

THE FUTURE OF RIS

15th WEEK
12 – 17 June 2016, Prague

View points from the wheelhouse

Henk van Laar, representing EBU & ESO
Common Issues Meeting, Prague July 2016

Three Key Takeaways

1. Realize benefits of RIS for IWT by fully implementing (a revised) RIS Directive in all EU member states
2. Create incentives for member states to invest in RIS and swiftly implement it on their entire waterway network (support & enforce)
3. Ensure and prioritize the civil and economic privacy of stakeholders (data protection)



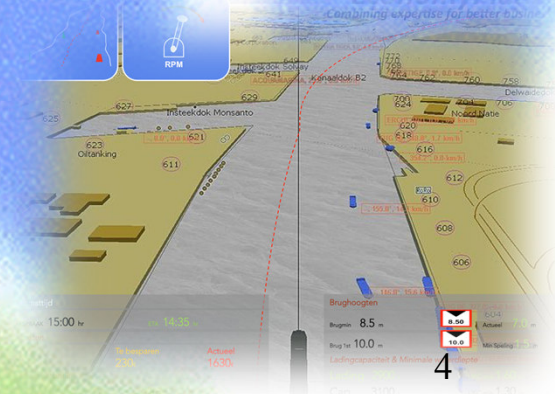
Content

- **Short Recap of RIS and IWT related IT**
- **Recent Technological Developments**
- **Benefits and Guiding Principles RIS**
- **IWT from an Operations and SCM perspective**
- **Suggestions for Future R&D, Pilots and IWT3.0**
- **DINA (and DTLF)**
- **Recap of Key Takeaways**

Recap of RIS and IWT related ICT



- Arrival mobile phone (1980's), rapid uptake due to ambulant nature
- Intro SMS and 1996 e-mail available to general public
- The end of the 90's saw the introduction of mobile internet
- Turn of the century: e-mail the most successful application in IWT
- Quality mobile networks does not always meet requirements IWT
- Netherland: network for WiFi in ports and locks
- Computers quickly became more fashionable on almost all vessels!
- Soon followed by applications in the wheelhouse like Inland ECDIS
- Integration of software in the wheelhouse (BICS and stowage appl.)
- A central interface i.e. 'office for IWT' is not yet available
- AIS/ECDIS carriage requirements by CCNR, carefree introduction
- However, unwelcome transparency due to illegal use of AIS
- Untapped potential remains?



SIGN OF THE TIMES

- Technological Change (exponential)
- Internet & Mobile Communication
- Disruption & Transformation
- Certainty of Uncertainty
- But also Unlimited Opportunity
- How to apply to Inland Shipping
- On the Threshold of a Revolution!



Moore's Law transistor change



General Trends ICT and IWT

- Arrival of many new devices (in addition to the desk top)
- Smart phone and tablet allow for many new applications
- Availability of such devices quickly rises
- Governments stimulate on going digitalisation
- Connectivity and 'digitalisation of everything'
- Internet of things turns into 'internet of ships'?
- How will the barge owner i.e. shipping company benefit?



Benefits RIS



- **Safety and calamity abatement (transparency)**
- **Reduction of manual input and quality of information (less errors)**
- **Efficiency traffic management and prevention repeat notifications**
- **Reduction administrative burdens (statistics and fairway charges)**
- **Opens doors to RIS enabled corridor management**
- **Support, promote and develop IWT as part of multi modal transport**



CoRISMa

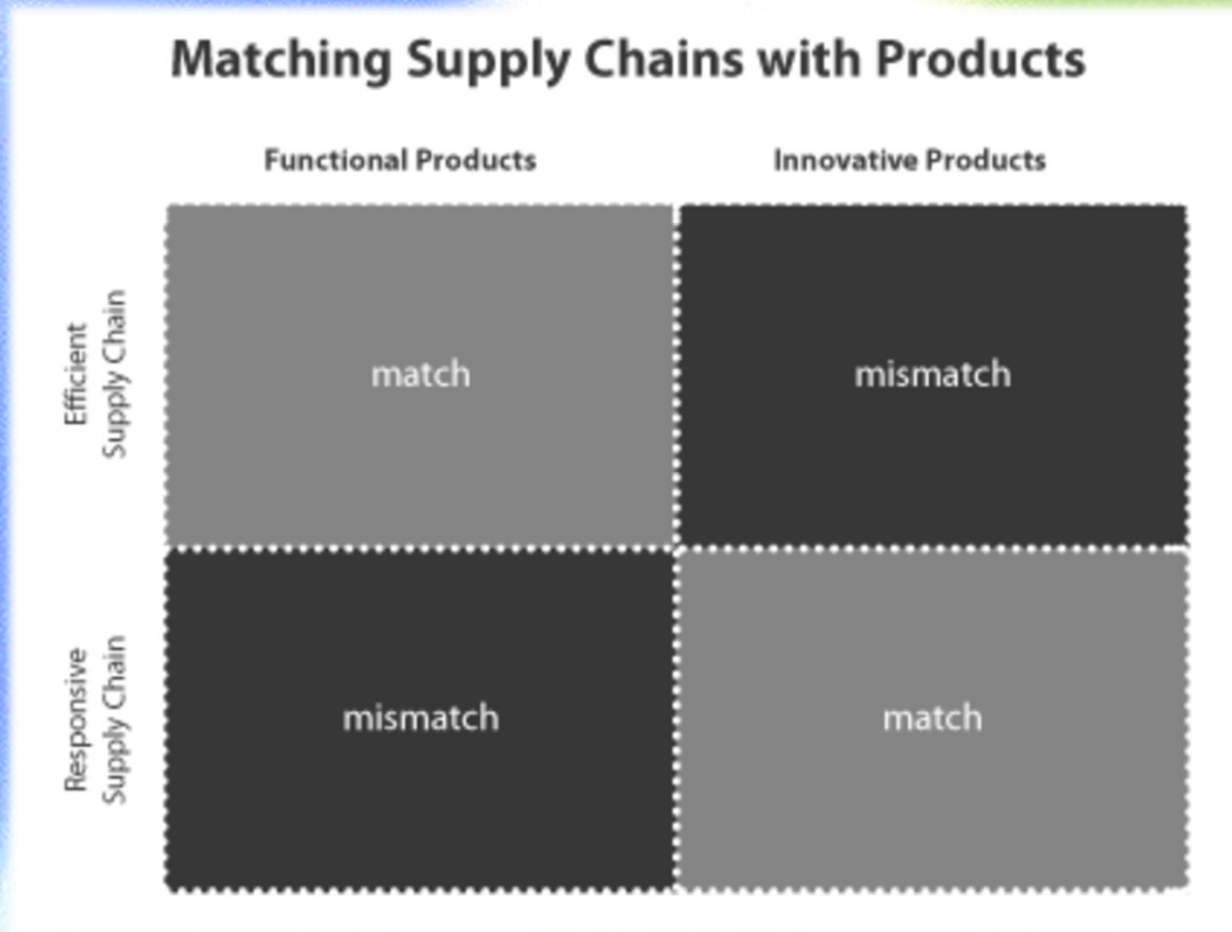
TEN-T RIS Enabled Corridor Management

Founders' Guiding Principles



- **Harmonized RIS on all fairways throughout Europe (one regime)**
- **One message only, during the entire journey**
- **Throughout Europe i.e. border crossing**
- **Information digitally provided to the skipper**
- **Reciprocity i.e. 'give and take' (fairway information – RIS)**
- **Gradual and voluntary introduction strategy**
- **Respect for the privacy of the skipper i.e. shipping company**

IWT from an OSCM Perspective



IWT => low margins and therefore strong focus on efficiency!

Customer-introduced variability

Due to:

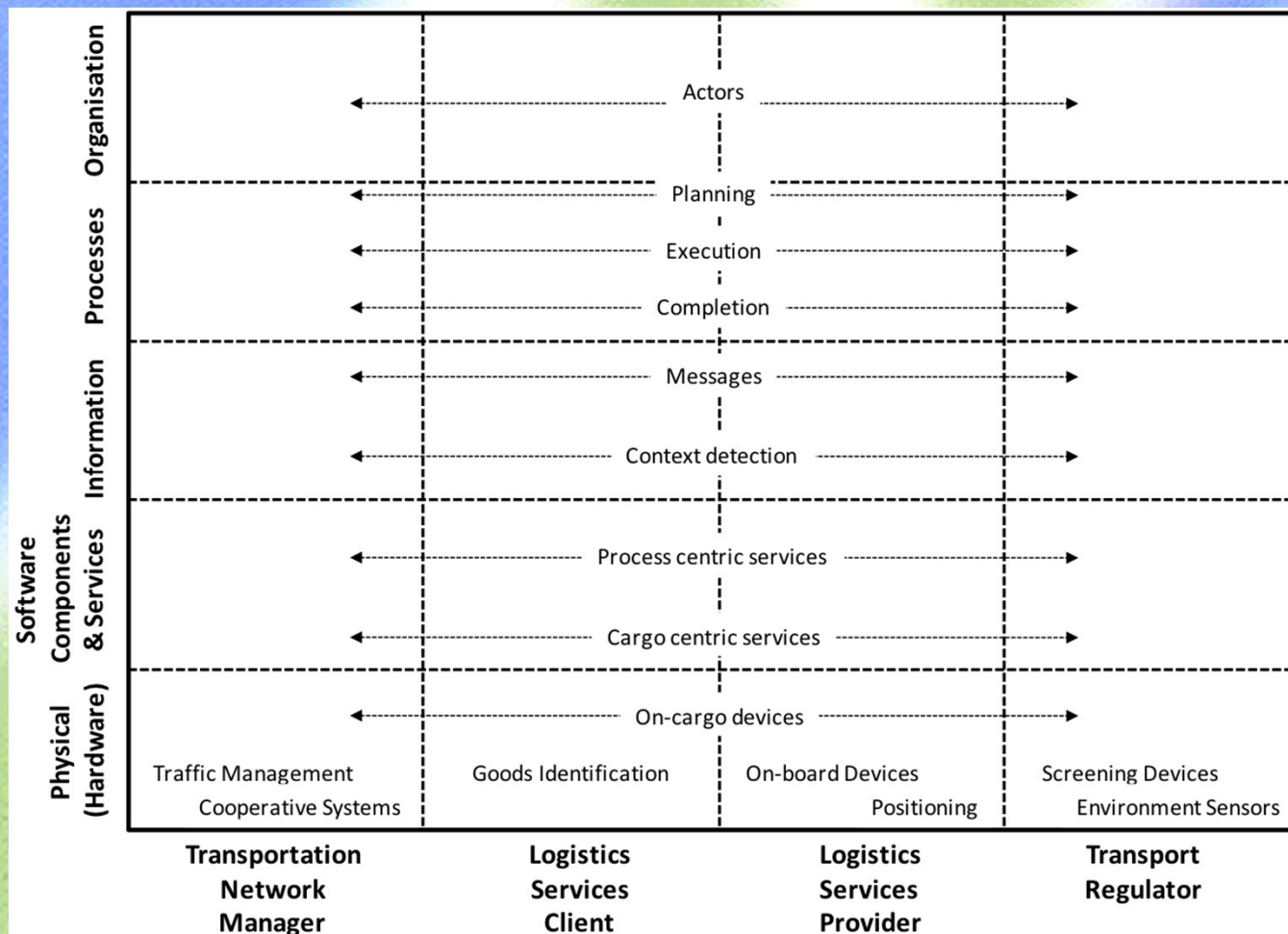
- 1.Arrival**
- 2.Request**
- 3.Capability**
- 4.Effort**
- 5.Subjective preference**

Creates disturbance and complicates effective and efficient planning along T&L chains and the fairway

How to accomodate and information needs?

Common Framework ICT T&L

- Stakeholders & process enablers & capabilities
- Inclusion of intermodal stakeholders in development



Avenues for Future R&D and Pilots



- **Planning & controle with AIS & VCM**
- **Analyse economic dimensions of lock planning**
- **Cooperative depth measurement (CoVadem)**
- **Transparency on quay utilization**
- **Electronic solutions for paying fairway dues**
- **Common policy for acquiring statistics**
- **Concerted approach for performance measurement and metrics**

Digital Inland Waterway Area

- Applying the Digital Single Market strategy in inland waterway transport
- **Goal: to improve the competitive position of inland waterway transport**
- By interconnecting information on infrastructure, people, operations and cargo
- By interconnecting different parts of the logistics chain / transport network: inland waterway transport (IWT), inland ports, maritime ports, road and rail
- By providing tools for operations and management, enabled by Intelligent Transport Systems (ITS)

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