Describe your Organization:
• SiriusInsight – a dual-purpose SME, UK based, focused on Maritime surveillance and pioneering AI processed data analytics
• Multi Sensor Surveillance to deliver situational awareness, safety and security
• Government contracted, looking to develop capability and expand abroad.
Horizon Europe topic you are targeting as coordinator/main partner:

- Sub Topic C (2021)
- Enhanced security and management of territorial waters, protected areas, borders, the maritime environment, activities and transport, by increased surveillance capability including high altitude, long endurance aerial support
Your idea:

• Maritime surveillance is sparse, sporadic and non-persistent
• SI developed MSS to deliver persistence - layering - efficiency
  • Local or wide area, bespoke or inter-connected
• Opportunity to fill the gap with transformational data, and AI derived alerting and cueing.
• Coordinator: SiriusInsight
• We are looking to partner with:
  • Instrument / sensor manufacturers
  • Aerial / Underwater surveillance
  • Control capability
  • Users – maritime domain

• Who to contact: nick.cooke-priest@siriusinsight.ai
  07771825437
Searover offers underwater technology solutions.

Searover provides underwater technologies and robotic solutions.

- Searover offers product sales, engineering and design solutions, R&D studies, product development and product adaptation according to the needs, as well as operation and reporting services such as underwater observation, monitoring and inspection in various sectors such as marine construction, energy, aquaculture, defense industry, environmental research and underwater archeology.
- ROVs and different types of underwater devices
- SME, a team of 12 professionals, based in İzmir/Turkey
Projects

Horizon Europe topic we are targeting:

- Enabling sustainable fisheries and aquaculture
- Climate neutral, sustainable and productive Blue Economy

2 R&D projects with TÜBİTAK (The Scientific and Technological Research Council of Turkey) have been funded and completed, another 4 R&D projects are still ongoing. We have experience and knowledge in designing new products, project planning, production and development.

Seafarer

- Smart Fishfarm Tracing Systems

Observer Ultimate

- Canal Inspection
- 3D mapping, 300 meters depth, 7 km range, Sonar, USBL, DVL

Observer Autonomous

- Autonomous underwater vehicle

Observer Climber

- Inspection of Windturbines
Capabilities and Specialties

- Artificial intelligence
- User-friendly software
- Interface and housing design
- ROV control through FBV glasses

- Magnetically operated devices
- Remotely controlled vehicles
- Underwater Cable spool & Ground control station

- Lithium-ion battery production
- Long distance data transfer
- Sonar types, USBL,DVL usage
- Sensor fusion

Coordinator: Unsettled
Current partners: Searover
Partner gap/s in the consortium: Any organization experienced in a complementary field

Contact: İlkyaz Koca
Email: ilkyaz.koca@searover.com.tr
info@searover.com.tr
www.searover.com.tr
Redrose is located in North West Ireland
A micro entity working in seaweed cultivation and processing
Two innovative systems:
• Modulating floating seaweed farms towed by fishermen to designated sites
• Modulated seaweed processing systems processing sustainable amounts of wild stock and addressing the bottleneck in cultivated seaweed
Horizon Europe topic you are targeting **Farm to Fork**:

- Indicate Area and Topic title/identifier: **Subtopic B. [2021] Achieving climate neutral food businesses by mitigating climate change, reducing energy use and increasing energy efficiency in processing, distribution, conservation and preparation of food (IA)**

- Does your idea fit the topic scope and impact?: **Seaweed absorbs 20x more CO2 than landbased plants. It does not require fresh water or landmass for growth. However, increased demands as more sectors, particularly food, are using seaweed there is a threat to the wild stock. Our system offers a solution that will sustainably process seaweed and increase the value of wild and cultivated stock. Large scale cultivation is necessary but expensive, we offer an opportunity for fishermen and local harvesters to engage with and benefit from this growth sector.**

- Supporting rural coastal economic development and much needed additional income stream to fishermen, whilst creating natural habitats to support marine biodiversity.
Your idea: An equitable, sustainable, scalable, seaweed supply chain, supporting economic growth in rural coastal communities

- Redrose holds two aquaculture licenses one being exposed to Atlantic storms
- Coordinator: Not yet determined
- Current partners:
  - NUIG, Station Biological De Roscoff, - Science and biology of seaweed
  - CRN Italy – Underwater power and energies
  - Solar Marine Energies, Sea Energies – Marine engineers and designers
  - Argoinnovations NL – Fertiliser and soil conditioning producer
  - FranchiseArkitekt® Norge – Franchise expert
- Who to contact: Ann Ruddy – Tel: 0873484269 annruddy.redrose@gmail.com
Dr. Matthew Service Programme Lead Coastal Science

Dynamic aquatic ecosystems: identifying and taking action on influences critical to ecosystem health.
The Agri-Food and Biosciences Institute (AFBI):

- Multi-disciplinary research institute with c650 permanent staff
- 7 research sites across NI incl: a 53m dedicated marine research vessel
- 3 main areas of work:
  - Natural and marine environment
  - Animal, plant and human health and welfare
  - Sustainable livestock production

Fisheries and Aquatic Ecosystems Branch:

- One of the 3 UK national marine and freshwater science laboratories delivering scientific services and advice to government on marine and aquatic matters
- Research focuses on scientific understanding of the sustainable management of fisheries and aquatic resources in ecosystem context, with technology and sensor development, use of AI and modelling
- EU Funding includes: GAIN, Aquaspace (H2020); EMFF (e.g. SIMAtlantic); Interreg (incl. 2 as lead partner)
Targeted Horizon Europe topics (as contributing partner):

AFBI’s research links the coastal and marine ecosystems rather than looking at them independently.

Offer - seeking collaboration:
• Extensive sensor and sampling arrays enabling tracking of land-derived pollutants into coastal and marine ecosystems and developing an understanding of their effects on ecosystem health

Potential contribution to the following topics:
• HORIZON-CL6-2021-BIODIV-01-03 Understanding and valuing coastal and marine biodiversity and ecosystems services
• HORIZON-CL6-2021-BIODIV-01-04 Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services
• HORIZON-CL6-2022-BIODIV-01-01 Observing and mapping biodiversity and ecosystems, with particular focus on coastal and marine ecosystems
• HORIZON-CL6-2022-CircBio-01-07 Marine microbiome for healthy oceans and a sustainable blue bioeconomy
• HORIZON-CL6-2022-COMMUNITIES-01-03 Integration of marine ecosystem service valuation, conservation and restoration in socio-economic models
Main objective:

- Understanding pathways of land derived pollutants from terrestrial to marine with a key focus on demonstrating an understanding the varying sensitivities of coastal and marine habitats.
- Methodology:
  - Develop a smart network of monitoring sensors, integrating this with cost effective EO/satellite data to monitor seasonal and longer term changes in ecosystem status
  - Leverage recently collected complete coverage coastal Lidar and multispectral ortho-photograph (AFBI has this for NI)
  - Develop ecosystem models (various scales) combining: terrestrial nutrient subsidies provided to the marine environment by point sources (rivers) and diffuse groundwater; coastal carbon metabolism (blue carbon); mapping of marine vegetation, its deposition and degradation on the coast.
- Seeking a Coordinator
- Keen to develop new links for data processing/management and find partners who wish to develop the application of ecosystem models and system management

Contacts: William Hunter
Christian Wilson
Adam Mellor
Ruth Kelly
Matthew Service
Islam Urmatbek uulu

SuCooter

Your future transportation.
We are individuals of 5 based in Istanbul, Turkey who does research and development of autonomous sea vehicle ‘SuCooter.’ Our group is currently enrolled in a start-up program that goes by the name of ‘TUBITAK BIGG’, in which we will be able to become registered start-up company.
What is SuCooter?

- Emission free
- Autonomous
- Green cities
- Sustainable
- Safe
• Main objective: There is car-centric mobility which causes unsafety and traffic. The solution to these problems could be the use of more maritime transport in metropolis cities. That is why we had decided to create a vehicle that goes A to B using canals, straits, and the sea, showing the possibility to be the best and fastest for transportation.

• Current partners: Bahçeşehir University, Ford Turkey

• Partner gap/s in the consortium: We are open to any offers of partnership.

Who to contact:
Islam Urmatbek uulu – SuCooter co-founder.
islam.urmatbekuulu@bahcesehir.edu.tr
Horizon Europe Marine & Maritime Brokerage event

Julie Changivy Communication Officer
Aliénor in a few words:

- SME based in Brussels
- Communication and EU policy consultancy
- Team of 11 people (Policy consultants + Communication officer)
- Communication and Dissemination WP leader in FP7 and H2020 projects, including FP7 OCEAN project
- Tailor-made solutions
Horizon Europe topic Aliénor is targeting as partner:

- Interest in all Maritime Affairs-related calls
- We are EU experts:
  - WP leader for Communication and Dissemination
  - Experienced consultancy in Fisheries and Maritime Affairs (communication, policy-makers outreach and engagement, large network of contacts in EU Maritime Affairs and Fisheries, etc)
- Our current clients:
  - Aquaculture Advisory Council
  - European Association of Fish Producers Organisations
  - European Fishing Tackle Trade Association
  - European Anglers Alliance
What we can offer:

• Act as WP leader, partner or subcontractor
• Focus on Dissemination plan elaboration and implementation, with specific focus on EU policymakers (bilateral meetings, events organization, etc)
• Areas of interest:
  • Sustainable fisheries
  • Fisheries monitoring and control and IUU, Data collection framework,
  • EU Aquaculture,
  • Traceability of fisheries and aquaculture products,
  • Water Framework Directive, rivers connectivity,
  • Biodiversity Strategy and Farm to Fork Strategy,
  • Marine litter and plastic pollution, recycling,
  • Blue economy and coastal tourism,
  • Marine Spatial Planning Directive,
  • EU Nature legislation (Habitats and Birds Directive),
  • EU Atlantic Strategy

• Who to contact: Julie Changivy, EU Affairs Manager, julie.changivy@alienoreu.com
Horizon Europe Marine & Maritime Brokerage event

Prof. Jorge Oliveira
University College Cork & Ernesto Morgado
Describe your Organization:

• I’m addressing you on behalf of 2 organisations:
  • University College Cork, School of Engineering and Architecture, a major Higher Education Institution in Ireland with a long track record of participation in EU projects, where I am the Head of the School.
  • Ernesto Morgado, S.A, a 100 year-old Portuguese SME (rice milling and ready-meals), where I am a member of the Board of Directors
• I am doing so for our joint interest in developing new food products from algal material (micro and macro)
Horizon Europe topic you are targeting as coordinator/main partner:

- The topic is a critical element of the development of new sources for food proteins, able to meet the joint societal challenges of world population growth and environmental impact of food production systems
  - seriously, who wants to eat insects and larvae?
- Horizon Pillar 2, Food Cluster, Blue Economy + Sustainable foods
- I have ongoing projects at a national level, involving other HEIs and other industrial partners, but there’s loads more to do on this
- I have not contacted either NCPs
- I have past experience as EU project coordinator and also evaluator (external expert)
Your idea:

• Main objective: Develop a European wide proposal for the whole production cycle (waste solutions too), including innovative solutions for sensory quality and food acceptability issues
• Coordinator: Whether I coordinate a proposal or not is not relevant to me
• Current partners: HEIs and industries in Ireland and Portugal are interested
• Partner gap/s in the consortium (profile of the sought partner and role): HEI, Research Centres and industries (algal producers, food companies), especially in other EU countries
• Who to contact: j.oliveira@ucc.ie
Horizon Europe Marine & Maritime Brokerage event

Stuart Morrison  Managing Director
Company Overview

- MEP Technologies have been working with rechargeable battery packs for over 3 decades (automotive, Emobility and industrial battery applications).

- In the past, the team at MEP Technologies were involved in the development and manufacture of the battery pack for the McLaren P1 PHEV Hypercar. A 176kW battery pack capable of supporting high performance propulsion.

- More recently, we have been developing battery systems for portable energy storage applications, full electric commercial vehicles and emobility applications.
➢ We are seeking opportunities to develop large scale battery systems for traction or energy storage application.

➢ We have developed a new technology called Pulse-Store based on supercapacitors that will prove useful for applications which require high power output for a short pulse.

➢ In the past, supercapacitor technology has been extremely expensive, and does not have a lot of energy store. Our hybrid architecture alleviates these problems for larger applications (such as trains, and marine vessels).

➢ Our battery management system can also be used for more traditional battery systems, but can be tailored to support any special requirements for novel traction systems.
Our objective

• To find an application that can demonstrate the capability and benefits of the Pulse-Store energy system

• We have no current partners. We have suppliers already lined up for the battery system and supercapacitors

• Ideally, we would like to make contact with vessel designers (ASV/AUV/Ferry) who are looking to either fully electrify or hybridise their drive systems

• Please contact me at MEP Technologies if you would like to collaborate or even to know more about our existing technologies

Thank You