rates compared with the rest of the UK
- City region encompassing Bournemouth, Christchurch and Poole
- Third largest financial sector in the UK after London and Edinburgh
- Second largest international education sector outside of London
- High levels of skills, qualifications and disposable incomes
- Low unemployment
- Outstanding coastline and countryside
- A superb quality of life – acting as a magnet for skilled people



## Connectivity

Dorset is situated centrally on the UK's South Coast and is exceptionally well-connected locally, regionally and globally.

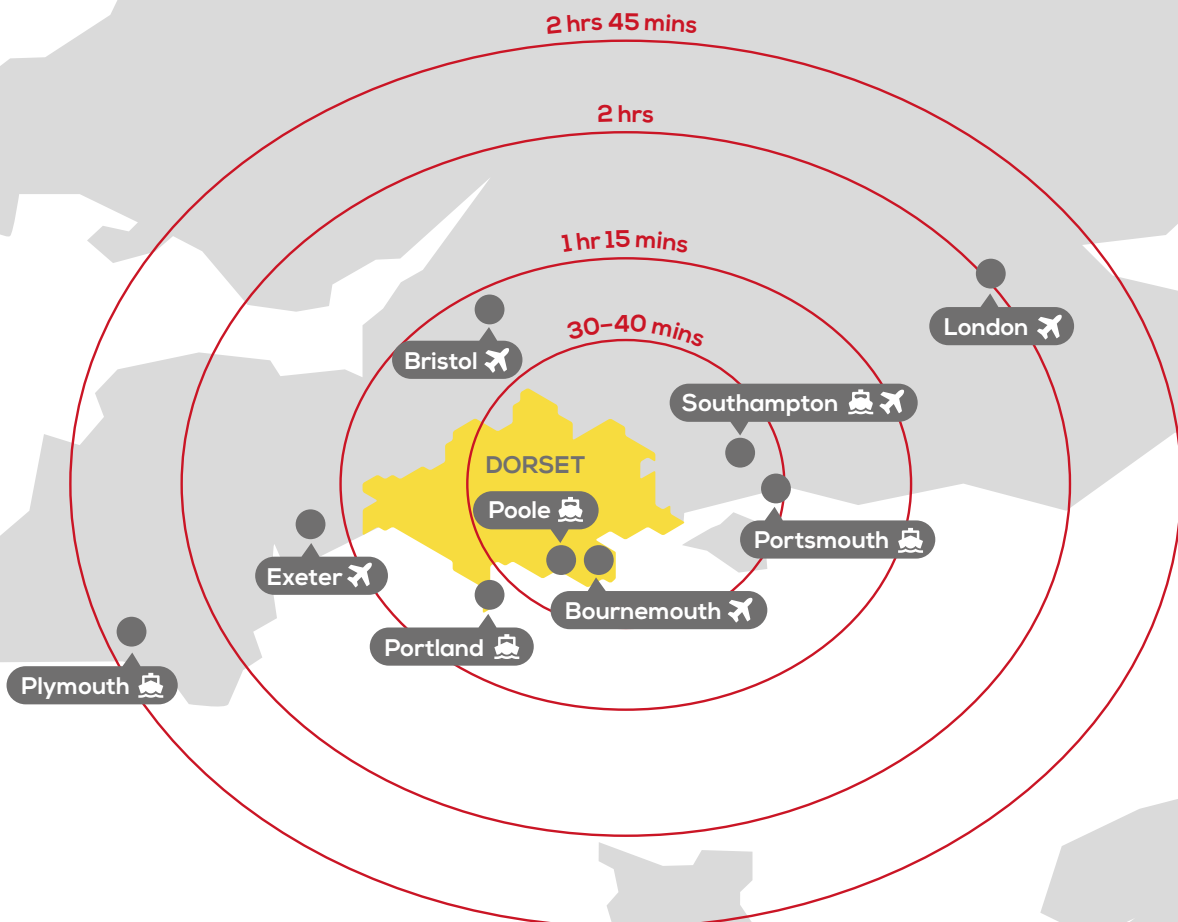
- Bournemouth Airport offers domestic and international flights to major cities within the UK, Europe and worldwide
- Direct train services to London Waterloo
- 90 minutes' drive to the M25 and London's Heathrow Airport
- Good access to the West via the A31 and to the East via the M27 and M3 south coast motorway network
- Ports at Poole and Portland

## Endorsements

"From Siemens Mobility Intelligent Traffic Systems UK headquarters in Dorset, a large team of design engineers create traffic management solutions for a global market. Having local access to test emerging 5G capability and participate in open collaboration through the Smart Place Research and Development Consortium will help Siemens Mobility enhance its global reputation for innovative, reliable traffic management solutions.

With its proof of concept plans in Lansdowne, Dorset has all the hallmarks of a world-class, digitally connected place for businesses wanting to take first mover advantage of the 5G era."

Paul Brookes, Head of Innovation, Siemens Mobility Limited, Intelligent Traffic Solutions



### For further information:

DorsetLEP@bournemouth.ac.uk | +44 1202 965868 | dorsetlep.co.uk | [@Dorsetlep](#)