

## **Dorset LEP - Outline Business Case (Lite)**

The outline business case should be completed by 'public sector' organisation seeking to be considered for funding by Dorset Local Enterprise Partnership (DLEP) as part of the Dorset Pipeline Projects.

#### Things to consider before submitting your outline business case

It is recommended that you go through the following checklist. If you can answer 'yes' to the following statements, then this might be right for your project. Please note that entering 'no' does not mean that your outline business case will be unsuccessful. If you are unable to answer some of the questions or if you are unsure whether the project fits the scheme, please contact us as we can guide you through the application process or, alternatively, advise you on any other funding schemes available that may be right for your scheme. Please contact a member of the project management team (see the section below).

PROJECT STATUS	Yes 🗸	No X
My project requires capital funding	V	
I have an agreed design (if applicable) and detailed cost breakdown for my project	V	
The relevant legal and planning consents (if applicable) are in place or are expected imminently	V	
I can deliver my project by 31st March 2021	<b>V</b>	
The project is delivered within the Dorset County area	<b>V</b>	
I have not bid to Dorset LEP before with this project	<b>V</b>	
This project has local match funding	<b>V</b>	
This project is related to a currently funded / ongoing Dorset Growth Deal project	<b>V</b>	
This project is linked to the Industrial Strategy	<b>V</b>	
This project is linked to the Dorset LEP Strategic Economic Plan / Vision	<b>'</b>	

#### Submission of the Outline Business Case form

- ➤ The forms must be submitted to Dorset LEP Programme Manager, Daniela Doncakova ddoncakova@bournemouth.ac.uk and Dorset LEP Project Management Officer, Corey Kemp ckemp1@bournemouth.ac.uk
- > The deadline for submission: 17:00, Monday 23, September 2019.

If you wish to discuss your project idea in advance of your outline business case submission or if you have questions about the application process, please contact one of the members of our team:

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# **APPLICANT INFORMATION**

PROPOSED PROJECT				
Proposed project name	Dorset Smart Place Investment Plan			
Location of proposed project	BCP Council area, extending pan-Dorset			
Date of submission	20 September 2019			
	SCHEME PROMOTER			
Scheme promoter name	BCP Council (with Dorset Council)			
Scheme promoter address	Town Hall, Bournemouth			
Website	www.bcpcouncil.gov.uk			
PROJECT MANAGEMENT				
Name of project lead / project manager	Adrian Hale / Ruth Spencer			
Job title / role	Smart Place Strategy & Programming			
Address	Town Hall, Bournemouth			
Telephone	01202 4531349			
Email	adrian.hale@bcpcouncil.gov.uk			
A	BOUT YOUR ORGANISATION			
Details of your organisation	Local Authority			



#### Section A – Strategic Case

#### **Executive Summary**

Please set out a detailed description of the overall proposed project / scheme, particularly focusing on what the funding will be spent on (300 words or less).

A Smart Place is a 'place-based' approach that enables the collaboration between businesses, local people, the public sector, communities and other organisations, to deliver better economic, social and health outcomes through applying smart technology, Big Data and co-operative business models.

Through discussions with many industry partners it is clear that investment houses such as Infracapital, Macquarie, Aviva, Goldman Sachs, Cameron Barney and Amber Infrastructure have significant funds available ready to invest in major place-based digital projects. Over £350m of private funds have been identified for Belfast (part of its City Deal) and similar levels of investment are being made in various cities and places across the UK and Europe.

For Dorset to be 'investor ready' and to take advantage of the relationships that both BCP Council and Dorset Council have been building with industry and government there is an urgent need to develop a Smart Place 'Investment Plan'. This would articulate the unique opportunity for investing in digital in Dorset enabling the county to be at the forefront of digital connectivity and innovation. The purpose of the Investment Plan is to attract investment of around £500m into the urban area with a similar amount for rural Dorset.

BCP Council has already set out its 6-year Smart Place programme (see Appendix B) and through its Smart Place R&D consortium has formed relationships with global industry partners, who, with the right private sector investment, are well placed to help deliver Dorset's Smart Place ambitions.

The proposed Smart Place Investment Plan will generally accord with Treasury's '5-Case model' business case and therefore could also be used to attract government funding.

The Investment Plan would provide a detailed 'digital' annex to the Dorset Local Industry Strategy.

The need for a pan-Dorset digital business case/investment plan has been discussed at recent Connected Dorset meetings.



#### **Project Objectives**

Please provide key specific objectives planned to be achieved by this project – these should be SMART (Specific, Measurable, Achievable, Realistic, Time-bound) - 200 words or less:

#### **Primary Objective:**

By July 2020 to produce a Smart Place Investment Plan that will subsequently be used to attract significant inward investment of up to £1bn for the Dorset area to create a Smart Place, implementing associated digital connectivity and technologies.

#### Key objectives:

- Assessment of business models and revenue-raising opportunities in order to forecast probable return(s) on investment and ongoing viability, making the case for external investment and subsequent sustainable management of the Smart Place (thereby minimising ongoing financial risk and commitment from the LEP and public sector bodies);
- 2. Providing evidence to support bids for major government investment including the Rural/Urban Connected Communities fund and DCMS' 'Outside-In' gigabit fibre programme;
- 3. Costings for implementation and management of the Smart Place including digital connectivity (fibre and wireless) and the Smart Place data platform;
- 4. Assessment of anticipated economic, social and health benefits;
- 5. Assessment of potential service cost savings for the public sector, in particular local authorities and the health service;
- 6. Legal and procurement assurance that the approach to be taken meets state aid and competition legislation, including assurance on 'Special Purpose Vehicle' options;
- 7. A recommendation on the preferred Smart Place 'Special Purpose Vehicle' (delivery vehicle) option.



#### **Rationale and Background**

Narrative to include reasons why project is being undertaken, evidence of why the project is needed (including stakeholder engagement) and how will the project delivers the brief taking into account the local strategic objectives as outlined in Dorset's Strategic Economic Plan and Vision and national strategic objectives within the Industrial Strategy, please include maps/ graphs as appendices.

In 2018, Dorset County Council calculated that within Dorset there was a £2.5bn productivity deficit per annum compared to the UK average. Businesses within Dorset recognise the lack of good quality digital connectivity as a major factor affecting their competitiveness. **Only 7.54% of properties and businesses within the Dorset LEP area have access to gigabit fibre**, compared to the UK average of 8.92%. It is conservatively estimated that this contributes £250m per annum towards the productivity deficit. In mainland Europe many places have in excess of 70% gigabit connectivity. Government has indicated that the roll out of 5G alone could generate £173bn to the UK economy between 2020 and 2030. Based upon population, this equates to £400m per annum growth in Dorset's economy by 2030.

The Investment Plan aligns with government's Industrial Strategy in regard to the 5 foundations that support government's vision for a transformed economy:

Ideas: the world's most innovative economy

<u>People</u>: good jobs and greater earning power for all <u>Infrastructure</u>: a major upgrade to the UK's infrastructure

Business Environment: the best place to start and grow a business

Places: prosperous communities across the UK.

The Investment Plan also aligns perfectly with the Industrial Strategy's first 4 Grand Challenges:

Artificial Intelligence and data; Ageing society Clean growth Future of mobility

The Smart Place applications and use cases (such as health, social care, transport and environment) that are planned as a result of the proposed inward investment in digital technologies would specifically support each of these Grand Challenges and help Dorset to lead on innovation in these areas.

Dorset has one of the highest proportions of older people population nationally and faces significant challenges around how to care for older people. Inward investment would support both the Dorset Clinical Commissioning Group (DCCG) and Bournemouth University's work around digital healthcare, as well as the Councils' Smart Place social care initiatives including using digital to support 'adaptive living.' It also supports Dorset Council's 'Routes to Inclusion' programme seeking to tackle digital exclusion.

The project builds upon work already supported by the LEP including the Orthopaedic Research Institute (ORI) project and the Digital/Smart Place Pilot at the Lansdowne.

The Smart Place approach is supported by the Councils at both a political level and senior management level. Bournemouth University will also be a key contributor and beneficiary from the development of the Smart Place programme and is fully supportive (see letter attached). The DCCG is working closely with both councils and the university and also supports a county-wide Smart Place approach.



Timescale Length of project to completion.	
Project start date	1 November 2019
Project end date	31 July 2020
Outcomes (up to March 2021) achieved by	31 July 2020 for the Investment Plan, then 8 months for attracting initial upfront investment to March 2021. (5-years thereafter for further investment and implementation)

## Section B – Economic Case

<b>Business Options</b>	
	commendation against a number of options. The preferred option must be
	cisions why that is the preferred option and why others were not taken forward.
Do nothing	Dorset misses out on the opportunity to benefit from significant inward
(Option 1)	investment into digital and Smart Place technology, which will go
	elsewhere. The county continues to be subject to the commercial market
	for the delivery of digital connectivity, in terms of speed and geographical
	coverage. Productivity continues to lag behind UK average (and mainland
	Europe) and significant health and social benefits are not realised.
Do the minimum	A Do-Minimum option is to deliver a high-level Investment Plan in-house.
(Option 2)	Whilst this could articulate some of the benefits, it is unlikely that it
(	would be in sufficient detail for prospective investors.
Do something	Undertake a comprehensive Investment Plan for the BCP Council area
(Option 3)	only. This would involve the commissioning of recognised partners and
	consultants to support the development of the Investment Plan and
	provide greater assurance to prospective investors. (Estimated cost
	£250k)
Do something	Preferred Option: Undertake a comprehensive Investment Plan for the
(Option 4)	whole of Dorset (LEP) area. This would involve the commissioning of
	recognised partners and consultants to support the development of the
	Investment Plan and provide greater assurance to prospective investors.
	The advantage of a Pan-Dorset plan would be to extend the Smart Place
	delivery and benefits across the whole of Dorset and provide greater
	opportunity for potential investors (Estimated cost £380k)

<b>Key milestones</b> List the key milestones proposed for the delivery of your pair necessary.	roject and their delivery date. Add additional rows
Milestone activity:	Completed by:
Confirmation of Funding from the LEP	November 2019
Commissioning partners and consultants	January 2020
Completion of Investment Plan	July 2020



#### **Financial Case**

Narrative surrounding the estimated detailed costs and how they were derived, detail on how risks have been costed and where any local contributions come from, please consider if State Aid would affect this project.

The costs have been derived from an outline proposition from Connected Places Catapult, recent management consultant commissions and internal discussions with BCP procurement.

Local contributions will be from council officer time (£20k), and in-kind contributions from partners, particularly those involved in the BCP Smart Place R&D Consortium. It is estimated that the value of non-chargeable consultancy fees would be in the region of £60k.

Costs Summary of costs for high level elements of the projects.	
Expenditure Item	Cost (£)
In-house Council resources	£100,000 + £20,000 match funding
Specialist Consultancy(s) Support	£180,000
Specialist Legal, and Procurement Support	£100,000
Partner Support	£60,000 match funding

	2019/20	2020/21	Total
Funding requested	100,000	280,000	£380,000
Match funding	10,000	10,000	£20,000
Other financial	10,000	50,000	£60,000
investment			
<b>Total Project Cost</b>	120,000	360,000	£460,000



Description of risk	Pription of risk Initial risk Description of likely impact and consequences if risk occurs Risk response(s)	Risk response(s)	Risk folk	owing respo	Risk owner				
	Prob.	Impact	Score	_		Prob.	Impact	Score	
Delay in procuring supporting consultants	3	3	9	Delay to commencement of development of Investment Plan	Early engagement with the procurement team	2	3	6	BCP Council
Problem attracting appropriate supporting consultants	2	3	6	Delay to commencement of development of Investment Plan	Informal discussions have already taken place and interest has been confirmed	1	3	3	BCP Council
Investment Plan fails to make the investment case	2	5	10	Failure to attract anticipated level of investment	Discussions have confirmed major investment is already taking place elsewhere and major global companies have already expressed an interest in investing in Dorset based upon local Smart Place thinking and progress	1	5	5	BCP Council/ Dorset Counci

### **Guidance on completing Major Risks:**

- Impact and probability ("prob") to be recorded on a scale of 1-5, where 5 is high.
- The risk score is calculated by multiplying the risk probability ("prob") and the risk impact.



#### Describe the project outputs in order of significance.

Please outline immediate outputs of the scheme i.e. length of road built, floorspace created, equipment bought, etc.

#### The key project outputs are:

- 1. The Investment Plan to enable potential investors to make an early decision on significant levels of funding for digital connectivity in Dorset (estimated value £1bn). The Investment Plan will generally be in accordance with Treasury's '5-Case model':
  - a. The Strategic Case;
  - b. The Economic Case;
  - c. The Commercial Case:
  - d. The Financial Case and
  - e. The Management Case.
- 2. Network plans for pan-Dorset gigabit fibre deployment (targeting 70% coverage across Dorset within 5 years and 100% coverage within 10 years);
- 3. Network plans for pan-Dorset wireless deployment, including 5G, IoT and public Wi-Fi.
- 4. The outline architecture for a Smart Place data platform and associated hardware and software to host, manage and aggregate 'place-based' data at scale, including artificial intelligence and machine learning.

Ultimately the inward investment would be used to develop the 6-year Smart Place Programme to include:

- Digital infrastructure, including gigabit fibre and wireless technologies to provide connectivity across the whole of Dorset;
- Smart Place data platform (City Brain) to host, manage and aggregate 'place-based' data at scale, including artificial intelligence and machine learning;
- Place-based applications to enhance social and economic outcomes e.g. business, mobility, health, environment and energy applications;
- Major opportunities for local industries and public bodies to innovate in digital technologies and in particular 5G, AI and Machine Learning.



#### **Expected benefits**

Additional measurable benefits delivered as a result of the project (against baseline), for the surrounding area, supply chain etc. Including the use of new technology, clean growth, etc. Can be qualitative and quantitative

- 1. Economic: Significant opportunity for the advanced manufacturing sector in Dorset to be at the forefront of developing 5G-enabled 'machines', AI and machine learning. (Positive conversations regarding investment in Dorset have already taken place with the world's leading 5G chipset manufacturer and major global companies leading on machine learning and AI);
- 2. Health & Wellbeing: A Smart Place approach will enable a transformation in how services are provided for local people, using digital technologies and data at scale to deliver far better health, well-being, accessibility, social inclusion and environmental outcomes. It will enable further innovation around the digital health agenda being undertaken by the Dorset Clinical Commissioning Group and Bournemouth University and the assisted living programmes being pursued in social care by both Councils;
- 3. Skills & Education: The investment of major global companies in Dorset unlocks considerable opportunities for education locally. Immediate opportunities in Smart Place cyber security and data analytics are already being discussed with Bournemouth University. There will also be excellent opportunities for colleges, schools and businesses to benefit from the presence of major digital companies, building on the work of Dorset Council in growing and developing local digital skills;

(Global companies currently engaged include: Alibaba; Samsung, Qualcomm, Nokia; Huawei; Bosch, Cisco, Reliance Industries, Amazon, Microsoft; Siemens)

#### **Expected dis-benefits**

Potential outcomes perceived as negative by one or more stakeholders, which would arise as actual consequences (not risks) of carrying out project.

Some members of the public have perceived health concerns around the deployment of wireless technology (including 5G).

Some minor disruption to traffic would take place due to the installation of ducting for gigabit fibre and antennae for wireless connectivity.



#### **Investment Appraisal**

Compare aggregated benefits and dis-benefits to project costs using Return On Investment (ROI) measure.

The following high-level ROI calculation is based upon the benefits that would accrue if investment is secured and the Dorset Smart Place is delivered as a result of developing the Smart Place Investment Plan. (It does not represent the ROI of developing the Investment Plan in isolation).

Refer to ROI Calculation (Appendix A)

Discounted Present Value (PV) Analysis - 15-year Assessment

#### **Present Value Benefits accrued over 15 years:**

- Addressing Productivity Deficit with rest of UK (Digital) = £1,861m
   Assumes 80% of estimated annual £250m deficit will be addressed
- 2. Economic Growth due to provision of 5G = £4,600mFCCG's report\* suggests that UK leadership in 5G could result in the opportunity to create £173 billion of incremental UK GDP growth over a ten-year period from 2020 to 2030— which for Dorset equates to £400.0m per annum by 2030
- Permanent jobs 200 extra-over newly created permanent jobs to operate Smart Place = £107.0m

Figures based upon ECON-i Economic Impact Assessment

4. Temporary construction jobs –Digital connectivity/Smart Place (£500m) = £308.8m Figures based upon ECON-i Economic Impact Assessment

Total Value of Benefits = £6,876.4m

#### **Present Value Costs accrued over 15 years:**

- 1. Smart Place Development Costs = £1149.4m
- 2. Smart Place Operational Costs = £117.7m

  Assumes Smart Place operational costs of £15m per annum

Total Value of Costs = £1267.1m

15-Year Benefits to Cost Ratio (BCR – ROI measure) = 5.4: 1\*\*

\* DCMS/HM Treasury "Next Generation Mobile Technologies: A 5G Strategy for the UK" 2017 citing the Future Communications Challenge Group "UK strategy and plan for 5G & Digitisation – driving economic growth and productivity" 2017 <a href="https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/597421/07.03.1">https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/597421/07.03.1</a>

7 5G strategy - for publication.pdf

\*\* The BCR/ROI measure does not take into account the likely considerable social and healthcare benefits; the significant operational savings for the local authorities and Dorset healthcare; nor the potential income that could be generated through a Smart Place approach. These additional benefits would be assessed as part of the Investment Plan. The true ROI is therefore expected to be far in excess of 5.4:1.



#### **Environmental Impact**

Please identify how the project will be managed so as to ensure, as far as reasonably possible, the development is sustainable and there is minimal damaging environmental impact (200 words or less).

This project involves the production of the Smart Place Investment Plan, therefore has no immediate impact on the environment.

It will subsequently give rise to investment and then the physical development of a Smart Place and there will be environmental impacts resulting form construction and the use of materials. However, the Smart City approach will encourage greater use of sustainable travel, cutting down on emissions. It will also enable better use of energy and better management of the environment through greater visibility of information and data and associated behaviour change.

	2019/2020	2020/2021	2021/2025	Total
Productivity value increase	£0	£5m	£85m	£400m
Additional public sector investment leveraged <sup>1</sup>	£0	£0m	£30m	£35m
Additional private sector investment leveraged <sup>1</sup>	£0	£0m	£600m	£600m
No. of housing units completed				
Unlocked land (Hectares)				
Floorspace created (m²) (include planning designation)				
No. of businesses relocated to LEP region	0	2	50	52
No. of new business start ups	0	2	20	22
Foreign direct investment attracted (£millions)	£0	£0m	£300m	£300m
No. of new permanent, paid full time equivalent jobs <sup>2</sup>	0	16	400	416
No. of retained jobs	0	200	5000	5200
No. of up-skilled jobs	0	200	5000	5200
No. of volunteer positions	0	20	500	520

 $<sup>^{1}\</sup>quad \text{Investment as a result of the scheme taking place, e.g. business investing in business park as a result of new link road.}$ 

<sup>&</sup>lt;sup>2</sup> Jobs figures should be direct jobs employed by the project.



No. of new trainees/ apprentices/ work placements	0	10	100	110
No. of visitors/tourists				

#### **Section C – Management Case**

#### **Governance arrangements**

How will the project be governed? What is the proposed delivery plan?

This project will be led by BCP Council's Smart Place Team and will be jointly managed by both BCP Council and Dorset Council (to ensure that specific outcomes for each council are captured and pursued) with the additional support of Bournemouth University.

Internal governance will be formally monitored through BCP Council's Capital & Transformation Board and through normal management reporting routes.

Highlight reports, documenting progress will be supplied to the LEP on a bi-monthly basis, with progress being discussed at regular meetings with DLEP's Digital Programme Manager. In addition, progress will be reported at DLEP's Connected Dorset meetings.

The delivery plan for the Investment Plan is as follows:

1. Confirmation of Funding from the LEP November 2019

2. Commission consultants and partners December 2019 to January 2020

3. Develop and complete Investment Plan February to July 2020

Permissions and consents What permissions and consents are necessary to carry out your project? What is the status?						
List all permissions and consents required.  Have they been obtained?  If YES, provide the date received (mm/yyyy)						
Add additional rows if necessary.  If NO, provide the date expected (mm/yyyy)						
Senior management approval (BCP)	Yes	19 Sept 2019				
Senior management approval (Dorset)	Yes	20 Sept 2019				
Senior management approval (B.U.)	Yes	20 Sept 2019				



# Appendix A: ROI Calculation

#### Smart Place Investment Plan Implementation - BCR Present Value (PV) Calculation - (Excludes social and health benefits and income) - Over 15 years

15 years	Assessment Period =
3.5	STPR (standard rate - Green Book) =
1,000,000	Cost of Scheme (£K)=
20.9%	Uplift for indirect taxation

#### Values in £K

Scheme Costs	+ uplift
300000	362700
250000	302250
200000	241800
150000	181350
100000	120900
1000000	1209000
	Costs 300000 250000 200000 150000

Year (Date)	Year (No.)	P.V. Factor
2021	0	1.000
2022	1	0.966
2023	2	0.934
2024	3	0.902
2025	4	0.871
2026	5	0.842
2027	6	0.814
2028	7	0.786
2029	8	0.759
2030	9	0.734
2031	10	0.709
2032	11	0.685
2033	12	0.662
2034	13	0.639
2035	14	0.618
2036	15	0.597

PV BENEFITS PV BENEFITS							PV BENEFITS			PV BENEFITS		
Dorset Dig	ital Productiv	ity Deficit	Dorset Rel	ative Econom	nic Growth	Temp	orary Created	Jobs	Perm	TOTAL		
Addres	sed (by gigab	it fibre)		Due to 5G		(Construct	ion of Digital	Networks)	(Operat	ting the Smar	t Place)	IOIAL
Unadjusted	%	Adjusted	Unadjusted		Adjusted	Unadjusted		Adjusted	Unadjusted		Adjusted	
Discounted	productivity	Discounted	Discounted		Discounted	Discounted	% of	Discounted	Discounted	% of	Discounted	Discounted
Present	deficit	Present	Present	% of growth	Present	Present	temporary	Present	Present	permanent	Present	Present
Value*	addressed	Value	Value**	realised	Value	Value***	jobs created	Value	Value***	jobs created	Value	Value
250000	0%	-	400,000	10%	40,000	324800	30%	97,440	13640	0%	0	137,440
241550	10%	24,155	400,000	20%	80,000	313822	25%	78,455	13179	0%	0	182,610
233375	20%	46,675	400,000	30%	120,000	303201	20%	60,640	12733	0%	0	227,315
225475	40%	90,190	400,000	40%	160,000	292937	15%	43,941	12302	0%	0	294,131
217850	60%	130,710	400,000	50%	200,000	283031	10%	28,303	11886	0%	0	359,013
210500	80%	168,400	400,000	60%	240,000	273482	0%	0	11485	100%	11485	419,885
203375	80%	162,700	400,000	70%	280,000	264225	0%	0	11096	100%	11096	453,796
196500	80%	157,200	400,000	80%	320,000	255293	0%	0	10721	100%	10721	487,921
189850	80%	151,880	400,000	90%	360,000	246653	0%	0	10358	100%	10358	522,238
183425	80%	146,740	400,000	100%	400,000	238306	0%	0	10008	100%	10008	556,748
177225	80%	141,780	400,000	100%	400,000	230251	0%	0	9669	100%	9669	551,449
171225	80%	136,980	400,000	100%	400,000	222456	0%	0	9342	100%	9342	546,322
165450	80%	132,360	400,000	100%	400,000	214953	0%	0	9027	100%	9027	541,387
159850	80%	127,880	400,000	100%	400,000	207677	0%	0	8721	100%	8721	536,601
154450	80%	123,560	400,000	100%	400,000	200661	0%	0	8427	100%	8427	531,987
149225	80%	119,380	400,000	100%	400,000	193873	0%	0	8142	100%	8142	527,522
		1,860,590			4,600,000			308,779			106,996	6,876,365

	1000000 1								
	PV COSTS								
(	Cost - Scheme								
Scheme Cost (with uplift)	Discounted Present Value								
362700	0	362,700							
302250	0	292,034							
241800	0	225,720							
181350	0	163,560							
120900	0	105,352							
0	15000	12,630							
0	15000	12,203							
0	15000	11,790							
0	15000	11,391							
0	15000	11,006							
0	15000	10,634							
0	15000	10,274							
0	15000	9,927							
0	15000	9,591							
0	15000	9,267							
0	15000	8,954							
1209000	92832	1,267,031							

BCR =

5.4

<sup>\*</sup> Based upon an estimated productivity defict of £250m compared to rest of UK

<sup>\*\*</sup> Based upon government figure of £173bn increase in economic growth for whole of UK from 2020 - 2030 equates to £400m per annum for Dorset by 2030

<sup>\*\*\*</sup> ECON-i Economic Impact Assessment

<sup>\*\*\*\*</sup>Smart Place operational costs estimated at £15m per annum after year 5



# Appendix B: BCP Council Smart Place Programme

	BCP Counc	il Sr	nart	Place P	relin	nina	ary C	Peliv	ery	Prog	ram	me												
	<u>'</u>	2019	9	2020	T	202	21	T	202	022 2023					202	2024 2025						26		
	Elements	8 8	<del>5</del> δ	888	5 8	88888				8 2 2 8 8				3 8 8 8 8			888888				2 2 8 8			
1	Governance																							
1.02	Democratic Process/Internal Governance																							
1.03	Stakeholder Management																					_		
1.04	Community Engagement											_							_			_		
1.05	Financial Control						_	-		+		+	+			_	_	+	+	-		_	$\perp$	
1.06	Legal Compliance	+	_				-	-		-	Н	-	+		$\vdash$	+	+	+	+	+		$\dashv$		
1.07	Risk Management						_			+	Н	+	+		$\vdash$	$\dashv$	+	+	+	+	$\vdash$	$\dashv$		
1.00	Outcomes Monitoring Programme Management									+	$\vdash$	_	+		$\vdash$	+	_	+		+		-		
2	Business Case, Finance, Funding & Value																							
2.01	Smart Place Business Case Consultancy Support Procurement												Τ		П	Т	Т	Т		Τ	П	П	$\neg$	
2.02	Smart Place Investment Plan/Business Case Development										H		+		H	$\dashv$	$\top$	+			Н	$\dashv$	+	
2.021	Strategic Case										П				П			T				T	$\top$	
2.022	Economic Case (Costs v Benefits)														П								$\top$	
2.023	Commercial Case (case for investment & business models)																							
2.024	Financial Case																	I					$\perp$	
2.025	Management Case (delivery vehicle options and preference)					Ш					Ш		_		Ш			$\perp$			Ш	$\Box$		
2.03	Smart Place Delivery Vehicle Soft Market Testing					Ш	$\perp$	_			Ш	$\perp$	$\bot$		Ш	$\dashv$	$\perp$	$\perp$	_	_	Ш	_	$\perp$	
2.04	Smart Place Delivery Vehicle Procurement	_	+												$\sqcup$			$\perp$				_	$\perp$	
2.05	Smart Place Elements Procurement (as necessary)	+	_																					
2.06	Raising Investment/Funds (including bidding for support)	+	+										+			_	+	+	+			4		
2.07	Partner Contributions	-								-	$\vdash$					-				-		_	_	
3	Payment Mechanisms e.g. e-pay, Blockchain City Digital Network	+	+	+++											Ш									
3.01	Network Planning							$\top$	П		П		$\top$			Т	Т	Т	Τ	Т	П	$\neg$	$\neg$	
3.02	Fibre & Ducting Installation							Bui	id (TCF	F/BBC/P	rivate	Invest	ment)			_		Conti	nuous	Deve	lopme	ent		
3.03	Core Network & Software						Bu		Ť					Co	ntinuo	us D					÷			
3.04	Backhaul & Data Centre Connection						Bu	ild		Continuous Development  Continuous Development														
3.05	Cyber Security (Network)					П	Pilot at	Univer	sity	Deploy	ment a	at Unive	rsity	F	ull De	ploym	nent at	new	Oper	ationa	I Con	trol C	entre	
3.06	5G Network Mapping			Pilot			Phase	1		Pha	ise 2													
3.07	Spectrum (3.8 to 4.2 GHz)									(5	(Site Specific Licences)													
3.08	Spectrum (26.5 GHz)		(Rollin	g 1-year)	(Rolling	_	-							(Peri	manei	nt?)								
3.09	Public Wi-Fi			Pilot			Phase				ise 2	2 Continuous Develo								•				
3.10	I.o.T. Network		Р	ilot			Phase				ise 2			Continuous Development										
3.11	3.8-4.2 GHz 5G Network			Pilot			Phase	1		Pha	ise 2		Continuous Development											
3.12	26.5 GHz 5G Mobile Network			Pilot		antin				Continuous Development On-going Testing											nt			
3.14	Equipment & Network Testing				- 1	esting		BC/PI					ontinuous Development											
3.15	Network Operation/OSS  Construction of Network Operational Control Centre							DOM	Buik	d				T	manac	us D			s Dev	elonm	ent			
4	City Data Management Platform	Т	Т														-			olo pili				
4.01	Data Governance & Control Framework			Create Fran	nework									Conti	nuous	s Rev	iew							
4.02	City Data Availability Audit			Audi										Continuous Review  Continuous Review										
4.03	Assessment of Data Needs for Citizens			Assessr	nent							(	Contin	uous	Revie	w								
4.04	Citizen Participation Data (Opt In)					St	tudent i	Pilot	C	City Pilot							City R	oll-ou	t					
4.05	Cyber Security (Data)		As	sessment			Pilot at	Univer	sity	Deployment at University Full Deployment at new Operational Cont									trol C	entre				
4.06	City Data Architecture Design			Design									ntinuo	_										
4.07	City Data Management System		$\perp$					Univer	-	Deploy				-			nent at							
4.08	Data Analytics, Insight & Tailoring (City Brain operation)	_	_	$\Box$			Pilot at	Univer	sity	Deploy	ment a	at Unive	ersity	F	ull De	ployn	nent at	new	Oper	ationa	I Con	trol C	entre	
5	City Applications	+	_	1-30	2	D/D	01. 1	-									0		D.					
5.01	Community Cohesion (including Smart City App)	+	+	Initial Use		-	Studer		_	City Pilot					_		Contin	uous		_		ola-	mont	
5.02	Mobility /Transport (TCF + other transport initiatives)	+	+	Initial Use		_	search/ Studer		_	City Pilot City Pilot	-			_	oll-out		Contin	110110			ıs dev	elopi	nent	
5.03	Retail/E-Commerce	+	+			ND	_	Resear			City	Pilot	T	City Roll-out/Continuous Development										
5.05	Policing/Security	+	Initial Use Case				_	Resear	_	_	City	_		City Roll-out/Continuous Development City Roll-out/Continuous Development										
5.06	Health & Social Care Tourism & Culture	+	+		al Use Case Research						City			City Roll-out/Continuous Development										
5.07	Education	+			T		_	T	_	earch/B	_		ty Pilot			_	_	_	_	_	_	_	it	
5.08	Environment	+		Initial Use									City Pilot City Roll-out/Continuous D  City Pilot City Roll-out/Continuous D						_					
5.09	Energy	$\top$		Initial Use									City Pilot City Roll-out/Con					ontinu	ous D	evelo	pmer	it		
5.10	Finance								Research/Build									evelo	pment					
5.11	Business								Research/Build			d City Pilot			City Roll-out/Continuous Development							pment		
5.12	Utilities		$\bot$							Re	eseard	ch/Build		City	Pilot		City	Roll-	out/Co	ntinuc	ous De	evelo	pment	
5.13	Development of other application opportunities	$\perp$				Ш	$\perp$					Furth	er idea	s, inc	ubatio	on an	d impl	emen	tation					
v0.5(A	.H)																							