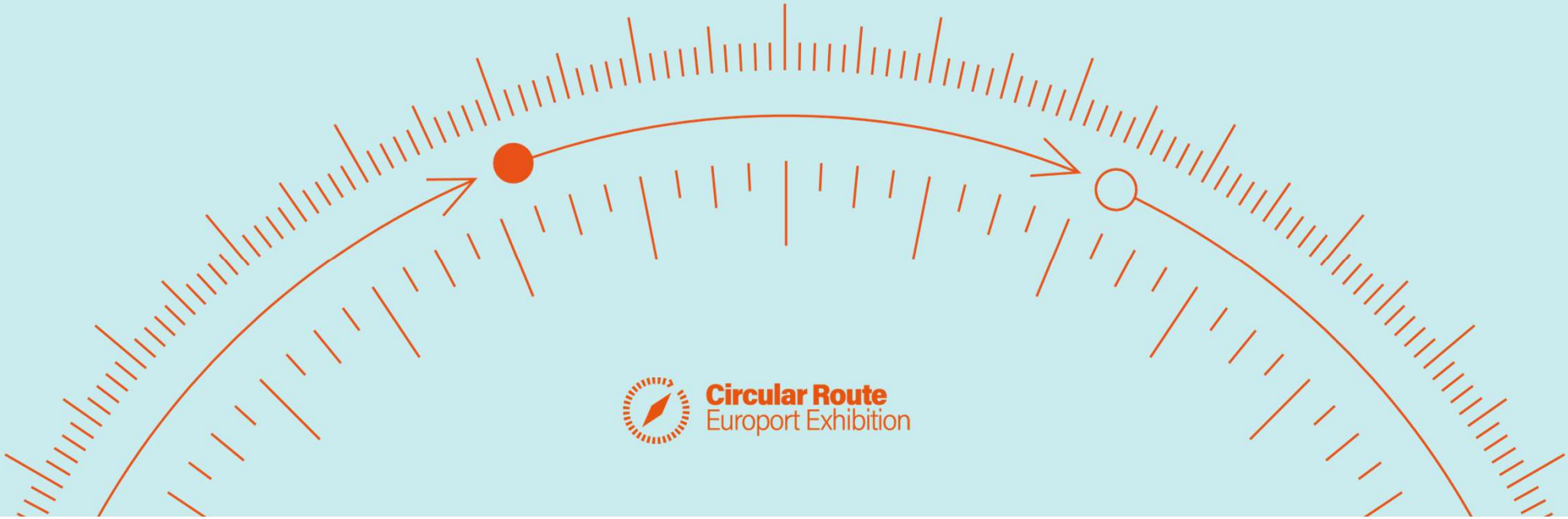
4° 29′ 18.115″ E

Alewijnse

Fewer cables, smarter ships

51° 52′ 59.867″ N



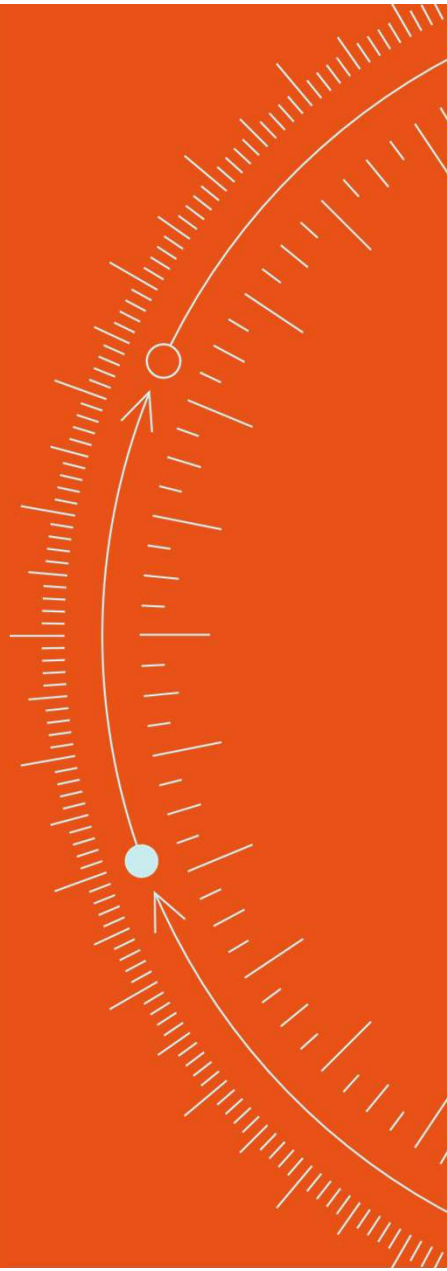
Circular Route
Europort Exhibition

4° 29′ 18.115″ E

Alewijnse: Cable Reduction through smarter shipbuilding

Fewer cables, smarter ships

The electrification of modern vessels can result in an exceedingly high cable scope. Bringing in the electrical system integrator too late in the design process leads to inefficient cable engineering. Alewijnse demonstrates how early involvement and integrated, system-level engineering can reverse that trend.



51° 52′ 59.867″ N

4° 29′ 18.115″ E

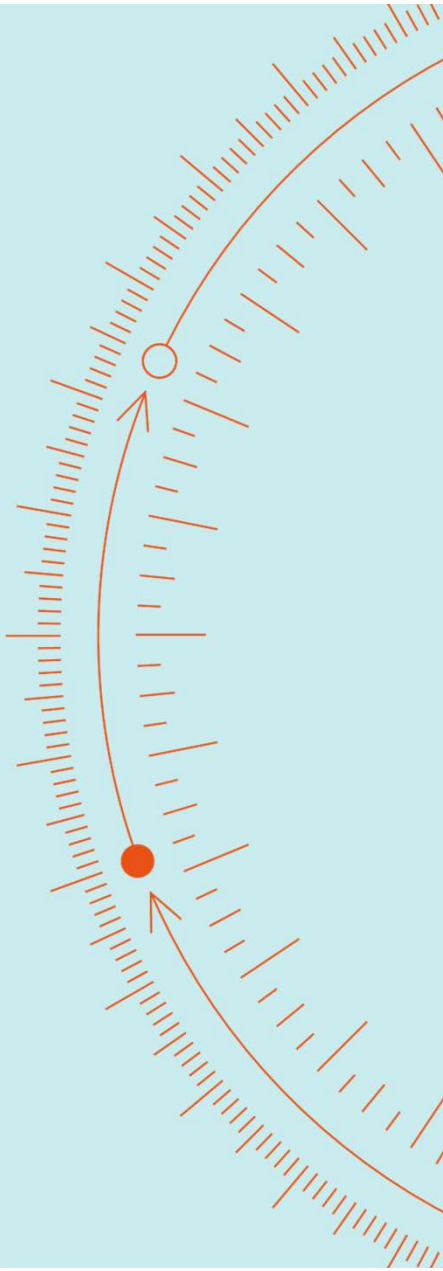
Alewijnse – Damen pilot

Damen Combi Freighter

In a pilot with Damen, TKF and Bureau Veritas, a Combi-Freighter from Damen Shipyards achieved significant cable reduction. The philosophy of early involvement and system-level multidisciplinary design, underpins the Alewijnse ambition to reach 20% cable reduction across ship types by 2030.

Less cabling means lower costs, reduced weight and fuel use, shorter lead time and greater autonomy from critical raw materials. Alewijnse now calls on the sector to join in scaling cable reduction as a standard for smarter, more sustainable shipbuilding.

51° 52′ 59.867″ N



4° 29′ 18.115″ E

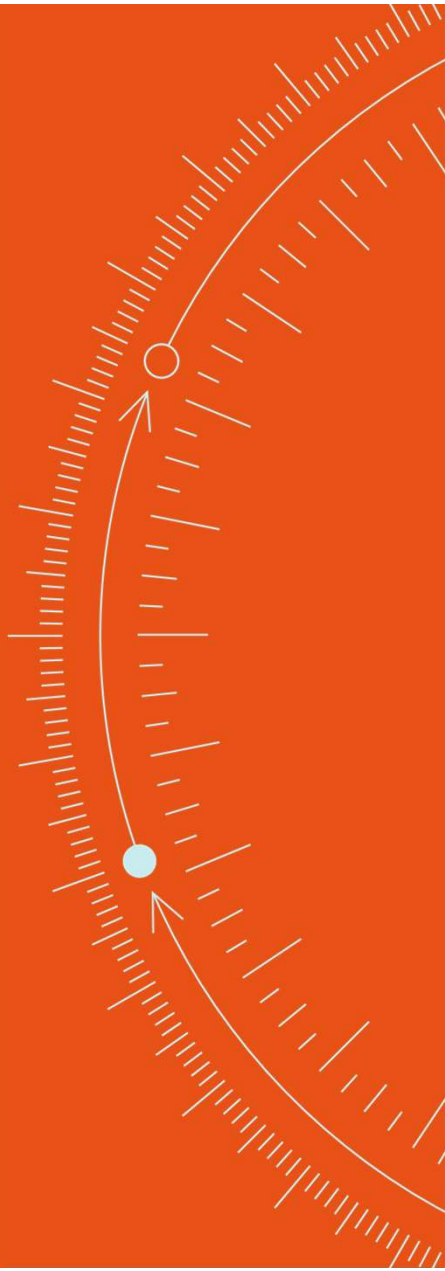
Alewijnse Research:

Next Phase

Research project

It is estimated that this initiative will not only lead to direct savings in material costs, but also to reductions in labour hours and total project costs, contributing to the targeted 10–15% cost reduction outlined in the Sector Agenda Maritime Manufacturing Industry (SAMMI). The average saving per kilometre of cable can amount to approximately EUR 25,000. The follow-up research will:

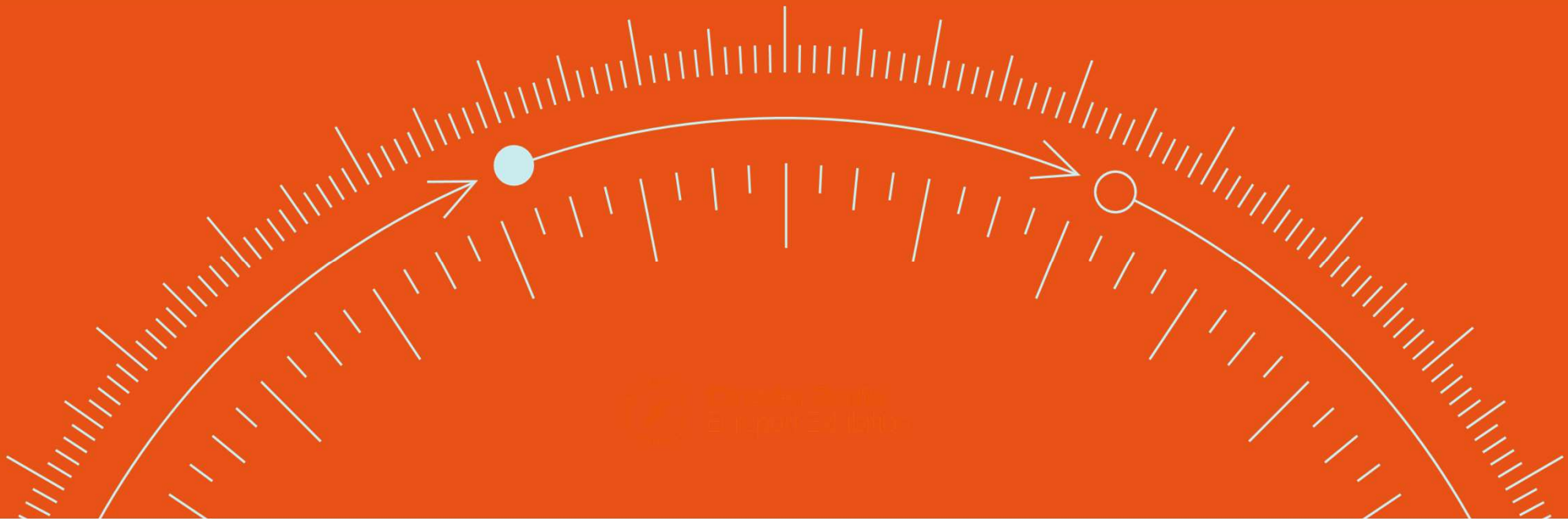
- Quantify the actual savings in material usage, labour hours, and CO_2 emissions;
- Explore the potential for scaling up the concept to other systems and applications
- Collaborate in the circular chain with Universities and provide Internships to implement circular goals in our processes



51° 52′ 59.867″ N

Alewijnse

Your Partner in the Circular Chain



4° 29′ 18.115″ E

51° 52′ 59.867″ N