

How a Unified IT Ecosystem Allows the Port to Cope With the Growing Cargo Turnover and Effectively Interact With Other Participants in the Logistics Chain

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The Terminal Operating System Solvo.TOS allows to reduce operational costs of cargo terminal from 5 to 35% and to increase customer service level of the terminal



About Solvo

Who we are:

SOLVO is an international leading vendor of TOS, WMS and YMS solutions and systems integrator on the global markets.

We are a leading provider of high-end supply chain solutions to help and optimize the logistics and all cargo handling.



Our approach:

Not just development and implementation. We have the largest expertise in automating storage logistics and are ready to work on a turnkey basis, taking risks. We are a leading firm in providing quality and value to our customer.

Ready for new challenges. We take on the most complex and specific projects that are beyond the power of others.

Work for result. Any project that we carry out, we bring to the end.





26 years experience



24/7/365 support



5 offices worldwide



400+ projects



Business core areas



Solutions for ports and terminals

A leading Terminal Operating System for ports and terminals. An ultimate set of solutions for managing just any type of cargo: container, break bulk, Ro-Ro, general cargo, etc., including extra solutions as the VBS, AGMS, VGM.



Solutions for managing yard

YMS helps to manage all the operations at the yards, including allocation and storage of different types of cargo, housekeeping, reefer and empty containers management, CFS management etc. Providing procurement of gate-entry/cargo pick-up permits for truck-drivers, trucks and cargo forwarders/transport companies.



Solutions for warehouse logistics

One of the leading software providers of SCE software. Solutions range from WMS to WCS, Yard, Billing, KPI and more for all verticals: production, retail and distribution, 3PL and pharmaceuticals.



Consultancy in logistics and system integration

Logistics and Management consultants, including specializations for Project Management, Optimization, Engineering, Design and Procurement.

As well as training, seminars, webinars and other educational events.



Multinational brands - SOLVO customers









400+
projects





























Problems with the Growing Cargo Turnover

Problems with the capacity Where to put the cargo?

Problems with the productivity
Where to get additional equipment and labor

Problems with the efficiency
Why we have to make a lot of lifts and stowage

Problems with the control How to find the cargo at the yard



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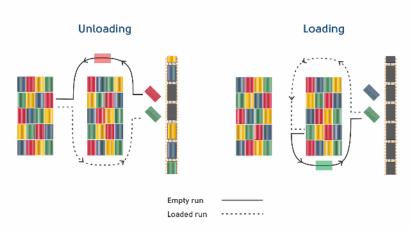


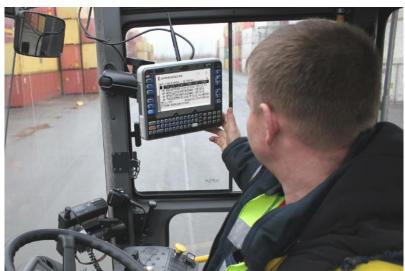
5% efficiency

That means if turnover of your container terminal is 1.0 M TEU per year you've got 50 000 STS moves for free

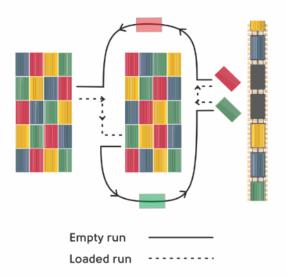


Example #2: Rail Dual Cycling





Dual cycling

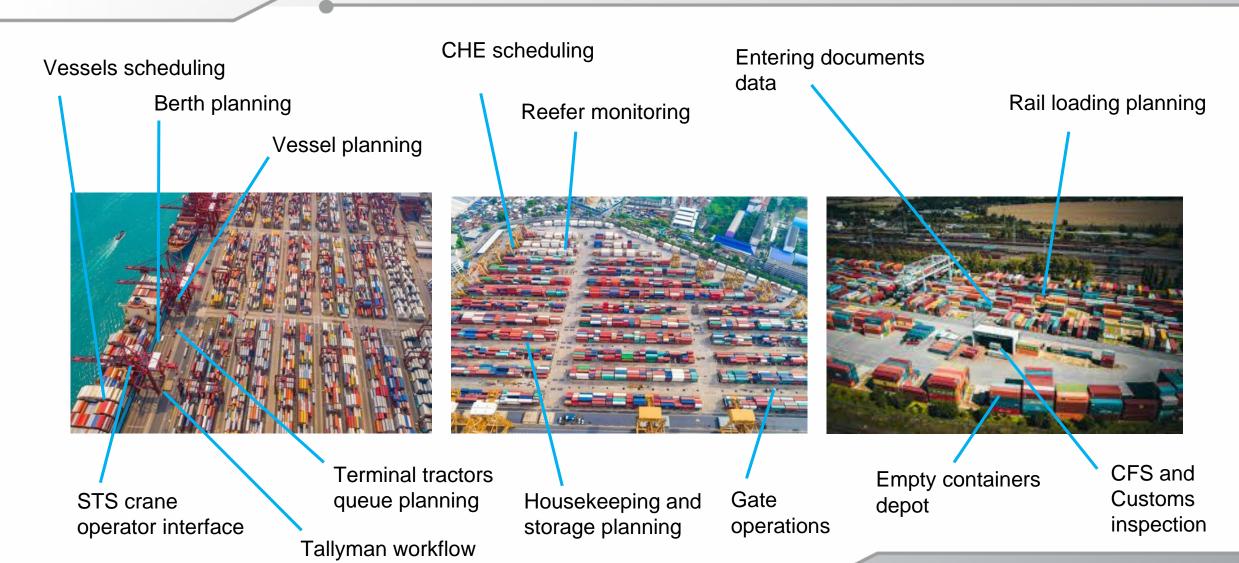


Save up to 40% empty runs





Where we could optimize? Everywhere!





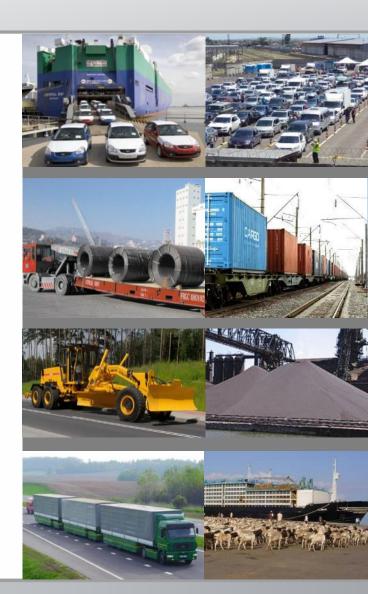
Why we are talking about unified ecosystem?

Solvo.TOS is able to handle a wide variety of cargo types, including:

- Containers
- Bulk goods (fertilizers, grain, pellets, etc.);
- Ro-Ro
- Goods packed in bags and boxes (cacao, sugar, rice);
- Construction materials;
- Sawn material, round timber;
- Metals (ferrous and non-ferrous);
- Food, including perishable food (meat products, fruits);
- Paper (in rolls and on pallets) and pulp;
- Metal waste, machines;

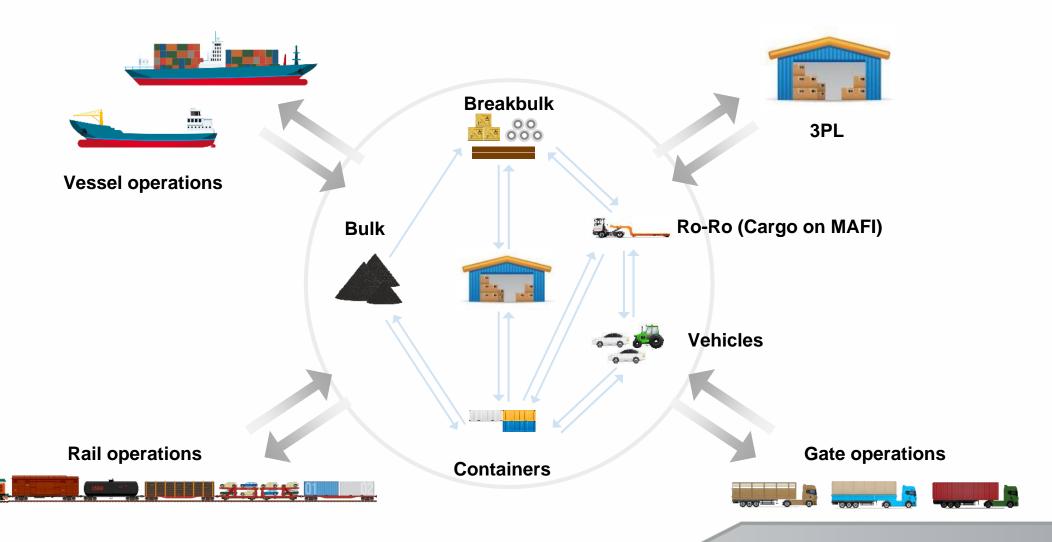
The system is creating for every cargo type dedicated business rules, with precise definition of what can be done with them, by whom and when.





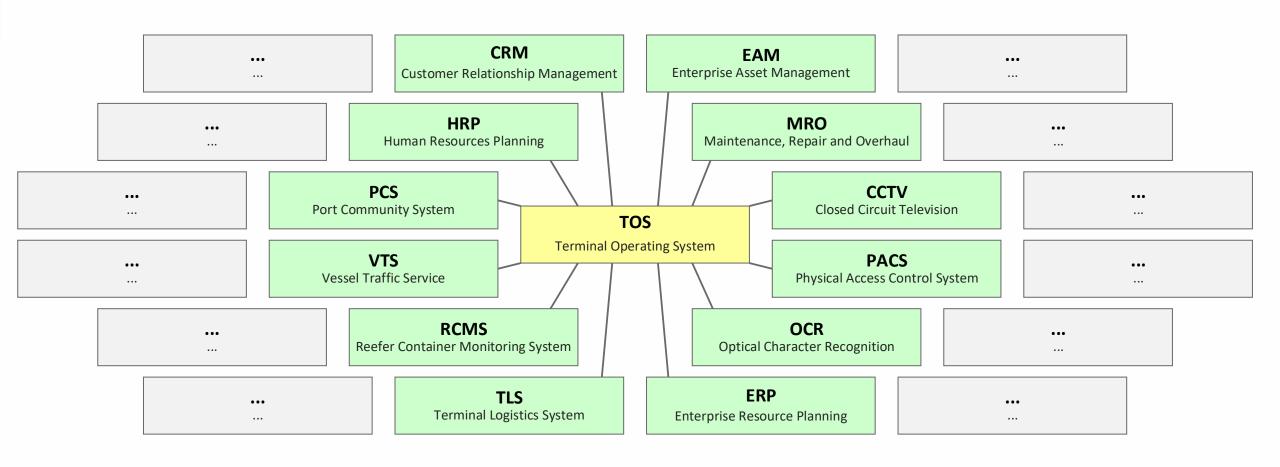


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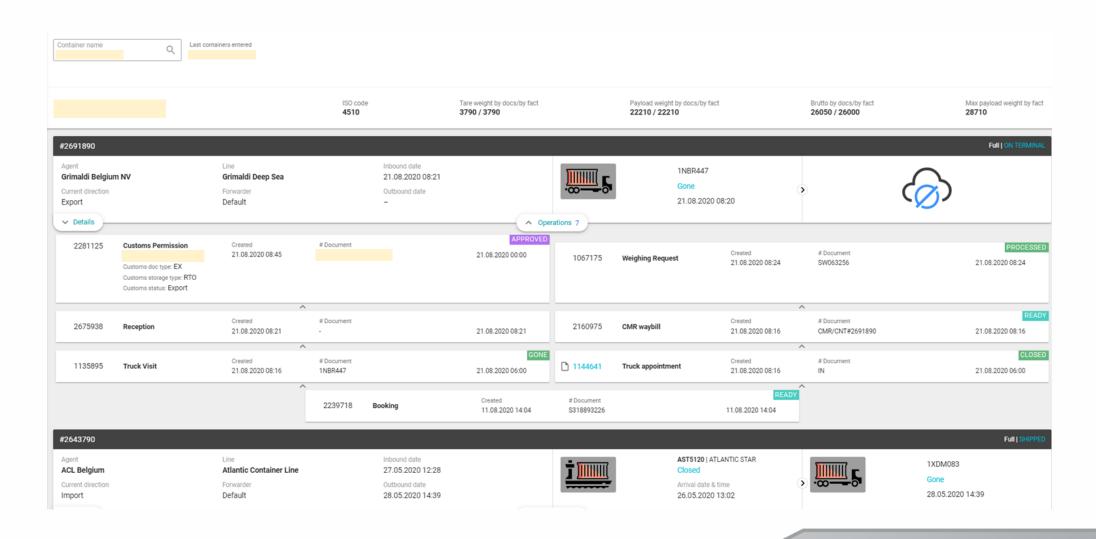


Why we are talking about unified ecosystem?





WEB portal





Solvo solutions portfolio

Solvo.TOS.Cargo

Containers, Bulk, Break Bulk and Ro-Ro, mixed cargo

- Ro-Ro
- Break Bulk, Bulk (fertilizers, grain, pellets);
- Goods packed in bags and boxes (sugar);
- Construction materials;
- Sawn material, round timber;
- Metals (ferrous and non-ferrous);
- Food, including perishable food;
- Paper (rolls, pallets) and pulp;
- Metal waste, machines;
- Warehouse inventory

Solvo.TOS platform

KPI Module

VBS Module

GOS Module

The system is creating for every cargo type dedicated business rules, with precise definition of what can be done with them, by whom and when.

Solvo.Yard

Palletized and piece loads

Solvo.WMS warehouse management



Implementation efficiency

Client services

Accelerated transport (truck, rail) processing at the terminal using preliminary data and time-slotting.

Enhanced customer-relationships with online, real-time data access.

Improved control with direct commands to vehicle-mounted radio data terminals.

Complete traceability with operator and CHE driver history logging.

Superior service quality for freight owners with up-to-date container information.

Operating costs

CHE optimization with predefined routes and proven stacking strategies.

Rational equipment labor utilization.

Elimination of unproductive moves, bottlenecks and decrease in empty runs and stowage errors.

Conservation of fuel and energy, reducing maintenance costs and increasing equipment lifespan.

Logistics

Streamlined and optimized mechanical processes involved in cargo flow at the terminal.

Complete control over cargo flow

Maximum space utilization, increasing from 5 to 20% (depending on area type).

Locate containers faster and with higher precision.

Optimized and pre-defined cargo stacking strategies to reduce reshuffles and costly moves.



