



Collaborative R&D Competition

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Benefiting everyone through knowledge, talent and ideas

UK Research and Innovation brings together the 7 Research Councils, Innovate UK and Research England.

As part of UK Research and Innovation, Innovate UK drives productivity and economic growth by supporting businesses to develop and realise the potential of new ideas including those from the UK's world-class research base.



**UK Research
and Innovation**

Innovate UK

- We are the UK's innovation agency
- We support business-led innovation in all sectors, technologies and UK regions
- A key delivery body of the Government's Innovation Strategy

Our Mission

To help UK businesses grow through the development and commercialisation of new products, processes, and services, supported by an outstanding innovation ecosystem that is agile, inclusive, and easy to navigate.



Inspire

Make the opportunity
visible and compelling

Involve

Bring relevant organisations
and people together

Invest

Convene the resources
needed, including our own

Building the Future Economy

Plan for action for UK business innovation



We have launched a [plan for action](#) to explain how we will deliver the [Government's UK Innovation Strategy](#), with the vision for the UK to become a global hub for innovation by 2035.

Our actions will be guided and prioritised by the following:

Strategic Themes

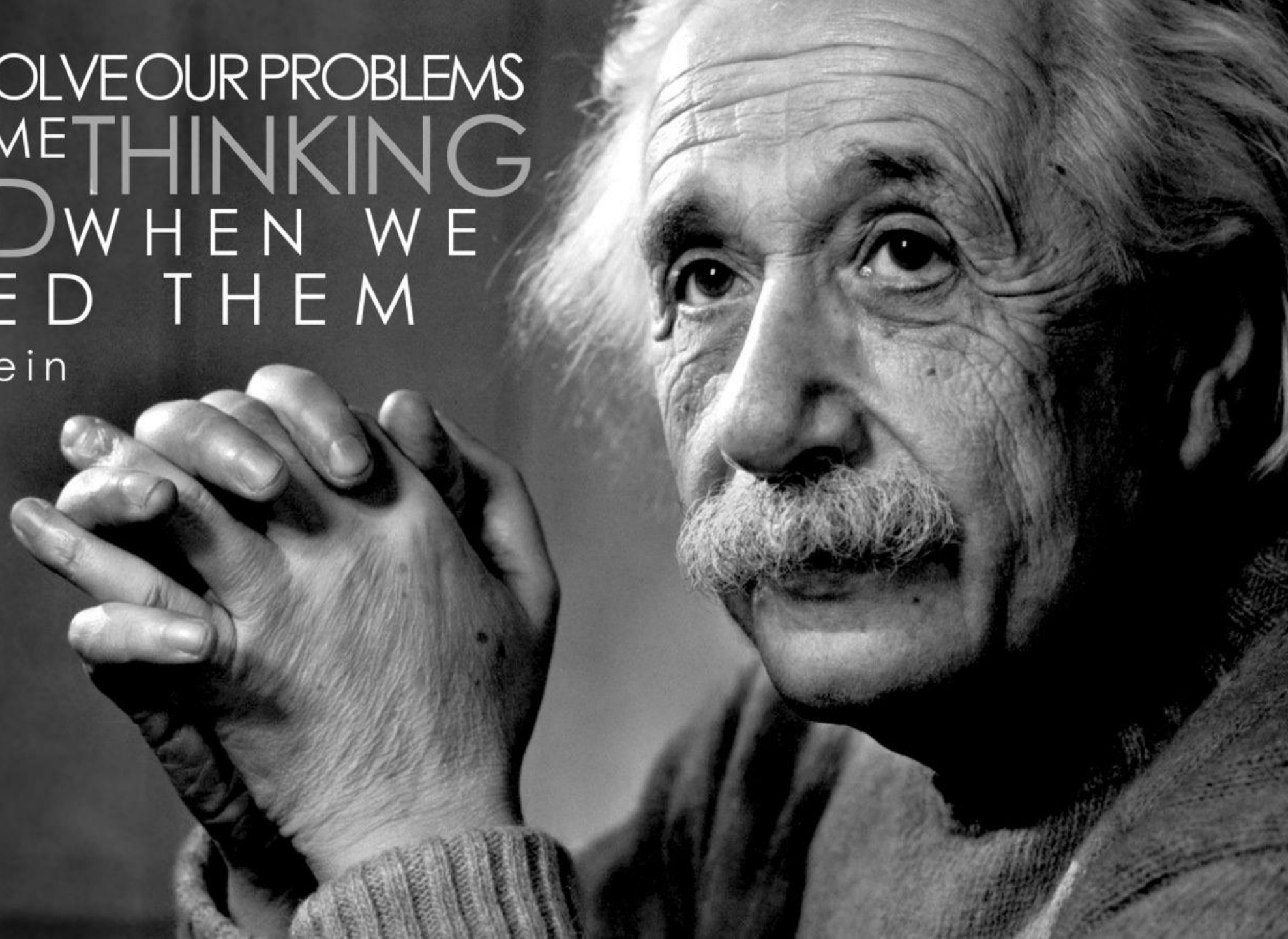


Strong Foundations



WE CANNOT SOLVE OUR PROBLEMS
WITH THE SAME THINKING
WE USED WHEN WE
CREATED THEM

-Albert Einstein





**Great discoveries
and improvements invariably
involve the **cooperation**
of many minds.**

— *Alexander Graham Bell*





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Thank you



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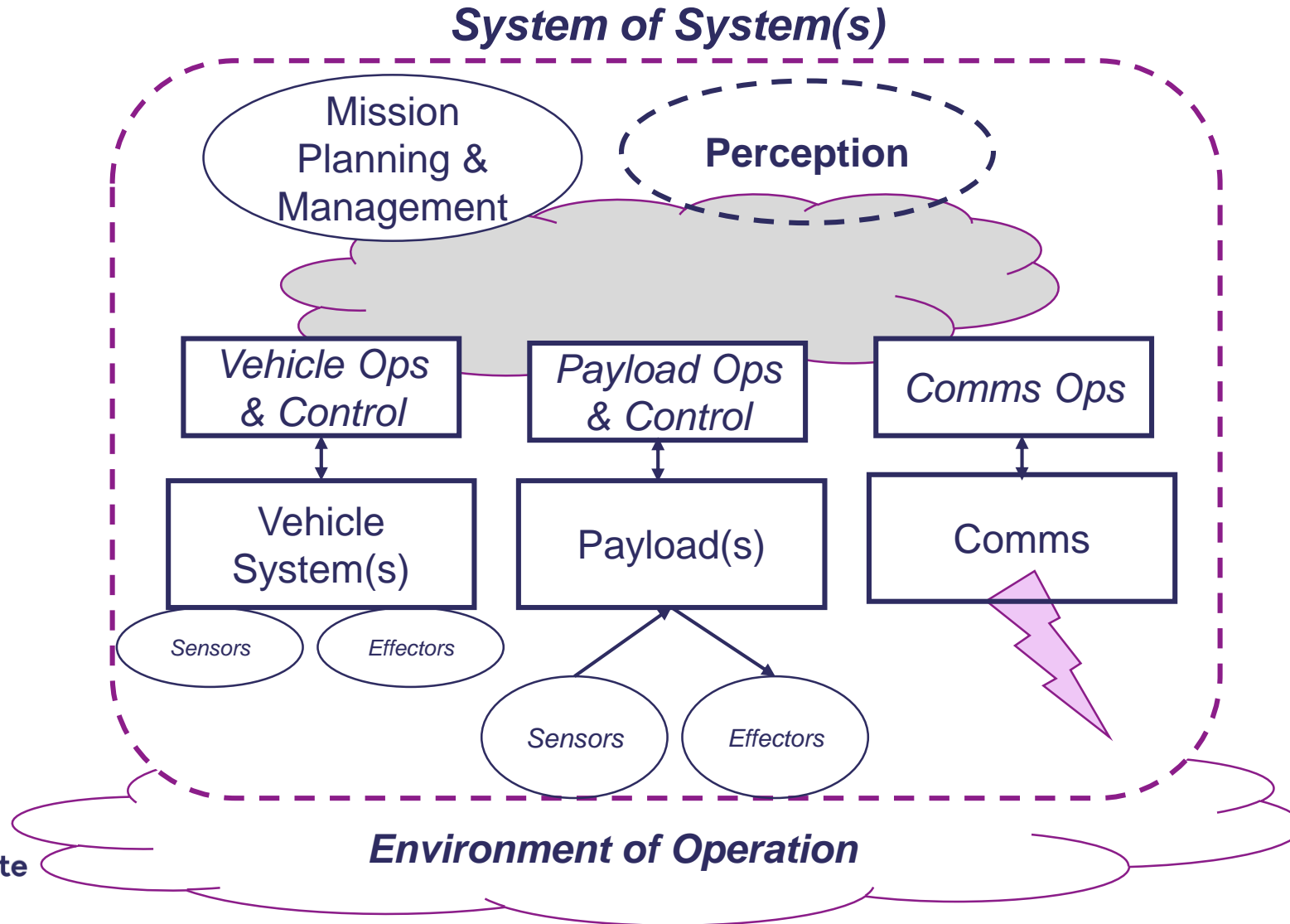
Challenge/Competition Specific items

Nikos Pronios, PhD
Innovation Lead – Robotics & AI

The Challenge

- To develop an ***innovative modular, extensible, and adaptable perception solution*** that can be used for USVs and/or UUVs of different sizes and regulatory regimes, and be suitable for diverse:
 - Vessel specific control, monitoring & support functions (e.g. propulsion, steering)
 - Sensing suites appropriate for the environment(s) of operations (e.g. cameras, AIS, DVL, USBL)
 - Mission management systems (e.g. control software for the on-board management and execution of the overall mission and operation of the USV/UUV)
 - Communication systems (e.g. radio, cellular, satellite, acoustic)
- Of particular focus will be perception solutions supporting real-time perception at-the-edge, with stringent size, weight, and power (SWaP) constraints, for various autonomy levels.

Some context





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Application Process

Alex Mauser
Senior Manager
Innovate UK EDGE




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Competition Hub

Hosting this briefing

- Full competition scope and eligibility details
- Competition milestone dates
- Find potential consortium partners through virtual matchmaking

<https://uk-canada-maritime-challenge-funding.b2match.io/>



Innovate UK - Ocean Technology Council of Nova Scotia Challenge Funding Competition

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Call for Proposals: Innovative Perception Capabilities for Uncrewed Maritime Systems

UK registered businesses and Canadian SMEs can apply to collaborate on joint R&D projects that allow Uncrewed Maritime Systems to operate safely in complex environments.

Innovate UK and the Ocean Technology Council of Nova Scotia (OTCNS) are collaborating in an innovation challenge that will encourage and facilitate bi-country commercial partnerships that will result in breakthrough solutions for relevant challenges to the global blue economy ecosystem.

The purpose of the challenge is two-fold: the first objective is to advance the Canadian and United Kingdom ocean technology sectors by finding innovative solutions to a pivotal challenge facing each. The second objective is to encourage and facilitate bi-country collaborative projects that will result in commercial gain for both parties.


The Challenge


To develop an innovative modular, extensible, and adaptable perception solution that can be used for USVs and/or UUVs of different sizes and regulatory regimes, and be suitable for diverse:

- Vessel specific control, monitoring & support functions (e.g. propulsion, steering)
- Sensing suites appropriate for the environment(s) of operations (e.g. cameras, AIS, DVL, USBL)
- Mission management systems (e.g. control software for the on-board management and execution of the overall mission and operation of the USV/UUV)
- Communication systems (e.g. radio, cellular, satellite, acoustic)


Register now
Open until 4 November 2022

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**OTCNS**
OCEAN TECHNOLOGY
COUNCIL OF NOVA SCOTIA

**Canada**


RESOURCES
[Competition Application Form](#)

Competition Hub

Application Form

- How to apply tab
- Download the application form
- Thoroughly read the form before starting application
- Follow instructions exactly

<https://uk-canada-maritime-challenge-funding.b2match.io/>



31 October 2022

Innovate UK - Ocean Technology Council of Nova Scotia Challenge Funding Competition

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How to apply

Call for Proposals: Innovative Perception Capabilities for Uncrewed Maritime Systems


The application form to apply for this call can be downloaded via the link below:


[Challenge Funding Competition Application Form](#) (Link to Microsoft Word Document)


The application form must be completed by the lead applicant organisation on behalf of the project team and submitted by Friday 02 December 2022 23:59 GMT or 23:59 AST as applicable to email enquiries8@innovateukedge.ukri.org


Register now
Open until 2 December 2022

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OTCNS
OCEAN TECHNOLOGY
COUNCIL OF NOVA SCOTIA


Canada

RESOURCES
[Challenge Funding Competition Application Form](#)

Application Form:

Single application form for the project application

- Section 1 - To be completed by the lead applicant organisation on behalf of the project team (Canadian or UK)
- Section 2 - Requested information to be completed for each collaboration partner and all subcontractors involved in the project
- Section 3 – Application questions
 - Keep to **400** word limit
 - Do not include URLs in your answers
 - Use appendices to supplement answers where allowed (follow appendix instructions)

Application Form:

Tables requested within application questions

- Section 3 - Question 4. Project plan and methodology
 - Tables are not included in word count limit
 - The table must be completed for the project as a whole by the project lead
 - Each project collaboration partner (including the project lead) must also complete a separate version of the table for their own project activities
- Section 3 - Question 6. Costs and value for money
 - Tables are not included in word count limit
 - Each project collaboration partner must also complete a separate version of the table for their own project costs

Application Form:

Submission details

Competition Closes Friday 02 December 2022 23:59 GMT or 23:59 AST as applicable.

Complete and submit application form to email:
enquiries8@innovateukedge.ukri.org

Application Evaluation:

Competitive process

- Proposals will be evaluated by an independent panel
- Interviews may be required - applicants must be available for possible interviews on 13 - 16 December 2022.
- Two winning proposals will be selected, and each will receive \$250,000 CDN.
- Applicants will be notified by 06 January 2023
- Project must start by 01 April 2023
- Project to be completed by 31 December 2023



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Thank you



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