

Proposal Title: «Reg_ProposalTitle»

Impact Summary

Climate Change & Energy	Green - Only positive impacts identified
Communities & Culture	Green - Only positive impacts identified
Waste & Resource Use	Amber - Minor negative impacts identified / unknown impacts
Economy	Green - Only positive impacts identified
Health & Wellbeing	Green - Only positive impacts identified
Learning & Skills	Green - Only positive impacts identified
Natural Environment	Amber - Minor negative impacts identified / unknown impacts
Sustainable Procurement	Amber - Minor negative impacts identified / unknown impacts
Transport & Accessibility	Amber - Minor negative impacts identified / unknown impacts



Major negative impacts identified



Minor negative impacts identified / unknown impacts



Only positive impacts identified



No positive or negative impacts identified

Answers provided indicate that the score for the carbon footprint of the proposal is: 2	The Carbon Footprint is banded as follows:		
	0-4	4.5-9.5	10-14
	Low	Moderate	High

Proposal ID: **261**

Proposal Title: **Smart Place Programme**

Type of Proposal: **Report**

Brief description:

This is the DIA to support the 29 Cabinet Report for the Smart Place Programme, due to be submitted in draft by 11 August. Included in the report are recommendations for Cabinet to approve the Smart Place Strategy and budget, and approve the commencement of the procurement for the Gigabit Speed Fibre component of the Programme.

Proposer's Name: **Ruth Spencer**

Proposer's Directorate: **Regeneration & Economy**

Proposer's Service Unit: **Development**

Estimated cost (£): **Between £25K and OJEU threshold**

If know, the cost amount (£): **£1.59m (subject to change as conversations with Finance develop)**

Ward(s) Affected (if applicable): **All Wards**

Sustainable Development Goals (SDGs) supported by the proposal:

1. No Poverty 2. Zero Hunger 3. Good Health and Well Being 4. Quality Education 7. Affordable and Clean Energy 8. Decent Work and Economic Growth 9. Industry, Innovation and Infrastructure 10. Reduced Inequalities 11. Sustainable Cities and Communities 13. Climate Action 16. Peace, Justice and Strong Institutions 17. Partnerships for the Goals

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Climate Change & Energy

Is the proposal likely to have any impacts (positive or negative) on addressing the causes and effects of climate change? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Has the proposal accounted for the potential impacts of climate change, e.g. flooding, storms or heatwaves? **Partially**
- 2) Does it assist reducing CO2 and other Green House Gas (GHG) emissions? E.g. reduction in energy or transport use, or waste produced. **Partially**
- 3) Will it increase energy efficiency (e.g. increased efficiency standards / better design / improved construction technologies / choice of materials) and/or reduce energy consumption? **Yes**
- 4) Will it increase the amount of energy obtained from renewable and low carbon sources? **Yes**

How was the overall impact of the proposal on its ability to positively address the cause and effects of climate change rated?

Green - Only positive impacts identified

The reasoning for the answer (details of impacts including evidence and knowledge gaps): **Key elements of the Smart Place Strategy are to 1) develop ubiquitous high speed connectivity 2) develop a place based data insight hub and 3) develop place based applications and services.**

1) Ubiquitous high speed connectivity will enable widespread deployment of Internet of Things (IoT) sensors. In this case, these sensors can be deployed to collect data remotely from a wide range of locations eg in sea water, in high risk flood areas

2) The data insight hub will collect and analyse this data at scale and enable the place to better monitor the impacts of climate change and make earlier interventions

3) Data collected from IoT devices and other sources will enable us to create applications that display this data to the public where appropriate and drive help behaviour change. Sustainable travel apps will help provide the information for the public to choose alternative transport modes such as walking and cycling. Community energy apps will enable communities to share the deployment of smart and sustainable energy infrastructure, driving the adoption in local communities.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

Through the deployment of Internet of Things Sensors, product manufacturing and transportation will be required. Where possible the programme intends to use local companies and ensure efficiencies are made in deliveries.

Consideration will also need to be given to the products' components and their resilience to the known impacts of climate change.

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Communities & Culture

Is the proposal likely to impact (positively or negatively) on the development of safe, vibrant, inclusive and engaged communities? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will it help maintain and expand vibrant voluntary and community organisations? **Yes**
- 2) Will it promote a safe community environment? **Yes**
- 3) Will it promote and develop cultural activities? **Yes**

How would the overall impact of the proposal on the development of safe, vibrant, inclusive and engaged communities be rated?

Green - Only positive impacts identified

Reasoning for the answer (details of impacts including evidence and knowledge gaps):

1) Development of 'vibrant communities' is a key objective of the Smart Place Strategy. It intends to develop a wide network of partnerships in order to support the voluntary sector. The aforementioned data insight hub and place applications is key in enabling different types of information to be shared appropriately and securely with multiple organisations.

2) The technology being developed in the Smart Place Programme will enable the implementation of a more sophisticated CCTV network across the region. A Proof of Concept (PoC) is currently in operation in partnership with BCP Security team to trial the use of software analytics on existing CCTV cameras. This enables more sophisticated searches and analysis in real time by an automated system rather than an individual, enabling efficiency and accuracy and ultimately leading to safer communities.

3) It will develop promote and develop cultural activities in many ways. The strategy will provide the digital connectivity for creative industries to transform. For example the use of Augmented and Virtual Reality requires high speed 5G Connectivity to operate. A recent PoC has trialled the use of 5G technology and augmented reality in the Lansdowne area of Bournemouth. The PoC aims to bring the high street back to life and drive footfall through the display of engaging imagery and historical information about the local area within an app. Local creative companies have been engaged in developing the app along with the creation of stunning vinyl imagery that is displayed in empty shop frontages in the Lansdowne.

3) The use of footfall data will enable the management of cultural activities

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

Pilots and Proof of Concepts have been undertaken prior to wider roll out to ensure project objectives are met.

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Waste & Resource Use

Is the proposal likely to have any impacts (positive or negative) on waste resource use or production and consumption? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will it prevent waste or promote the reduction, re-use, recycling or recovery of materials? **Yes**
- 2) Will it use sustainable production methods or reduce the need for resources? **Yes**
- 3) Will it manage the extraction and use of raw materials in ways that minimise depletion and cause no serious environmental damage? **Not Relevant**
- 4) Will it help to reduce the amount of water abstracted and / or used?
Don't know even though may be relevant

How would the overall impact of the proposal on the sustainable production and consumption of natural resources be rated?

Amber - Minor negative impacts identified / unknown impacts

The reasoning for the answer (details of impacts including evidence and knowledge gaps):
1) and 2): Via the ubiquitous high speed digital connectivity, the data insight hub and the place based applications and services, the Smart Place strategy aims to provide unrivalled insight at scale about the place. This information has many uses. For example, it can be shared with BCP Council and other public sector organisations such as PHE, DCCG, police, fire & rescue to make much more informed decisions enabling to more efficient use of resources. It will also, where appropriate, make insight available to industry to drive innovation in clean energy product development benefiting the local supply chain and ultimately the local area. In addition, it will enable information to be made available to the public, helping the public make more sustainable choices and driving behaviour change at scale.

3) and 4) The four key technology components of the strategy (gigabit fibre, 5G, data insight and applications and services) do not intend to use raw materials or cause any environmental damage.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

The gigabit speed fibre will require fibre cables to be fitted underground. However, compliance with all current environmental and health and safety legislation will be adhered to. Furthermore, it is possible to consider a less intrusive and extensive construction project if fibre cables are able to be laid at the same time as the Transforming Cities Fund projects, subject to an investment of £3m from the Council. More information on this can be provided.

It will be necessary to use a data centre in order to support operation of the data insight hub. There are environmental impacts associated with the use of data centres, particularly in the amount of energy required to keep data centres cool. More information on this can be provided. At a project level, it is intended to work with suppliers to engage them around reducing packaging waste where possible at procurement stage.

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Economy

Is the proposal likely to impact (positively or negatively) on the area's ability to support, maintain and grow a sustainable, diverse and thriving economy? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will the proposal encourage local business creation and / or growth? **Yes**
- 2) Will the proposal enable local jobs to be created or retained? **Yes**
- 3) Will the proposal promote sustainable business practices? **Yes**

How would the overall impact of the proposal on it's potential to support and maintain a sustainable, diverse and thriving economy be rated?

Green - Only positive impacts identified

The reasoning for the answer (details of impacts including evidence and knowledge gaps)

Economic growth is a major part of the Smart Place Strategy and aims to 'drive the prospects of businesses'. It is expected that the Smart Place Strategy will enable major economic growth due to the implementation of high speed digital connectivity and 5G due to the links between improved connectivity and productivity. Due to the highly innovative nature of a Council owned and managed 5G network and data insight hub, the programme is already attracting technology companies to locate in the area bringing improved job opportunities for local people. The strategy aims to improve digital skills for all and the recent consultation has evidenced the demand from this from local people.

In 2018, the Dorset Local Enterprise Partnership funded the Smart Place team to undertake a project specifically to drive economic growth and job creation in local businesses, 'Smart Place Pilot' (See Cabinet Report December 2020). This project included helping local digital businesses experiment with enhanced high speed digital connectivity and understand how new technologies could drive innovation in product development. Using this funding, in the Lansdowne area of Bournemouth, BCP Council built a gigabit speed fibre network, a 5G network, a public WIFI and Internet of Things Network. It engaged 60 companies by creating a Research & Development Consortium which led to the development of eight Proof of Concepts (PoCs). This led to the creation of 9 jobs worth £450,000 to the local economy. The LEP also funded the 'Investment Plan' which identified the economic, social and commercial benefits of investing in gigabit speed fibre, 5G, data insight and applications and services. This Investment Plan has led to identifying £150m of private inward investment opportunities. Our early market engagement with major infrastructure investors has identified multiple interested parties. More information can be provided on the outcomes of this.

In the future, the Smart Place team can engage with its broad network of technology companies to promote environmentally sustainable businesses practices.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc)

At a project level, consideration will be given to reporting the impacts of the Smart Place strategy on the local economy, particularly around job creation and number of SME's established in the local area.

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Health & Wellbeing

Is the proposal likely to impact (positively or negatively) on the creation of a inclusive and healthy social and physical environmental for all?

Yes

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will the proposal contribute to improving the health and wellbeing of residents?

Yes

- 2) Will the proposal contribute to reducing inequalities in health between different communities or groups?

Yes

- 3) Will the proposal contribute to a healthier and more sustainable physical environment?

Yes

How would the overall impact of the proposal on the creation of a fair and healthy social and physical environmental for all be rated?

Green - Only positive impacts identified

The reasoning for the answer (details of impacts including evidence and knowledge gaps):

1) Yes. The Smart Place strategy aims to 'improve the lives of residents' with objectives including helping people achieve healthier lifestyles. A wide range of initiatives will be made possible through the delivery of the proposed infrastructure. This could include applications that enable and empower self-care and applications to support the reduction of social isolation.

2) Yes. An example key component is delivering ubiquitous affordable high speed digital connectivity which aims to ensure all people have access to connectivity - something that is increasingly enabling us to go about and enjoy our every day lives.

3) Yes. For example, through the proposed Internet of Things network, we are able to collect and monitor air quality and make early interventions to improve where required.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

Consideration will be given to how we gather feedback from residents around the impact of these applications and connectivity. For example, the Smart Place team has previously run surveys with residents to assess the need and demand for some of its solutions, including a recent consultation in June 2021.

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Learning & Skills

Is the proposal likely to impact (positively or negatively) on a culture of ongoing engagement and excellence in learning and skills? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will it provide and/or improve opportunities for formal learning?
Partially
- 2) Will it provide and/or improve community learning and development?
Partially
- 3) Will it provide and/or improve opportunities for apprenticeships and other skill based learning?
Yes

How would the overall impact of the proposal on the encouragement of learning and skills be rated? **Green - Only positive impacts identified**

The reasoning for the answer (details of impacts including evidence and knowledge gaps):

1) Yes. The Smart Place Programme has a good relationship with both local universities and intends to work closely with both Bournemouth University and Arts University Bournemouth in providing 'real life' Smart Place projects for university students to benefit from.

2) Yes. A pilot initiative is underway in Boscombe to support the development of digital skills development

3) Yes. Through the Smart Place Research & Development Consortium we are able to engage directly with industry and promote the benefits of utilising apprenticeships through our own experience. A Digital Degree Apprentice has just completed their degree as part of the Smart Place team.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

The Smart Place team recently met with Childrens Services Director and it has been agreed to meet further with the Extended Leadership Team about possible benefits Smart Place can bring Childrens Services, particularly in relation to the Corporate Parenting Responsibility, including opportunities for jobs and apprenticeships in this field.

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Natural Environment

Is the proposal likely to impact (positively or negatively) on the protection or enhancement of local biodiversity or the access to and quality of natural environments?

Yes

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will it help protect and improve biodiversity i.e. habitats or species (including designated and non-designated)? **Yes**
- 2) Will it improve access to and connectivity of local green spaces whilst protecting and enhancing them? **Yes**
- 3) Will it help protect and enhance the landscape quality and character?
Partially
- 4) Will it help to protect and enhance the quality of the area's air, water and land?
Yes

How would the overall impact of your proposal on the protection and enhancement of natural environments be rated?

Amber - Minor negative impacts identified / unknown impacts

The reasoning for the answer (details of impacts including evidence and knowledge gaps):

1) Yes. The Internet of Things is an area of science and technology that can help in the fight against biodiversity loss and climate change. For example a monitoring system can be deployed that combines sensors and cameras can capture and transmit real-time information on wildlife and human activity anywhere in the region.

2) Yes. Applications can be developed that enable the location and access to our green spaces to be easily discovered.

3) Yes. Recently the Smart Places team conducted a pilot which embedded Internet of Things sensors in the cliff tops at East Cliff and transmitted data around the stability of the cliffside back to a dashboard that could share information with officers and send alerts if there were any causes for concern. This was in response to the cliff top landslide at East Cliff and the considerable damage this caused to the natural environment. This could be scaled up across the region.

4) Yes. As per (1)

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

3) Partially. As described, IoT technologies can have great benefits on monitoring our natural environment. However, in order for information to be collected, small sensors need to be installed on site and larger units deployed (generally on lamp columns) in order to deploy the network connectivity (including the deployment of 5G radios and access points) that enables data transmission which could be seen as negatively impacting the character of an area. Local consultation and explanation of the benefits this technology brings may be required in order to capture any concerns and

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reassure the general public. BCP Council recently ran a 'Call for Evidence' at an Overview & Scrutiny panel on the deployment of 5G technology. This was the first UK consultation on the benefits and risks associated with 5G technology and reached out to communities to get feedback. Two further sessions were held to review the evidence and the report formed a recommendation to Cabinet that they approve the deployment of a Council owned 5G network. This was approved, with an agreement that the Smart Place to team would monitor Electro Magnetic Field transmissions to ensure they remained within Public Health England and World Health Organisation safety limits. This information is publically available on the Smart Place website. Similar approaches could be taken in all aspects of this Decision Impact Assessment in regard to the protection of the natural environment.

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Sustainable Procurement

Is the proposal likely to involve the procurement of goods, services or works which risk negative impact on resources (including power, water, raw material extraction), natural environment or labour markets (e.g. welfare standards)?

Don't Know

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

Has or is it intended that the Strategic Procurement team be consulted?

Yes – already underway

If the Strategic Procurement team was not consulted, then the explanation for this is:

- 1) Do the Government Buying Standards (GBS) apply to goods, services and/or works that are planned to be bought?

Don't know even though may be relevant

- 2) Has sustainable resource use (e.g. energy & water consumption, waste streams, minerals use) been considered for whole life-cycle of the product/service/work?

Don't know even though may be relevant

- 3) Has the issue of carbon reduction (e.g. energy sources, transport issues) and adaptation (e.g. resilience against extreme weather events) been considered in the supply chain?

Don't know even though may be relevant

- 4) Is the product/service/work fairly traded i.e. ensures good working conditions, social benefits e.g. Fairtrade or similar standards?

Don't know even though may be relevant

- 5) Has the lotting strategy been optimised to improve prospects for local suppliers and SMEs?

Don't know even though may be relevant

- 6) If aspects of the requirement are unsustainable then is continued improvement factored into your contract with KPIs, and will this be monitored?

Don't know even though may be relevant

How is the overall impact of your proposal on procurement which supports sustainable resource use, environmental protection and progressive labour standards been rated?

Amber - Minor negative impacts identified / unknown impacts

The reasoning for the answer (details of impacts including evidence and knowledge gaps):

Since this proposal is at programme level, specific procurements have not yet been confirmed. When specific projects have been identified, the procurement processes above will be considered such as considerations given to transportation of goods and end of life treatment to products and supplies.

Details of proposed mitigation/remedial action and monitoring (inc. timescales, responsible officers, related business plans etc):

As above

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Transport & Accessibility

Is the proposal likely to have any impacts (positive or negative) on the provision of sustainable, accessible, affordable and safe transport services - improving links to jobs, schools, health and other services? **Yes**

If the answer was No, then the explanation is below (there are no answers to subsequent questions in this section):

- 1) Will it support and encourage the provision of sustainable and accessible modes of transport (including walking, cycling, bus, trains and low emission vehicles)?
Yes
- 2) Will it reduce the distances needed to travel to access work, leisure and other services?
Yes
- 3) Will it encourage affordable and safe transport options?
Yes

How would the overall impact of your proposal on the provision of sustainable, accessible, affordable and safe transport services be rated?

Amber - Minor negative impacts identified / unknown impacts

The reasoning for the answer (details of impacts including evidence and knowledge gaps):

1) The provision of sustainable travel applications, powered by the data insight hub will enable much better access to information which will empower the public to make more sustainable travel choices

2) The ubiquitous, affordable gigabit speed fibre will have a major impact on everyone's ability to work from home.

3) The provision of gigabit speed fibre will enable the foundation to connect our traffic camera network to high speed connectivity. Software can be added to cameras which enables detection of incidents and real time alerts for the emergency services.

Details of proposed mitigation and monitoring (inc. timescales, responsible officers, related business plans etc):

During the laying of fibre cabling there may be diversions/disruptions on the transport network which may lead to temporary traffic delays but these will be managed and mitigated in the same way as any transport network maintenance or civils work.

Short term project work will be mitigated wherever possible to enable the long term benefits of the programme. For example contractors will be encouraged to use sustainable transport choices where possible.