

Increasing efficiency through smart investments

at Port of Tallinn

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CCO/ Member of the Management Board



VISION:

Port of Tallinn aims to become **the most**innovative port on the shores of the
Baltic Sea by offering its customers the best
environment and development
opportunities.



PORT OF **(1)** TALLINN

Port of Tallinn aims to become the most innovative port on the shores of the Baltic Sea by offering its customers the best environment and development opportunities



Passengers

10.6 M passengers a year



Cargo

20.6 M tons a year



5 ferries: 2 MM passengers & 1 MM vehicles a year; Ice-breaker Botnica



Real Estate

Old City Harbour Development 16 ha Muuga Industrial Park 76 ha Paldiski Industrial Park 34 ha

Port of Tallinn opetares 4 harbours

2 passenger harbours

2 cargo harbours

Port of Tallinn operates as a landlord type of port with no cargo handling operations of its own.

It is maintaining and developing the port infrastructure and leasing territories to terminal operators.



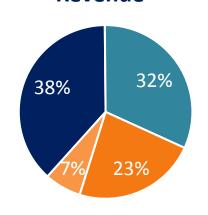
Revenue Structure & Main Customers

(2018)

Passenger harbours







Revenue





Other

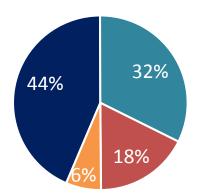


Botnica



Republic of Estonia

Adjusted EBITDA

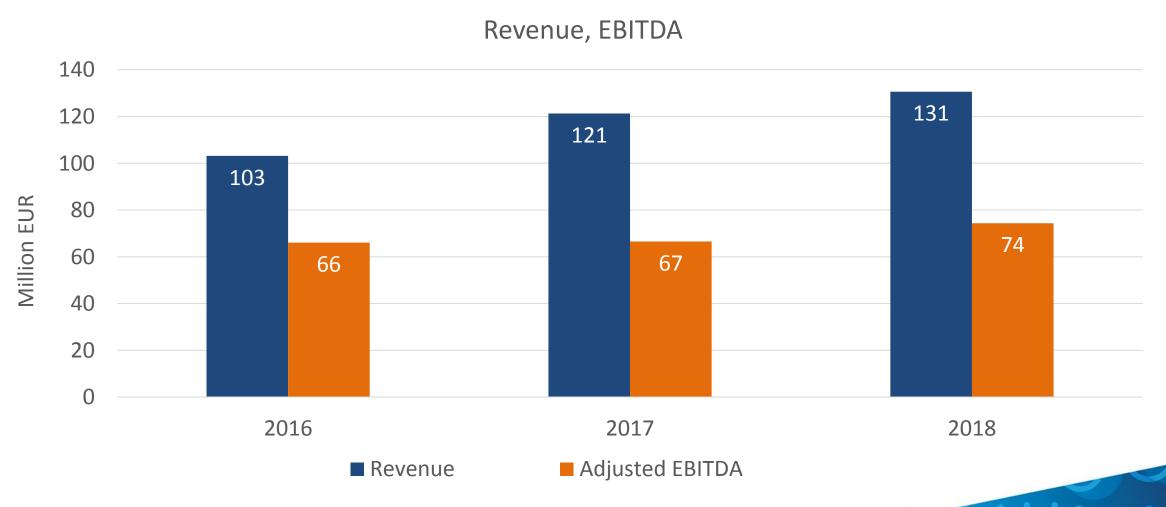




Cargo harbours



Results





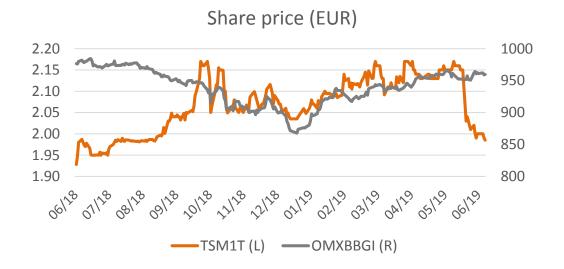


Trading of the share

First year on Nasdaq Tallinn SE

- Market capitalisation EUR 523 mln
- Listed since 13.06.18, 263 mln shares
- Free float 33%, i.e. 86.7 million shares
- Share price has traded up 17%
 (compared to offer price). Max EUR 2.18





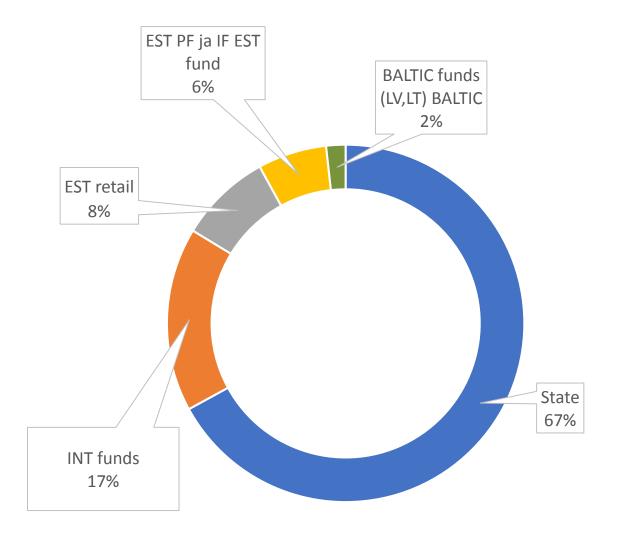


Turnover mEUR (right)

Volume (left)

Port of Tallinn

as a listed company on Nasdaq Tallinn



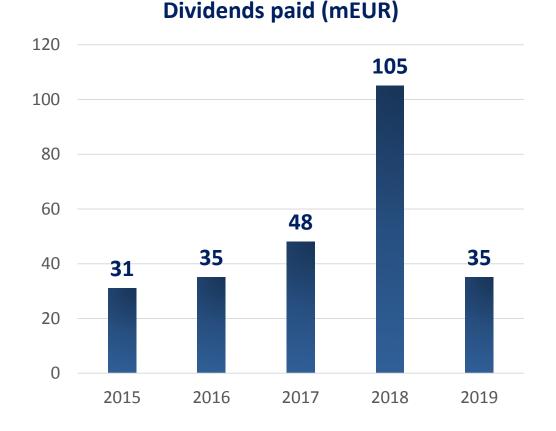






Dividend stock

Equity story



PORT OF (1) TALLINN The Port of Good News

- Expectations of the State as the majority shareholder for continuous stable dividends
- ✓ Stable EBITDA and cashflow

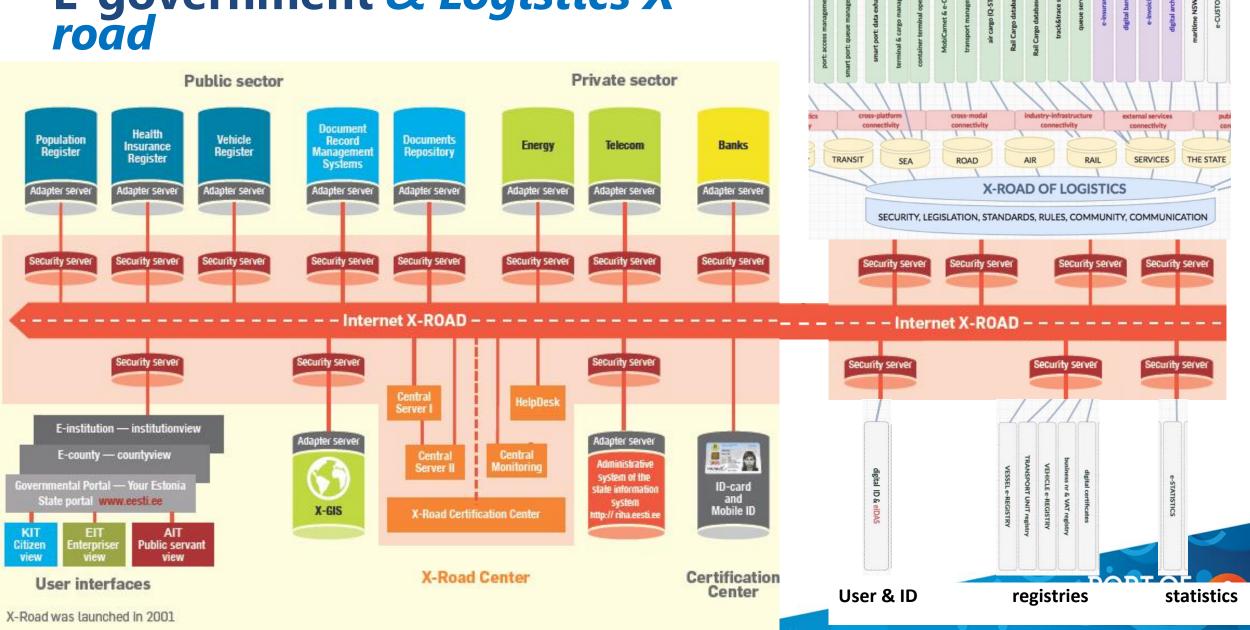
DIVIDEND POLICY

- Min EUR 30M annually in 2019 and 2020
- starting 2021 at least 70% of net profit

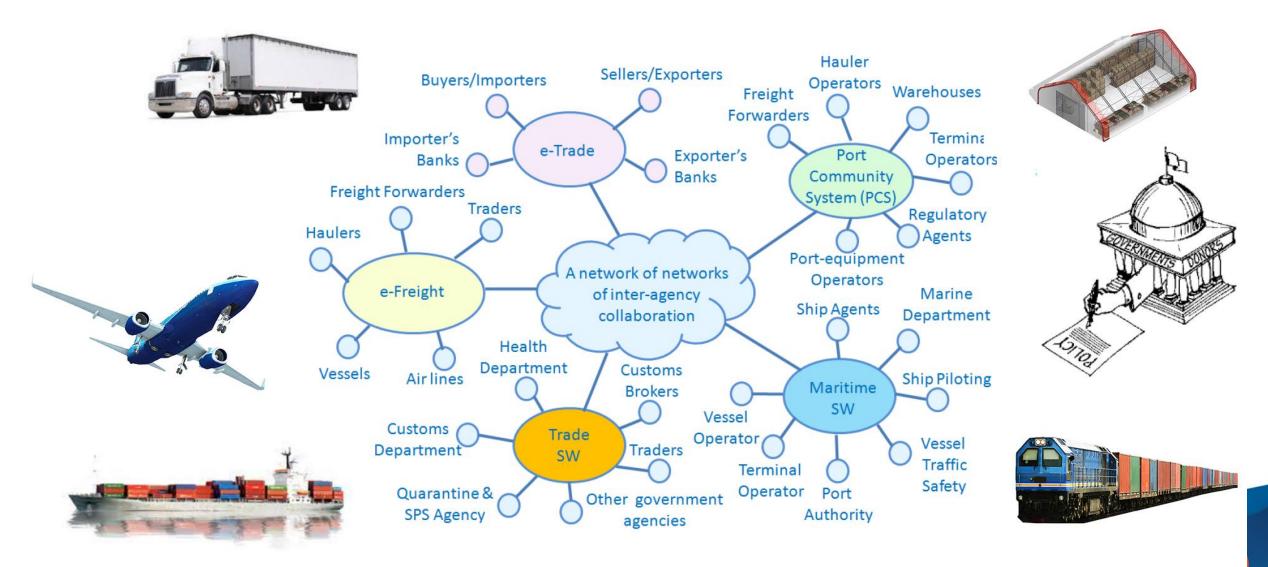
Dividend paid in 2019 EUR 35,242M (EUR 0,134 per share)



E-government & Logistics X-



Logistics X-Road & Single Window



A smart port is

AUTOMATED & DIGITAL

Fully automated operation from STS Cranes to AGV, using big data

LEARNING

Capture of data for analytics and predictive modelling

EFFICIENT

Optimised Port Of Call process coordinated with inland transport



SUSTAINABLE

Use of renewable energy Network of sensors to monitor environmental health.

INTEGRATED

Collaborative Decision
Making based on single
source of information

SECURE

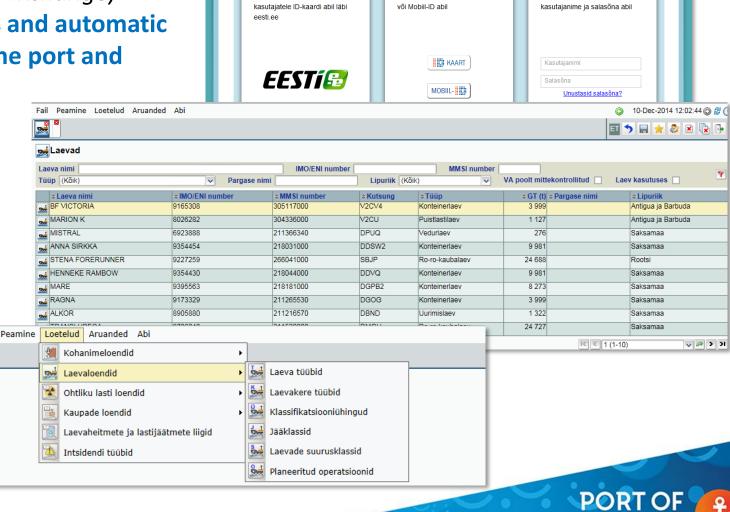
Coastal/border security
Cyber security



Maritime Single Window

EMDE (Estonian Maritime Documents Exchange)
 synchronization of data on ship visits and automatic
 transfer of uploaded documents to the port and
 relevant authorities

- Harbour Master's Department can carry out necessary EMDE procedures directly via the Port Management Program FlexPort
- Electronic data exchange works through web solutions and XML-messages. Also PDF-files are used as an alternatiive
- Launched in 2013, fully implemented for all ships in 2016



Elektrooniline mereinfosüsteem

kasutades ühte järgnevatest sisenemise võimalustest

Süsteemi sisenemiseks volitatud

Infosüsteem merendusega seotud teadete ja dokumentide koostamiseks ning edastamiseks osapooltele. Süsteemi on võimalik siseneda

Süsteemi sisenemiseks ID-kaardi

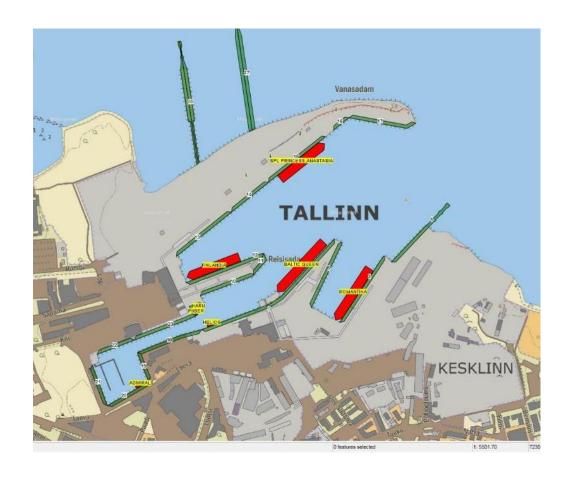
Süsteemi sisenemiseks

Port Administration *Program*

- FlexPort port management program, which is based on enterprise resource planning platform Microsoft Dynamics AX 2009
- Integrates operational data and financial records
- Due to integration of different data it's also possible to display ships' graphic placement in the port and get weather extracts
- In use since 2011

Also enables to:

- Register vessel calls and their operations
- Upload relevant documents to every call
- Calculate and issue invoices
- Get reports and statistics
- Integrated with EMDE (Single Window)

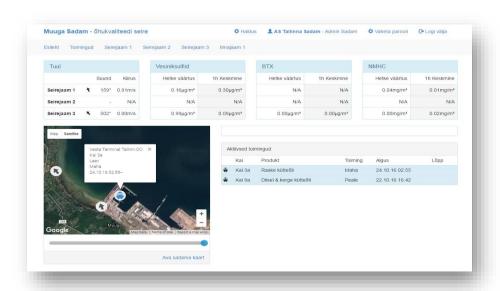




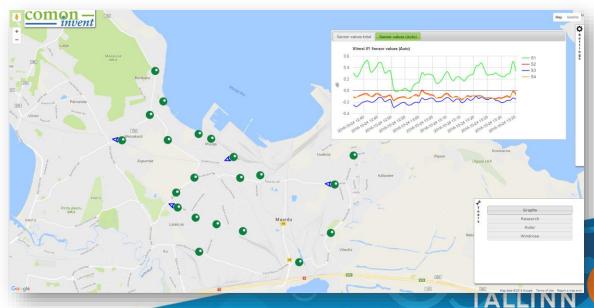
MAIRIS / e-Nose system

Monitoring air quality & detecting anomalies

- Reducing the risk of odour nuisance
- Detecting anomalies in air composition caused by the presence of reactive trace gases
- Getting updated info about the sources of anomalies – 24/7 online data, 1 minute frequency
- A Network of 20 eNoses
- In use since 2016









Memorandum of Understanding

Between 4 Ports concerning OPS

Port of Helsinki, Ports of Stockholm, Port of Tallinn and Port of Turku

4 ports agree to set a common approach for the new on-shore power supply:

- The Ports will provide new built connections with a voltage of 11 kV and a frequency of 50 Hz.
- The Parties will jointly encourage other ports and shipping companies to follow this initiative and recommendations concerning onshore power supply standards.
- The Parties will continue to work to minimize the negative effects on the environment of port operations and shipping in the Baltic Sea region.









OPS and Automooring

On-shore power supply –
cooperation with the Port
of Helsinki, Port of Turku
and Ports of Stockholm to
agree to provide in all
their ports on-shore
power supply for 11kV for
Ro-Pax vessels.

 Automooring – quick, efficient and safe





Rather unique,

automatic check-in system with

license plate recognition-solution

and port area traffic management

for the passengers with vehicles

at the ports with

single or multiple

ferry operators.



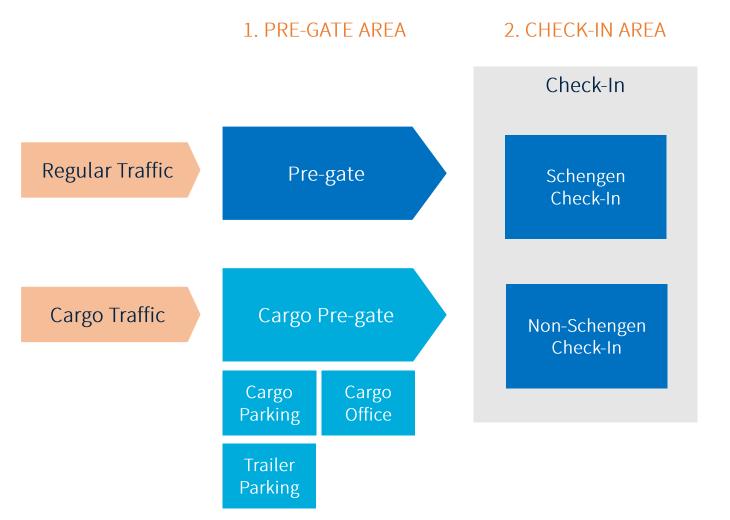
The Goal

is to minimize the time
spent in the port by providing a
fully integrated and allinclusive, easy to understand
service for passengers with
vehicles



- Shorten check-in time for the vehicles
- Better utilization of the port area
- Minimize port staff

Concept Overview of the Solution



3. BOARDING AREA



1. Pre-gate area

Vehicle Measurement & Recognition

2 gates – regular traffic and cargo vehicles

- License plate recognition (front and back)
- Dimensions (width, length, height)
- Weight (only at cargo pre-gate)
- Photo recording (photos are taken from front and back)

Personal driving directions given on information displays

- Before entering the pre-gate
- After passing through the pre-gate



2. Check-in area

Schengen and Non-Schengen check-in areas

Automatic check-in

- Number recognition
- Presence sensors
- Information displays
- Barrier gates

Manual check-in available for

- Unrecognized vehicles
- Oversized vehicles



3. Boarding area Collection & Loading

Lock

Guides vehicles to correct collection lines

Collection area

- Customizable information displays
- Traffic lights

Loading area

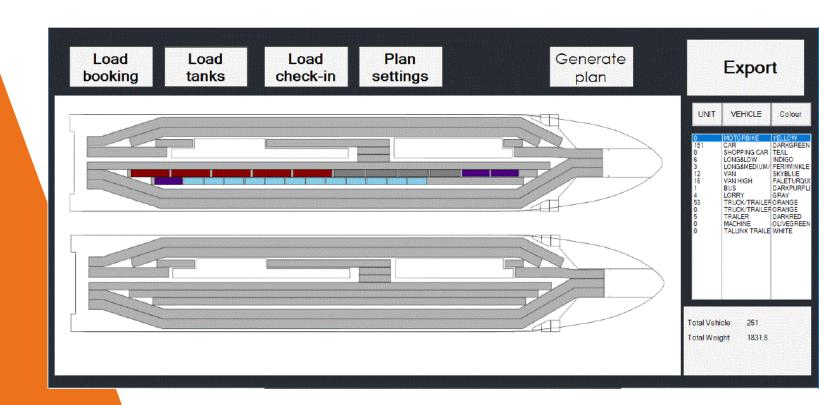
- Guiding displays
- PDA application for staff





Values for the operator

- Automated input for loading the ship
- Quicker loading of the ship
- Reduced waiting time at the port area for the passengers
- Improved travel experience



Values for the passenger

- Easy to use service
 - Check-in processes
 - Line management flow (gates, displays, etc.)
- Shorter waiting time on the port area
- Improved user experience



Values for the port

• Efficient use of the port area

 Shorter time spent to load and unload the vehicles to the ship

• Efficient use of the vehicle check-in points

• Less "useless" time for passenger to spend on the port area

• Clear traffic management at the port

Reduced CO2 emission

Tools for the port personnel to run the daily operations



Think Smart



Act Green







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