

# MEDports

ASSOCIATION

The SMART port, a work tool of  
innovation towards impact reduction

June 25th, 2019



**According to MEDports, what is a smartport?**



# Smartport committee - 12 Top current key aspects

1. **Digital platforms** to connect to all port actors: e.g. Port Community System – exchange experience
2. Sharing experience on **tracking systems** for the end customer on the whole supply chain (starting with Photo/Video-Gate systems) for passengers and cargo, to make the supply chain more transparent
3. **Mobile apps** to optimize port management
4. **Data security**: encryption, blockchain, ...
5. **Extension of data transmission** from one port to other ports: passengers, cargo, dangerous goods...
6. Create a **Port Living lab**, with start-ups and universities

# Smartport committee - 12 Top current key aspects

7. Efficient energy management, for example with **port smartgrids** and alternative fuels (LNG, electric, ...)
8. Use **data systems** to make **rail transport** more efficient (linked to points 1-3 and 6 and 11)
9. **Social responsibility / interface port-city**
10. **Internet of Things** – identify current and future IoT technologies and their use in ports.
11. **Prediction software** fed with real events (**weather conditions**, number of available pilots, ...) and interconnected between ports, simulate the whole logistic chain in the Med (+hinterland?).
12. **Labelling « smart MEDport projects ».**

## 4 priority projects of the smartport committee

1. The **Data Mare Nostrum Project** (w/ MGI partner): project of **vessel & cargo data exchange** amongst MED ports.
2. **Data transmission focusing on passenger mobility** (cruise and ferry) to anticipate personal administrative data to fasten port passage (with security/safety department, customs and border police) and **better accommodate transport flows in the port vicinity.**
3. **Environmental aspects:**
  - real time indicators to monitor **door2door carbon footprint**
  - share experiences with **scrubbers** (cf. IMO and future ECA zone)
4. **Innovation governance:** describe each port community's innovation ecosystem...

# Smartport Committee - First results of the survey on the innovation governance in the MEDports



# Various ways to innovate

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- › **Some have formally launched a Smartport initiative**  
*In Marseille, Barcelona, Valencia, ...*
  - › **Creation of an ecosystem of innovation**
  - › **Creation of a portal** to share and communicate with the port community and the innovative ecosystem
  - › **Special departments in charge of innovation** to reach an agreement on the innovative projects and to build the right strategies
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# Impulse VS. restriction factors

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## What can impulse innovation ?

- Sharing needs and focusing on real needs
- Sharing data
- Integrating digitalization and environment issues to the innovative strategies
- Involvement and collaboration at all levels
- Having the appropriate resources

## What can restrain innovation ?

- Market competition / sectors dynamics
- The legal framework
- The lack of involvement of some stakeholders or agents
- The lack of resources
- Divergences of priorities



# Some innovative projects of the MED ports

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