

# Hackathon: Increased efficiency and improved environment enabled by smart sensor networks

27-28 November | 2019

Explore and learn about new emerging technologies that are expected to revolutionize Internet of Things in the coming years. Join us at our Hackathon on how to utilize ocean data collected from smart sensor networks. The Hackathon will give you the opportunity to:

- learn about (currently little known) technologies that are expected to revolutionize IoT (Internet of Things) in the coming years
- create new ideas and discuss them with peers
- experiment with the technology in practice to demonstrate simple, new innovations/ideas
- bring new knowledge back to your company that can be turned into innovations

The Hackathon will cover both the LoRaWAN technology, and the Narrowband Internet of Things. Designed to wirelessly connect battery-powered 'things' to the Internet in regional, national, or global networks, LoRaWAN® provides two-way communication, end-to-end security, mobility, and location services. NarrowBand Internet of Things (NB-IoT) is a new communication technology that enables sensors to communicate via the existing 4G network and/or the new 5G. The sensors used are inexpensive in production and have a long battery life (up to ten years or more). This will make it possible to connect sensors and other "things" to the Internet where it has not previously been profitable or practically feasible due to power and coverage challenges.

We also invite you, as an alternative, to listen to the presentation of the outcome of a Hackathon and participate in a workshop. In the workshop we will discuss the possible implementation in operations and projects and get the chance to listen to exciting and innovative solutions. You will also get the chance to participate in company visits.

## Organizers:



GCE | **NODE** | GLOBAL CENTER  
OF EXPERTISE

## In cooperation with:

**MEDIA  
EVOLUTION**



*The project PERISCOPE aims at establish a permanent innovation ecosystem in the North Sea Region to grow transnational innovation partnerships for sustainable business development in emerging blue markets. The NSR is a crucial area for Europe's Blue Economy with marine resources, technologically- advanced industries, major port areas and increased offshore activities. Due to global drivers, the wider maritime, marine and offshore economies are exposed to profound challenges with some industries undergoing significant changes, including increased production (offshore wind in Denmark and Germany), as well as stagnation and decrease of production (oil & gas in UK and Norway) - the NSR is experiencing a period of considerable restructuring. PERISCOPE is a project co-funded by the North Sea Region Programme 2014 - 2020. [www.periscope-network.eu](http://www.periscope-network.eu)*

# Program

It is possible to participate only day two if you can't participate in the Hackathon.

## 27th November

11.00-18.00 Hackathon

20.00 Dinner, we also welcome persons participating only on day two

## 28th November

9.00 - 12.00 Wrap up of the Hackathon

9.00 - 12.00 Company tour (if you would like to end the day here it is possible)

12.00 Lunch

12.45 - Presentation of the outcome and workshop about implementation and possible development project

15.30 Summary

16.00 End

**When:** 27-28th November 2019

**Where:** Media Evolution, Stora Varvsgatan 6A, Malmö <http://www.mediaevolution.se/>

**Cost:** The event is free of charge but you are responsible for travel and living. No show 500 SEK.

### Recommended hotels:

[www.booking.com/hotel/se/clarion-malmo-live.sv.html](http://www.booking.com/hotel/se/clarion-malmo-live.sv.html)

[www.booking.com/hotel/se/best-western-premier-master-johan.html](http://www.booking.com/hotel/se/best-western-premier-master-johan.html)

[www.booking.com/hotel/se/story-studio-malmo.sv.html](http://www.booking.com/hotel/se/story-studio-malmo.sv.html)

**Register here:** <https://app.bwz.se/ri/b/v?event=505&ucrc=0FA1F1355D>

**Register at the latest November 8!**

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### PERISCOPE PARTNERS:

