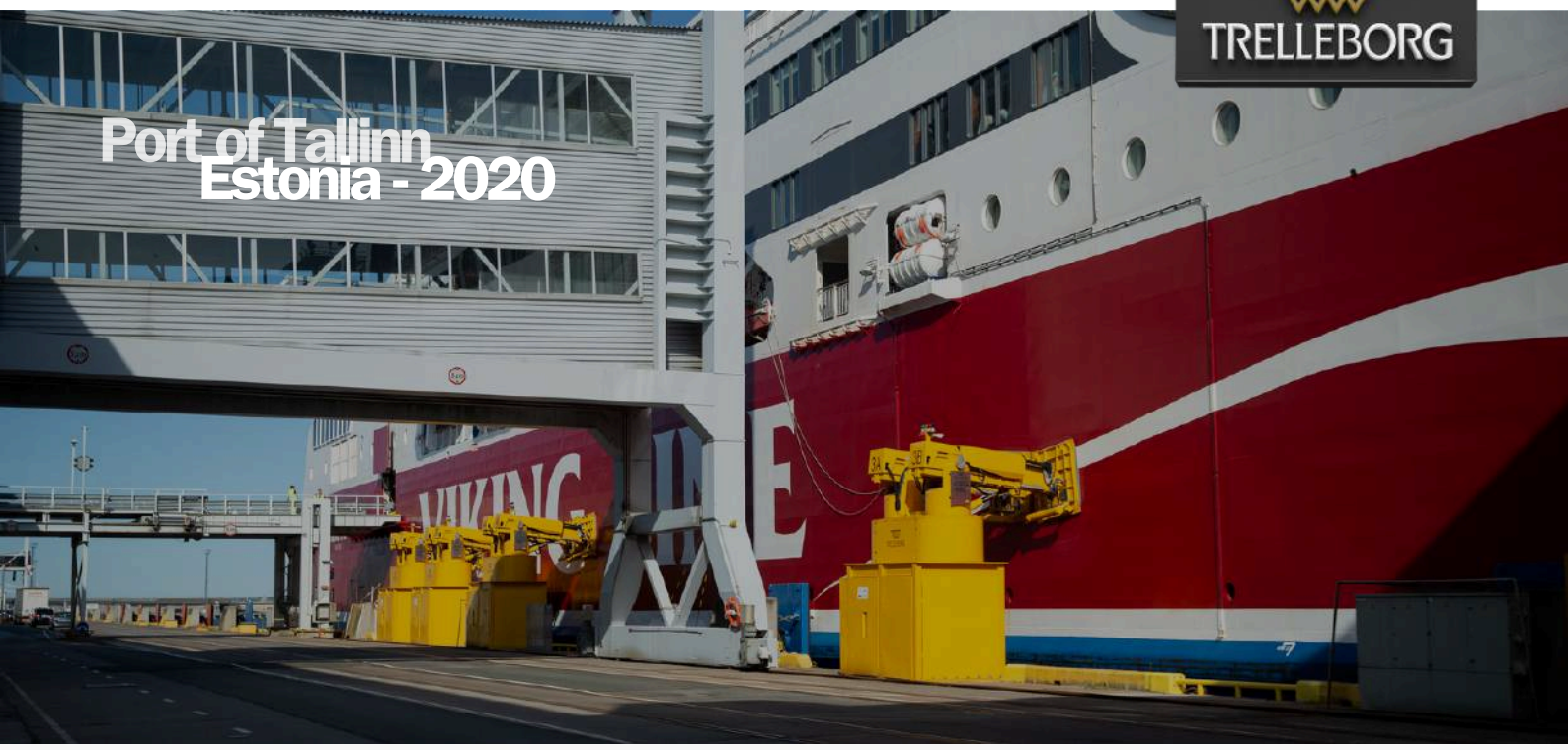

Supporting efficient and lower-emission ferry operations in Tallinn

CHALLENGE

As Estonia's largest and one of the world's busiest passenger harbours, Old City Harbour manages high-frequency ferry traffic on the busy Tallinn–Helsinki route.

Serving large passenger ferries, the port needed to:

- Reduce turnaround times without increasing berth congestion
- Improve crew safety by eliminating manual rope handling
- Support decarbonization targets by minimizing engine run-time while vessels are alongside
- Implement new technology within a space-constrained berth environment, where gantry rails and wharf-edge limitations restricted available footprint

SOLUTION

As part of the EU co-financed TWIN-PORT 3 project, the port installed six AutoMoor T40 Twin Arm units at Berth 13, serving passenger ferries operated by Viking Line.

The rope-free automated mooring system secures vessels in under 30 seconds and releases them in just 15 seconds, significantly reducing berth occupancy time and limiting the need for engines to run while alongside. Its twin-arm design can operate in sync or independently to accommodate varying hull geometries, while the compact footprint enables installation in tight quay-side spaces.

By eliminating mooring ropes and enabling remote operation, AutoMoor enhances crew safety, streamlines port operations, and cuts CO_2 emissions through reduced engine and equipment usage, supporting the Port of Tallinn's ambition to operate one of the most efficient, safe, and sustainable passenger terminals in the world.

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