



16th ITS World Conference, Stockholm 2009

SIS22 - A common approach to Maritime ITS

Tuesday 22 September 2009

EU e-Maritime Initiative and Maritime ITS

Prepared by: Christos Pipitsoulis, Maritime Transport Policy, DGTREN,
European Commission



What is the EU e-Maritime (1)

- “e-Maritime” = working and doing business in the maritime sector with the support of internet based applications (advanced electronic);
- the "EU e-Maritime initiative" will embody policies, strategies and capabilities facilitating the development of "e-Maritime" services
- in support of an efficient and sustainable waterborne transport system throughout Europe, fully integrated within the logistic chains



What is the EU e-Maritime initiative (2)

- The EU e-Maritime initiative is intended to be a broad and all-encompassing initiative going beyond pure maritime transport services; addressing customs, border, environmental, fishing control functions
- emphasizing the importance of the whole and the interdependence of the parts in any area of operations that is applied
- The e-Maritime initiative will take fully into account the international nature of shipping and will establish co-operation with international organisations concerned with maritime safety and security (e-Navigation)



What is the EU e-Maritime initiative (3)

- It will be implemented through a framework Directive that embodies legal, organisational, and technical frameworks (including Human Factors, Change Management, Standards)
- to enable maritime transport actors to seamlessly and effortlessly exchange information and improve the efficiency and quality of their services



An EU e-Maritime Framework (1)

- A framework Directive sets:
- ❑ The scope, context, definitions and the minimum requirements
- ❑ The general rules seeking the active encouragement of best ICT practices throughout the industry.
- ❑ The key application domains where competitiveness and performance can be strengthened and enhanced
- ❑ The objectives, structure and mandate for policy/technical bodies that would facilitate or undertake the development solutions and the regulatory framework to support them (through subsequent Directives).

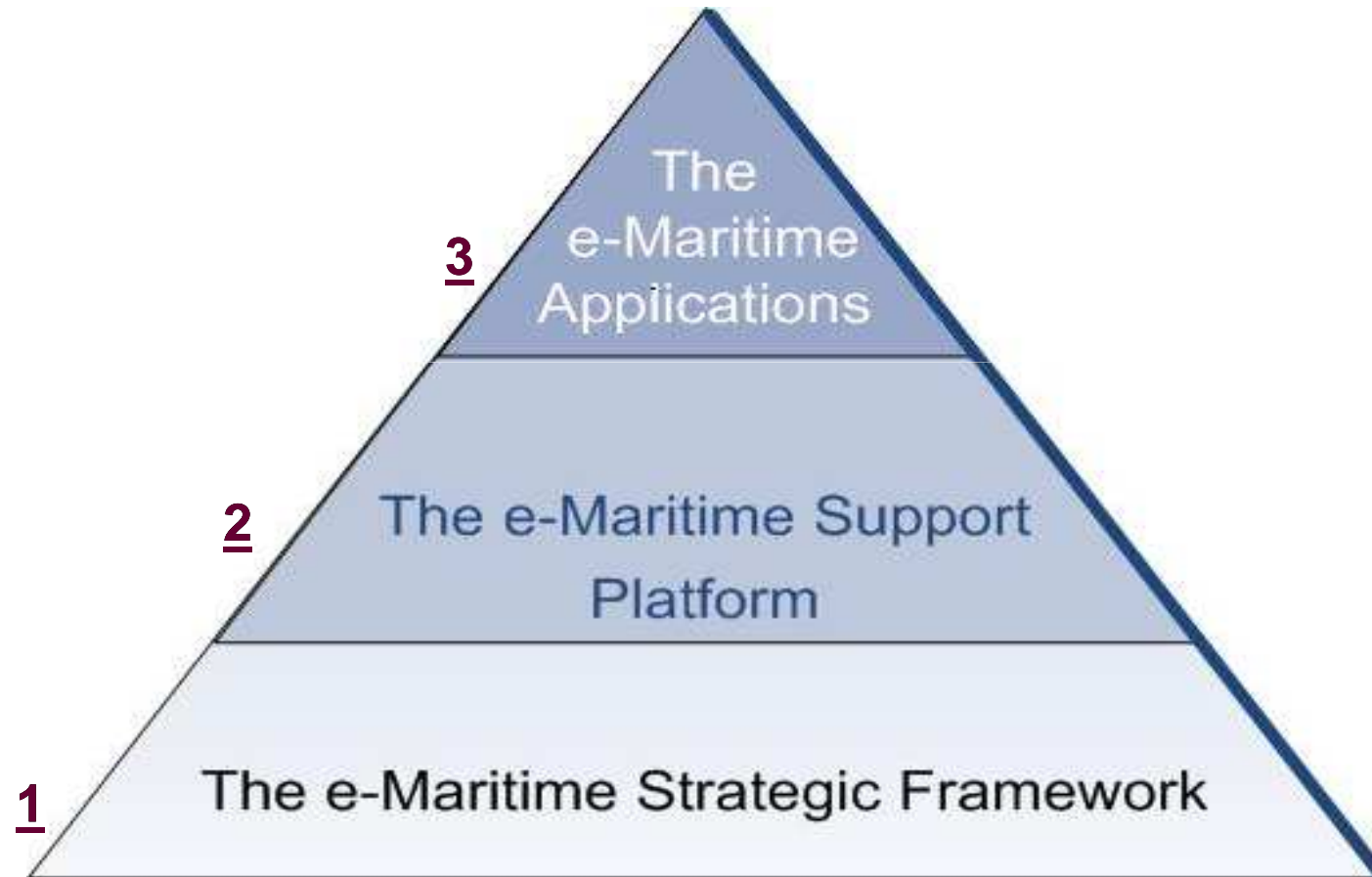


An EU e-Maritime Framework (2)

- Subsequent (daughter) Directives will link specific objectives, e.g. e-learning and improved working conditions with information management. The (only) aspects they have in common are:
 - ❑ the use of ICT for interoperability and integration within a broader scope of operations
 - ❑ and the potential to be included within a single framework Directive

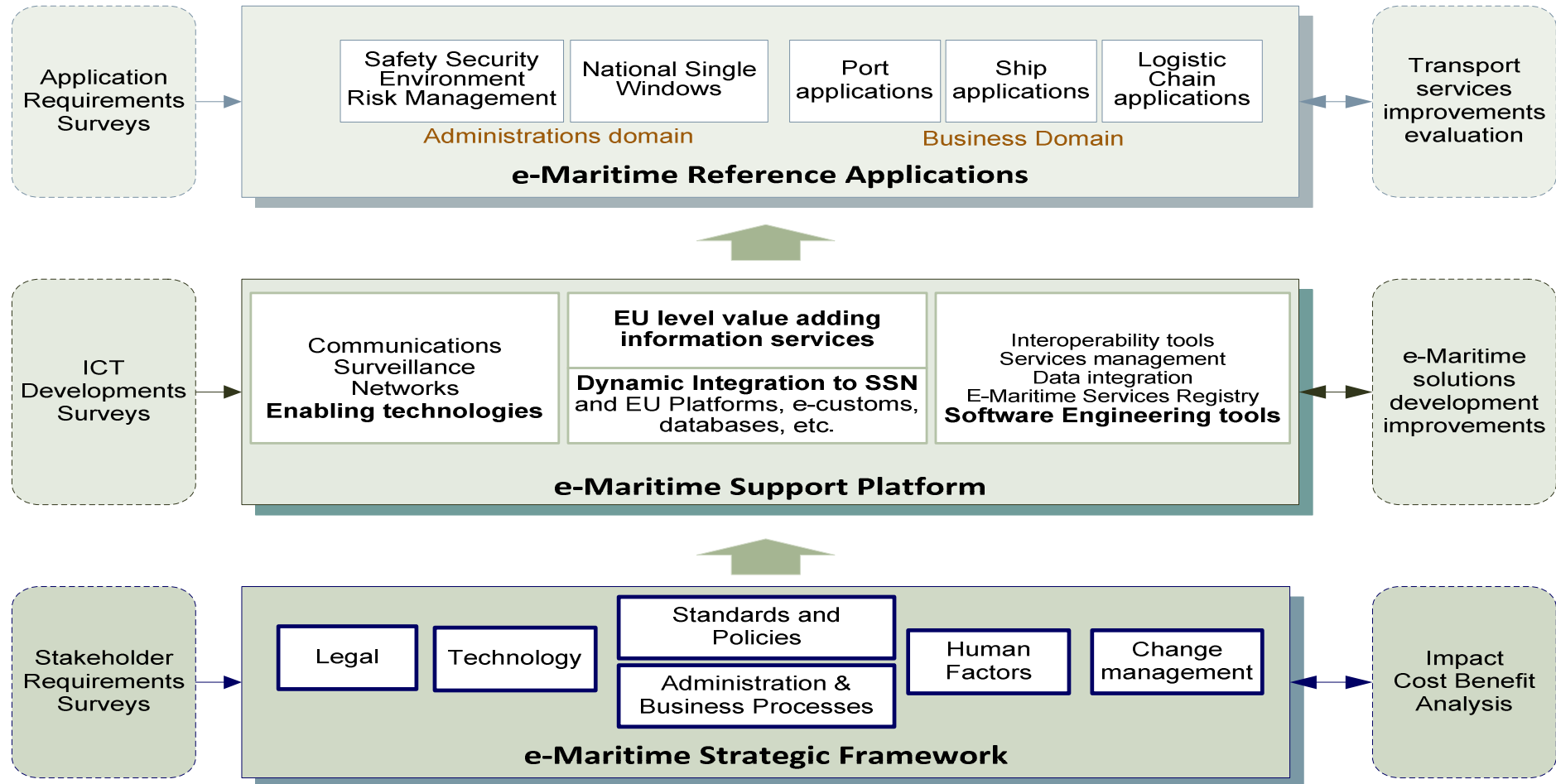


The EU e-Maritime components





The EU e-Maritime components





1. The e-Maritime Strategic Framework

- Will specify a coherent view of the way Maritime Transport could operate at a future date (say 2020)
- Reflects the framework directive on the key stakeholder requirements, basic principles to ensure interoperability (standards), policies, legal, technology, human factors, ongoing developments.
- To be completed by 2012



2. The e-Maritime Support Platform

- Enabling technologies: communication, navigation and surveillance networks
- EU value adding networks: SSN, databases, e-Customs, e-Freight
- Standards, ICT and software engineering tools for interoperability and integration of data and services
- facilitating the development and deployment of e-Maritime applications
- To be completed by 2015



3. The e-Maritime Applications

- demonstrating the potential benefits of e-Maritime in real life situations involving administrations and business across Europe
- grouped in main categories of operations where benefits can be easily appreciated.
 - Administration Domain Applications;
 - Improved Shipping Operations;
 - Improved Port Operations;
 - Integration into Logistic chains;
 - Promote seafaring profession and sea-shipping
- to be in operation by 2018



Administration Domain Applications

- such as National Single Windows for ship and cargo reporting integrated to SSN, e-customs and other mode platforms for integrated safety, security and operation and emergency management processes in EU coastal waters
- compliance to and enforcement of regulations and policy implementation
- EU system for the collection and sharing of data relevant to the compilation of maritime transport statistics



Ship Operation Applications

- improved automation in ship reporting
- resource management optimisation
- inspection planning and compliance monitoring
- proactive maintenance, remote technical support, interaction with classification societies
- monitoring CO₂ operational index – improved ship environmental monitoring and control



Port Operations Applications

- Port Community Systems
- Integration of Port Single Windows with national and international web portals
- Managing quality of data collection and automation of statistics reports
- Coordination of inspections
- Resource management, optimized movements of cargo, containers, passengers, equipment
- Integrated port security management



Logistic Chains Applications

- support integration of SSS into logistic chains with services that support the establishment of co-operating transport networks
- search and comparison of transport services and negotiation mechanisms
- monitoring and control of service quality
- influence the environmental footprint of transportation on key inter-modal corridors



Promoting Seafaring and Shipping Image

- Improving the image of EU Shipping
- Informing on the various professions in the maritime transport sector
- Applied e-Learning and training courses for carrier development both at sea and in land
- Communication and infotainments services for the well being of persons at sea
- e-Health at sea

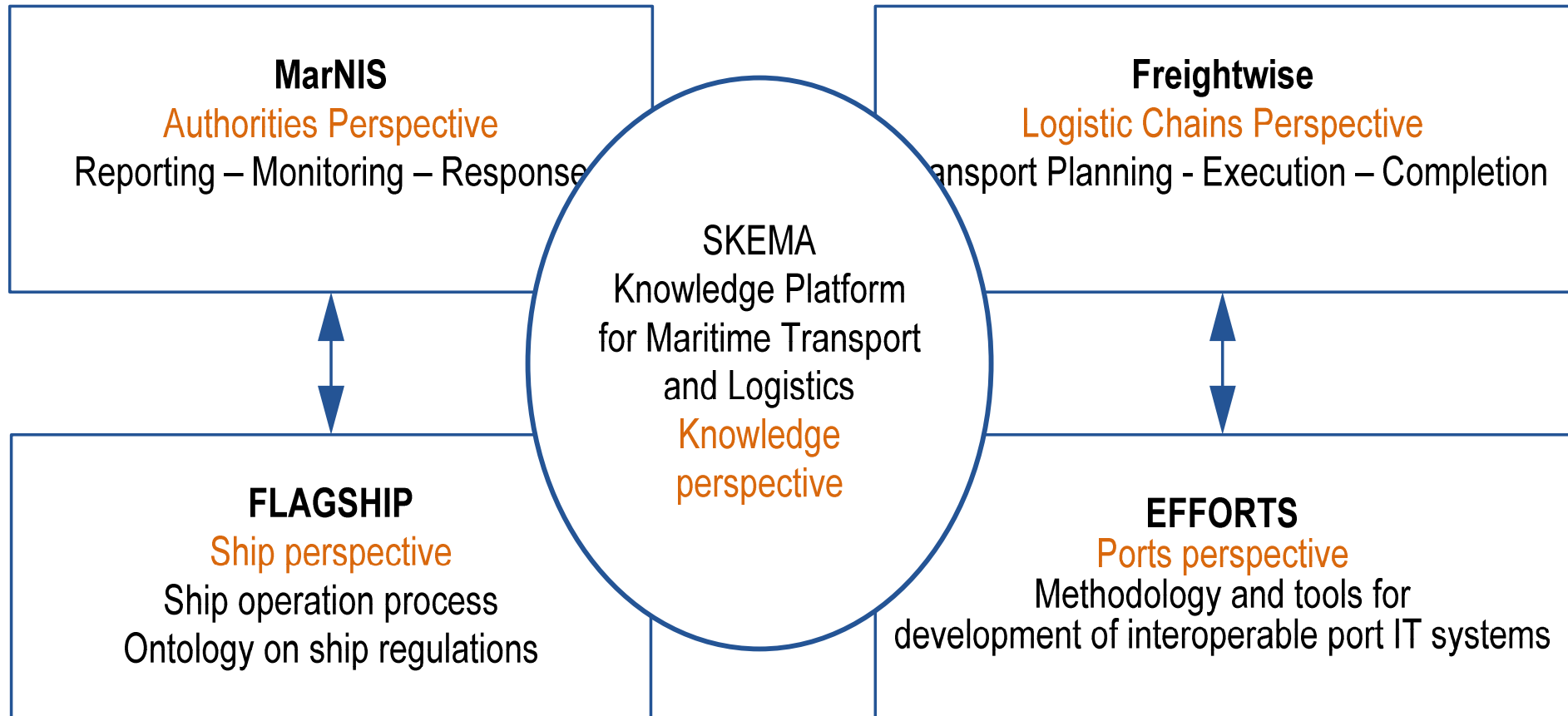


Related Developments

- Community Vessel Traffic Monitoring and Information System Directive (2009/17/EC, amending 2002/59/EC) and other directives
- e-Navigation
- e-Customs
- e-Freight
- Integrated Maritime Surveillance System - EUROSUR



Reference Projects





e-Maritime next steps

- Studies will elaborate on the different aspects of the Communication and the Directive; July – December 2009;
- Extended consultation will take place from September 2009;
- An Impact Assessment will be delivered early 2010;
- The draft Communication and the Directive including a roadmap will be ready for adoption by the Commission in 2010



Questions for consultation

1. Comment on the scope and the approach presented;
2. Identify the potential risks for this initiative;
3. State the most important drivers for change;
4. State the aims in which e-Maritime should be focussed from your own business perspective;
5. Identify alternatives for achieving “e-Maritime” aims other than the presented approach;
6. How one could establish a better understanding of the different practices between the different EU actors?



References

- **Maritime Transport Policy:** http://ec.europa.eu/transport/index_en.html
- **Logistics:** <http://ec.europa.eu/transport/logistics/>
- **Customs:** http://ec.europa.eu/taxation_customs/taxation/index_en.htm
- **Integrated Maritime Policy:** <http://ec.europa.eu/maritimeaffairs/>
- **SafeSeaNet:** <http://www.emsa.eu.int/>
- **MarNIS (Maritime Navigation and Information Services):** www.marnis.org
- **FREIGHTWISE:** <http://www.freightwise.info/cms>
- **SKEMA:** <http://www.skematransport.eu/>



Thank you for your attention

dimitrios.theologitis@ec.europa.eu

Telephone ++32 229 95582

TÖGethé®
SINCE 1957