The SMART port, a work tool of innovation towards impact reduction
According to MEDports, what is a smartport?
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

› 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
Impulse VS. restriction factors

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