



**IALA - MarNIS**  
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***The EU e-Maritime initiative***

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## Background

- Measures aimed at deploying e-Maritime systems were announced in the mid-term review of the White Paper on Transport Policy.
- This announcement was repeated in the European Agenda for Freight Logistics, 18 October 2007 and in the two Communications
- on establishing a European maritime transport space without barriers {COM(2009) 10} and
- on the EU Maritime Transport Strategy 2018 {COM(2009) 8}, 21st January 2009



## The EU e-Maritime policy aim

- Bring the European maritime transport industry and services sectors to the forefront of ICT developments
- A framework directive for the establishment of technical requirements, specifications and conditions for the deployment of e-Maritime systems



## Defining the EU e-Maritime concept (1)

- “e-Maritime” stands for web based interactions between all the different stakeholders in the maritime sector
- The EU E-Maritime initiative embodies a set of policies, strategies and capabilities facilitating the development of "e-Maritime" in support of an efficient and sustainable waterborne transport system throughout Europe, fully integrated within the transport logistic chains



## The EU e-Maritime concept (2)

Three strategic aims focus on improved

1. safety, security and environmental performance
2. competitiveness and efficiency
3. Ways of working (including training)

Whereas the results must be realised through measurable economic, social and environmental benefits



## Problems persisting in maritime transport

1. *Complex, time-consuming administrative procedures; incompatible information systems*
2. *Insufficient integration in the logistics chain; data is not shared*
3. *Lack of interoperability entails inefficiencies in logistics and additional barriers to SMEs*
4. *Lack of integrated port and fleet management systems; Difficult to optimise network performance*
5. *Lack of integration of surveillance systems*
6. *Lack of cross-regional pan-European safety systems*
7. *Shortage of qualified mariners; lack of onboard education and infotainment*



## e-Maritime objectives (1)

1. *Accelerated take up across EU of SafeSeaNet and e-navigation*
2. *Improved utilisation of the GALILEO and its integration with traffic monitoring processes;*
3. *Improved information exchange between administration and business (A2B & B2A) with dependable interoperability platforms (Single Window), online services and regulatory compliance reporting systems;*
4. *Improved utilisation of resources by supporting maritime transport stakeholders co-operate efficiently in co-modal networks;*
5. *Improved efficiency and quality of shipping services through integrated fleet management systems*



## e-Maritime objectives (2)

6. *Enhanced attractiveness of short sea shipping and its role in an efficient door-to-door supply chain;*
7. *Development of European Ports as key logistics hubs through advanced Port Single Windows and Port Community systems;*
8. *Promotion of e-learning for maritime transport industry professionals focusing on seafarers;*
9. *Development of information, knowledge and entertainment sharing facilities for seafarers;*
10. *Promotion of communications infrastructure solutions providing versatility, fast response and high integrity for ship-shore communications*
11. *Promotion of technologies that allow seamless communications across diverse communications media and protocols*



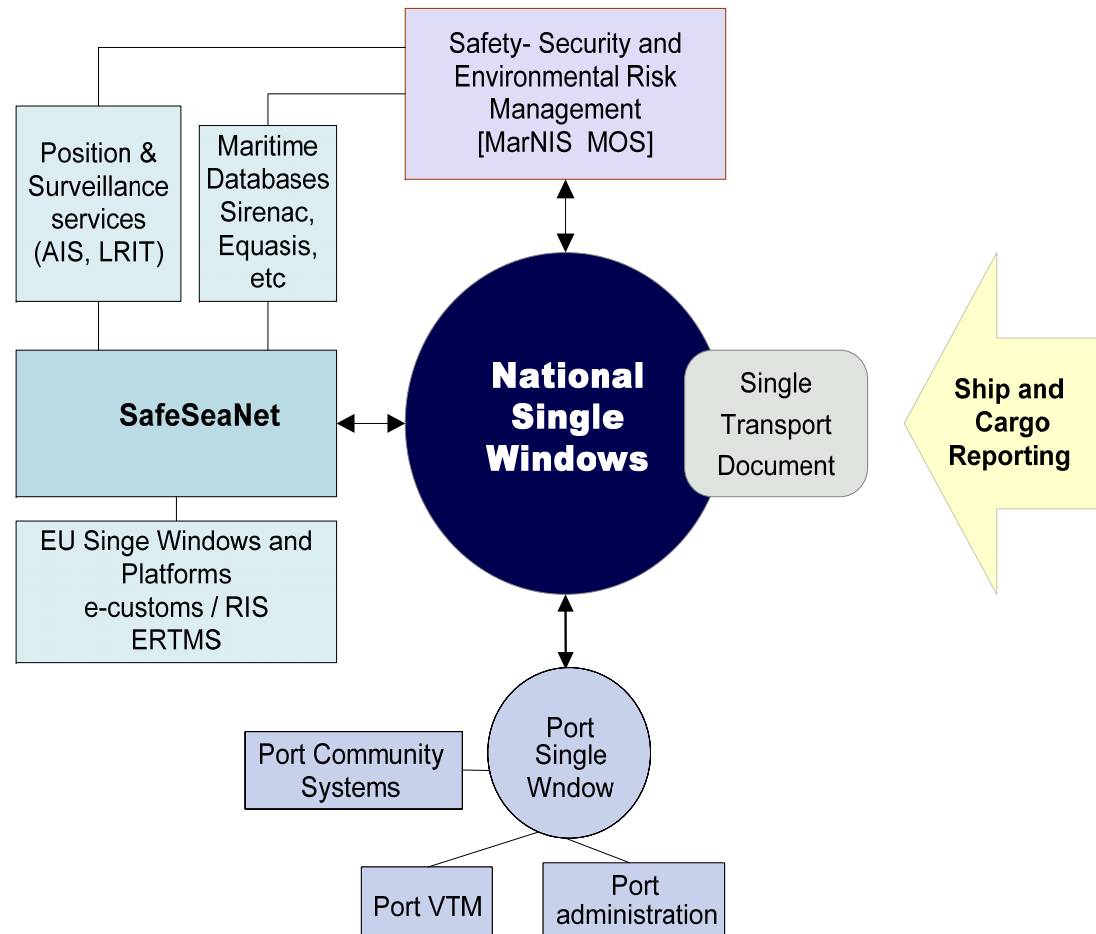


## e-Maritime concept

- *A virtual network in an electronic environment based on open platform and standards to ensure interoperability between different maritime-related applications*
- *This network should enable administrative and commercial communications between ships, between ships and shore, including port communities, administrations, operators, freight forwarders and other hinterland actors*

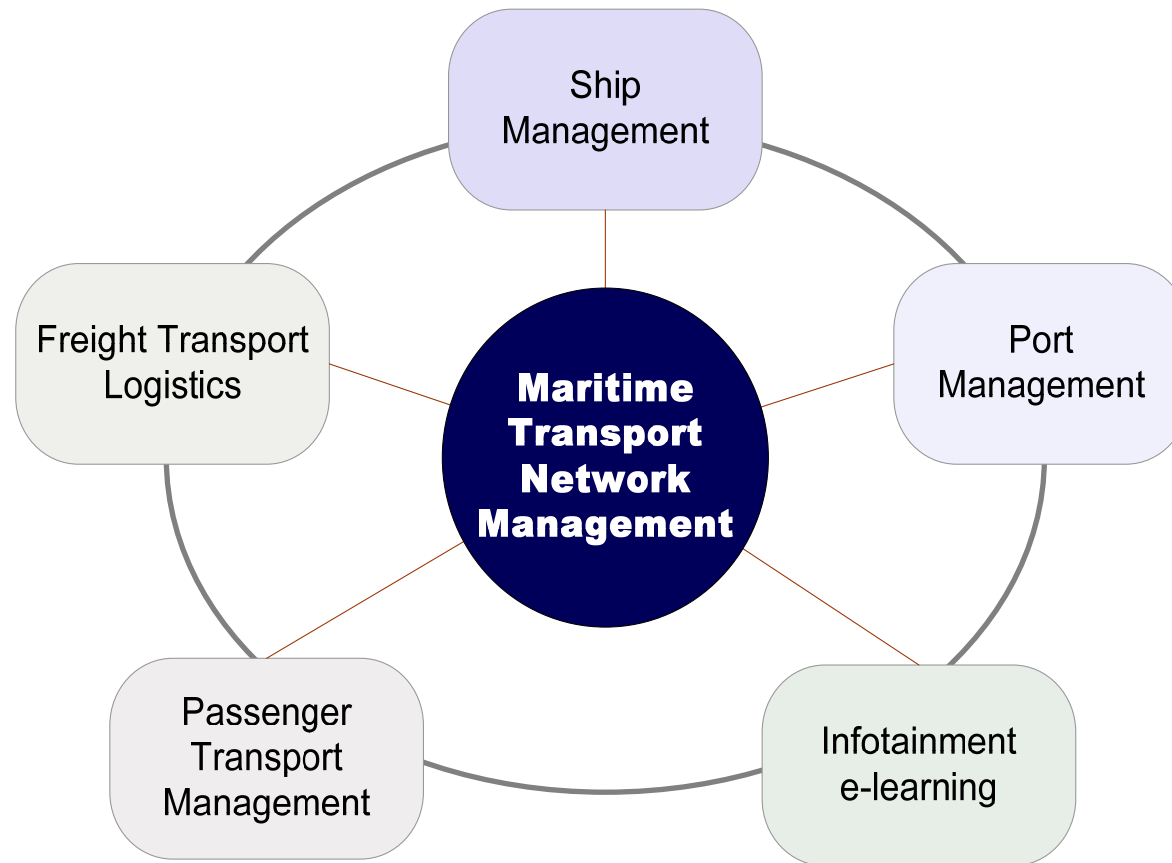


# A2A/A2B e-Maritime Applications - example





## B2B e-Maritime Applications - example





## The EU e-Maritime proposal

- *The EU initiative will be a framework that assumes common principles, applicable to a wider range of policies and adopting a modular approach facilitating innovation and flexible take-up by all actors*
- *The gradual developments of building blocks will encompass technical but also organisational and legal elements*



## e-Maritime aspects

- Confidentiality; security; integrity  
across organisational; legal and  
technical considerations
- **The e-Maritime basic components:**
  - e-services
  - interoperability platform
  - business and legal framework



## e-Maritime Baseline

- e-Maritime is not new. There are advanced systems in place
- Legacy systems must be respected
- Private, national and EU projects develop e-Maritime solutions
- EU projects are developing a comprehensive set of complementary architectural models for transport and logistics
- Other relevant e-initiatives



## Other relevant initiatives

- “**e-Navigation**” is the harmonised collection, integration, exchange, presentation and analysis of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and to protect the marine environment” IMO definition
- The “**e-Customs**” initiative aimed at providing a paperless environment for customs and trade by making Member States' electronic customs systems compatible with each other and creating a single, shared computer portal



## EU Freight Logistics Action Plan

- "e-freight" denotes the vision of a paper-free, electronic flow of information associating the physical flow of goods with a paperless trail built by ICT;
- track and trace freight along its journey across transport modes;
- automate the exchange of information for regulatory and commercial purposes;
- a Single European Transport Document for all transport modes enhancing the framework offered by multimodal waybills or multimodal manifests;





## e-Maritime next steps

- Opinions from the wider range of stakeholders
- Identification of key e-Maritime applications
- Vision, principles, targets and commitments
- Identification economic, social and environmental benefits and impacts
- Organisational, business, regulatory and legal issues
- Interoperability considerations
- Implementation strategies and roadmaps



## Questions for consultation

1. Comment on the definition and the objectives presented;
2. Identify the application areas in which e-Maritime should be focussed;
3. State the challenges and practicalities from your own business environment;
4. What could be the most important drivers for change?
5. How relevant is this initiative to the strategies of your organisation?
6. How one could establish a better understanding of the different practices between and across EU states?
7. Would you be interested to be involved and be consulted on this EU initiative?



## References

➤ **Maritime Transport Policy:**

**[http://ec.europa.eu/transport/maritime/research/index\\_en.htm](http://ec.europa.eu/transport/maritime/research/index_en.htm)**

➤ **Logistics:** **<http://ec.europa.eu/transport/logistics/>**

➤ **Integrated Maritime Policy:** **<http://ec.europa.eu/maritimeaffairs/>**

➤ **SafeSeaNet:** **<http://www.emsa.eu.int/>**

➤ **MarNIS (Maritime Navigation and Information Services):** **[www.marnis.org](http://www.marnis.org)**

➤ **FREIGHTWISE:** **<http://www.freightwise.info/cms>**

➤ **SKEMA:** **<http://www.skematransport.eu/>**



European Commission

Directorate-General for Energy and Transport

Maritime transport policy

*Thank you for your attention*

## References

***[http://ec.europa.eu/transport/index\\_en.html](http://ec.europa.eu/transport/index_en.html)***

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