

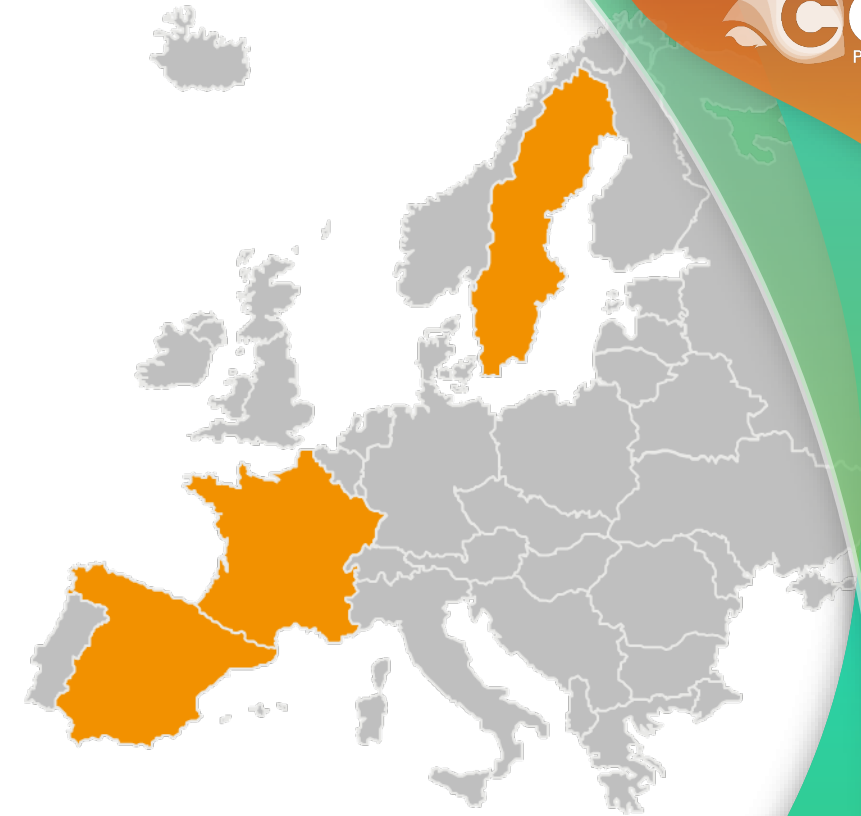
The logo for SMARTMOORING consists of a white circular icon on the left, made of several concentric, slightly offset curved lines that suggest a mooring or a wave. To the right of the icon, the word 'SMARTMOORING' is written in a large, bold, white, uppercase sans-serif font.

Smart mooring for safe and efficient ocean energy production

Åsa Claesson, RISE Research Institutes of Sweden

# Our Project Consortium

Organization		Role in project
Minesto	SE	Tidal energy systems
CorPower Ocean	SE	Wave energy systems
CalSens	ES	Sensor systems
RISE (coordinator)	SE	Optical fibers and sensor integration
Univ Valencia	ES	Fiber optic sensors
Univ Gustave Eiffel	FR	Large scale mechanical test infrastructure



# Our main objectives

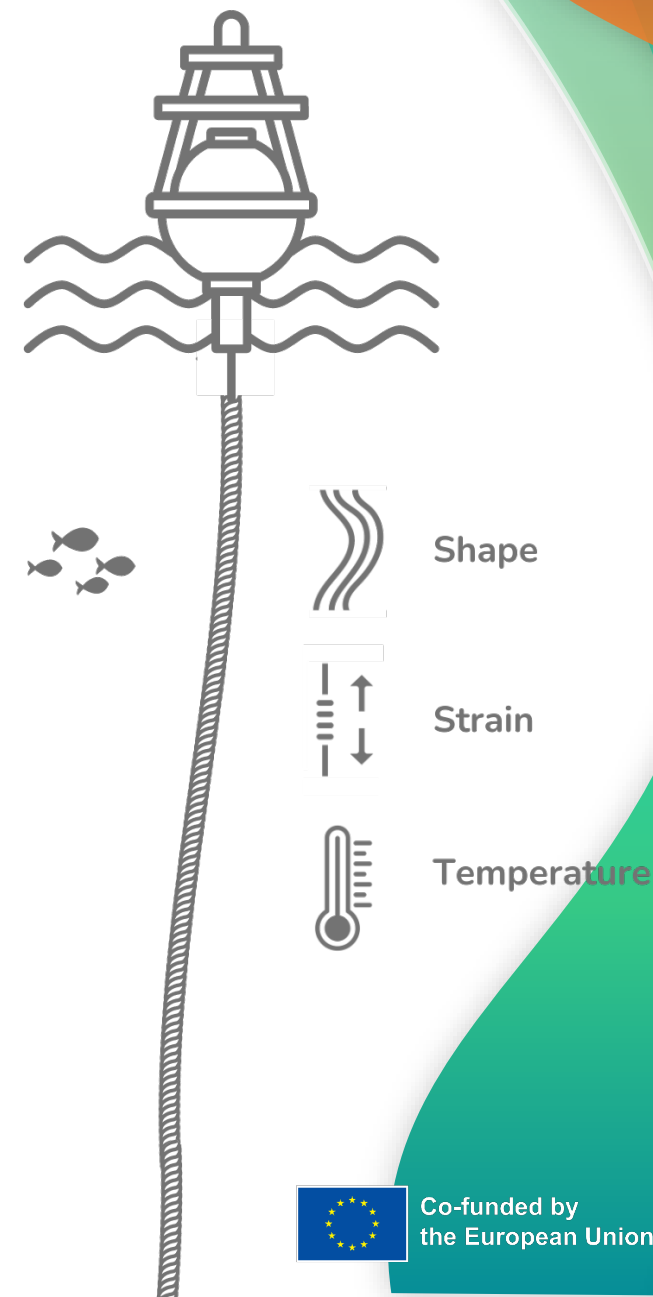
**Embedded monitoring of strain, shape and temperature.**

## Enabling

- Data driven design of mooring components
- In-operation health monitoring
- Real time operation optimizations

## Contributing to

- Higher energy yield of OE converters
- Safer operations, reduced maintenance costs, and potential for predictive maintenance procedures



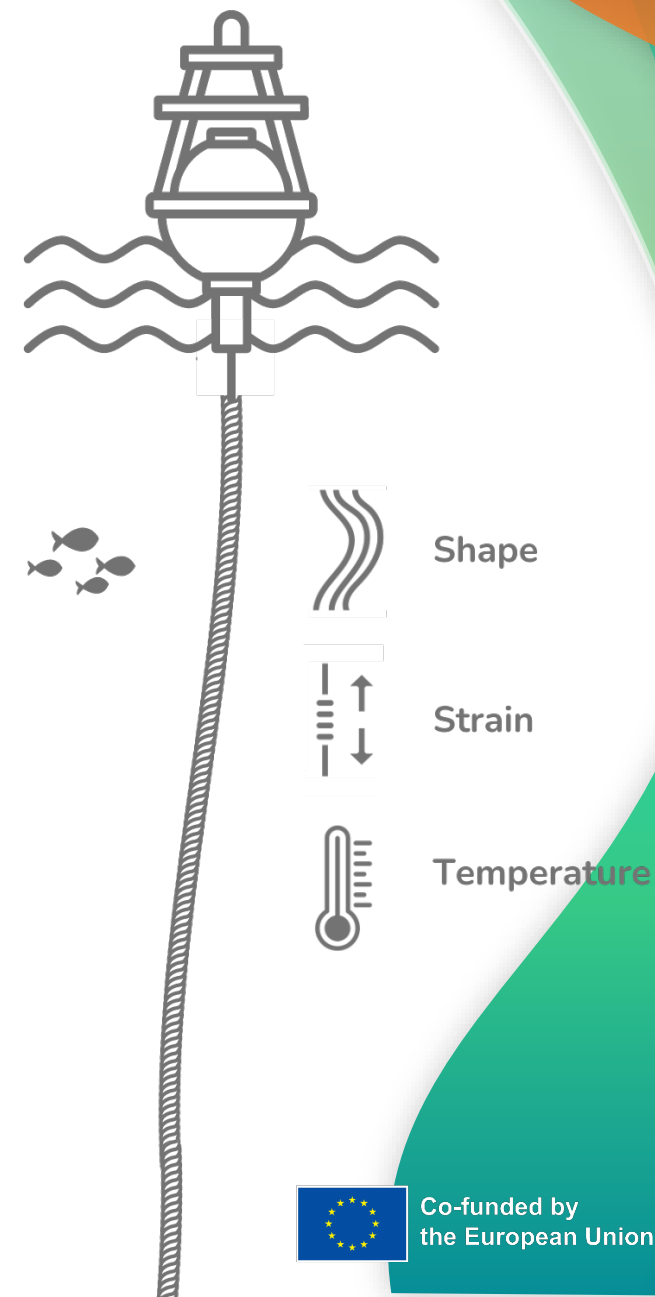
# Our main challenges

**Sensor design and positioning of sensors at the most relevant points in the mooring components**

**Minimally intrusive integration of sensors**

**Component design strategies to maximize the benefits from sensorization**

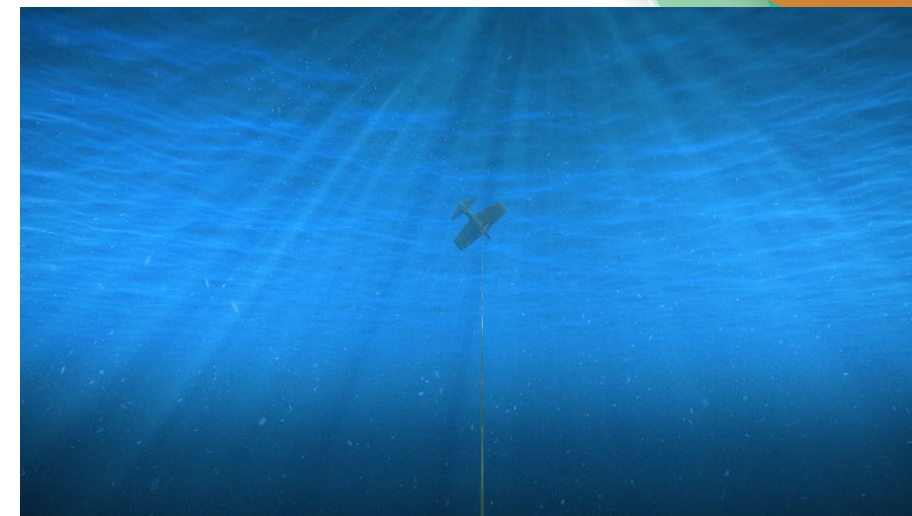
**Strategies for use of data for online health monitoring**



# Contact Details

- [www.smartmooring.eu](http://www.smartmooring.eu)
- Linked-In: [@smartmooring](#)

Åsa Claesson	RISE	<a href="mailto:asa.claesson@ri.se">asa.claesson@ri.se</a>
Johannes Hüffmeier	Minesto	<a href="mailto:johannes.huffmeier@minesto.com">johannes.huffmeier@minesto.com</a>
Juan José Martinez	Calsens	<a href="mailto:jjmarmu@cal-sens.com">jjmarmu@cal-sens.com</a>
Lamine Dieng	Univ Gustave Eiffel	<a href="mailto:lamine.dieng@univ-eiffel.fr">lamine.dieng@univ-eiffel.fr</a>
Ross Harnden	CorPower Ocean	<a href="mailto:ross.harnden@corpowersocean.com">ross.harnden@corpowersocean.com</a>
Salvador Sales	Univ Valencia	<a href="mailto:ssales@dcom.upv.es">ssales@dcom.upv.es</a>



[www.minesto.com](http://www.minesto.com)



[www.corpowersocean.com](http://www.corpowersocean.com)