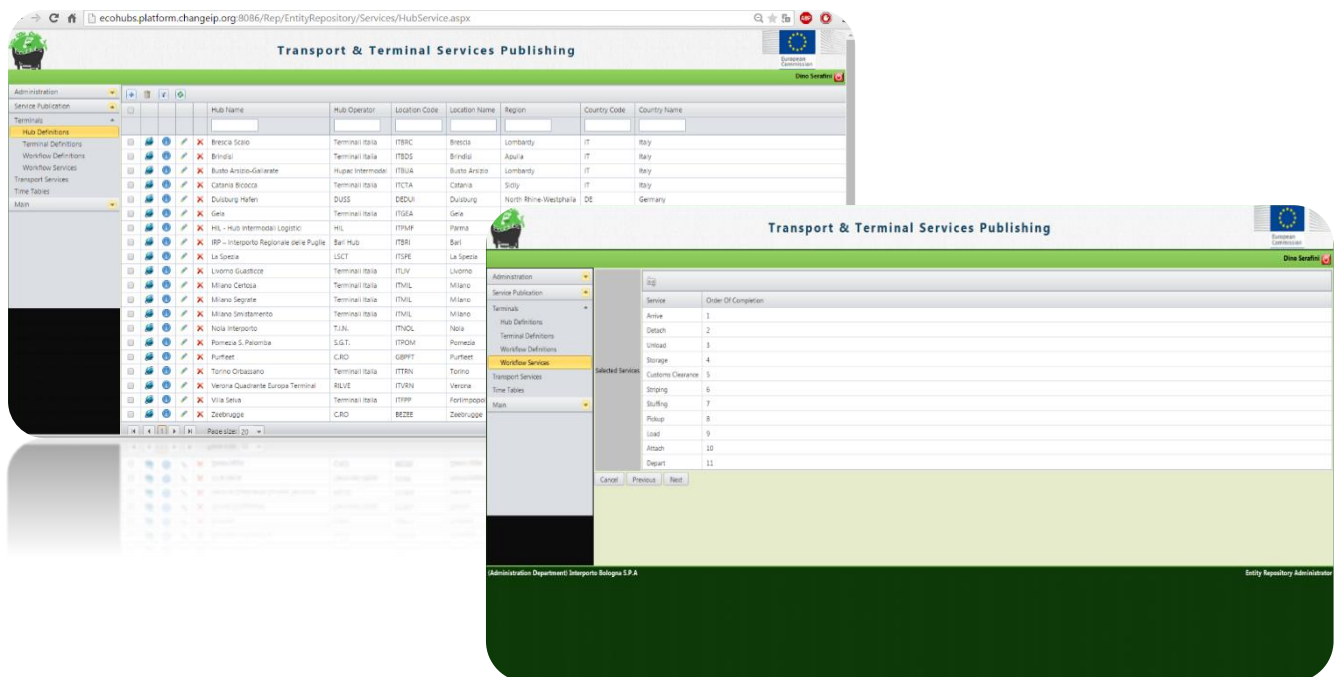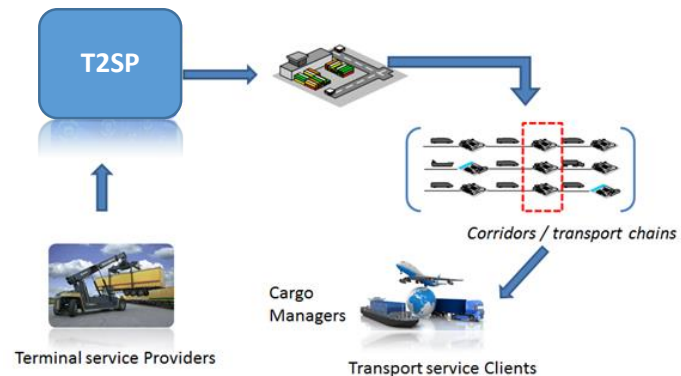# The BOLANO Tools

Innovative package to enlarge Intermodal Terminal role and business

The BOLANO Tools package aims to support the "terminals of the future" towards positioning them as dynamic and collaborative facilitators for the whole transport network.

The proposed applications can be used either independently or together to upgrade the quality of the processes and introduce added value services for the whole community towards terminals' increased competitiveness and market share

The T2SP application

Transport/Terminal Services Publisher is an open service for the dynamic and unified publishing of transport and terminal services from Terminal Operators and Transport Service Providers, discovery by Cargo Managers, updating of detailed terminal services in terms of time, cost and CO_2. The tool supports also the dynamic management of the transport chains.

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Functionalities

- **Publication of terminal services**, including operational services (loading, unloading, entry, exit, shunting etc) and administrative ones as well as supported modalities and cargo types.
- Association of terminal services with **cost, time and CO2 profile** values.
- **Discovery** of terminal by selecting from a predefined set of criteria. The user among others can search by terminals located within a geographical area, specific modality, cargo type, defined terminal operators and so on.
- **Subscription & notification services**, subscribers are fed with the most up to date information in a standardised way thus facilitating the prompt undertaking for possible corrective actions. Upon updating the service profile using either HMI or B2B integration, T2SP automatically provides related notification messages to all associated LSPs thus allowing them to assess the severity of the incident and act accordingly.
- **B2B Integration** for publication and discovery as well as managing subscription to terminal services. B2B integration supports standardized information (Common framework, Transport Service Description - TSD message) and communication mechanisms (Access points) as well as web services for fast discovery of data.
- **Human to Machine interfaces** (HMI) to allow both cargo managers and small terminals joining the system at no cost.

Benefits

- **Terminals**: publish their services in a wider network of potential users; upgrade their role in the transport chain by becoming an active partner who dynamically updates the services level.
- **Cargo Managers**: access complete terminal profiles in terms of services provision, time (operating hours, duration of operations etc), cost and environmental performance; assess the transport chain performance with emphasis on terminals selected, for decision making and future use; evaluate of re-planning options.
- **Shippers**: better service and just in time delivery of their shipments.
- **Transport Service Providers**: benefit from the transparency of the information for better planning and utilisation of their resources.

All BOLANO tools address current business potentiality restrictions and provide added value to collaboration prospects of the intermodal players towards lead time reduction through coordination, cost savings through load factor increase and environmental sustainability through co-modality.

Terminal Managers and interested stakeholders can implement the BOLANO Tools without any needs of disinvesting from existing applications and with limited costs.

For more information or a quotation, please contact

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