



# PI **MARINE** HAMBURG 2019

Transforming ship-building through model-based  
digital integration and smart manufacturing

**24th & 25th January 2019**  
Hamburg, Germany



## PI's Global Network

With a senior executive community spanning across a network of over 2000 discrete and process manufacturing enterprises, PI offers a reliably rich source of inspiration and valuable information for the marine and shipbuilding industries



**PI Marine** is a network of European shipbuilders and architects that benefit from high quality, peer-led, business discussions steering digital efficiency, innovation and productivity in their industries.

Extensive research with our members has informed the agenda of our Hamburg conference and exhibition while identifying immediate requirements for investments to modernise design & development processes and manufacturing techniques.

An agenda by the industry for the industry which promises to assemble trusted partners and the decision makers that will reinforce the competitive future of European shipbuilders.

### Themes guiding the agenda in Hamburg :-

- Moving away from paper to model-based for digital Innovation
- Managing digital assets through development cycles
- Digitizing the supply chain for efficiency
- Automation for maximum productivity
- New methods in smart manufacturing





## An Open and Collaborative Ecosystem

A two day conference organised over a series of keynote presentations, vendor case studies and industry led streams to focus on the issues that matter most to our audience.

*Inspiring Keynotes* to capture the future direction of the shipbuilding industry

*Two tracks* to dive into the depths of digital development innovation and smart production that will influence the industry for decades to come.

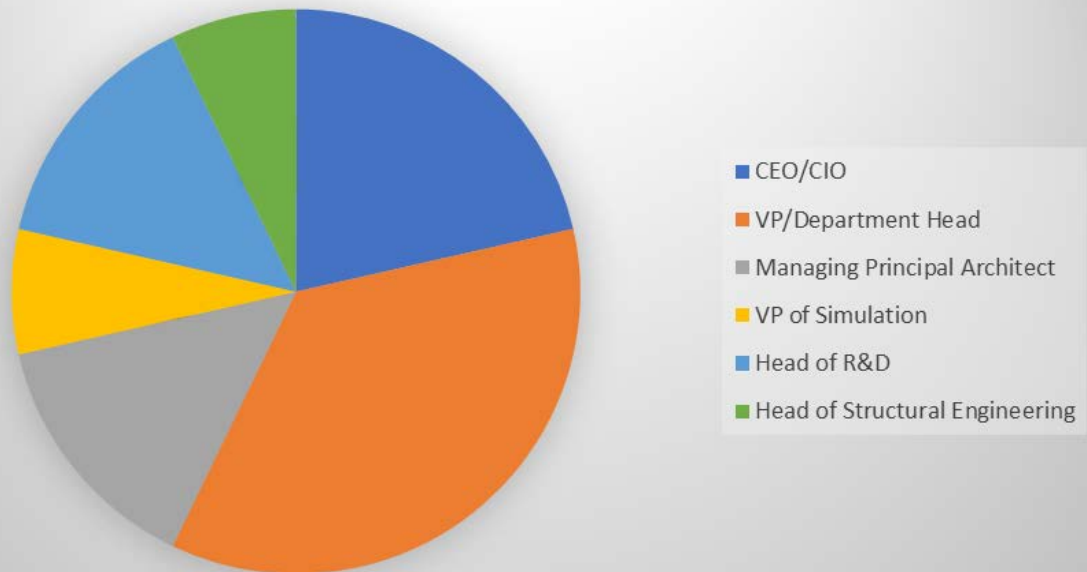
*Focus groups* that are highly interactive, bringing together interested delegates with mutual challenges to discuss a range of topical subjects.

*Vendor case studies* to shed a light on successful implementations, operational excellence and outstanding process innovation.

Dedicated networking breaks and *1-2-1 meeting sessions*, will allow our senior corporate participants to meet with peers, speakers and sponsors.

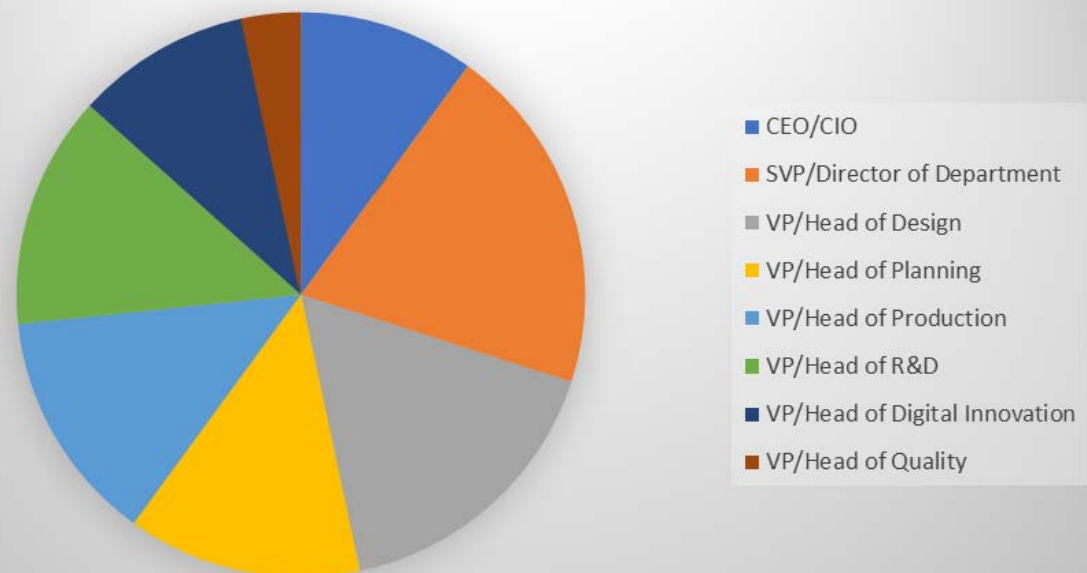


## Naval Architects



Digitalisation of shipbuilding presents new challenges and opportunities which naval architects must embrace to meet changing requirements of ship design and construction across the value chain. The pressure for shorter development timeframes and comprehensive technical data packages, has seen leading architects invest in collaborative project and data management methods enabling the reuse of model-based definition and simulation data, delivering greater efficiencies for all stakeholders.

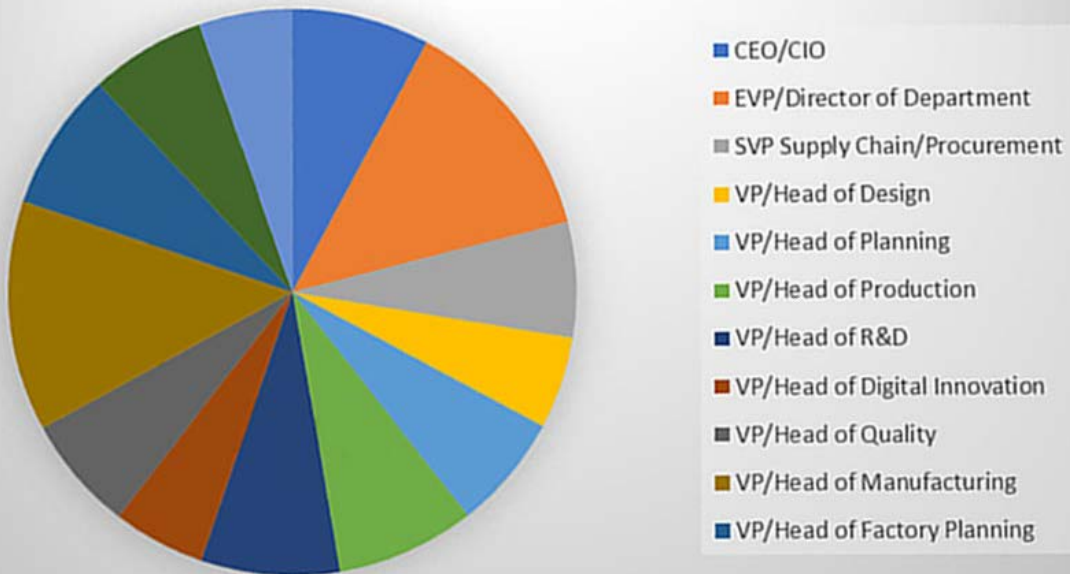
## Marine Engineers & Suppliers



The definition of the digital supply chain has changed. It is always on, real-time, visual, intuitive and getting smarter. Suppliers to the maritime industry are transforming, through digital innovation, to automate processes and deliver agility through accelerated change systems and right first-time quality.



## Shipyards



European shipbuilding is transforming, through digitisation, to decrease build times and hold off increased competition from far east shipbuilders. Virtual production planning, efficient automated processes and advanced visualisation techniques are among the digital tools utilised by Europe's best in class shipyard management.

## PI Marine 2019 - Featured Participants



Oskar Levander  
SVP Concepts & Innovation  
Rolls-Royce Marine



Bernt-Aage Ulstein  
Director Design & Engineering  
Ulstein Group ASA



Guus van der Bles  
Managing Director  
Conoship International B.V.



Uwe Freiherr von Lukas  
Department Head Maritime  
Graphics R&D, Fraunhofer IGD

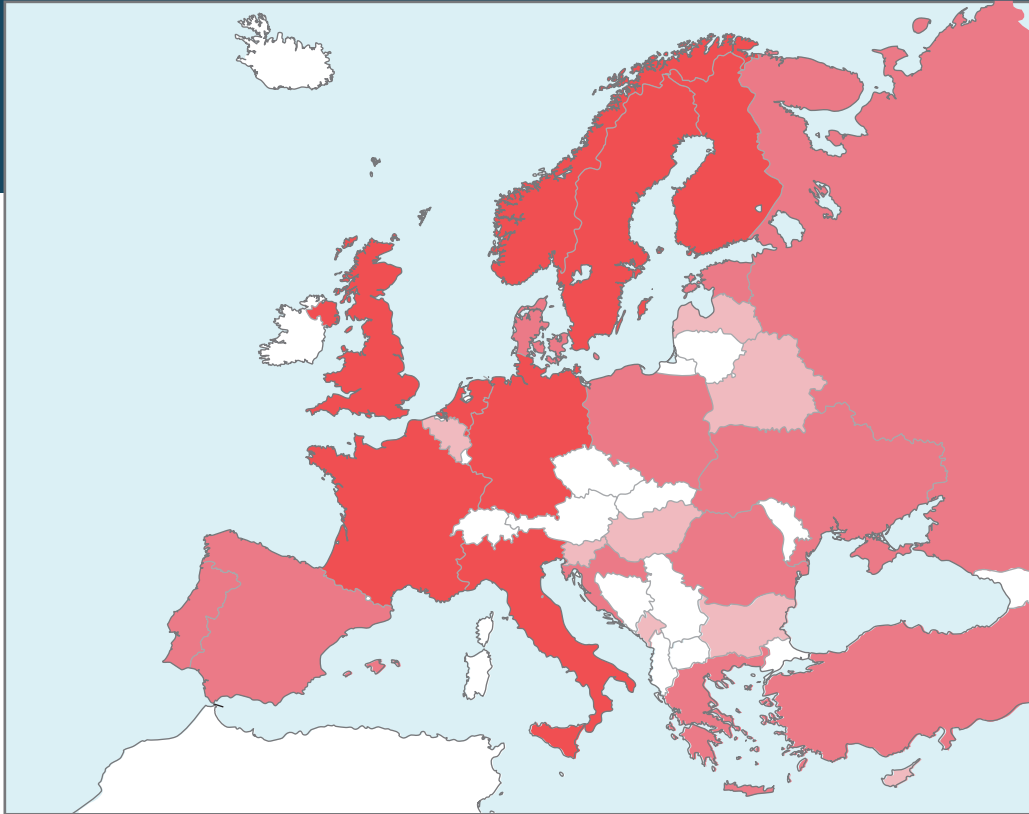


Don Hoogendoorn  
Principal Research Engineer,  
Damen



Per A. Brinchmann  
Chairman ,Massterly (Kongsberg  
& Wilh Wilhelmsen partnership)

# PI Marine 2019 - Geo Spread by Participants



**Over 250 participants from:**

	Belarus		Montenegro	High Concentration Medium Concentration Low concentration
	Belgium		Netherlands	
	Bulgaria		Norway	
	Croatia		Poland	
	Cyprus		Portugal	
	Denmark		Romania	
	Estonia		Russia	
	Finland		Slovenia	
	France		Spain	
	Germany		Sweden	
	Greece		Turkey	
	Hungary		Ukraine	
	Italy		United Kingdom	
	Latvia			

# Snapshot of industry questions that will be answered at PI Marine 2019

“Why should we digitally model the entire ship before construction?”

“We need a better way to manage ship owner requirements through our development processes.”

“How can digital technologies make the yard supply chain more efficient?”

“How can technology assist the shipbuilding industry, faced with an ageing skilled workforce?”

“What is the Digital Twin, how do we produce it and how can it provide value through the entire ship lifecycle?”

“What technology will help me understand affordability and predictability in shipbuilding?”

## Technologies of interest to our audience

Requirements management	PLM	MES
Systems engineering	Supplier collaboration	MOM
MBSE	ERP	Automated handling
CAD	Visualization	Robot automation
FEA/CFD simulations	AR/VR/MR	QMS (Quality Management)
PDM	Laser scanning	Additive manufacturing
3D design and printing		

# Other Events in our Network

[PI Marine \(January 2019, Hamburg\)](#)

[PI PLMx \(February 2019, London\)](#)

[PI Apparel \(February 2019, Los Angeles\)](#)

[PI Apparel \(April 2019, Hong Kong\)](#)

[PI Apparel \(April 2019, New York\)](#)

To enquire about presenting and participation opportunities please contact:

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