

- **EI membership for employees**

- Unlock your Associate Member benefits
 - Use of AMEI post nominals
 - Access to *EI Connect* mentoring platform
 - Free and discounted training via *EI Academy*
 - *Energy Futures* newsletter and other member updates
 - Weekly digital magazine, *New Energy World*
 - Free, confidential advice via *EI Assist*
 - Support to help you progress to professional membership and chartered status

If you work for a company which holds **corporate membership with the EI**, you will be eligible for **complimentary individual membership** as an Associate Member (AMEI)

[FIND OUT MORE & APPLY HERE](https://www.energyinst.org/membership-and-careers/membership)

<https://www.energyinst.org/membership-and-careers/membership>



Stakeholder Forum 2025

Europe Webinar

*Vessel operations in an expanding offshore
wind industry*
Co-hosted with IMCA



HOSTS

Lisbeth Frømling
G+ Chair, Ørsted

Iain Grainger
CEO, IMCA



Welcome from hosts

Why a webinar on vessel operations
Mariana Carvalho, G+

Thinking differently about incidents in offshore
marine construction industry
Myriam Boufersen, Seaway7

Walk-to-Work and personnel transfer
Rhys Jones, IMCA

Vessel requirements & assurance in an
expanding industry
Hendrik Drossmann, RWE

Panel discussion and audience Q&A

Closing reflections



The G+ at a glance

A clear vision:

Creating a safer and healthier global offshore wind industry.

Harnessing the power of data across 4 areas:

Incident data reporting, Good practice guidance, Safe by Design workshops, Learning from incidents.

Over a decade of proven contributions to OSW safety.

25+ members and associates

The only global OSW member organisation.

Independent and not for profit.

No agenda other than driving a safer offshore wind energy industry.

G+ is setup in partnership with the Energy Institute



Who are the members of G+?

Our member relationships are central to what we do. Collaboration within our community and shared data contributes to more frontline offshore wind workers getting home safely.

Members



Associate Members



Unlocking the power of data

G+ member data is analysed and shared through six main programmes to give a holistic view of health and safety performance and measurable proof of improvements and performance.



Incident data reports

- Understanding of offshore wind industry risk profile
- Evidence base to inform interventions
- Accurate assessment of industry H&S performance
- Tool for comparison of H&S performance against other comparable industries



Good practice guidelines

- Recommendations for procedures, controls, ways of working at offshore wind farms
- Minimum standard expected for meeting industry H&S expectations
- G+ members self check compliance against GPG content
- Referenced in site and company corporate documents



Safe by Design programme

- Examine the current design controls relating to the topic, discuss where current design has potentially failed, and identify potential opportunities for improvement
- Outputs published and used as a reference by the industry
- Act as a catalyst for further discussion and research within the industry

Unlocking the power of data



Sharing incident learnings

- Incident learnings to be shared through Toolbox
- Toolbox is an EI web-based app
- Is accessible to all, anywhere, any place, any time

<https://toolbox.energyinst.org/>



Wind Turbine Safety Rules (WTSR)

- Help formalise a Safe System of Work (SSoW)
- Onshore and offshore
 - Developed in collaboration with SafetyOn
- Safeguards persons from the mechanical plant and LV apparatus and the associated system derived hazards.



Lifesaving Rules

- Clear and simple statements to follow, most relevant for offshore wind
- Supports those new to the industry.
- Easy to align with contractual requirements, representing a common denominator
- Includes full implementation starter pack – slides, posters guide, question set and translations.



Published since March 2024



Floating Motion Dynamics Scoping Review
April '24



Safe by design GPG
June '24



Arc Flash GPG
July '24



SbD Material Handling Report
August '24



Walk to Work Workshop
September '24



Lifesaving rules
September '24



Transfer GPG - 2nd edition
October '24



UAS GPG
November '24



Steel Fabrication GPG
December '24



Electrical SSoW Workshop Report
February '25



IMCA

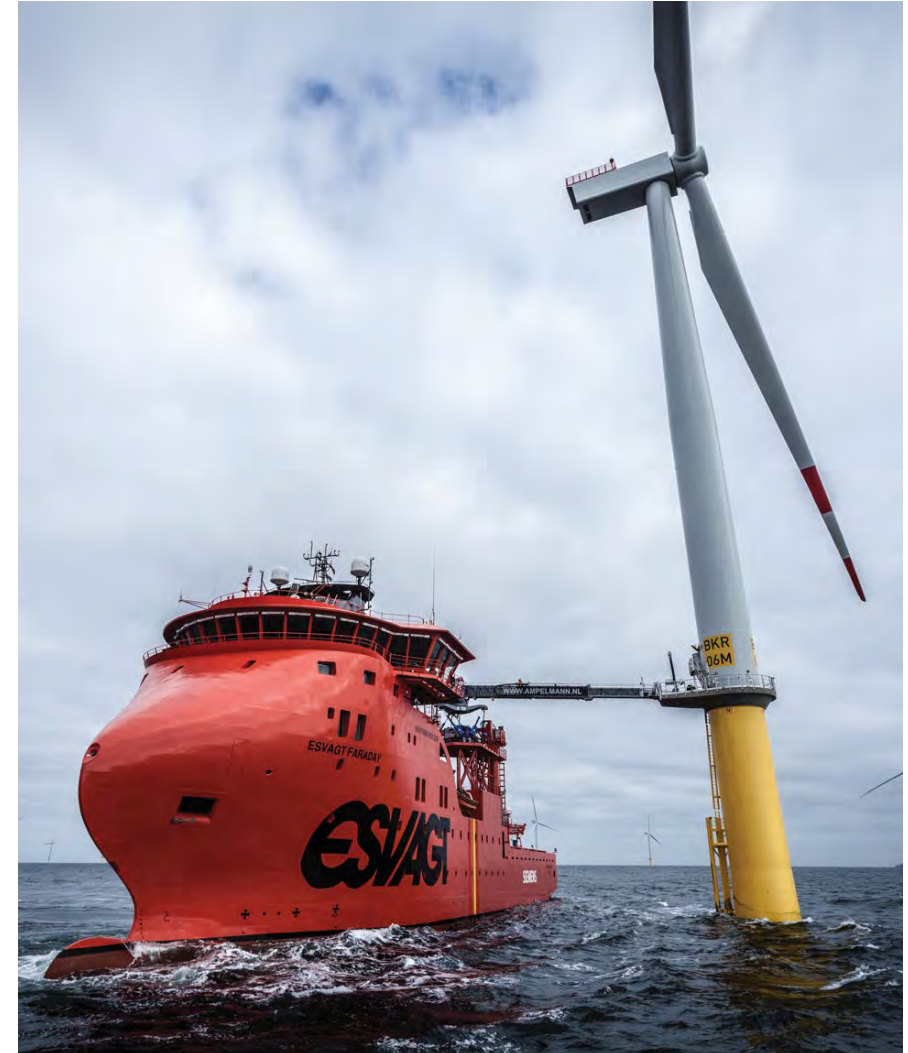
G+ Europe Seminar 2025

Iain Grainger CEO

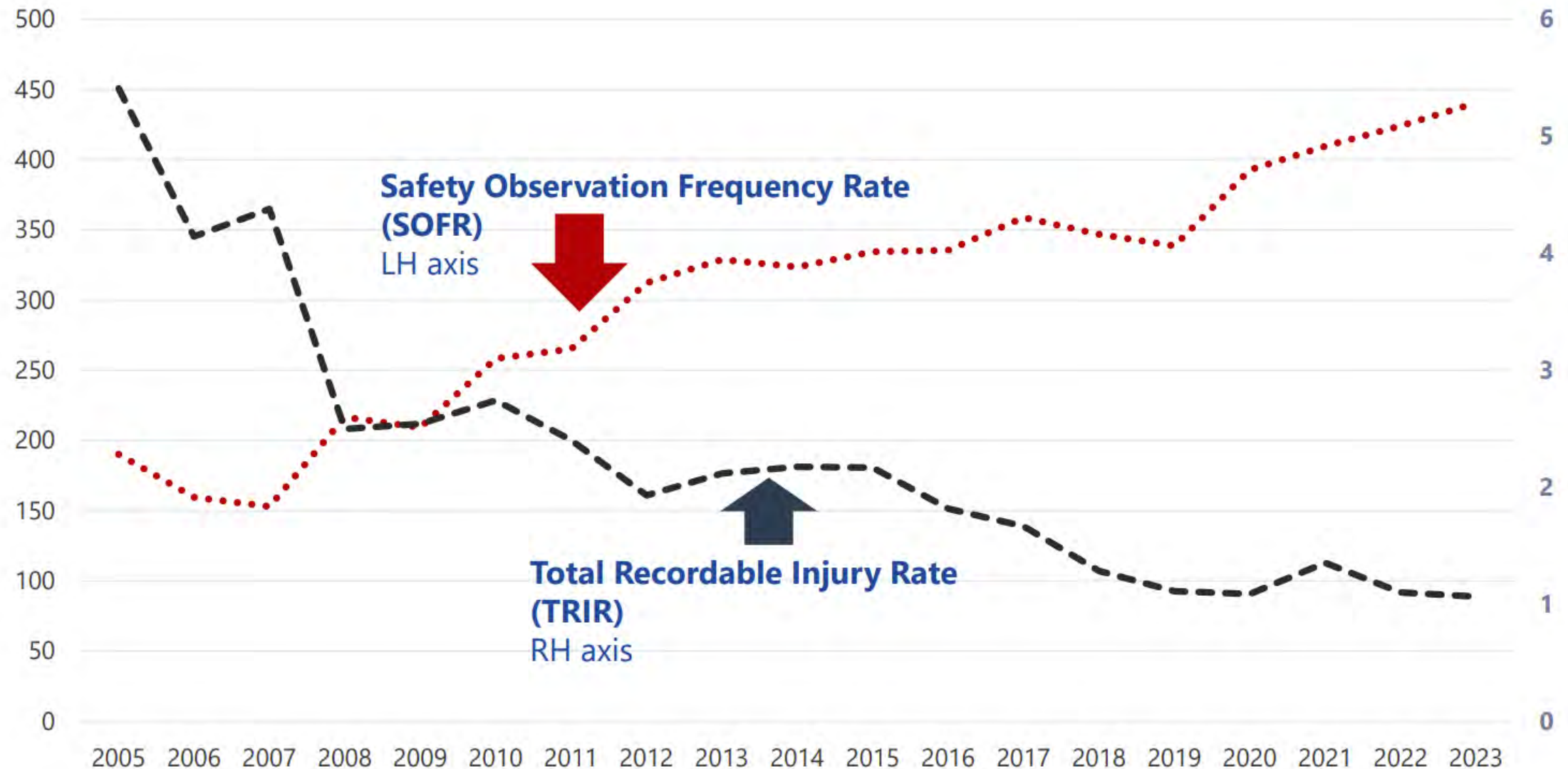
12 March 2025

In numbers...

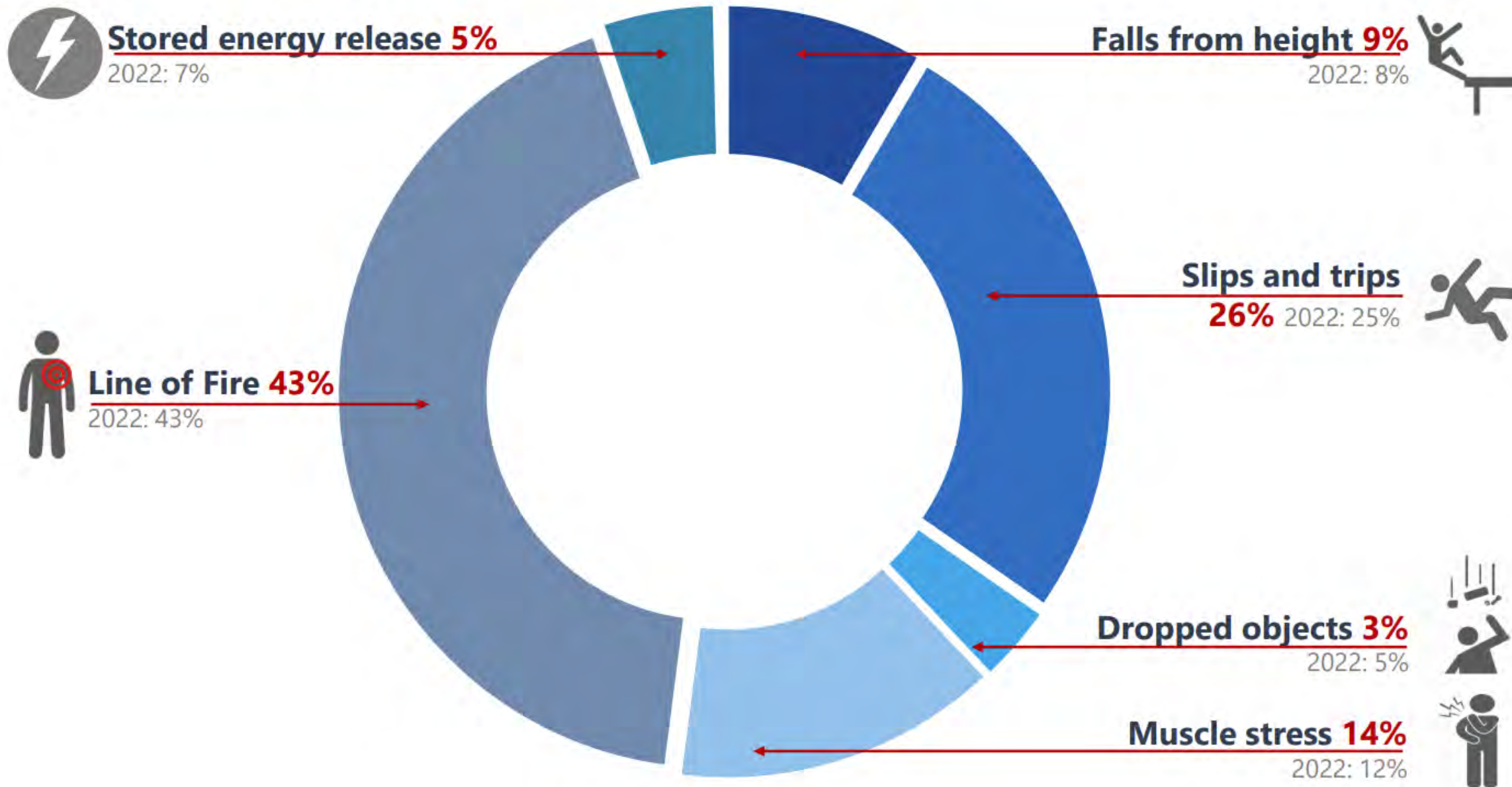
- A proud track record for **52** years.
- **800** members in **65** countries
- More than **700** items in our Technical Library
- **2,500** individual Safety Flashes.
- Around **6,000** IMCA-certified offshore colleagues.
- **1,700** vessels inspected by **500** inspectors.



IMCA Safety Statistics



Main causes of LTIs in 2023



2025 Safety Campaigns

- Human Performance Factors
- Underwater Ship Husbandry
- Confined space entry
- Walk to Work



International Marine Contractors Association

Improving performance in the marine contracting industry

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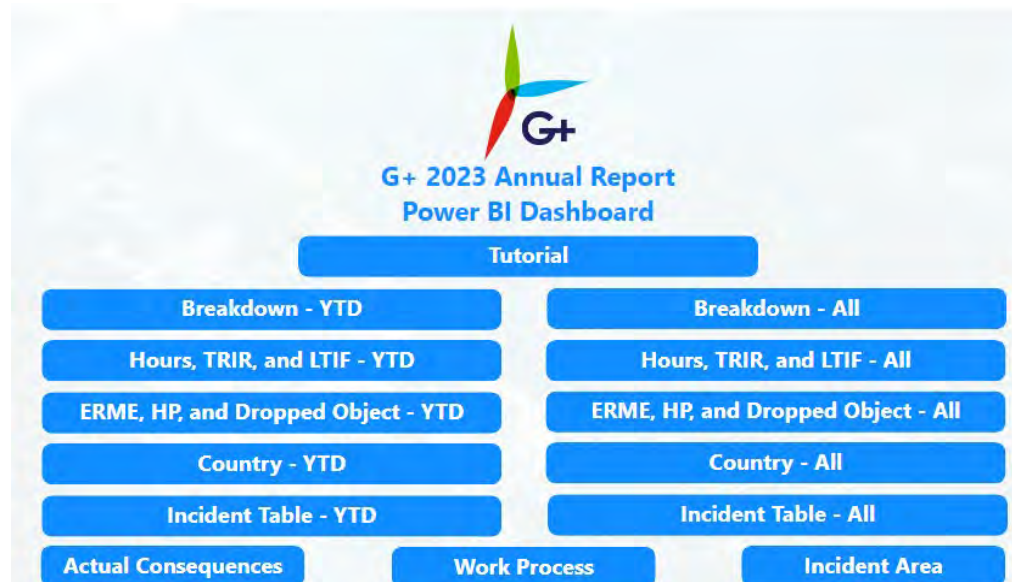
Why a webinar on
vessel operations?

Mariana Carvalho, G+



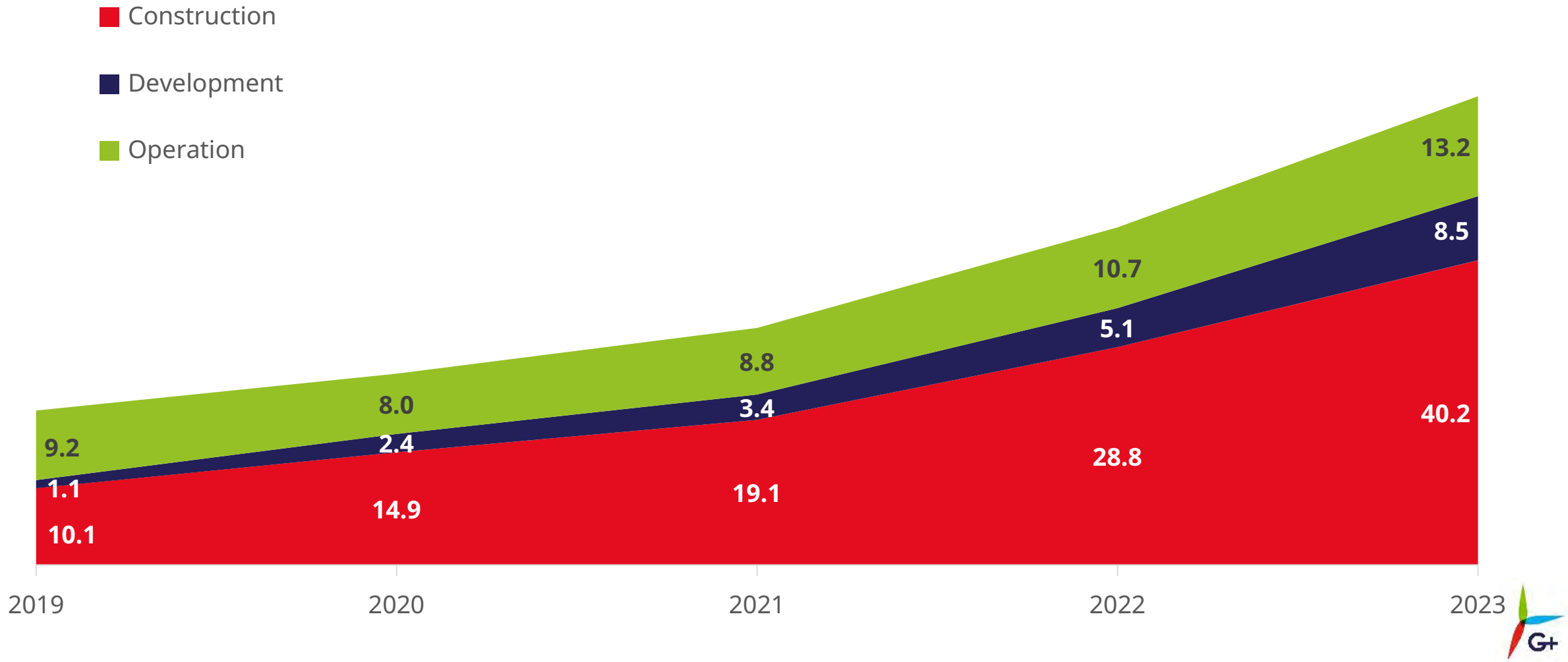
G+ Power BI Dashboard

- Our new and improved Power BI dashboard is live:
<https://www.gplusoffshorewind.com/work-programme/workstreams/statistics>
- Data can be filtered, and graphs show patterns over time
- Presents all our incidents between 2014 to 2023



Reported hours, by site type

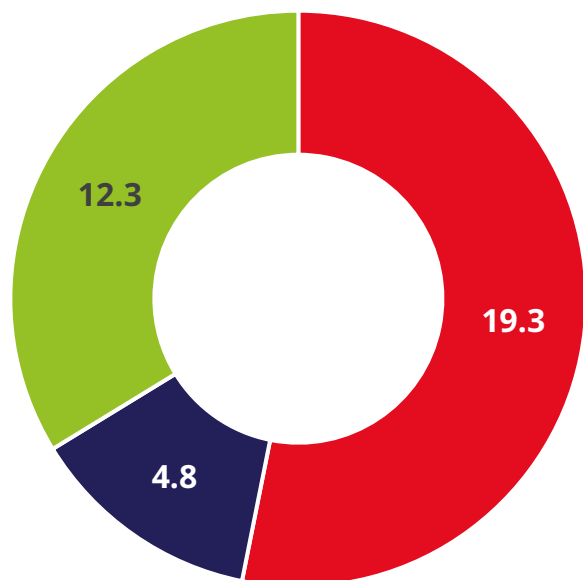
Total hrs for 2023: 61.9M



Reported hours, by Region

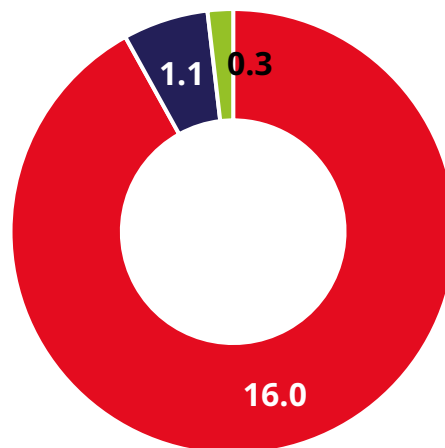
Total hrs for 2023: 61.9M

Europe



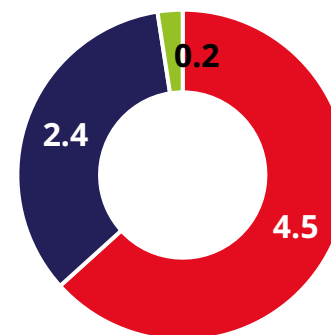
36.4mn Hours

APAC



17.4mn Hours

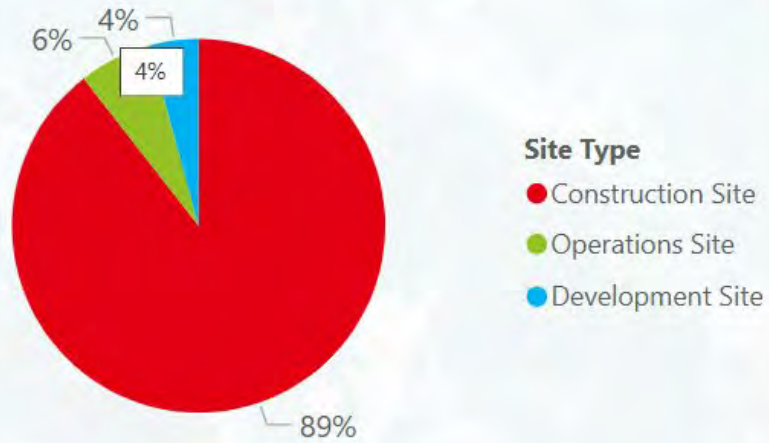
US



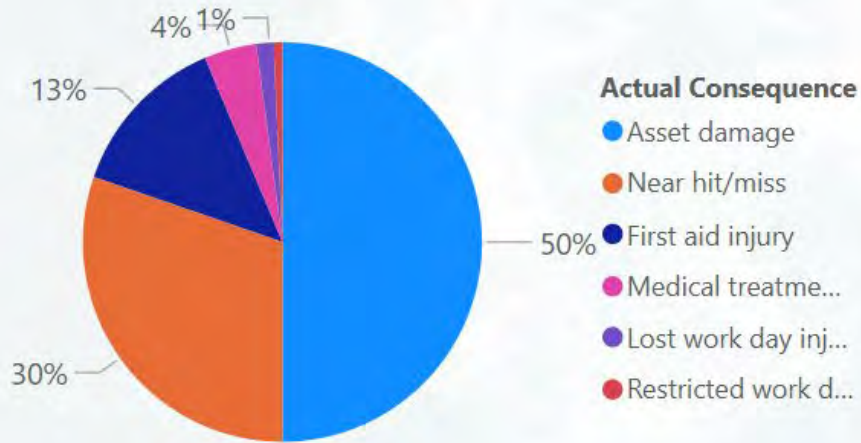
7.1mn Hours



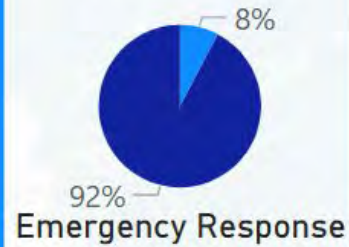
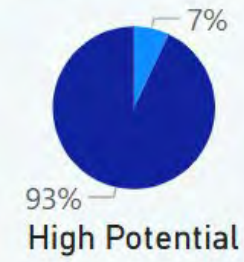
Incidents by Site Type



Incidents by Actual Consequence



Dropped Object



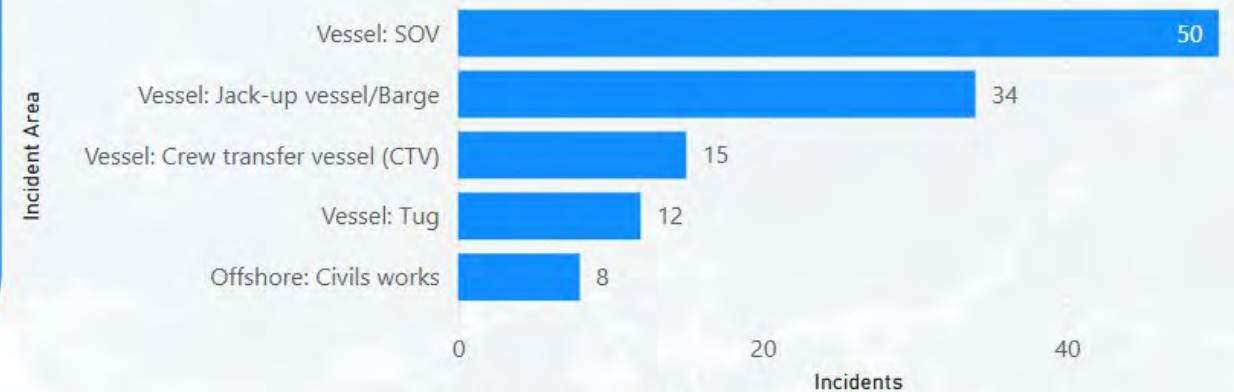
Incidents by Year



Top 5 Most Incident Prone Work Processes



Top 5 Most Incident Prone Areas



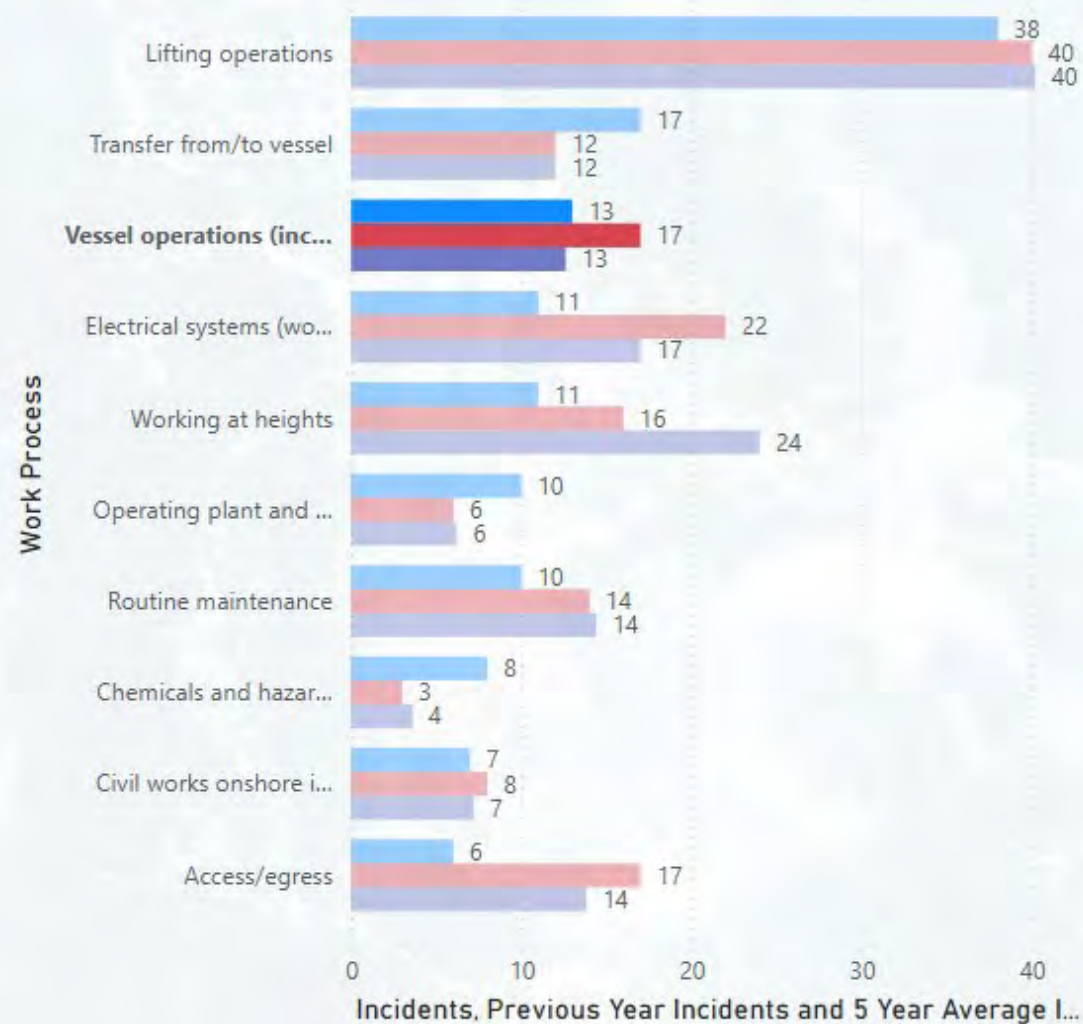
Incidents Per Million Hours by Year





Incidents, Previous Year Incidents and 5 Year Average Incidents by Work Process

● Incidents ● Previous Year Incidents ● 5 Year Average Incidents

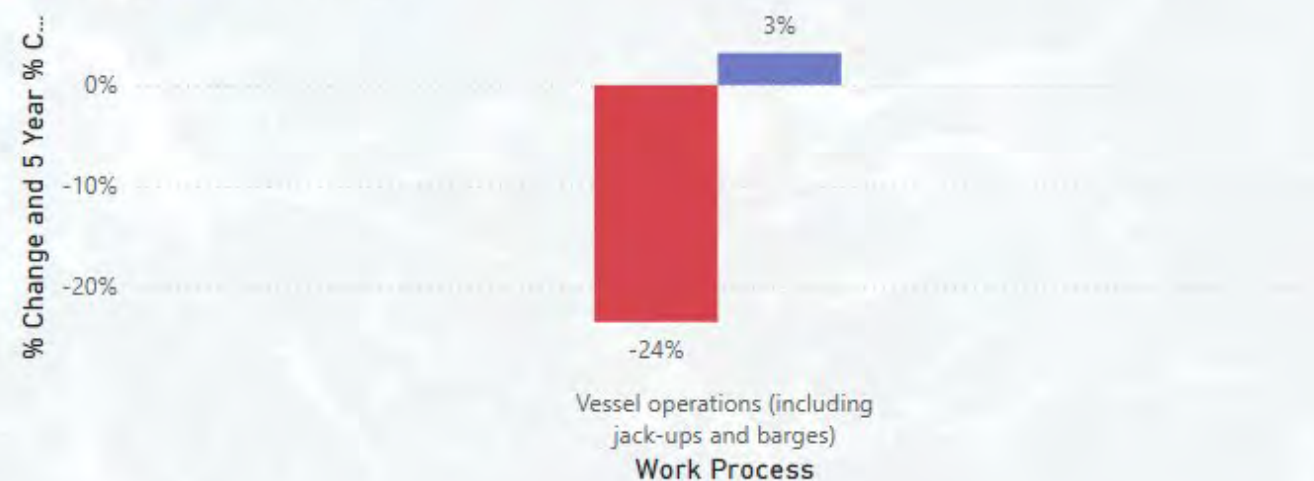


Incidents by Year



% Change and 5 Year % Change by Work Process

● % Change ● 5 Year % Change





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Thinking differently
about incidents in
offshore marine
construction industry

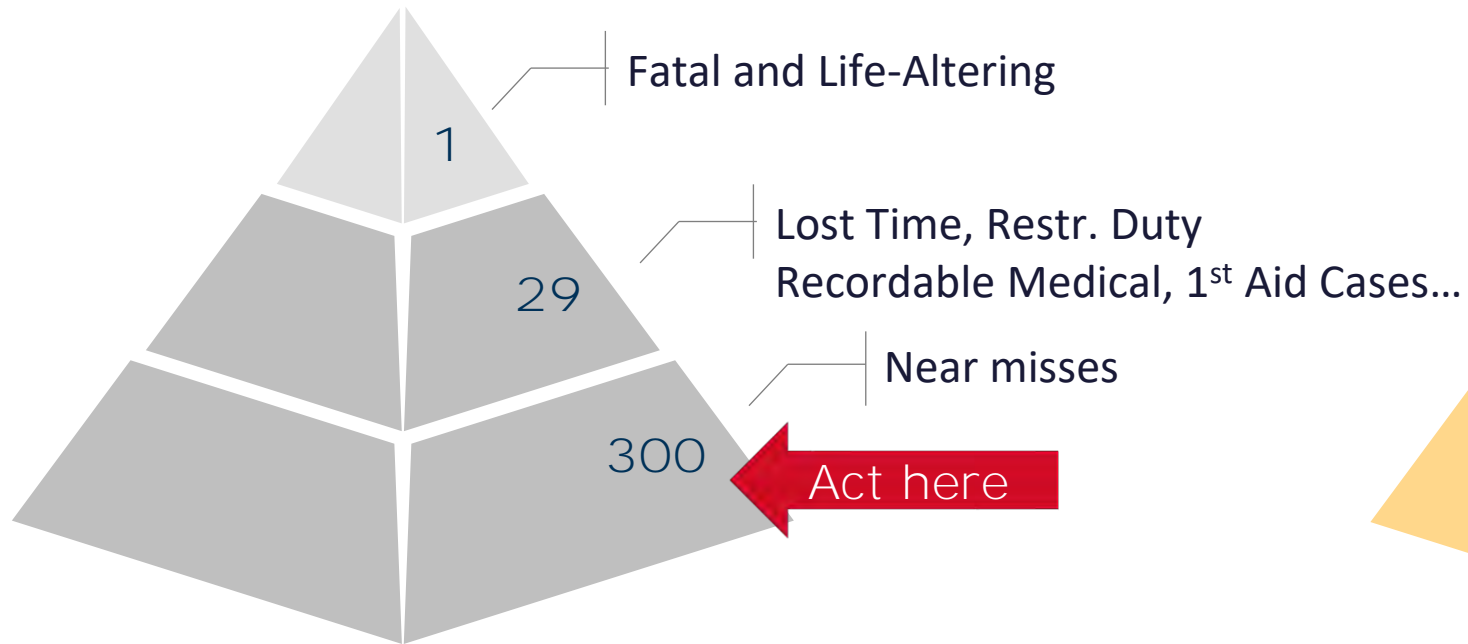
Myriam Boufersen, Seaway7



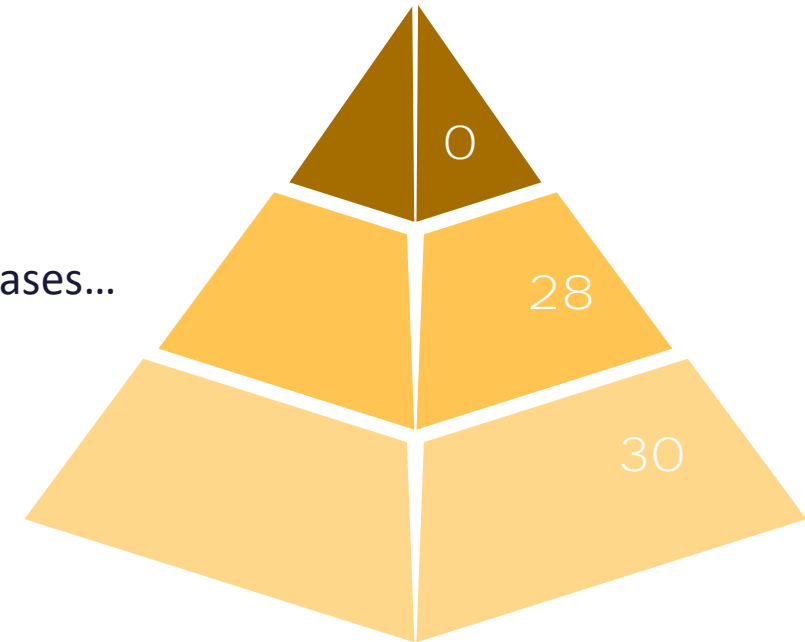


Serious Injury and Fatality (SIF) Challenge

The Heinrich Triangle... & beyond

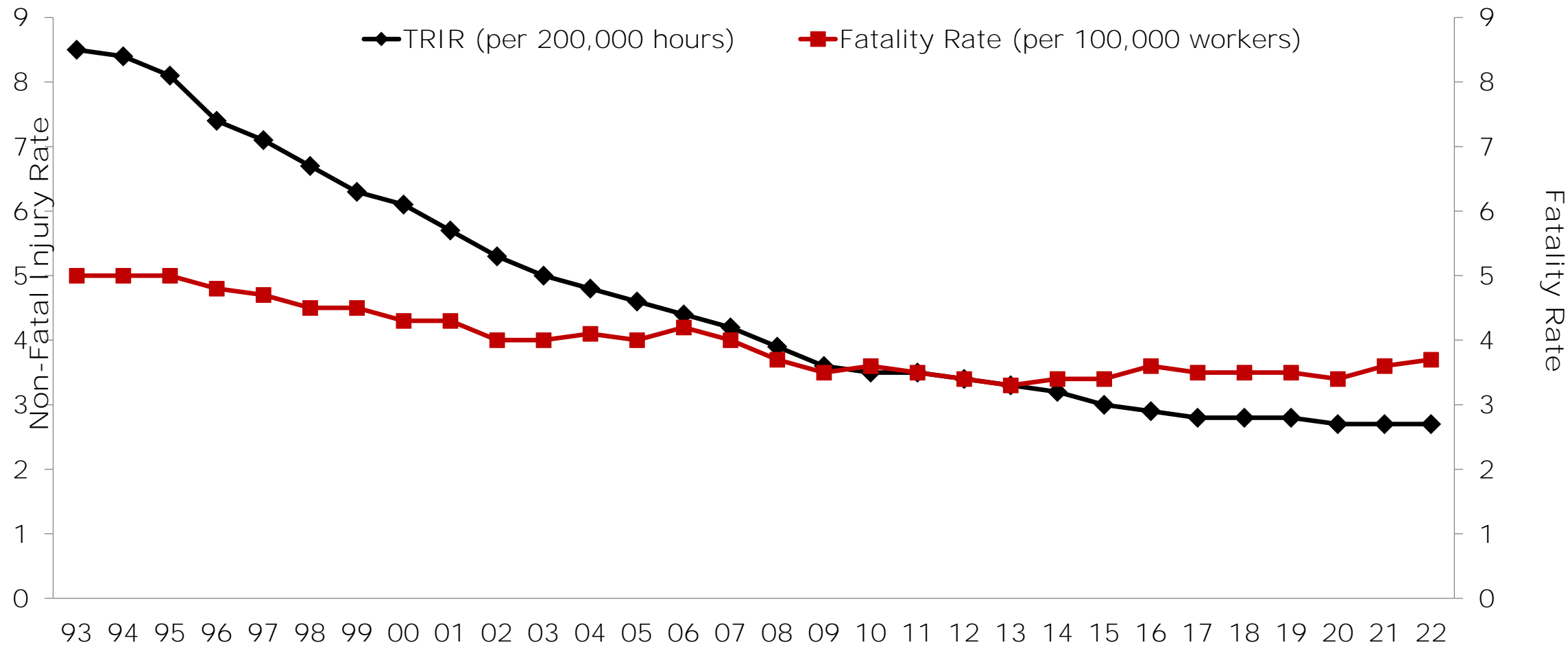


General Industry



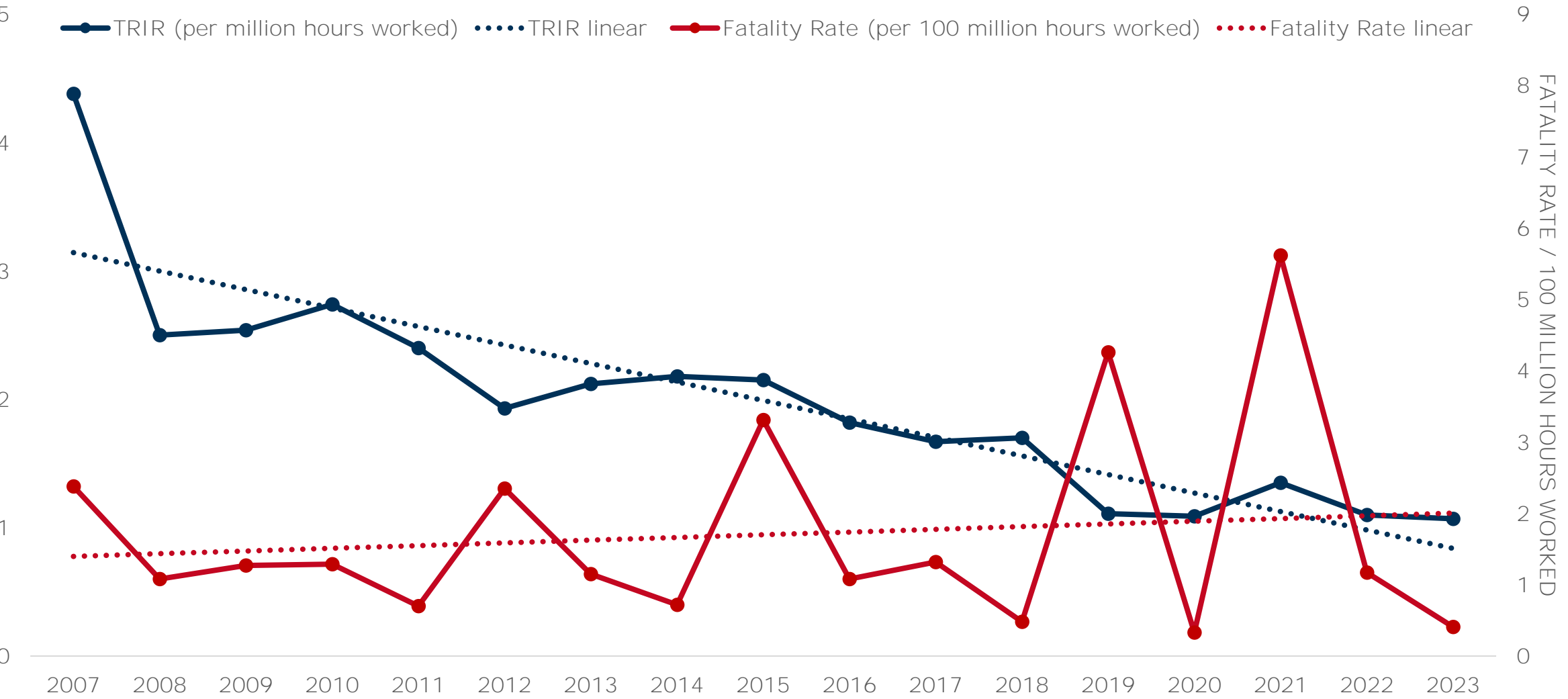
Company X (2024)

The SIF Challenge (General industries*)

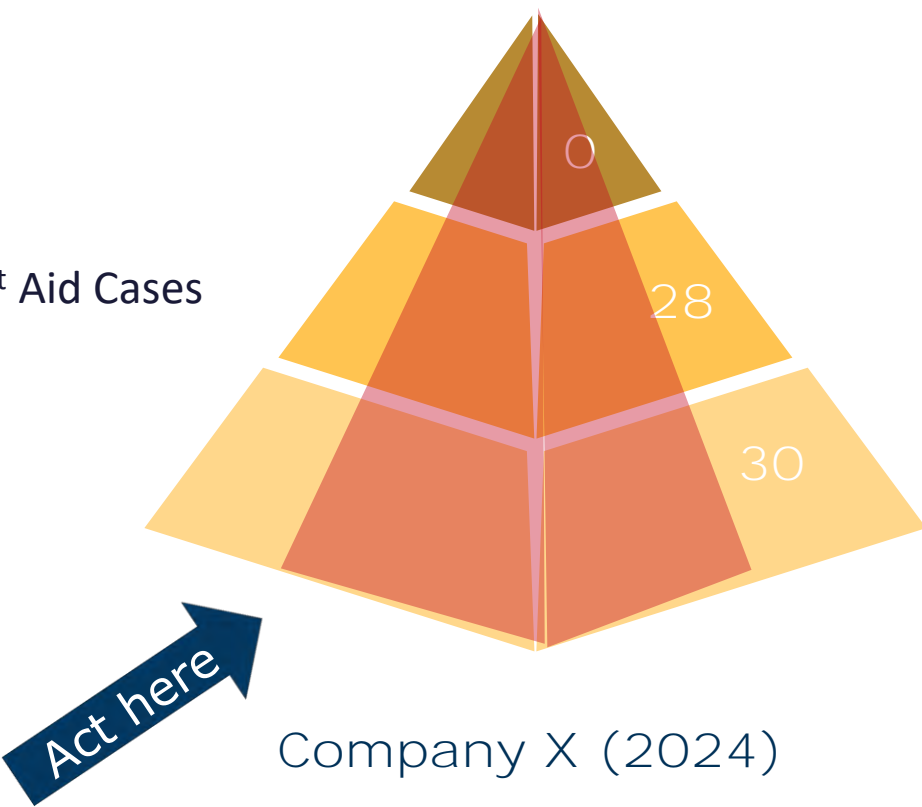
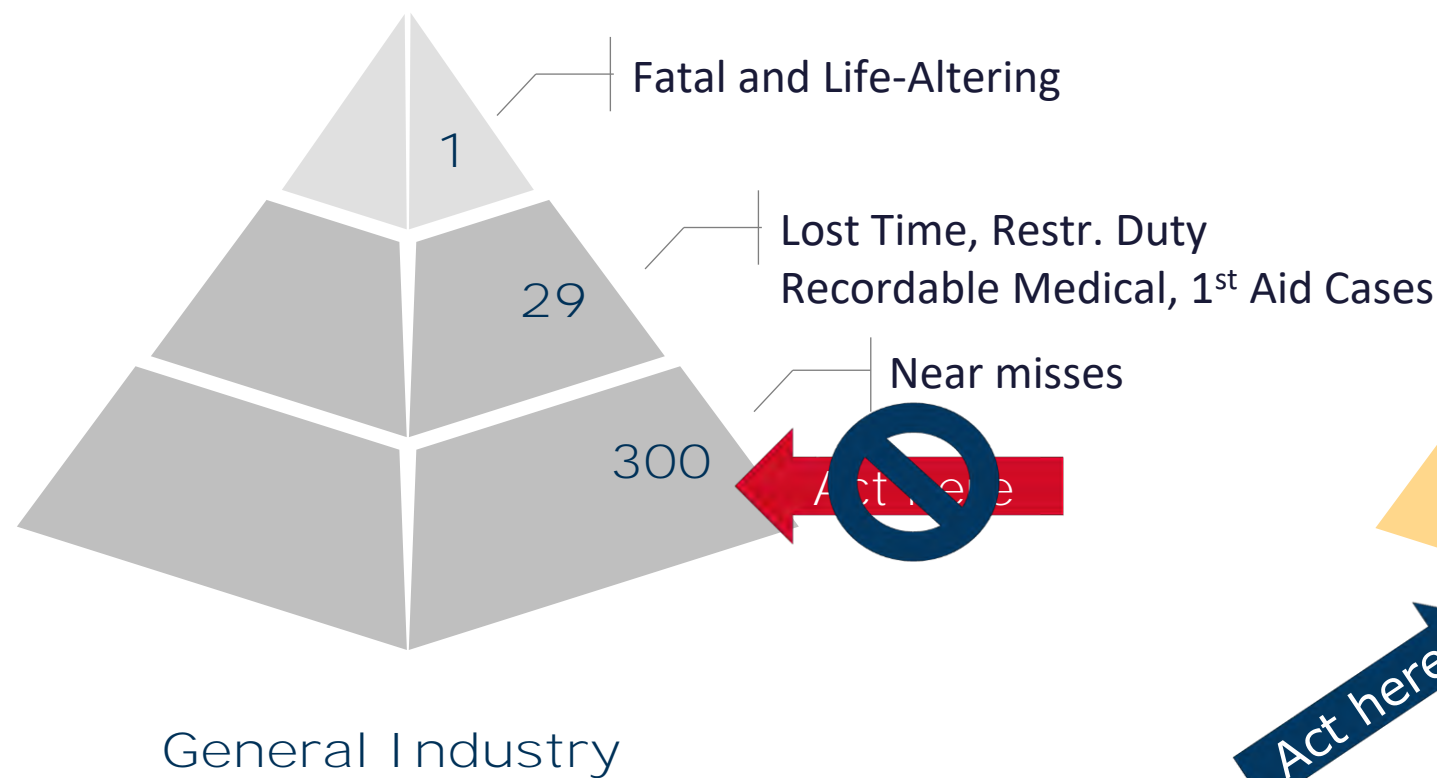


* source: US Bureau labor Statistics

The HI PO Challenge (Offshore Marine Construction Industry*)



The Heinrich Triangle... & beyond



SI F Approach



103

3 Big Questions

1. Can we quantify the potential risk?
2. What specific risk do we face each day?
3. What will we do to ensure that our people are safe?



Quantifying the potential risk

"If you can't measure it,
you can't improve it"

Peter Drucker







SI F research
- Some
interesting
questions...

What does research tell us?

81% of serious injuries and fatalities occur during routine work

42% of serious injuries and fatalities are linked to **life saving rules...**

29% of serious injuries and fatalities may have been prevented with an adequate Tool-Box Talk

How many of our Corrective Actions rely on humans to control the risk?

Are life saving rules addressing our SIF risk profile as an industry?

Are we sure that we are addressing the right topics during our Toolbox talks?



Next
steps



As a leader what can you
do differently?



Leaders' sponsorship is crucial to SIF prevention

How you react matters...

How you behave matters

What you say matters...

Show curiosity... Dare to
challenge your beliefs...

Ask questions... Refrain from
making assumptions...





Thank
you



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Walk-to-Work and personnel transfer

Rhys Jones, IMCA

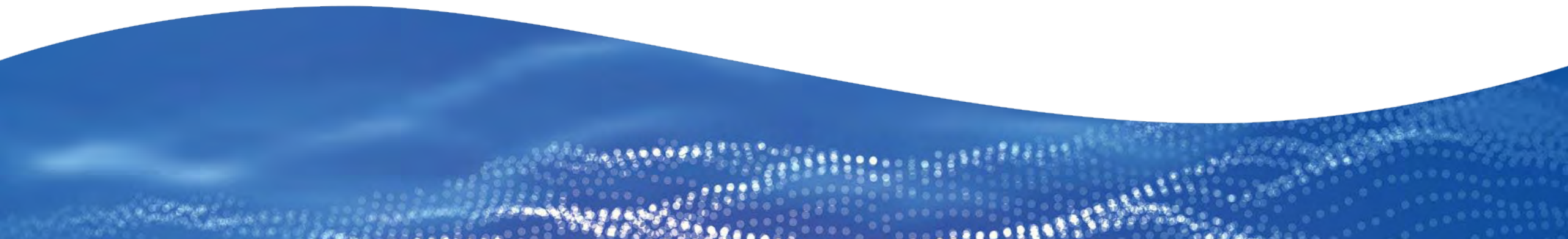


IMCA: Walk to Work Safety Improvement Programme

G+ STAKEHOLDER FORUM WEBINAR – EUROPE

Rhys Jones

March 2025



Context

Concerns



Examples



Actions



Walk to Work Workshop

9th April 2024 – London
Introduction and Agenda



Recommendations



Multi Sector



Engagement



Working Group

seaway⁷

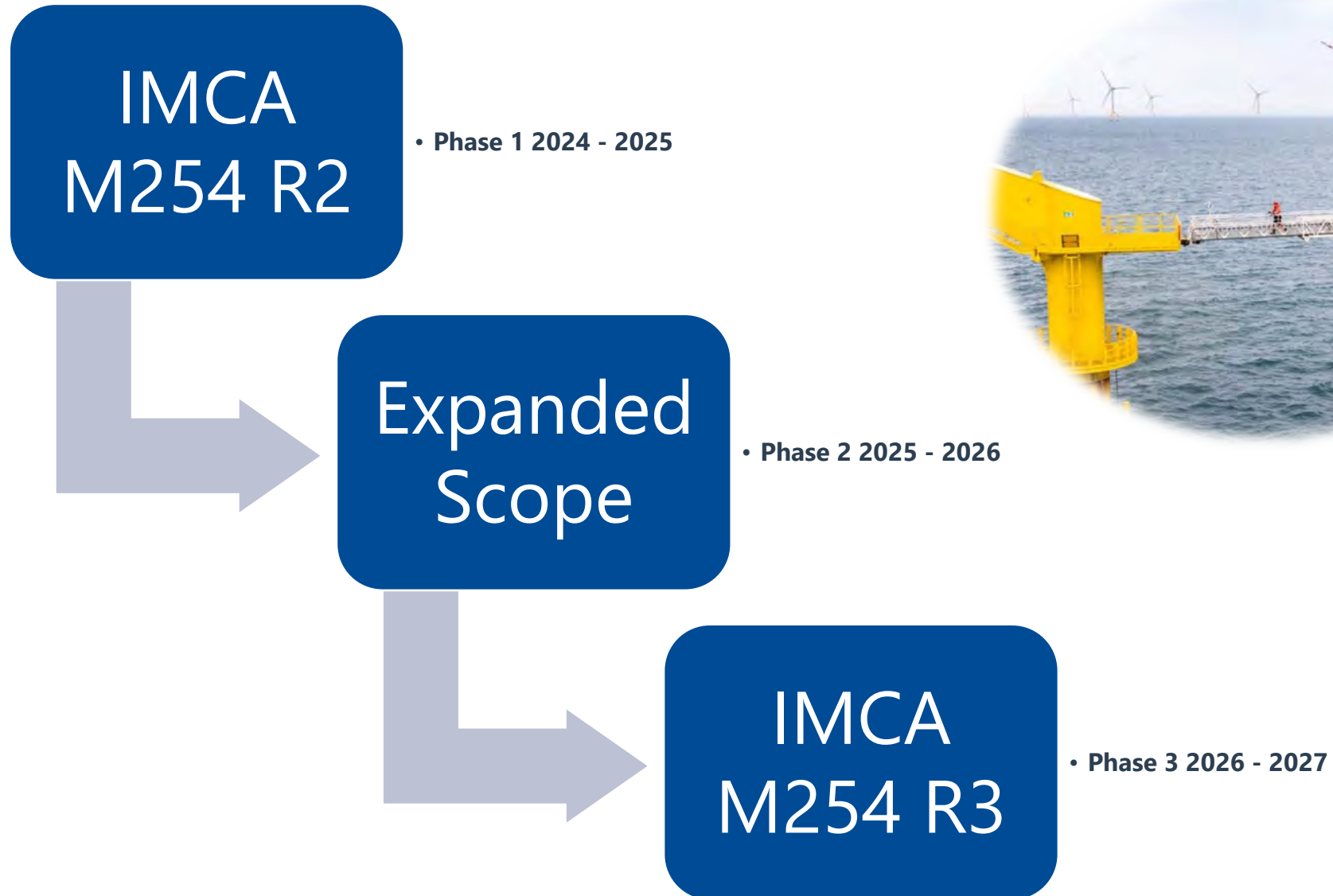


RWE

SMST



Phased Approach



Phase 1



IMCA
M254



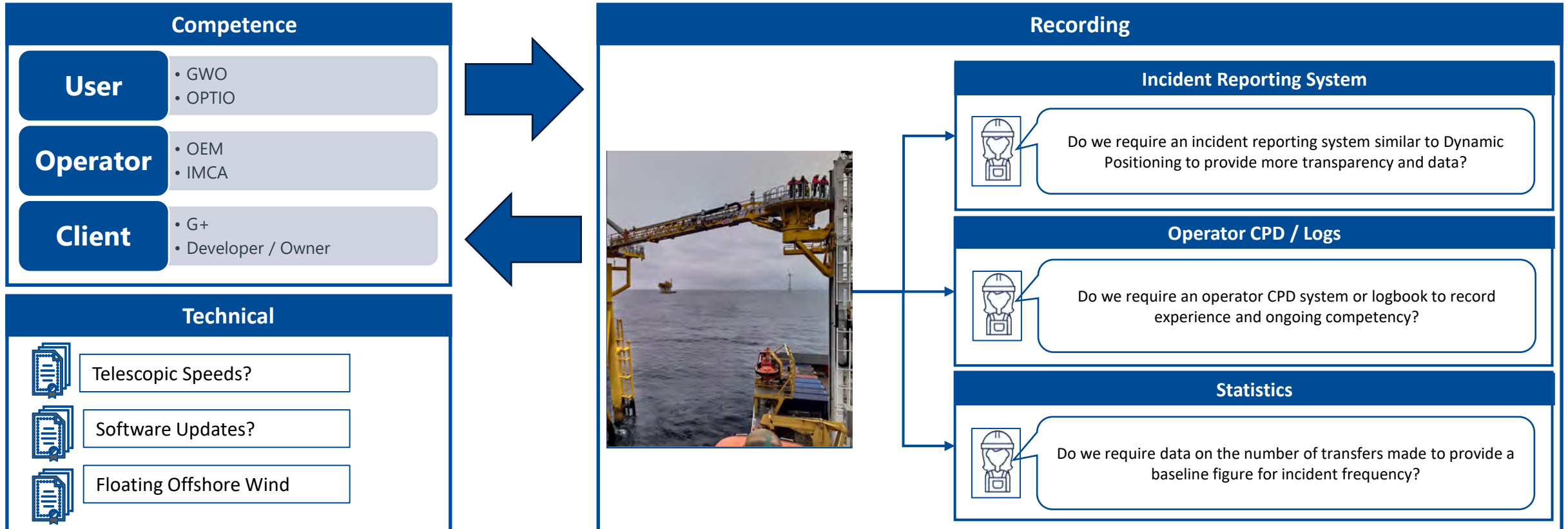
Identify
Opportunities



Identify
Stakeholders



Phase 2



Phase 3



Questions ?

Please use the Q&A function and we'll pick them up during the panel session



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Vessel requirements & assurance in an expanding industry

Hendrik Drossmann, RWE





Vessel requirements & assurance

G+ Stakeholder Forum Webinar - Europe

Agenda

Vessel requirements

Assurance

Vessel inspection

Uncrewed Surface Vessel

Vessel requirements

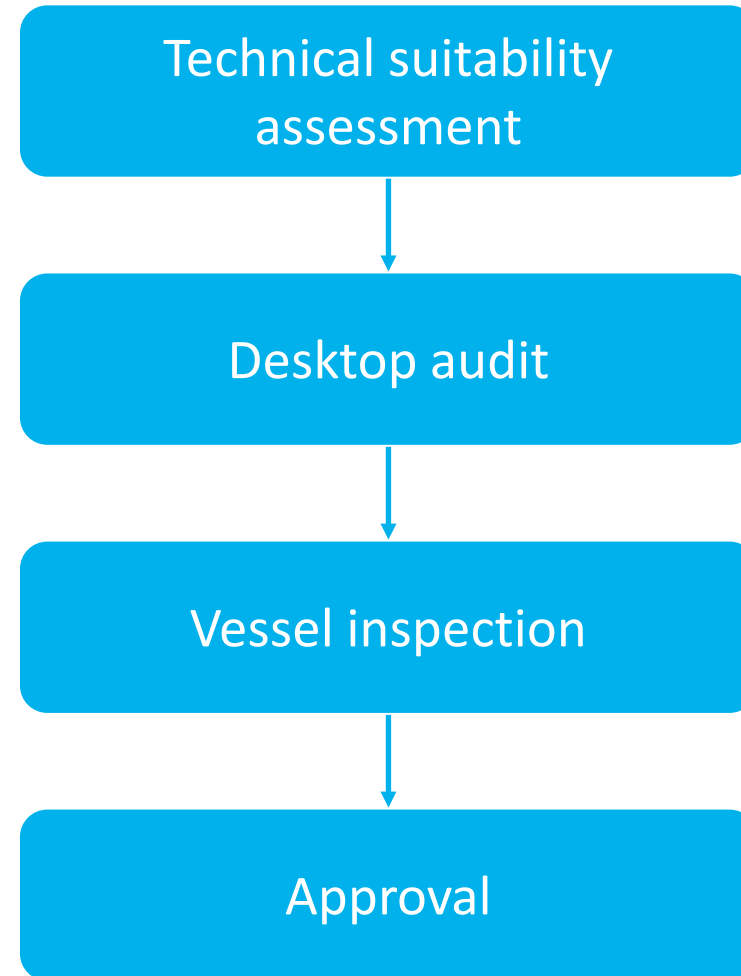
Marine Governance System

- Global RWE Marine Governance System
- Challenges to apply globally

Europe	APAC
<ul style="list-style-type: none">• Established offshore wind market• Established vessel supply chain• Time for vessel assurance predictable	<ul style="list-style-type: none">• Not that mature vessel supply chain• Not all vessel types available• Local content• Not following industry best practice as G+ and/or IMCA• Need to educate supply chain• Time for vessel assurance unpredictable• Challenge if short term solution is needed

Assurance Workflow

- Standardized process
- 3 stage approval approach
- Technical suitability assessment
 - Project suitable
 - Marine suitable



Assurance

Standardized approach

- Standardized assurance approach
- Desktop audit
- Key findings from desktop study
 - Weather limits
 - Tow Plan & towing equipment
 - DP documentation

DP vessel

No.	Certificate/Question	Answer	Certificates/Answer received <small>(internally used by RWE)</small>
3.1	Copy of the DP Operational Manual		
3.2	Failure Modes and Effects Analysis (FMEA) – please provide a copy		
3.3	FMEA conducted by a third party (not class)?		
3.4	Last DP Trial – please provide a copy		
3.5	DP Trial conducted by a third party (not class)?		
3.6	DP Capability Plot – please provide a copy		
3.7	Was the vessel technical equipment and / or system modified e.g. DP, engines, etc.? If so, was a new FMEA / DP Trial conducted?		
3.8	Any DP incidents?		

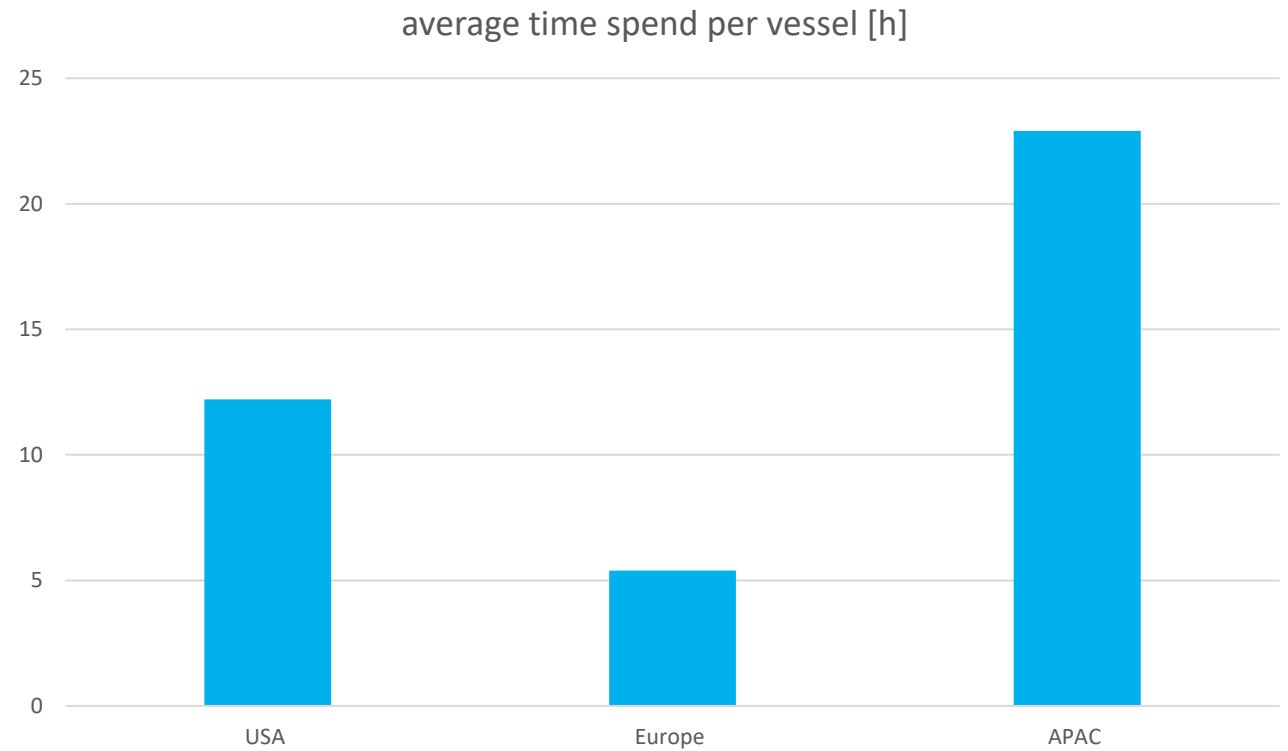
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Assurance

Time for desktop study

- Time needed for desktop study
- Differs on the region



Vessel inspection

Checklist

- Key element for RWE
- Especially emerging markets
- Checklists based on RWE vessel requirements
- Standardized inspection
 - Vessel Inspection Checklist
 - USV Inspection Checklist
 - Transport Barge Checklist

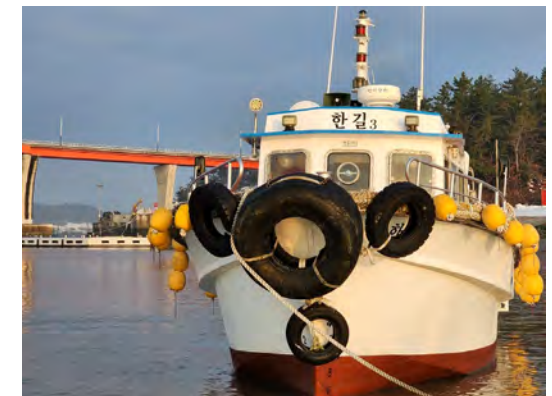
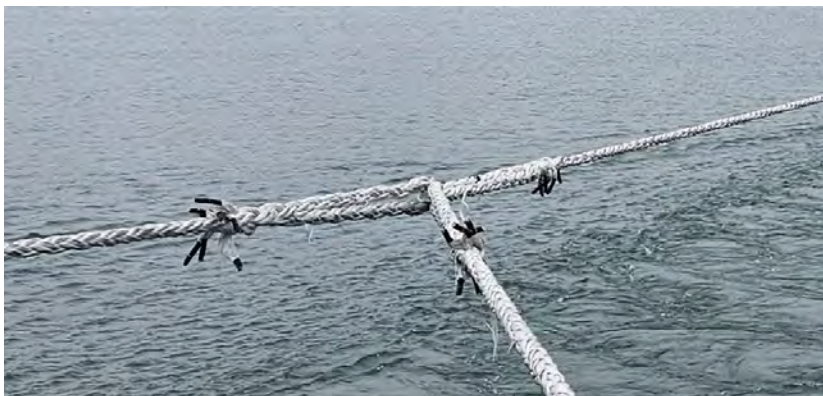
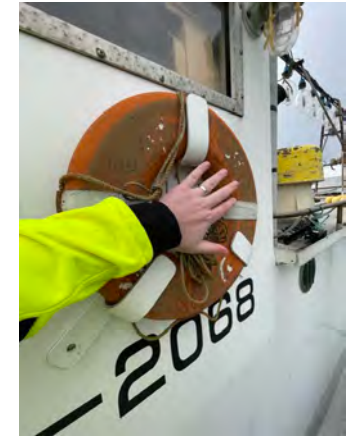
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Vessel inspection

Emerging markets

- Occasionally local vessel mandatory
- Challenges:
 - Equipment
 - Safety Management System
- Knowledge sharing
- Educating supplier
- Stop the job & search for alternatives



Uncrewed Surface Vessel

- USV Strategy Project
- Internal knowledge sharing & acceptance
- USV used on different projects
- Big potential today
- Further work scopes to come
- Challenges
 - No international legislation
 - National approval from authorities
- Sample USV:
 - DriX H8 from Exail
 - DriX O16 from Exail



Source: Exail

RWE





Stakeholder Forum 2025

Europe Webinar

Co-hosted with IMCA



DISCUSSION AND AUDIENCE QUESTIONS



Lisbeth Frømling, Ørsted, G+ Chair

Iain Grainger, IMCA CEO

Myriam Boufersen, Seaway7

Rhys Jones, IMCA

Hendrik Drossmann, RWE

Closing remarks

- We appreciate your feedback, please scan the QR code to complete our webinar survey
- Thank you for your participation!

G+ Stakeholder Forum - European
Webinar, 12 March 2025





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