

This is Sustainable Technology Hub
Welcome to an ecosystem of collaboration

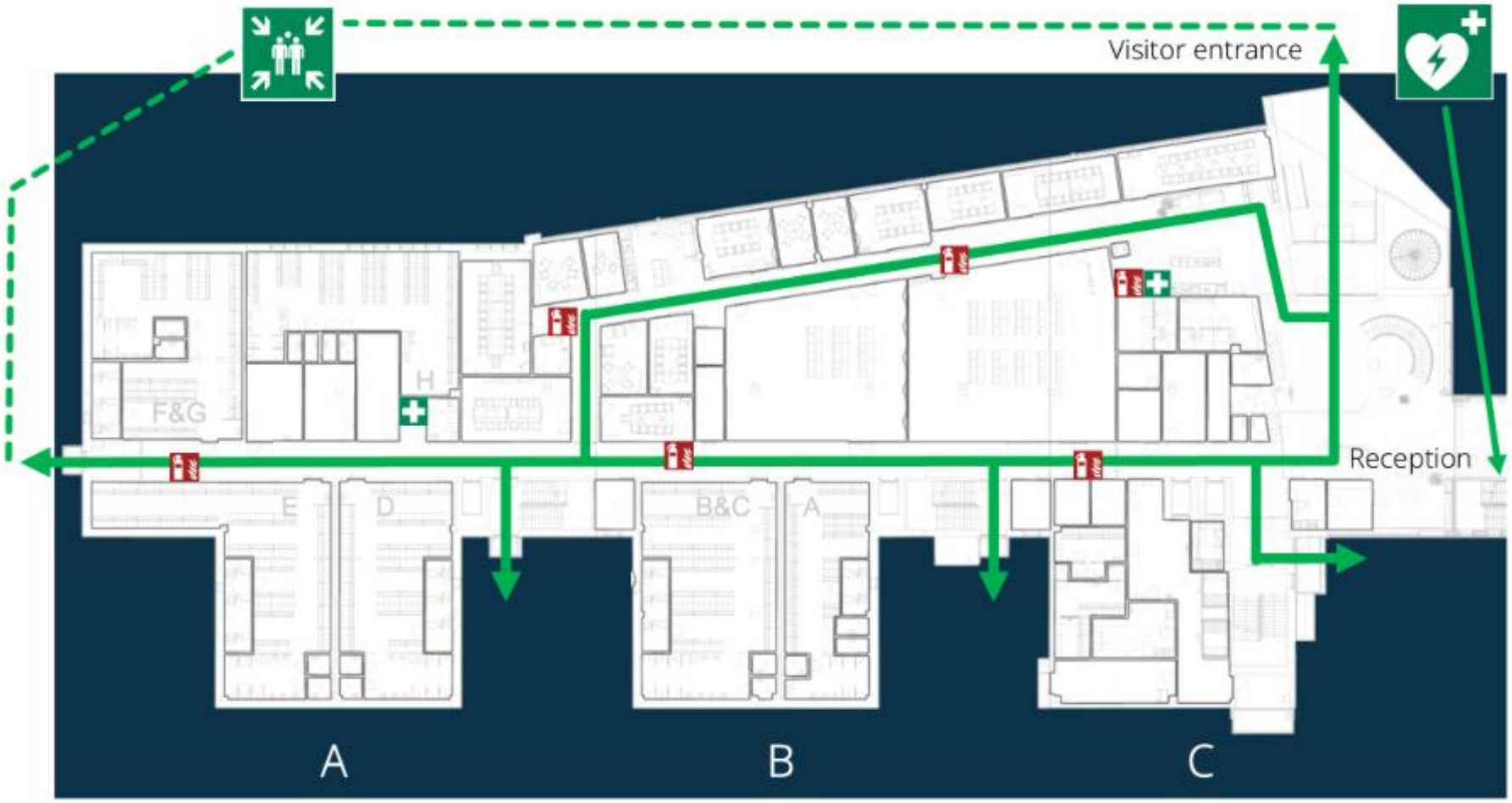
Vesa Riihimäki
Director, Delivery Management

STH

© WÄRTSILÄ

Safety is a top priority at Wärtsilä

- Location of the nearest emergency exits and emergency meeting place
- Emergency number 112, always inform reception in case of emergency
- Keep the visitor badge visible during the whole visit

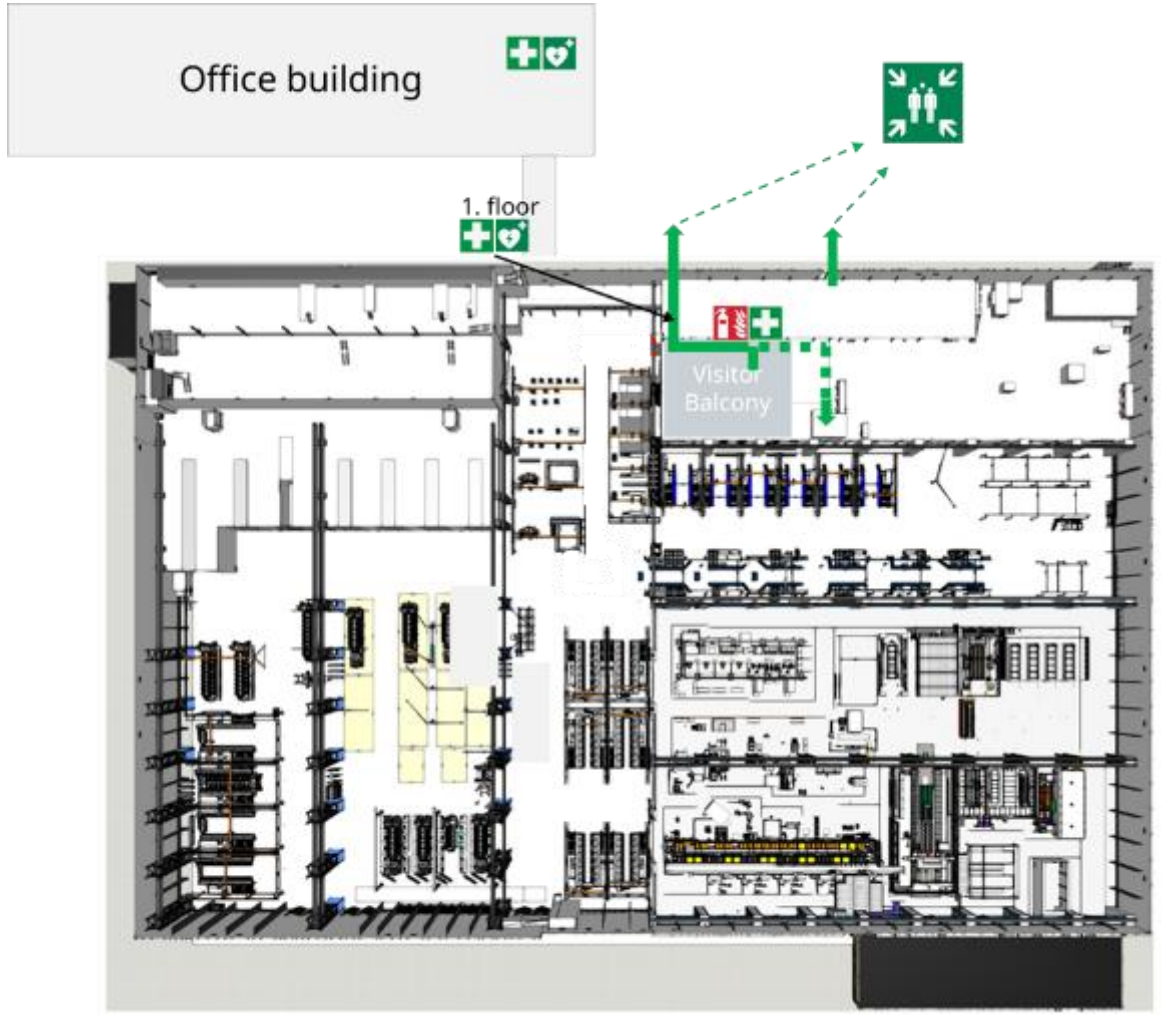


Emergency exits
STH Office building A-C (1st floor)

© WÄRTSILÄ

Safety in STH

- Location of the nearest **emergency exits** and emergency meeting place
- **Emergency number 112,** always inform reception in case of emergency
- Keep the visitor badge visible during the whole visit
- Photographing is not allowed except for designated photo locations



© WÄRTSILÄ

Sustainable Technology Hub (STH) is Wärtsilä's global hub for manufacturing, developing and testing technologies

2022
opened

90,000 m^2
(before expansions)

3,800+
employees

- The heart of Wärtsilä's engine manufacturing, engine R&D, Marine and Energy business functions combined with a unique approach to collaboration and innovation.
- The production process incorporates robotics, automation, and intelligent production control systems, resulting in improved efficiency and operational safety.
- In addition to its advanced manufacturing capabilities, the technology centre also houses a training centre and one of Wärtsilä's globally serving remote monitoring centres.

© WÄRTSILÄ

STH capacity expansion supports growth both in Energy and Marine

Wide portfolio of engines supports multiple market segments with evolving needs

Wärtsilä in energy: towards a 100% renewable energy future

- US data centre market – significant increase in large-bore engine volumes spearheaded with W50 engine
- Balancing power plant deliveries globally to support transition to renewable energy infrastructure
- Scale-up of W46TS based power plant deliveries
- Demonstration of full-scale 100% W31 hydrogen engine for the future

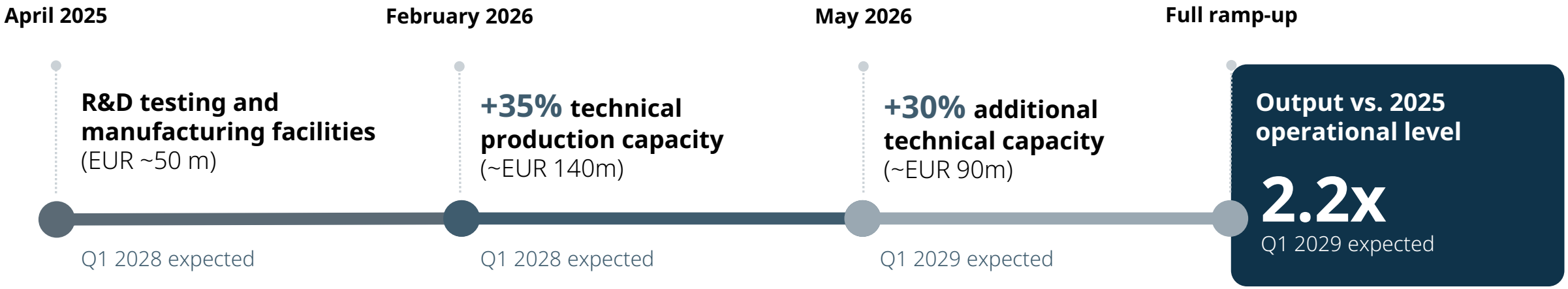
Wärtsilä in marine: the right solutions for each vessel and fleet

- STH delivers wide portfolio of 4-stroke engines for multiple marine segments globally
- Realizing Decarbonisation strategy
  - Deliveries of methanol engines with a widening portfolio W32M, W46M2 and W31M
  - First deliveries of ammonia engines to build long-term future
- Strong introduction of the new W46TS-based platforms to the latest cruise ships
- High auxiliary engine volumes in joint ventures (supporting growth through component deliveries)

© WÄRTSILÄ

Capacity to reach 2.2x the 2025 operational level by Q1/2029

Compared with the 2025 operational level, once all expansions are commissioned



Capacity expansions are progressing on schedule

- Testing capacity: main STH hub building expansion for 2028.
- Critical components: cylinder heads and connecting rods, with capacity added in 2028 and 2029.
- Large-bore machining: new portal machining centres, with capacity added in 2028 and 2029.
- Engine assembly: shorter lead times support increased large-bore capacity from 2026.

© WÄRTSILÄ

Capacity investments are focused on testing and component manufacturing

Expansions are not jeopardising existing capacity – clearly separated independent projects





Testing capacity increase at STH

- Expansion of main STH HUB building

Critical component manufacturing

- New facility under construction, capacity expansion in two steps
- Capacity expansion covers manufacturing of cylinder heads and connecting rods
- Expansion supports growth in new production at STH and joint ventures as well as services spare-parts sales

Engine block portal machining centres (PMC)

- New portal machining centres, focusing on large-bore capacity
- Investment at machining partner facility

Logistics and material flow optimization

- Capacity expansion in logistics centre setup and material flow optimization for the new component manufacturing

New delivery model and engine assembly optimisation

- Significant lead-time reduction which supports especially the large-bore engine capacity increase

© WÄRTSILÄ

In-house manufacturing expansion mitigates scale-up schedule and quality risks

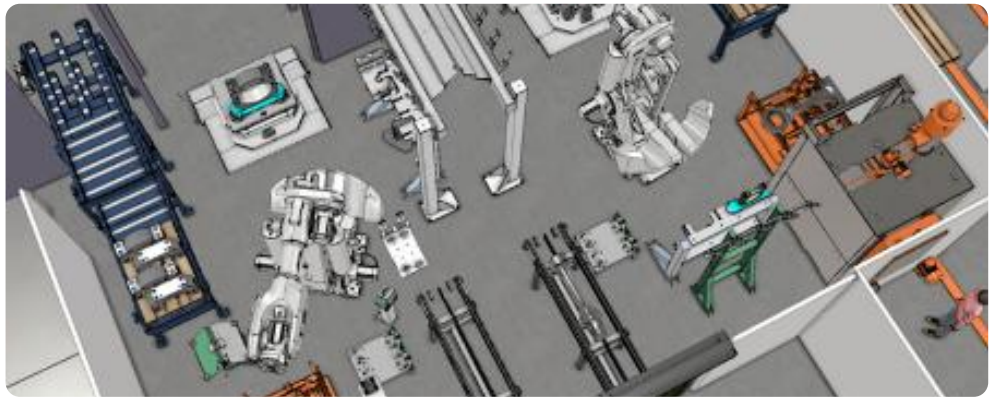
Investment and intellectual property risks are mitigated through in-house deliveries throughout the lifecycle

Benefits of in-house critical component manufacturing

- Controlled capacity increase mitigates schedule challenges
- Standardising machining systems provides commonality for machining programs, maintenance and machining tools resulting in higher reliability and availability
- This approach ensures intellectual property protection

High quality of components

- Integrated quality controls mitigate quality risks
- Wärtsilä integrates dimensional measurements, material ultrasonic scanning and surface quality measurements to the production system
- All components manufactured in-house are going through the measurements to ensure the highest quality standards for deliveries







© WÄRTSILÄ

Long-term partnerships and investments to support supply chain growth

Wärtsilä supply chain has demonstrated scalability and resilience

- High order book and demand provide visibility to supplier volume planning
- Long-term partnerships with key suppliers play an essential role in securing capacity
- Direct investments in several key suppliers support managing the capacity expansion needs
- Wärtsilä supply chain has demonstrated the scalability and resilience historically during previous high-volume cycles
- Supply chain risks are managed through business continuity planning



Strategic partnership to secure the supply chain

© WÄRTSILÄ


WÄRTSILÄ