



## COREALIS D3.1 Webinar

# Sustainability requirements from ports, and port's sustainability focus

Ville Hinkka, VTT Technical Research Centre of Finland

COREALIS Webinar 14.06.2019



# Some aims and directives of European Union related to port and maritime sector



- Mitigating the environmental impact of transport
  - Commission has invited the Member States and the European maritime industry to work together towards the long-term objective of 'zero-waste, zero emission' in maritime transport
- Increase the share of waterborne transportation especially in short distance shipping
- Minimizing dependence on oil
  - Member States should provide an appropriate number of LNG refueling points for maritime and inland waterway transport
- All ships that stopover in European ports are obliged to deliver in port their waste on board of ships
  - Ports should also set their waste tariffs based on the vessel size, and not the actual amount of the waste





# Main environmental priorities of ports (ESPO/EcoPorts survey 2018)

1. Air quality
2. Energy consumption
3. Noise
4. Relationship with the community
5. Ship waste
6. Port development (land)
7. Climate change
8. Water quality
9. Dredging operations
10. Garbage / Port waste





# What environmental indicators 10 biggest container ports in Europe rise in their public English website

PORT	INDICATOR										
	Air quality	Energy consumption	Noise	Relationship with the community	Ship waste	Port development	Climate change	Water quality	Dredging operations	Garbage / port waste	Diversity
Rotterdam	x	x	x	x	x	x	x			x	x
Antwerp	x	x	x	x	x	x	x	x		x	x
Hamburg	x	x	x			x	x	x	x		x
Bremerhaven	x	x	x	x	x	x	x	x	x	x	x
Valencia	x	x	x	x	x		x	x	x	x	x
Algeciras											
Felixstowe		x		x		x	x			x	x
Piraeus	x	x	x	x	x	x	x	x	x	x	x
Gioia Tauro											
Barcelona	x	x		x	x	x	x	x		x	



# Comparison of the sustainability aims of European Union related to ports' views



- It seems that majority of the ports are aiming to decrease the harmful environmental impact of port operations in various ways
- Ports also consider their position as a part of surrounding neighborhood and supply chains by acknowledging the railway connections for cargo and commuting of people working and visiting in port area.
  - Acknowledging the importance of railway connections for cargo
  - Commuting of people working and visiting in port area
- The webpages of ports contains various information about sustainability intentions of port
  - Two ports do not have any material about their relationship to sustainability intentions in English
  - Many other ports does not even mention environmental actions that are obliged by law





# Comparison of the sustainability aims of European Union related to ports' views

- Based on study funded by European Maritime Safety Agency, different European ports have different system even inside one country.
  - In some ports, charges increase if the amount of waste is bigger
  - In some ports financial sanctions are imposed for those ships not delivering any waste
- The importance of sustainable supply chain management has increased during the past few years
  - So far the production related matters (working conditions, pollution, etc.) has gain the biggest public attention
  - Does transport route related choices (e.g. which logistics hubs/locations are selected) gain the similar attention in the future?



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



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



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



[Corealis\\_eu](https://www.linkedin.com/company/corealis_eu)



[info@lists.corealis.eu](mailto:info@lists.corealis.eu)

# THANK YOU FOR YOUR ATTENTION



Ville Hinkka, VTT Technical Research Centre of Finland Ltd.



[Ville.Hinkka@vtt.fi](mailto:Ville.Hinkka@vtt.fi)



This project has received funding from the European Union's horizon 2020 research and innovation programme under grant agreement No. 768994