A4 - CargoSwApp

# Summary of the innovation

# In the short-sea container market, the carriers face problems as low visibility and predictability of the transport demand, low customer loyalty and a high number of late transport booking cancellations, mostly due to lack of collaboration or access to information. This results in short time windows to find new cargo, extra work on re‐planning and sub‐optimal use of transport capacity. It is common that 30‐40% of cargo is cancelled close to the cut-off time. The CargoSwApp was developed to cope with these late cancelations and enable carriers to quickly react and find replacement. CargoSwApp also offers the possibility to assess each booking, and enable the carrier to anticipate cancellations, thus using overbooking in a more effective manner. By extending the scope of the CargoSwApp, functionalities for shippers have also been added: the possibility to search the marketplace via CargoSwApp and benchmark service offers at shipment level. CargoSwApp allows for immediate information exchange between shipper and carrier.

#  Key features / capabilities

* **Matchmaking (Shipper publishes transport demand):** The carrier receives the transport demand. The bid is sent directly from CargoSwApp. The carrier receives the booking status when the bid is accepted or rejected.
* **Matchmaking (Carrier searches the marketplace):** The carrier searches for transport demand and sends bids to fill up the ship and to find replacement for cancellations
* **Vessel capacity utilization chart:** CargoSwApp is used by the carrier to get an overview of the capacity utilization for each vessel, voyage and leg. The utilization chart links directly to a marketplace for sending relevant bids.
* **Anticipation of cancellation:** The carrier gets detailed information about all bookings, included probability for cancellation and the current status.
* **Benchmarking of bids:** The shipper reviews the bids from different carriers at one place.

# Maturity level (TRL - Technology Readiness Level)

* TRL 3 – experimental proof of concept

# Availability

* Conference paper / Publication:
	+ Rialland, A., & Hagaseth, M. (2014). Future Internet Based Services for Improved Transport Planning and Capacity Utilization. International Maritime-Port Technology and Development Conference (MTEC). Trondheim.
* Deliverable (project reports)
	+ FIspace Deliverable D400.5: Final report on trial experimentation and App development and updated plan for Phase 3 rollout, April 2015
	+ FIspace Deliverable D400.13: Domain-Specific Test Applications Final Release, July 2015
* Video demonstration
	+ Online video presentation of the CargoSwApp, developed by MARINTEK and SDZ
* Application:
	+ Access to application: <http://176.9.164.3/cargoswapp/>
* Information leaflet – Fish Distribution (Re-)planning trial description
	+ <http://www.fispace.eu/Documentations/Leaflets/fish-distribution-leaflet.pdf>

# Licensing

* Public domain (research papers)
* Closed source (prototype code)

# FIspace partner(s) that own innovation & contact points

* SDZ, DE - Patrick.Crucq@sdz.de, Mathias.Boes@sdz.de
* MARINTEK, NO - Marianne.Hagaseth@marintek.sintef.no, Agathe.Rialland@marintek.sintef.no
* North-Sea Container line (NCL), NO – arnej@ncl.no, eivind.bergland@ncl.no