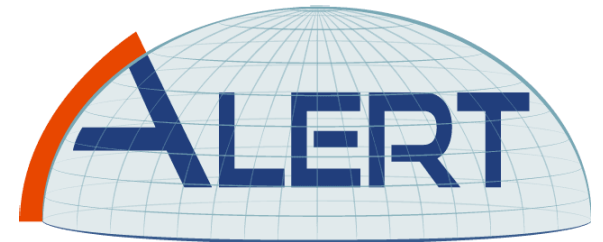


# ALERT JIP

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Captain Martijn Schipper  
Welmoed van der Velde PhD LLM

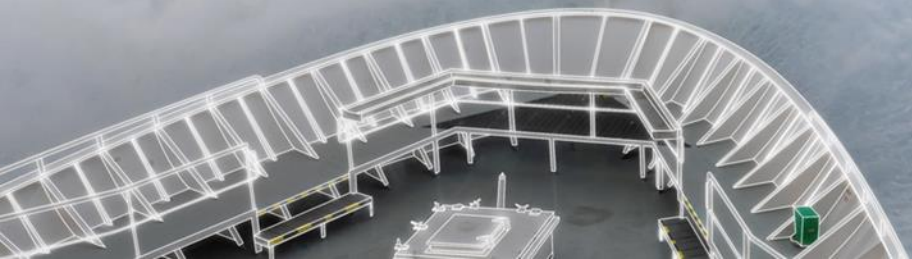
Safely leaving the navigation bridge  
unattended for periods of time.

- Introduction
- ALERT: the idea and scope
- Q&A



# Better ships, Blue oceans

Clean, smart and safe shipping, sustainable use of the seas



## NSMB

sector initiative

## 1932

> 90 years of experience



active in 39 countries



Wageningen, Ede, Houston,  
Chesapeake



innovative & independent



industry & government



civil & defence



concept to operations



450+ colleagues



€ 60 M turnover



70% commercial, 30%  
funded

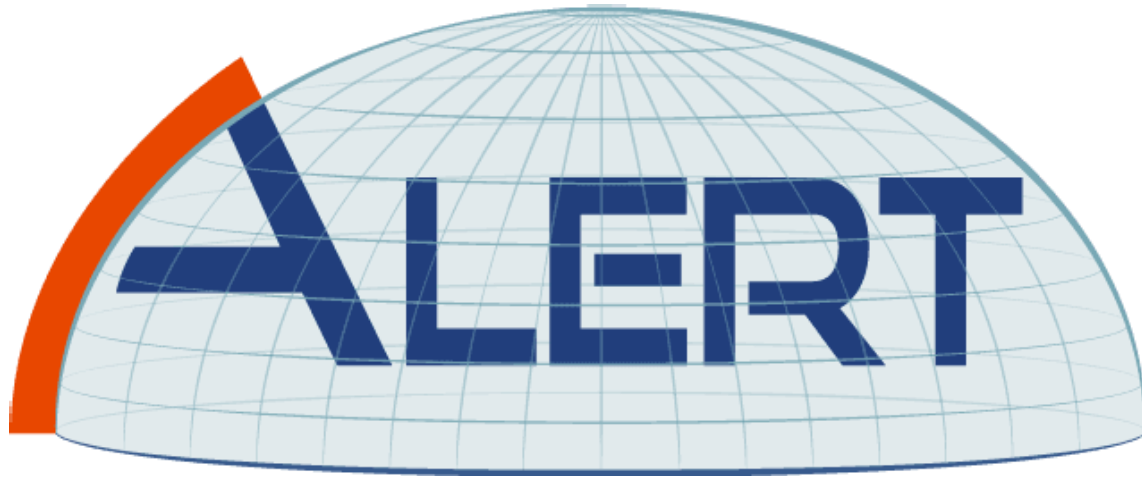


JIPs & networks

- Participate in large R&D
- Leverage on costs
- Specify the scope
- Learn from experience of other participants
- Education & training of staff
- Common understanding/method/tool
- Profiling company / Authorisation to clients
- Part of network (clients, suppliers, authorities, R&D)
- Marketing



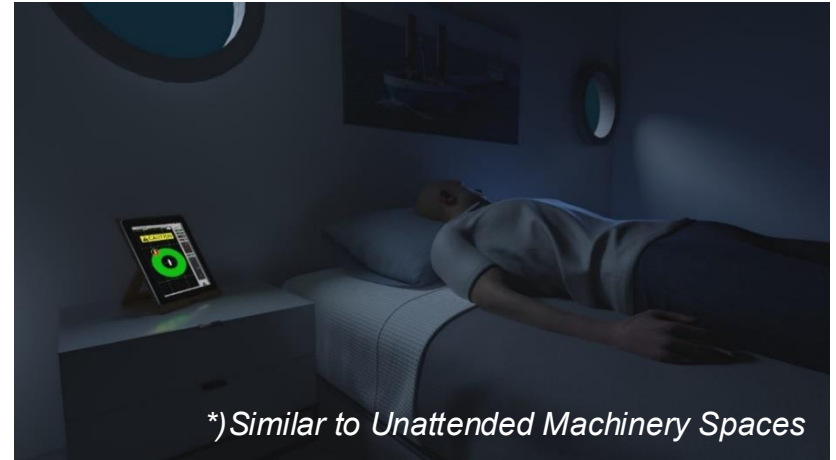
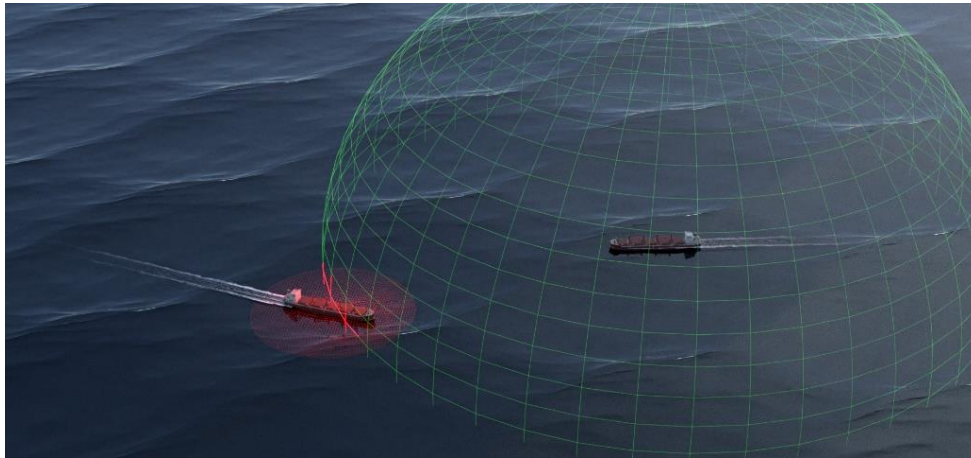
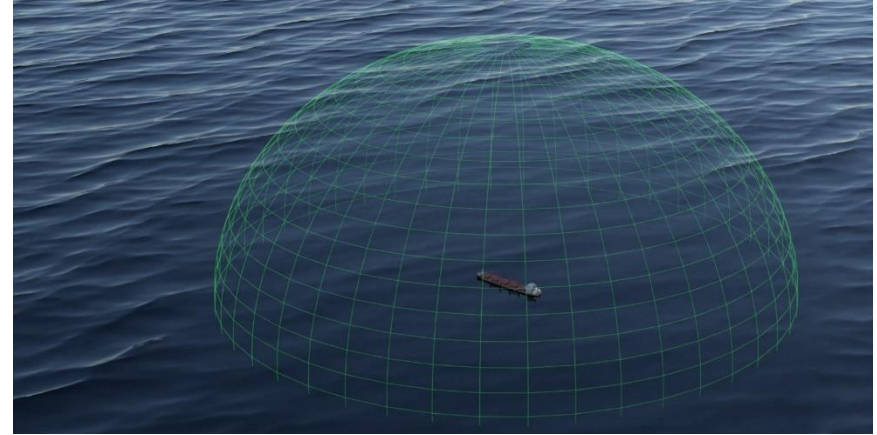




Can we improve overall *safety, efficiency, and the work-life balance* for the bridge watchkeeper by introducing periodically unattended navigation spaces\*?

*\*) Similar to Unattended Machinery Spaces*

# Periodically unattended navigation spaces \*)



*\*) Similar to Unattended Machinery Spaces*

1. Create, demonstrate and evaluate a design of an automated watchkeeping concept and the outline of a human alerting system to address those tasks that require human action. *Including how this improves overall safety, efficiency, and the work-life balance for the bridge watchkeeper.*
2. Establish approval for trial under MASS regulation (MSC.1-Circ.1604 item 1.2.2) in such a way that participants can subsequently successfully apply for trial under the current legal framework.
3. Set up a draft-amendment to IMO regulations, specifically to STCW Regulation VIII/2, in order to extend the trial period to a permanent option, and to establish the conditions for safe unattended navigation spaces.

The prototype is a description including:

- Flow chart/checklist
- Overview of required data/information such as equipment status, environmental conditions, navigational challenges
- Overview of thresholds to define status
- Classification of follow-up action (is automated or human interaction required?)
- Guidelines for the HMI
- Recommendations for (adaptation of) system settings such as thresholds

This prototype will contain:

- Specifications for deployment of the ALERT operational concept (*ship owners/operators*)
- Requirements for development of the ALERT system including variables and thresholds (*system developers*)



*The level of detail of the prototype will be such that it is sufficient to evaluate the concept.*

# To enable an onboard reality assessment:

Establish trial approval under umbrella of MASS regulation:

- Demonstrate safety improvements - this requires a comparative **risk assessments** (*baseline state vs. with ALERT concept*)

Assess *baseline* and *ALERT* operations:

- Document low-workload period routines via onboard observations and questionnaires
- Integrate simulator evaluation findings

*This provides a template (and precedent) for JIP participants to apply for trials under current legal frameworks & definition of draft amendments to IMO*

The present IMO regulations give a guideline for alternative methods (Msc.1-Circ.1604 item 1.2.2):

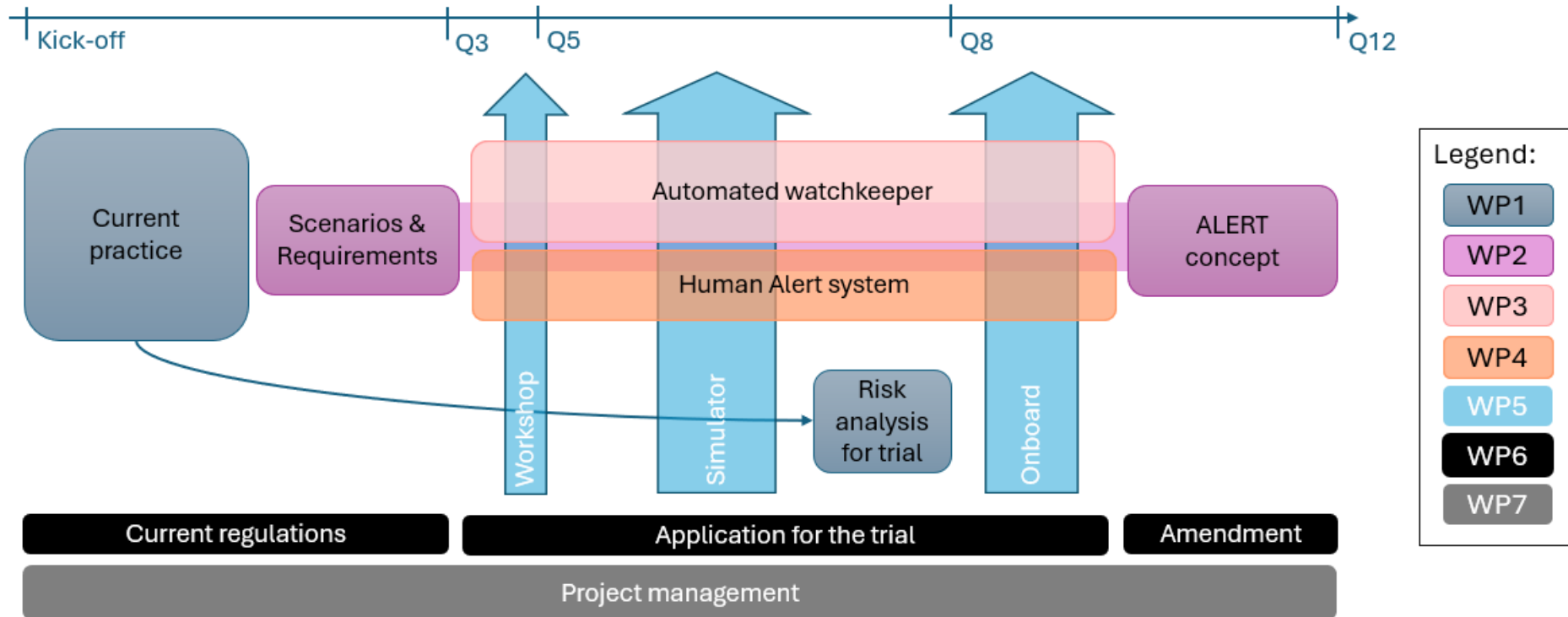
*“trials to evaluate alternative methods of performing specific functions or satisfying regulatory requirements prescribed by various IMO instruments should be conducted in such a manner that they provide at least the same degree of safety, security and protection of the environment as provided by those IMO instruments”.*



# Timeline

Start Q1 2026

... 2028



Evaluate the operating concept, including how this improves overall safety, efficiency, and the work-life balance for the bridge watchkeeper.



- I. Workshop – a first evaluation with end-users
- II. Simulator – a structured evaluation with end-users in a controlled environment
- III. Onboard – a reality assessment with ‘Wizard of Oz’ watchkeeper

- Participate in the project steering group (Live meeting every 6 months)
- Facilitate onboard observations (WP1) to establish baseline
- Participate in evaluation workshop and simulator (WP5)
- Facilitate onboard reality assessment (WP5)
- Provide a financial contribution



	#	Annual contribution:	Total in EUR	Total (EUR)
Ship owners/operators, class societies, equipment manufacturers	8	25k	75k	540k
Small Medium Enterprise*	7	15k	45 k	360k
MARIN	1	25k	75 k	75k
				<b>990k</b>

\*: Staff <50, turnover or balancesheet ≤ €10 million

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Confirmed

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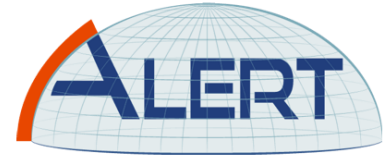
- Lloyds, Seaspan

*The project will commence once we have secured sufficient interest and commitment from participants. We anticipate the following process moving forward:*

- 1. Letter of Intent (LoI)** - Please sign the Letter of Intent if you intend to join the ALERT JIP (2025)
- 2. Participation Agreement** - Once we have received sufficient signed Lols, we will request all participants to sign a formal participation agreement to officially start the project (Q1 2026)
- 3. Kick-off Meeting** - We are planning a meeting for March 2026

## ALERT Joint Industry Project

Safely leaving the navigation bridge unattended for periods of time.



### ALERT JIP response form / letter of intent

Please e-mail to : MARIN, Arjen van Loo  
a.v.d.loo@marin.nl  
Tel: + 31 6 41 04 24 26

Project reference: more information and the project proposal can be found on the  
ALERT JIP page - <https://www.marin.nl/en/jips/alert>

Please select:

- ☐ We intend to become a ALERT-JIP participant.
- ☐ We would like more information to make a decision on participating the ALERT-JIP.
- ☐ We do not have interest in this JIP, please remove us from the contact list.

Company/organization: .....

Contact person : .....

E-mail address : .....

Signature : .....

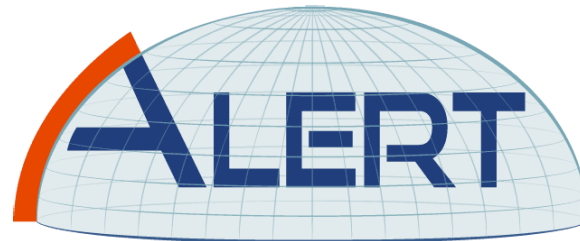
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E [info@marin.nl](mailto:info@marin.nl)

1 [www.marin.nl](http://www.marin.nl)  
   

- Questions?
- Recommendations?



- QR code links to [JIP website](#) with leaflet and proposal
- For more information contact:
  - [a.v.d.loo@marin.nl](mailto:a.v.d.loo@marin.nl)
  - [f.sterlini@marin.nl](mailto:f.sterlini@marin.nl)
  - [w.pauw@marin.nl](mailto:w.pauw@marin.nl)

