



Department for
Business, Energy
& Industrial Strategy

South West England and South East Wales Science and Innovation Audit

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Annex A: Consortium membership, governance and consultation

Consortium Membership

The following organisations were members of the South West England and South East Wales Science and Innovation Audit consortium, and were consulted during the development of the Expression of Interest, and subsequently during the SIA process.

Business	
Aardman	General Dynamics UK
AgustaWestland / Finmeccanica	Gooch & Housego
Airbus in the UK	Goonhilly Earth Station Ltd.
Airbus Defence & Space (formerly Cassidian)	HiETA Technologies Ltd.
Airbus Group Innovations UK	Huawei
Airbus Group Endeavr Wales Ltd	IBM Global Business Services
Andromeda Capital	IQE plc
BAE Systems	Johnson Matthey plc
BBC	Oracle
Boeing Defence UK Ltd.	Ortho Clinical Diagnostics
Bristol is Open Ltd.	Renishaw
Broadcom UK	Rolls Royce
Centre For Modelling and Simulation	South West Water
ClusterHQ	Toshiba Research
Cray	Watershed
EDF Energy R&D UK Centre	Wavehub
First Group plc	
LEPs	
Cornwall and Isles of Scilly LEP	Swindon and Wiltshire LEP
GFirst (Gloucestershire) LEP	West of England LEP
Heart of the South West LEP	
Universities	
Cardiff University	University of Bristol
Falmouth University	University of Exeter
Plymouth University	University of Gloucestershire
Royal Agricultural University	University of St Mark and St John
University of Bath	University of West of England
Local Authorities	
Bath and North East Somerset Council	Gloucestershire County Council
Bristol City Council	North Somerset Council

City of Cardiff Council	Plymouth City Council
Cornwall Council	Somerset County Council
Council of the Isles of Scilly	South Gloucestershire Council
Devon County Council	Swindon Council
Exeter City Council	Torbay Council
	Wiltshire Council
Research Organisations	
DSTL	Plymouth Marine Laboratory (PML)
Marine Biological Association of the UK	Rothamsted Research
Met Office	Sir Alister Hardy Foundation for Ocean Science (SOHFOS)
National Nuclear Laboratory (NNL)	
Catapults	
Compound Semiconductor Catapult	Future Cities Catapult
National Composites Centre – part of the High Value Manufacturing Catapult	Precision Medicine Catapult – when Cardiff node formed
SW Centre of Excellence in Satellite Applications – part of the Satellite Applications Catapult	
Other organisations, networks and intermediaries	
Bristol and Bath Science Park	RegenSW
Bristol Health Partners	SEW Academic Health Science Partnership
Business West	SW Peninsula AHSN
Exeter Science Park	West of England Aerospace Forum
MediWales	West of England AHSN
NHS Innovations South West Ltd.	WoE LEP High Tech Sector Group
NIHR Clinical Research Network South West Peninsula	WoE LEP Low Carbon Sector Group

Table A1 Consortium Membership

Governance

To ensure local participation and ownership, the Audit was governed by a senior level steering group made up of industry representatives and research organisations within each theme, University Pro-Vice-Chancellors for Research and Innovation and LEPs. This Group supported the development of the expression of interest, and steered the SIA throughout. Initial consultation was undertaken with key private sector organisations to incorporate their views into our approach. An industry representative from the Steering Group chaired each theme review panel.



Figure A1 SIA Governance

Steering Group Membership

The Steering Group, chaired by Professor Nick Talbot, University of Exeter, met on four occasions: 19 January, 18 April, 13 June and 14 September 2016. The membership was:

Name		Organisation
Nick	Crew	Airbus Defence and Space Limited
Mark	Howard	Airbus Operations Limited
Matt	Griffith	Business West
Rob	Rolley	General Dynamics
Ian	Chatting	GKN
Mike	Adams	Hieta
Michael	Hill-King	Huawei
Wyn	Meredith	IQE plc
Jack	Frost	Johnson Matthey
Vicky	Pope	Met Office
Graham	Harrison	NCC
Phil	Bates	Oracle
Icarus	Allen	Plymouth Marine Labs
Dean	Jones	Rolls-Royce plc
Jon	Siddall	SWAHSN
Joe	McGeehan	Toshiba Research
Hywel	Thomas	Cardiff University
Elizabeth	Treasure	Cardiff University
Dave	Bembo	Cardiff University

Dafydd	Moore	Plymouth University
Adrian	Dawson	Plymouth University
Jon	Knight	University of Bath
Jon	Freeman	University of Bath (to July 2016)
Jon	Hunt	University of Bath (from July 2016)
Nishan	Canagarajah	University of Bristol
Neil	Bradshaw	University of Bristol
Nick	Talbot	University of Exeter (Chair)
Sean	Fielding	University of Exeter
Martin	Boddy	University of West of England
Helen	Davies	Cardiff City Region
Sandra	Rothwell	Cornwall and Isles of Scilly LEP
David	Owen	Gloucestershire LEP
Paul	Taylor	Heart of the SW LEP (to July 2016)
Eifion	Jones	Heart of the SW LEP (from July 2016)
Duncan	Kerr	Swindon and Wiltshire LEP
Alastair	Davies	Welsh Government
Barbara	Davies	West of England LEP (to July 2016)
Antony	Corfield	West of England LEP
Deborah	Watson	Consultant

Table A2 Steering Group Membership

Theme Review Panel Membership

Oversight of each Theme was provided by a Theme Review Panel – a strategic group made up of industry and academic experts. Each Panel was chaired by a member of the Steering Group from business and supported by a Director and Business Development Manager from within Higher Education. The Panel's role included:

- To review the scope of the theme(s) and identify known niche areas of expertise within the theme, and areas of overlap / gaps between themes.
- To receive initial data on their theme and to flag any omissions, errors and ideas for further research in terms of capabilities, market needs and innovation pathways.
- To identify potential national / international comparator geographies

Aerospace and Advanced Engineering

	Name	Role	Organisation
Industry chair	Ian Chatting	Vice President Technology	GKN
Industry Expert	Mike Adams	Director	HiETA Technologies Ltd
Industry Expert	Graham Harrison	Head of Government Affairs and Strategic Partnerships	National Composites Centre
Industry Expert	Dean Jones	Partnership Manager	Rolls Royce
Industry Expert	Adrian Harding	Supply Chain Business Development	West of England Aerospace Forum
Academic expert	Chris Brace	Professor of Automotive Propulsion and Deputy	University of Bath

		Director Powertrain Vehicle Research Centre	
Academic expert	Richard Butler	Professor of Aerospace Composites	University of Bath
Academic expert	Ian Bond	Head of Queen's School of Engineering (Aerospace, Civil & Mechanical)	University of Bristol
Academic expert	Chris Smith	Associate Prof in Functional Materials	University of Exeter

Digital Living Innovation

	Name	Role	Organisation
Industry chair	Phil Bates	Architect Oracle Cloud	Oracle Corporation
Industry expert	Paul Appleby	Director	VID Communications
Industry expert	Rick Chapman	Consultant	West of England High Tech Group
Industry expert	Paul Massey	Director	Bluefruit software
Industry expert	Nick Crew	Manager: Endeavr Wales project	Cassidian
Industry expert	Liz O'Driscoll	Head of Innovation	Exeter City Futures
Industry expert	Lars Sundstrom	Director of Enterprise and Translation	AHSN
Academic & Industry expert	Ian Craddock	Toshiba R&D lab director / Bristol academic	Toshiba / University of Bristol
Industry expert	Michael Hill-King	Collaboration Director, UK R&D Centre	Huawei
Academic expert	Nathan Clarke	Professor in Cyber Security and Digital Forensics	Plymouth University
Academic expert	Darren Cosker	Reader in Computer Science	University of Bath
Academic expert	Dave Cliff	Head of Merchant Venturers School of Engineering	University of Bristol
Academic expert	Richard Everson	Head of Computer Science, Prof of Machine Learning, Exeter University	University of Exeter

Resilience, Environment & Sustainability

	Name	Role	Organisation
Industry chair	Vicky Pope	Head of Integration and Growth	Met Office
Industry expert	Simon Power	Director, Renewables and Environment, South West consulting business lead	Arup (Bristol office)
Industry expert	Andrew Garrad	Founder of Garrad-Hassan	Founder of Garrad-

		(now DNV-GL), former Chair of Bristol 2015	Hassan (now DNV-GL), former Chair of Bristol 2015
Industry expert	Jon Bentley	Partner, Innovation, Energy & Environment	IBM
Industry expert	Icarus Allen	Head of Science	PML
Industry expert	Lewis Jones	R&D Manager	South West Water
Academic expert	Terry Marsden	Professor of Environmental Policy and Planning	Cardiff University
Academic expert	Iain Stewart	Director of Sustainable Earth Institute	Plymouth University
Academic expert	Matt Davidson	Director of the Centre for Sustainable Chemical Technologies	University of Bath
Academic expert	Richard Pancost	Director of the Cabot Institute	University of Bristol
Academic expert	Tim Lenton	Chair in Climate Change/Earth System Science	University of Exeter

New Energy Systems

	Name	Role	Organisation
Industry chair	Jonathan Frost	Technology Strategy Director	Johnson Matthey
Industry expert	Jonathan Adey	Smart Cities Energy Group	Hitachi
Industry expert	Matt Burley	Head of Strategic Development UK	Atkins Nuclear & Nuclear South West
Industry expert	Gareth Davies	Specialist Nuclear Management consultancy	DNA Ltd.
Industry expert	Keith Hounsell	Managing Director	Green Acorn Energy Solutions
Industry expert	Claire Gibson	Managing Director	WaveHub Ltd
Industry expert	Merlin Hyman	CEO	RegenSW
Academic expert	Marcelle McManus	Senior Lecturer in Renewable Energy Technology	University of Bath
Academic expert	Tom Scott	Director, SW Nuclear Hub	University of Bristol
Academic expert	Deborah Greaves	Professor of Ocean Engineering; Director of COAST	Plymouth University
Academic expert	Phil Jones	Professor; Chair of the Wales Low Carbon Research Institute	Cardiff University

Next Generation Microelectronics

	Name	Role	Organisation
Industry chair	Wyn Meredith	Commercial Director, Compound Semiconductors	IQE plc
Industry expert	Rick Chapman	Consultant	West of England High Tech Group
Industry expert	Andy Sellars	Lead Technologist	Innovate UK
Industry expert	Daniel Newman	Senior Economic Development Officer	Torbay Development Agency
Academic expert	Phil Buckle	School of Physics	Cardiff University
Academic expert	Peter Wilson	Department of Electronic and Electrical Engineering	University of Bath
Academic expert	David May	Department of Computer Science	University of Bristol
Academic expert	Geoffrey Nash	College of Engineering, Mathematics and Physical Sciences	University of Exeter

Table A3 Theme Review Panel membership

Stakeholder workshops and follow-up activities

Each theme held a workshop during June 2016 to consult with stakeholders, and the following people registered for further information, or attended the event; and have also been consulted on this report during its' production.

Resilience, Environment and Sustainability - Exeter Science Park, Exeter

Adrian Dawson, Plymouth University
 Andrew Staphnill, Cardiff University
 Andy Williams, Avanti Communications /
 ApTec
 Ben Rhodes, Devon & Cornwall Business
 Council
 Colin Brownlee, Marine Biological
 Association of the UK
 David Johns, Sir Alister Hardy Foundation
 (SAHFOS)
 Dawn Scott, University of Exeter
 Deborah Watson, Deborah Watson
 Consultancy
 Iain Stewart, Plymouth University
 Icarus Allen, Plymouth Marine Laboratory
 James Lynch, ARTIS
 Jenny Camaradou, jennycamaradou.com

Jon Hunt, University of Bath
 Kathryn Edwards, SWMAS Ltd.
 Laurence Oakes-Ash, Oxygen House
 Lewis Jones, South West Water Ltd.
 Louisa Evans, University of Exeter
 Matthew Davidson, University of Bath
 Martin Redfern, Sustainable Exeter
 Matthew Davidson, University of Bath
 Melanie Roberts, Somerset County
 Council
 Michael Moseley, KTN Ltd
 Mike Harris, University of Bristol
 Nigel Ward, UK Hydrographic Office
 Peter Cox, University of Exeter
 Rich Pancost, University of Bristol Cabot
 Institute
 Richard Soffe, Rural Business School

Sal Lampkin, University of Exeter
Sean Fielding, University of Exeter
Shaun Jordan, University of the West of
England
Simon Jones, Dashboard
Stephen Bird, South West Water Ltd

Susannah Carlson, UK Hydrographic
Office
Tim Daley, Plymouth University
Vicky Pope, Met Office
William Wakeham, Exeter Science Park
Willie Wilson, SAHFOS

RES Stakeholder survey

- 37 interviews were undertaken with a range of companies.
- 35 of these companies either had their HQ or other sites/branches in the South West England and South East Wales, the other 2 identified key collaborators in the region.

Digital Living Innovation - Merchant Venturers' Building, Bristol

Andrew Calway, University of Bristol
Ben Rhodes, Devon & Cornwall Business
Council
Ben Shorrock, TechSPARK
Ben Trehella, Opposable Group
Carolin Villforth, University of Bath
David Relph, Bristol Health Partners
Deborah Watson, Deborah Watson
Consultancy
Dick Penny, Watershed
Doug Laughlen, Taxonomics
Duncan Allsopp, University of Bath
Gavin Jones, Elixel
Hywel Edwards, Cardiff University
Ian Craddock, University of Bristol &
Toshiba
Jean Vogel-Gourgand, University of
Bristol
Jenny Camaradou, jennycamaradou.com
John Bradford, High Tech Bristol & Bath
John-James McChesney, TBC
Josh Costar, Aquarian Products
Julian Head, Wiltshire Council / SWLEP
Kevin O'Malley, Bristol City Council
Kurt De Freitas, South West Academic
Health Science Network

Lisa Wheatley, Bristol Health
Partners/Elizabeth Blackwell Institute
Liz O'Driscoll, Exeter City Futures
Maria Korea, University of Bristol
Mary Page, National Composites Centre
Matthew Asher, University of Bristol
Mike McMillan, NISW
Nathan Clarke, Plymouth University
Navein Madhavan, National Composites
Centre
Ni Zhu, Universtiy of Bristol
Neil Bradshaw, University of Bristol
Ni Zhu, University of Bristol
Paul Appleby, VID / Bristol Media
Paula Underhill, NIHR CRN: South West
Peninsula
Peter Madden, Future Cities Catapult
Philippa Shelton, University of the West
of England
Rachel Baker, Cardiff University
Sarah Jones, University of Bath
Steven Puetz, CFMS Ltd.
Walterio Mayol-Cuevas, University of
Bristol

New Energy Systems - Somerset College, Taunton

Adrian Dawson, Plymouth University
Ben Rhodes, Devon & Cornwall Business Council
Clare Jackson, Ecuity Consulting
Corinne Matthews, Heart of the SW LEP
David Bembo, Cardiff University
Deborah Greaves, Plymouth University
Deborah Watson, Deborah Watson Consultancy
Graham Butler, IBM United Kingdom Ltd.
Iain Bearh, Renewable Power Limited
Ian Craddock, University of Bristol & Toshiba
Jamie Townes, University of Bristol
Jeremy Bartosiak-Jentys, University of Bath
Jerry Trevarthen, Pliosaur Energy Ltd
Jessica Vallentine, Nuclear South West
Jim Grant, University of Exeter
Jonathan Adey, Hitachi
Jonathan Frost, Johnson Matthey
Jun Zang, University of Bath

Keith Hounsell, Green Acorn Energy Solutions Ltd
Kevin Fothergill, Johnson Matthey Fuel Cells Ltd
Kim Howat, KH Technology Broking
Kinga Grabarczyk, Sedgemoor Council
Laurence Oakes-Ash, Oxygen House
Matthew Burley, Atkins Nuclear
Mustafa Rampuri, University of Bristol
Neil Phillips, University of the West of England
Olly Frankland, RegenSW
Phil Jones, Cardiff University
Philippa Venables, Swindon Borough Council
Samantha Seddon, Somerset County Council
Sarah Pryor, Cardiff University
Sheldon Ryan, Plymouth City Council
Simon Cheeseman, Offshore Renewable Energy Catapult
Sonya Bedford, Stephens Scown LLP
St. John Hughes, Avenir Energy

Next Generation Microelectronics - Clayton Hotel, Cardiff

Ailsa Davies, University of the West of England
Andy Sellers, Innovate UK
Avril Lewis, ESTnet Ltd
Bob Musk, Entroptix Ltd
Chris Young, Welsh Government
Clayton Jones, University of South Wales
Colette Mallon, Swindon and Wiltshire LEP
Daniel Newman, TDA
David Bembo, Cardiff University
Deborah Watson, Deborah Watson Consultancy
Graham Fisher, University of Bath
Graham Marshall, University of Bristol
Huw Davies, Trameto
Hywel Edwards, Cardiff University
Johannes Benedikt, Cardiff University
Jude Bown, Cardiff University

Laurent Kling, Centre for Quantum Photonics
Martin McHugh, Microsemi
Matthew Smith, University of South Wales
Michael Hill-King, Huawei Technologies Co Ltd
Mustafa Rampuri, University of Bristol
Neil Bradshaw, University of Bristol
Nigel Rix, Knowledge Transfer Network
Paul James, Infineon (IR Newport)
Paul Tasker, Cardiff University
Peter Clayton, ContinuumBridge Ltd
Peter Mosley, University of Bath
Phil Buckle, Cardiff University
Rick Chapman, Microelectronics iNet
Sam Evans, Infineon Newport
Wyn Meredith, CSC

Aerospace and Advanced Engineering - National Composites Centre, Bristol

Aaron Bowsher, Cross Manufacturing Co.
Adrian Harding, WEAFF
Alun Reece, Loop Technology
Andrew Hawthorn, Altran UK
Benjamin Woods, University of Bristol
Bill Colquhoun, TMB Patterns Limited
Caroline Godwin, Trizo Ltd
Chris Brace, University of Bath
Chris Jones, iAero
Chris Smith, University of Exeter
Chris Mahn, Ed Fagan Europe Ltd
Chris Wands, scorpion tooling uk ltd
Claire Harvey, Cardiff University
Craig Brown, Stride Treglown
David Ashford, Bristol Spaceplanes
Dean Jones, Rolls-Royce
Deborah Watson, Deborah Watson Consultancy
Duncan Kerr, Swindon Borough Council
Ed Barrett, Generative Parametrics
Ellen Rodger, SC Innovation
Hamish McAlpine, University of Bristol
Ian Bond, University of Bristol
Ian Chatting, GKN Aerospace
Ian Lane, Airbus
Ian Stone, QuEST Global Engineering Ltd
Isabel Gonzalez, University of Exeter
Jacques Bouton, JPH Services (SW) LTD
Jane Galsworthy, Oxford Innovation
Jeremy Bartosiak-Jentys, University of Bath
Jon Hunt, University of Bath
Jonathan Taylor, Assystem UK Ltd
Karl Friedrich, Hoare LEa
Katie Gough, University of the West of England
Keri Montague, Yeovil College
Khanor Runzi, AKKA Aeroconseil UK Ltd
Kim Davies, University of Bath
Mark Mathieson, McLaren Automotive Limited
Mark Saunders, Renishaw plc
Paul Hickson, Somerset County Council
Paul Perera, Assystem UK Ltd
Raj Nangia, Nangia Aero
Richard Trask, University of Bath
Simon Jones, HiETA Technologies
Stephen Hallett, University of Bristol
Stephen Suddell, National Composite Centre
Steven Puetz, CFMS Ltd
Timothy Yates, BP Castrol

Aerospace meeting – 23 August 2016, National Composites Centre, Bristol.

Adrian Harding, WEAFF
Richard Butler, University of Bath
Dean Jones, Rolls-Royce
Deborah Watson, Deborah Watson Consultancy
Nick Lieven & Hamish McAlpine, University of Bristol
James Godman, GKN Aerospace
Mark Howard, Airbus
Jon Hunt & Jeremy Bartosiak-Jentys, University of Bath
Alison Starr, Graham Harrison & Miroslav Stojkovic, National Composite Centre
Paul Shakespeare, HVMC
Tom Egan, Leonardo (formerly Agusta Westland)

Annex B: Universities, Colleges & Research Organisations

The consortium area has 14 research institutions and 15 higher education institutions and 27 Further Education Colleges:

LEP / SEW	Institute name	HEI / FEC	Campus
Cornwall and Isles of Scilly	Cornwall College	FE	Entire institution
	Falmouth University	HE	Entire institution
	Truro and Penwith College	FE	Entire institution
	University of Exeter	HE	Cornwall campus
Gloucestershire	Cirencester College	FE	Entire institution
	Gloucestershire College	FE	Entire institution
	Hartpury College	FE	Entire institution
	The Royal Agricultural University	HE	Entire institution
	University of Gloucestershire	HE	Main campus
Heart of the South West	Bridgwater College	FE	Entire institution
	City College Plymouth	FE	Entire institution
	Exeter College	FE	Entire institution
	Petroc	FE	Entire institution
	Plymouth College of Art	HE	Entire institution
	Richard Huish College	FE	Entire institution
	Somerset College	FE	Entire institution
	South Devon College	FE	Entire institution
	Strode College	FE	Entire institution
	University of Exeter	HE	Main campus
	University of Plymouth	HE	Entire institution
	University of St Mark & St John	HE	Entire institution
	Yeovil College	FE	Entire institution
Swindon and Wiltshire	New College Swindon	FE	Entire institution
	Swindon College	FE	Entire institution
	Wiltshire College	FE	Entire institution
West of England	Bath College	FE	Entire institution
	Bath Spa University	HE	Entire institution

	City of Bristol College	FE	Entire institution
	South Gloucestershire and Stroud College	FE	Entire institution
	The Conservatoire for Dance and Drama	Conservatoire / HE	Bristol Old Vic Theatre School
	The University of Bath	HE	Entire institution
	University of Bristol	HE	Entire institution
	University of the West of England, Bristol	HE	Entire institution
	Weston College of Further and Higher Education	FE	Entire institution
South East Wales	Cardiff University	HE	Entire institution
	Cardiff Metropolitan University	HE	Entire institution
	University of South Wales (incl. Royal Welsh College of Music and Drama)	HE	Entire institution
	Coleg Gwent	FE	Entire institution
	St David's Catholic College	FE	Entire institution
	Cardiff and Vale College	FE	Entire institution
	Coleg y Cymoedd	FE	Entire institution
	The College Merthyr Tydfil	FE	Entire institution
	Bridgend College	FE	Entire institution

Table B1 HE Institutions and FE Colleges in SIA geography¹

Our consortia universities have a combined income of £2.6 billion (2014-15). They generate an estimated further £3.5 billion in downstream income through the expenditure of their suppliers and staff across the UK. Their direct contribution to GVA is £1.7 billion with a further downstream contribution of £1.7bn across the UK, representing around 0.2% of UK GVA.

They employ 35,700 staff in total, of which 17,000 are academic staff. More than half (55%) of staff aligned to a subject-related cost code are in STEM-related fields.

¹ Underlying data for local growth 2013-14. Higher education and local growth. HEFCE (2015). Available at: <http://www.hefce.ac.uk/analysis/maps/>; HEFCW and Colegaucymru

Research Organisations

1. Campden BRI, Chipping Campden, Gloucestershire (www.campdenbri.co.uk)
Campden BRI is the UK's largest independent membership-based organisation providing the food and drink industry with the practical scientific, technical and advisory services needed to ensure product safety and quality, process efficiency and product and process innovation. The Campden BRI Group operates from three sites in the UK and a fourth in Hungary. The site in Chipping Campden employs 300 full or part-time staff. A further 50 staff are employed at the site at Nutfield, Surrey and 20 staff are employed at our site in Budapest, Hungary. We also have a Consumer Test Centre in Leamington Spa
2. DSTL, Porton Down, Wiltshire (www.gov.uk/government/organisations/defence-science-and-technology-laboratory)
DSTL ensures that innovative science and technology contribute to the defence and security of the UK. It is an executive agency, sponsored by the Ministry of Defence. It brings together the defence and security S&T community, including industry, academia, wider government and international partners, to provide sensitive and specialist S&T services to the Ministry of Defence and wider government.
3. Environment Agency (<https://www.gov.uk/government/organisations/environment-agency>)
HQ in Bristol, and employing over 10,000 staff. Other regional offices can be found in Cornwall, Somerset and Gloucestershire, with specialist facilities in Bath with their geomatics group, and near Exeter, with its National Laboratory Service, a leading provider of high quality environmental testing and analysis.
4. GCHQ, Cheltenham, Gloucestershire & Bude, Cornwall (www.gchq.gov.uk)
GCHQ is part of the team which protects the UK, along with law enforcement and the other intelligence agencies. Working with HMG and industry, GCHQ defends Government systems from cyber threat, provides support to the Armed Forces and strive to keep the public safe, in real life and online. It employs over 6,000 people. It's headquarters are based in Cheltenham.
5. Marine Biological Association of the UK, Plymouth (www.mba.ac.uk)
Founded in 1884, the Marine Biological Association was granted a Royal Charter in 2013. The charitable aims of the MBA are to promote scientific research into all aspects of life in the sea, including the environment on which it depends, and to disseminate to the public the knowledge gained.
6. Met Office, Exeter (www.metoffice.gov.uk)
The Met Office is the UK's National Meteorological Service. It is a Trading Fund of the Department for Business, Energy and Industrial Strategy (BEIS).
7. National Composites Centre, Bristol (www.nccuk.com)
The NCC brings together dynamic companies and enterprising academics to develop new technologies for the design and rapid manufacture of high-quality composite products. The combination of academic and business strengths will speed progress from laboratory to design to factory and into products. A wholly owned subsidiary of the University of Bristol, the NCC is part of the High Value Manufacturing Catapult.
8. Natural Resources Wales

HQ in Cardiff, the largest Welsh Government body, employing 1,900 staff across Wales. With the overarching objective to sustainably manage the air, land and water in Wales.

9. Office of National Statistics, Newport (www.ons.gov.uk)
The UK's largest independent producer of official statistics and the recognised national statistical institute of the UK. Responsible for collecting and publishing statistics related to the economy, population and society at national, regional and local levels. We also conduct the census in England and Wales every 10 years.
10. Plymouth Marine Laboratory, Plymouth (www.pml.ac.uk)
PML is an independent company limited by guarantee with charitable status. It develops and applies world-leading, integrated marine science towards the sustainable future of the ocean. It has 157 members of staff, hosts 21 PhDs, and has 500 worldwide partners in over 60 countries.
11. Rothamsted Research (North Wyke Farm Platform), Devon (www.rothamsted.ac.uk/farmplatform)
Rothamsted Research Limited is an independent charitable company, limited by guarantee. North Wyke is integrated with Rothamsted Research and brings together BBSRC research on grassland and arable systems.
12. Satellite Applications Catapult – SW Centre of Excellence, Cornwall (www.sacatapultcoe.org/centre/south-west/)
The South West Satellite Applications Centre of Excellence will be based at Goonhilly Earth Station with the University of Exeter as the lead delivery partner. The centre partnership includes GES Ltd, the Met Office, Plymouth University, Falmouth University, PML, and Rothamsted Research, and has extensive commercial partner backing.
13. Sir Alister Hardy Foundation for Ocean Science (SOHFOS), Plymouth (www.sahfos.ac.uk)
An international charity that operates the Continuous Plankton Recorder (CPR) Survey. SOHFOS has been collecting data from the North Atlantic and the North Sea on biogeography and ecology of plankton since 1931. More recently, as the Foundation has become more involved in international projects, work has expanded to include other regions around the globe.
14. UK Hydrographic Office, Taunton (www.ukho.gov.uk)
The United Kingdom Hydrographic Office (UKHO) collects and supplies hydrographic and geospatial data for the Royal Navy and merchant shipping, to protect lives at sea. Working with other national hydrographic offices, we set and raise global standards of hydrography, cartography and navigation. UKHO is an executive agency, sponsored by the Ministry of Defence.

The UK's Research Councils (AHRC, BBSRC, EPSRC, ESRC, NERC, STFC) and Innovate UK are based in Swindon, and HEFCE, OFFA, HE Statistics Agency (HESA), UCAS, and HEFCW are also based in the area.

Annex C: LEPs and Local Authorities within SIA area

LEP / Cardiff Capital Region	LAU	NUTS3	ONS_CODE
Cornwall and Isles of Scilly	Cornwall		E06000052
Cornwall and Isles of Scilly	Isles of Scilly		E06000053
Gloucestershire	Cheltenham		E07000078
Gloucestershire	Cotswold		E07000079
Gloucestershire	Forest of Dean		E07000080
Gloucestershire	Gloucester		E07000081
Gloucestershire	Stroud		E07000082
Gloucestershire	Tewkesbury		E07000083
Heart of the South West	Torridge		E07000046
Heart of the South West	West Devon		E07000047
Heart of the South West	South Hams		E07000044
Heart of the South West	Teignbridge		E07000045
Heart of the South West	Exeter		E07000041
Heart of the South West	East Devon		E07000040
Heart of the South West	Mid Devon		E07000042
Heart of the South West	North Devon		E07000043
Heart of the South West	Plymouth		E06000026
Heart of the South West	West Somerset		E07000191
Heart of the South West	Taunton Deane		E07000190
Heart of the South West	Sedgemoor		E07000188
Heart of the South West	Mendip		E07000187
Heart of the South West	South Somerset		E07000189
Heart of the South West	Torbay		E06000027
Swindon and Wiltshire	Swindon		E06000030
Swindon and Wiltshire	Wiltshire		E06000054
West of England	South Gloucestershire		E06000025
West of England	Bristol, City of		E06000023
West of England	Bath and North East		E06000022

LEP / Cardiff Capital Region	LAU	NUTS3	ONS_CODE
	Somerset		
West of England	North Somerset		E06000024
Cardiff Capital Region	Bridgend	Central Valleys	W06000013
Cardiff Capital Region	Vale of Glamorgan	Central Valleys	W06000014
Cardiff Capital Region	Cardiff	Gwent Valleys	W06000015
Cardiff Capital Region	Rhondda Cynon Taf	Gwent Valleys	W06000016
Cardiff Capital Region	Caerphilly	Gwent Valleys	W06000018
Cardiff Capital Region	Blaenau Gwent	Bridgend and Neath Port Talbot	W06000019
Cardiff Capital Region	Torfaen	Monmouthshire and Newport	W06000020
Cardiff Capital Region	Monmouthshire	Monmouthshire and Newport	W06000021
Cardiff Capital Region	Newport	Cardiff and Vale of Glamorgan	W06000022
Cardiff Capital Region	Merthyr Tydfil	Cardiff and Vale of Glamorgan	W06000024

Table C1 Local Authorities within SIA geography

Annex D: Science Parks and Innovation Centres

The SIA area is home to over 35 science parks and innovation centres, including:

South West England

1.	Bristol and Bath Science Park	www.bbsp.co.uk
2.	Exeter Science Park	www.exetersciencepark.co.uk
3.	Plymouth Science Park	www.plymouthsciencepark.com
4.	Gloucestershire Science and Technology Park at Berkeley	Buildings come on stream 2016-2018
5.	Bath Guildhall	http://www.theguildhub.co.uk
6.	Porton Science Park, Wiltshire	
7.	Bishops Place, Paignton; Cockington Court; Lymington Road, Torquay; SW Energy Centre, Paignton; Vaughan Parade, Torquay	http://www.swinnovationcentres.co.uk/
8.	Bristol Enterprise Research and Innovation Centre	http://www1.uwe.ac.uk/bl/research/beric.aspx
9.	Bristol Games Hub	https://bristolgameshub.com/
10.	Cheltenham Cyber Business Park	Proposed in Growth Deal 3
11.	Dartington Social Enterprise Hub	https://www.dartington.org/our-work/our-projects-initiatives/the-social-enterprise-hub/
12.	Emmaus incubator	http://www.emmausbristol.org.uk/business-incubator/
13.	Engine Shed, Bristol	http://www.engine-shed.co.uk/
14.	Entrepreneurial-Spark, Bristol	http://www.entrepreneurial-spark.com/tag/bristol/
15.	Exeter Innovation Centre	www.spaceforsuccess.co.uk
16.	Formation Zone, Plymouth	www.formationzone.co.uk
17.	Future Works, the West of England University Enterprise Zone, Bristol	http://uwe.oxin-centres.co.uk/uez-launch/
18.	Gloucestershire Growth Hub, Gloucester	http://www.thegrowthhub.biz
19.	Health & Wellbeing Innovation Centre, Truro, Cornwall	http://www.cornwallinnovation.co.uk/health-wellbeing-centre
20.	Mendip Hub, Wells, Somerset	http://www.mendiphub.co.uk/
21.	Pervasive Media Studio, Bristol	www.pmstudio.co.uk
22.	Pool Innovation Centre, Redruth, Cornwall	http://www.cornwallinnovation.co.uk/pool-innovation-centre
23.	Rural Innovation Centre, Cirencester, Gloucestershire -	https://www.rau.ac.uk/about/farms/rural-innovation-centre
24.	SETsquared in Bath, Bristol and Exeter	www.setsquared.co.uk
25.	Spike Design, Bristol	http://www.spikeisland.org.uk/spike-design/

26.	Tetricus Science Park, Porton Down, Salisbury, Wiltshire	www.tetricus.co.uk
27.	The Hive, Weston Super Mare	http://thehiveweston.org.uk/
28.	Torbay Electronics & Photonics Innovation Centre, Paignton	http://www.torbaydevelopmentagency.co.uk/projects/regeneration/epic
29.	Tremough Innovation Centre, Penryn, Cornwall	http://www.cornwallinnovation.co.uk/tremough-innovation-centre
30.	University of Bath Innovation Centre, Bath	www.ubic.org.uk
31.	University of Exeter Innovation Centre, Exeter	www.spaceforsuccess.co.uk
32.	Various centres in Somerset	http://www.somerset-enterprise-centres.co.uk/
33.	Yeovil Innovation Centre, Yeovil, Somerset	www.yeovilinnovationcentre.co.uk

South East Wales

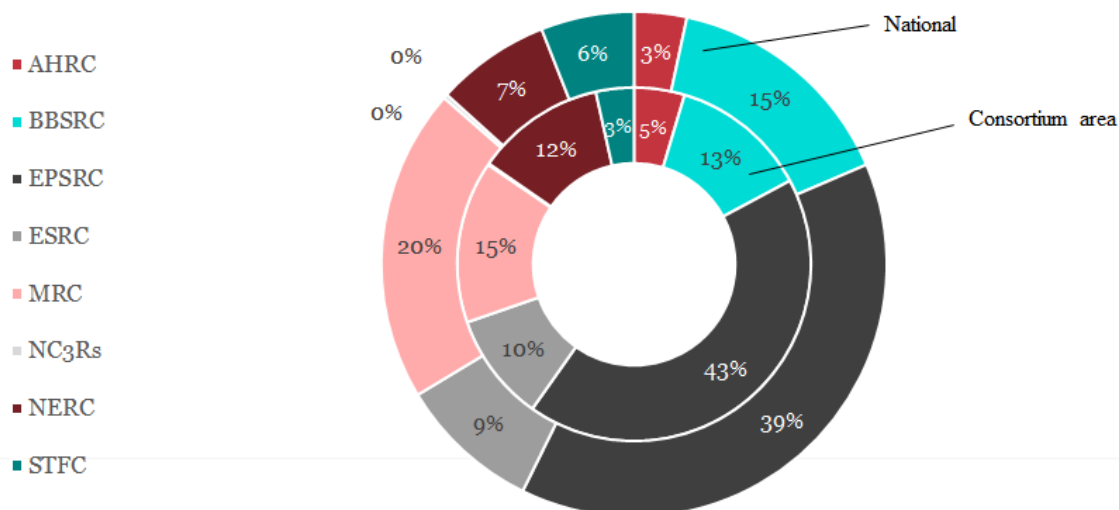
34.	Cardiff Business Technology Centre	www.cbtc.co.uk
35.	Cardiff Innovation Centre	http://www.cardiff.ac.uk/innovation/campus-investment/innovation-central/innovation-centre
36.	Cardiff Medicentre	www.cardiffmedicentre.co.uk
37.	Cardiff University Innovation Campus	www.cardiff.ac.uk/innovation/campus-investment
38.	Orbit Business Incubator, Merthyr Tydfil	www.merthyr.gov.uk

Table D1 Science Parks and Innovation Centres

Annex E: Theme Rationale

Strength and competitiveness in research and innovation funding

Of the Research Council funding received over the period 2010 – 2015 (Total: £ million), the majority was from the EPSRC (43%, £443.1m). By comparing the consortium area's funding proportions to the national proportions, we can see that the consortium area is significantly more competitive in drawing down funding from the EPSRC and NERC, and slightly more competitive in drawing down funding from the AHRC and ESRC.



Source: Gateway to Research (GtR). Research Councils UK (RCUK) (2016).

Figure E1 Research Council funding 2010-2015

The consortium area accounts for 7% of the UK's domestic REF income and 6% of the UK's total international REF income. Within the consortium, analysis of those areas that make up a higher percentage than the overall UK proportion reveals higher performing or more competitive areas. These areas are highlighted below.

Table E1 shows nine areas of interest to the consortium that perform relatively better than the consortium area's overall proportion. In particular, Biological Sciences, Clinical Medicine and General Engineering all perform well in both domestic and international funding, as compared to the consortium area's shares of overall declared funding.

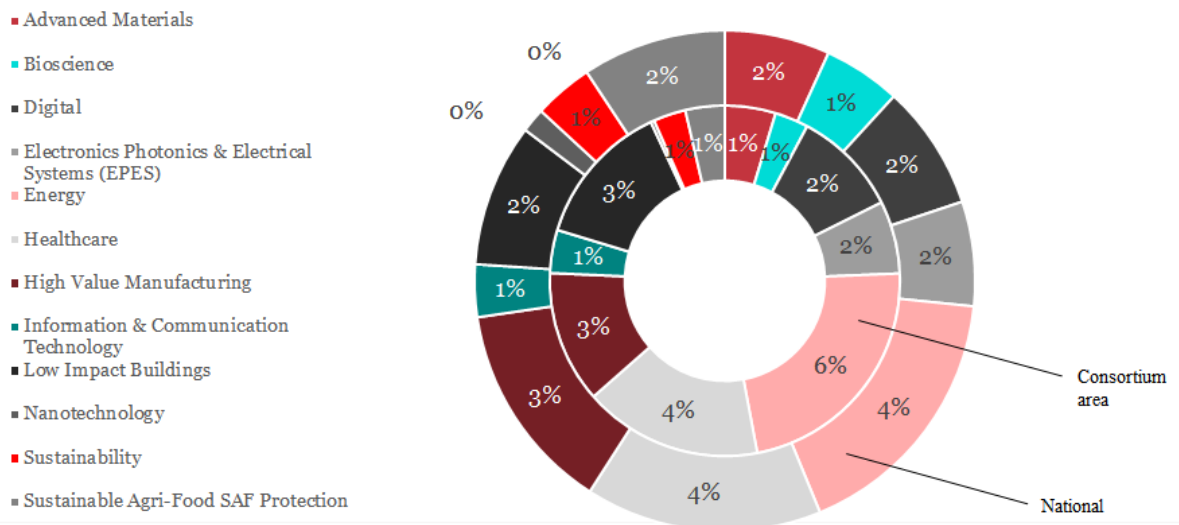
Area of interest	Unit of Assessment	% of domestic income (REF)	% of international income (REF)
Health	Allied Health Professions, Dentistry, Nursing and Pharmacy	6%	6%
Bio economy	Biological Sciences	10%	13%
Health	Clinical Medicine	13%	7%
Digital	Computer Science and Informatics	2%	7%
Bio economy	Earth Systems and Environmental Sciences	3%	9%

Advanced manufacturing	General Engineering	9%	17%
Energy / Advanced Manufacturing	Physics	9%	5%
Health	Psychology, Psychiatry and Neuroscience	7%	4%
Health	Public Health, Health Services and Primary Care	11%	2%
	% of all UK REF funding	7%	6%

Source: Research Excellence Framework (REF) Results, Higher Education Funding Council for England (HEFCE) (2015)

Table E1 REF funding - national and international

The largest proportion of Innovate UK awards received for an area of interest within the consortium area was Energy (6%, £12.3m). The second highest level of funding received for an area of interest was awarded to healthcare (4%, £8.9m). The consortium area slightly outperformed the national average in Energy and Low Impact Buildings.

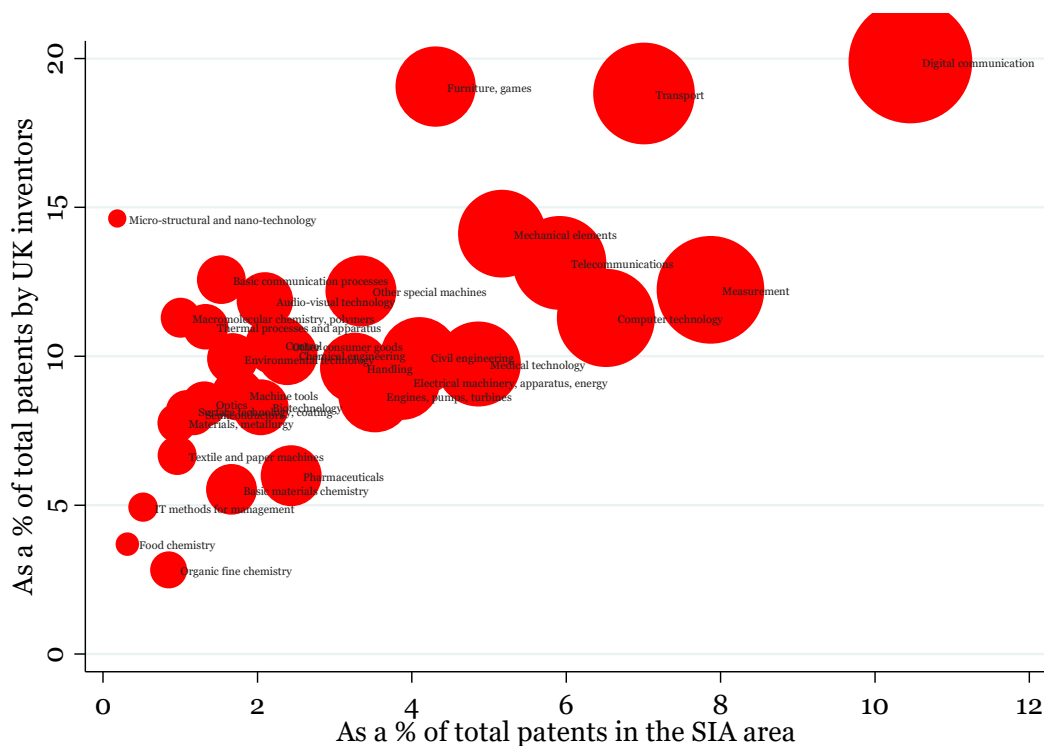


NB: In order to focus on the areas of interest to the consortium, this chart does not represent 100% of the Innovate UK funding received in the consortium area over the period.

Source: Transparency data. Innovate UK funded projects since 2004. Innovate UK (2016).

Figure E21 Innovate UK award breakdown

Patent data reveal strengths in several areas which show a relative high share of the total patents submitted by UK inventors (overall share: 10.2%) and represent a relative high proportion within the patent portfolio of the consortium. These areas include: Digital communication, Transport, measurement, Computer Technology and Telecommunications.



Source: EPO PATSTAT, 2004-2013

Figure E3 EPO Patent Data

Analysis of the 8th European Commission Framework Programme (H2020) shows the consortium’s participation in European competitive funding. There are three areas where drawdown is high and participation is relative high in comparison with the overall participation of the consortium in H2020 (9%): Energy, Food and Environment.

	Relatively high participation (based on EC Contribution)	Top 5 (based on EC contribution)
Access to risk finance	0%	
Advanced manufacturing and processing	8%	3.04
Advanced materials	7%	1.59
Biotechnology	1%	0.05
Climate action, environment, resource efficiency	20%	16.63
Europe in a changing world	9%	3.21
Food security, sustainable agriculture	16%	11.15
Health, demographic change and wellbeing	4%	8.73
Industrial Leadership - Cross-theme	3%	0.45
Information and Communication Technologies	7%	15.66
Innovation in SMEs	13%	0.48
Nanotechnologies, Advanced Materials	16%	5.52
Secure societies - Protecting freedom	5%	3.26

Secure, clean and efficient energy	13%	21.41
Smart, green and integrated transport	5%	4.52
Societal Challenges - Cross-theme	0%	
Space	25%	6.96
	Total EC Contribution	102.66
	Relative overall participation	9%

Table E2 8th European Commission Framework Programme (H2020)

Industry capacity and capability

The last UK R&D Scoreboard (2010)¹ clearly identifies the largest business investment in R&D in SW England and SE Wales comes from the Aerospace and Advanced Engineering sector, with Airbus, Cobham, GE Aviation Systems, Dyson, Renishaw and Messier-Dowty in the top 10 positions for R&D investment. Intel, Cisco Systems, IR Newport, IQE, RWE Npower, MessageLabs and picoChip Designs are amongst other multi-million pound investors in R&D.

The more recent 2013 EU industrial R&D Investment Scoreboard² identifies Rolls-Royce, GKN, BAE Systems, Johnson Matthey, Cobham, Spirent, Renishaw, Ultraelectronics and Gooch & Housego in the EU top 1000 by R&D spend, and all have R&D activities in the SIA area.

This demonstrates significant industrial R&D capacity in Aerospace and Advanced Engineering and Microelectronics within the SIA area.

With a few notable exceptions, the lack of a significant bio / medical / health industry (except related to Digital Health) led to the exclusion of this area of research strength from being an SIA Theme.

Summary

To summarise, the SIA consortium has:

- above UK average RCUK funding drawdown in the research areas covered by EPSRC and NERC: Engineering, Physical Sciences, and Natural Environment
- significant funding in terms of UK proportion of national and/or international REF income in General Engineering, Computer Science and Informatics, Earth Systems and Environmental Sciences, and Physics
- IUK awards in Energy that outperform the national average

¹

http://webarchive.nationalarchives.gov.uk/20101208170217/http://www.innovation.gov.uk/r_d_scoreboard/?p=31

² <http://iri.jrc.ec.europa.eu/scoreboard.html>

- Patent data that reveals strengths in Digital communication, Transport, Measurement, Computer Technology and Telecommunications
- H2020 drawdown of funding and participation that are high in Climate action, environment, resource efficiency; Food security, sustainable agriculture; and Secure, clean and efficient energy
- significant industrial R&D capacity in Aerospace and Advanced Engineering and Microelectronics within the SIA area
- an opportunity to capitalise on strengths aligned to the UK's first new build Nuclear Power station at Hinkley C
- the potential to capitalise on the Met Office's position in the region and it's alignment with significant other research expertise in digital / data analytics

There is clearly significant research excellence, numerous significant regional assets and industrial capacity to provide the rationale to further investigate:

- Aerospace and Advanced Engineering
- New Energy Systems
- Next Generation Microelectronics

The strength of the research capability and underpinning technology building blocks within industry clearly identifies the possibility for creating significant future potential in:

- Digital Living Innovation

The strength of the research capability clearly identifies the possibility for emerging potential in:

- Resilience, Environment & Sustainability

Annex F: LEP / Welsh Government Strategic Alignment

The themes in the Audit are consistent with those identified by the LEPs and Welsh Government as evidenced from analysis of their strategies detailed below and summarised in Table F1 LEP / Welsh Government Strategic alignment with them.

The five LEPs in the consortium submitted plans to Growth Deal 3 in July 2016. These are summarised below in Table F21 Summary of LEP Growth Deal 3 submissions by SIA Theme (July 2016).

Aerospace and Advanced Engineering

Aerospace and Advanced Engineering is identified in the LEP strategies for Cornwall & Isles of Scilly, GFirst, Heart of the SW, Swindon & Wiltshire and West of England LEPs, and as a Grand Challenge area for Innovation Wales. It is core to the economic development priorities in the Somerset Growth Plan and Newquay Enterprise Zone in Cornwall.

The theme aligns with the UK Government's Industrial Strategies "eight great technologies" of robotics & autonomous systems; advanced materials & nanotechnology; and, energy & its storage.

New Energy Systems

Nuclear energy is in the Heart of the SW, GFirst and West of England LEP strategies, and in the economic development priorities in the Somerset growth plan, Enterprise Zone at Huntspill Energy Park and the new Somerset Innovation Centre.

Marine renewables is in Cornwall & Isles of Scilly and Heart of the SW LEP strategies, with Low Carbon in the West of England LEP strategy and renewables in the Gfirst LEP one. Local Authorities on both sides of the Bristol Channel / Severn Estuary are working together on the strategic and sustainable development of our vast offshore resources. The Cornwall & Isles of Scilly Marine Renewable Roadmap was launched in 2015. We have a Marine Enterprise Zone in South Yard, Plymouth.

The theme aligns with the UK Government's Industrial Strategies "Eight great technologies" of robotics & autonomous systems; and energy & its storage.

Next Generation Microelectronics

Next Generation Microelectronics is identified in the West of England LEP (under High Tech and Creative and Digital media) and in Torbay strategic development plans. Key enablers, photonics and cyber security, are Grand Challenge areas for Innovation Wales. Welsh Government strategy supports the UK National Centre for Compound Semiconductors to create Europe's fifth semiconductor cluster.

The theme aligns with the UK Government's Industrial Strategies "Eight great technologies" of advanced materials & nanotechnology.

Digital Living Innovation

Digital Living is identified in Heart of the SW LEP's strategic priorities: ICT – 'Big Data', and Health and Social Care; and in Cornwall & Isles of Scilly LEP's under digital economy and e-health and e-wellbeing. S&W LEP have digital 'information economy' as a theme. West of England LEP identify this priority under High Tech and Creative and Digital media. Precision Engineering and medical instruments are key for GFirst LEP. ICT and digital economy, life sciences & health are Grand Challenges for Innovation Wales

The theme aligns with the UK Government's Industrial Strategies "Eight great technologies" of big data & energy-efficient computing; robotics & autonomous systems; synthetic biology; and regenerative medicine.

Resilience, Environment & Sustainability

Agri-tech and data analytics are Cornwall & Isles of Scilly LEP smart specialisation areas; Agri-food, Environmental Futures and Marine Environment are in the Heart of the SW LEP strategy; and Swindon & Wiltshire LEP priorities are Environmental Tech (sustainable energy).

The theme aligns with the UK Government's Industrial Strategies "Eight great technologies" of big data & energy-efficient computing; and agri-science.

Theme LEP	Aerospace & Advanced Engineering	New Energy Systems	Next Generation Micro- electronics	Digital Living Innovation	Resilience, Environment and Sustainability
Cornwall & Isles of Scilly LEP	Aerospace and Advanced Engineering; Newquay Enterprise Zone in Cornwall.	Marine renewables; Cornwall & Isles of Scilly Marine Renewable Roadmap (2015)		Digital economy, e-health and e- wellbeing	Agri-tech and data analytics
Heart of the South West LEP	Aerospace and Advanced Engineering; Somerset Growth Plan	Marine renewables; Marine Enterprise Zone in South Yard, Plymouth; Nuclear energy; Somerset growth plan, Enterprise Zone at Huntspill Energy Park; Somerset Innovation Centre.	Photonics cluster within Torbay strategic development plans	Big Data; Health & Social Care	Agri-food, Environmental Futures and Marine Environment
GFirst LEP	Aerospace and Advanced Engineering	Nuclear energy	Precision Engineering and medical instruments	Precision Engineering and medical instruments	
South East Wales	Aerospace and Advanced Engineering		Welsh Government strategy supports the UK National Centre for Compound Semiconductors	ICT and digital economy, life sciences & health are Grand Challenges	

			to create Europe's fifth semiconductor cluster		
Swindon & Wiltshire LEP	Aerospace and Advanced Engineering	Renewables		Digital 'information economy'	Environmental Technology (sustainable energy).
West of England LEP	Aerospace and Advanced Engineering	Low Carbon; Nuclear energy	High Tech and Creative and Digital media	High Tech and Creative and Digital media	

Table F1 LEP / Welsh Government Strategic alignment with themes

Theme	Aerospace & Advanced Engineering	New Energy Systems	Next Generation Microelectronics	Digital Living Innovation	Resilience, Environment and Sustainability	Cross-cutting / Other
LEP						
Cornwall & Isles of Scilly	Cornwall Airport Newquay EZ. National Centre of Excellence for Future Flight Technologies with iAero. <ul style="list-style-type: none"> - Unmanned Aerial Systems - Future Aerostructures and Aircraft - Propulsion of the Future - Engine and rocket testing. 	Low Carbon Enterprise Zone - Marine Hub			Cornwall Airport Newquay and Goonhilly Earth Station which together form our AEROHUB+7 EZ	Cornwall College – Institute of Technology: to extend coverage in STE(A)M based learning to all parts of LEP area

	Aerospace Skills Centre	Smart Islands - smart grid infrastructure		Smart Islands - smart grid infrastructure	Goonhilly Antenna Upgrades: creates a Space Comms Gateway	STEM skills centre at Callywith College, Truro and Penwith's new Bodmin campus.
	Space for Knowledge Exchange: SpoKE will provide space and a supportive environment				Goonhilly Science Outreach Centre	
Heart of the South West	New aerospace innovation and collaboration space, Yeovil - iAero (South)	Roundswell Business Park (phase 3) to open up employment space, as well as a marine innovation centre	Hi-Tech Centre, South Devon College - strong focus on advanced manufacturing, links to Torbay electronics /photonics cluster	LEP-wide ICT training - Hub and spoke training for Cyber-security, Big Data and Social Media.	Centre for Innovation Excellence in Livestock, Bicton - new facility to enable data analysis & research	Royal Bath and West Food Enterprise Zone
		Oceansgate, South Yard EZ, phase2. South Coast Marine Cluster			Infrastructure improvement links to the Environmental Futures	Yeovil College – Health and Care Career College
		Infrastructure to unlock Huntspill Energy Park EZ				Health and Social Care Campus, Torbay Hospital
		Further phase of Somerset Energy Innovation Centre				
		Building on the forthcoming SW England and SE Wales Science & Innovation audit to transform this potential into reality, supporting development of our 'golden opportunities' with a nuclear research hub, development of the Smart Sound opportunity in marine and developing the environmental futures cluster.				

Gfirst LEP	Eco Park - focused on knowledge-based industries and advanced technology businesses; transport improvements	Cheltenham Cyber Park - unlock site next to GCHQ, creating 'honeypot' for cyber security & high tech supply chain next to national cyber innovation centre	The Cirencester Enterprise Quarter - links with RAU Agri-tech investments;	Gloucestershire College Forest of Dean Campus - extend the provision of STEM Centres built within the County
Swindon & Wiltshire LEP			Swindon College Centre of Excellence in Sustainable Technologies - skills development in sustainable construction and advanced engineering	Gloucestershire Engineering Training: Centre of Excellence for Food & Drink Swindon and Wiltshire HE Centre - HE provision in digital technologies, life sciences and financial and professional business services Wiltshire College Lackham - land-based university centre 'The Wiltshire Regional Centre of Land-based Excellence' Wiltshire College Salisbury - construction,

				engineering and life sciences centre and a HE centre
West of England LEP	New aerospace innovation and collaboration space, Filton Enterprise Area - iAero (North)	NUCLEATE Nuclear Futures Open Innovation & Technology Centre	Quantum Innovation Factory	Bristol & Bath Science Park Grow On Centre (GO2)
	Institute for Advanced Automotive Propulsion Systems (IAPPS)			FoodworksSW - SW Food & Drink Centre @Food EZ, Weston

Table F21 Summary of LEP Growth Deal 3 submissions by SIA Theme (July 2016)