



## COREALIS Final Event

### Wrap-Up

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## **COREALIS has reached the end of the foreseen project plan**

- ✓ Project Objectives have been met
- ✓ All Deliverables have been submitted
- ✓ Participating ports and partners have already started benefiting from the results of COREALIS





# COREALIS Achievements & Future



- ✓ **COREALIS RTPORT** has achieved **the first 5G installation** at a container port in Europe in the Port of Livorno
- ✓ **COREALIS Truck Appointment System** effects on port operations have been recognized and is being deployed in all five terminals at the Port of Haminakotka
- ✓ **COREALIS PREDICTOR** is adopted at Piraeus Container Terminal as a main tool for the procurement of spare parts and demonstrates savings of 4 – 15% per spare part type including tyres and engine filters
- ✓ **COREALIS Cargo Flow Optimiser** has revealed the potential for significant CO<sub>2</sub> emissions savings and optimal TATs for freight moving from maritime to the hinterland at the Port of Antwerp





# COREALIS Achievements & Future



- ✓ **COREALIS HACKATHON** has brought together talented people to deal with Circular Economy and Road Transport at the Port of Valencia
- ✓ **COREALIS Port of the Future Serious Game** has developed to a significant decision making support tool for Port Master Plans and investments in port-cities
- ✓ **COREALIS JiT Rail Shuttle** has revealed significant financial savings and operational benefits
- ✓ **COREALIS Green Cookbook** has identified the power consuming patterns of the Port of Piraeus and provided alternatives for the use of RES to minimize the requirements from the power grid





# Ports of the Future



**COREALIS has set a basis but there is still a long way towards achieving operational efficiency and climate neutrality as set by the European Green Deal**

There are numerous topics that still need to be researched and implemented that will require legal framework adjustments and investments, such as:

- ✓ Clean energy production from RES, storage & supply at ports
- ✓ Electromobility and recharging stations
- ✓ Automation and digitalization to improve operational efficiency and minimize vessel call times
- ✓ Shift from fossil fuels to alternative less polluting fuels (i.e. hydrogen, ammonia, methanol)
- ✓ Bunkering services for new fuel types
- ✓ Cold-ironing
- ✓ Use of scrubbers for marine vessels





[www.corealis.eu](http://www.corealis.eu)



[corealis\\_eu](https://twitter.com/corealis_eu)



[COREALIS EU Project](https://www.youtube.com/COREALIS%20EU%20Project)



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# THANK YOU FOR YOUR ATTENTION



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