



VENTUREFEST

SOUTH WEST

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Peter Holland - Invest In Cornwall

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Patrick Hartop - Head of City Deal, Plymouth City Council

David Elson - Lead Technologist Marine and Maritime, Innovate UK

**MARINE TECHNOLOGY:
CASE STUDIES OF
EXCELLENCE AND OPPORTUNITIES**

The Marine Technology Roadmap and Future Funding

Venturefest South West
18th October 2016

Innovate UK

Marine & Maritime

UK Marine Industries Alliance

A strategy for growth for the UK Marine Industries

Global excellence and innovation
ulmarinealliance.com

OXFORD ECONOMICS

The economic impact of the marine and maritime sector on the UK in 2011/12

January 2013

Final Report
January 2013

OXFORD ECONOMICS

UK Marine Industries Technology Roadmap 2015

IfM Education and Consultancy Services

UNIVERSITY OF CAMBRIDGE

Department for Transport

Maritime Growth Study: keeping the UK competitive in a global market

Moving Britain Ahead

Technology Strategy Board
Driving Innovation

Vessel efficiency: Piloting UK marine and maritime innovation

COMPETITION FOR FAST-TRACK AND COLLABORATIVE R&D FUNDING
JANUARY 2013

[dstl]

Technology Strategy Board
Driving Innovation

Vessel Efficiency II: better systems at sea

COMPETITION FOR COLLABORATIVE R&D FUNDING
JANUARY 2014

Innovate UK
Technology Strategy Board

Maritime autonomous systems

Competition for collaborative R&D funding
October 2014

COLLABORATIVE R&D

Innovate UK
Technology Strategy Board

Competition for funding

Managing energy on marine vessels

02.03.15
4 March 2015

Collaborative R&D



Global Trends

Vessel Trends

UK Competitive Position

Priority Opportunities

Technical Capabilities

Enablers

Recommendations

UK Marine Industries
Technology Roadmap 2015

IfM International Fluid Machinery

UNIVERSITY OF CAMBRIDGE



Global Trends

Vessel Trends

UK Competitive Position

Priority Opportunities

- Whole ship integration
- Autonomous vessels and systems
- Superyachts, high-end powerboats and high-end sailing yachts
- Composites and other novel materials
- Design and manufacture of specialist vessels
- Through-life operation and insertion
- Decision support systems

Technical Capabilities

Enablers

Recommendations



Vessel Trends

Global Trends



UK Competitive Position



Technical Capabilities

Recommendations

The recommendations, aimed at industry stakeholders and funders, encompass:

- Strengthen and support the Marine Industry Leadership Council
- Define UK marine industry demonstrator or 'marine challenge' projects
- Consider how best to develop infrastructure to support future marine industries
- Engage with standards and regulatory bodies to accelerate the adoption of innovation
- Closer engagement with adjacent sectors and within the marine industries

Opportunities

Enablers

Future Funding - Sector focus to accelerate growth

Emerging and Enabling Technologies

Identifying and investing in technologies and capabilities that will lead to the new products, processes and services of tomorrow

- Earth Observation
- Internet of Things
- Data
- Cyber Security
- User Experience (strategy)
- Emerging Tech & Industries
- Robotics & AS
- Electronics, Sensors and Photonics
- Design (strategy)
- Creative Economy (strategy)



Health and Life Sciences

Focused on agriculture and food and healthcare, underpinned by bioscience and medical research and enabled by engineering and physical sciences

- Advanced Therapies
- Precision Medicine
- Medicines Technology
- Bioscience
- Agri Productivity
- Enhanced Food Quality



Infrastructure Systems

Optimising transport and energy systems and integrating them with other systems such as health and digital

- Connected Transport
- Urban Living
- Energy Systems
- Smart Infrastructure
- Nuclear
- Offshore Wind



Manufacturing and Materials

Advancing manufacturing readiness so R&D and technology developments increase productivity and capture value in the UK

- Digital Manufacturing
- Early Stage Manufacturing
- Manufacturing Readiness
- Resource efficiency
- Advanced Materials



Open Programme



Funding competitions

- Two broad competitions for funding in each **sector group** this year; each open to a much wider range of applications than previously
- An **'open'** funding programme – with two rounds per year - for applications from any technology area or sector

Manufacturing and Materials	May 2016	Nov 2016
Open	Jun 2016	Dec 2016
Infrastructure Systems	Jul 2016	Jan 2016
Health and Life Sciences	Sep 2016	Feb 2016
Emerging and Enabling Technologies	Oct 2016	Mar 2016

We will also run competitions in partnership with other organisations.
For all competitions see the Delivery Plan or www.innovateuk.gov.uk

EU and International

- Support business participation in the Horizon 2020 programme
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- Increase opportunities for UK business through relationships with other countries, including through the Newton Fund



We can't stop thinking
about the future

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KEEP IN TOUCH**