

The rise of TMT: a perfect match of innovation and growth of the North Italy container hub of Trieste

OPERATING SMARTER: THE CASE STUDIES

Rotterdam, 12th June 2018 - Session 14:45-16:00

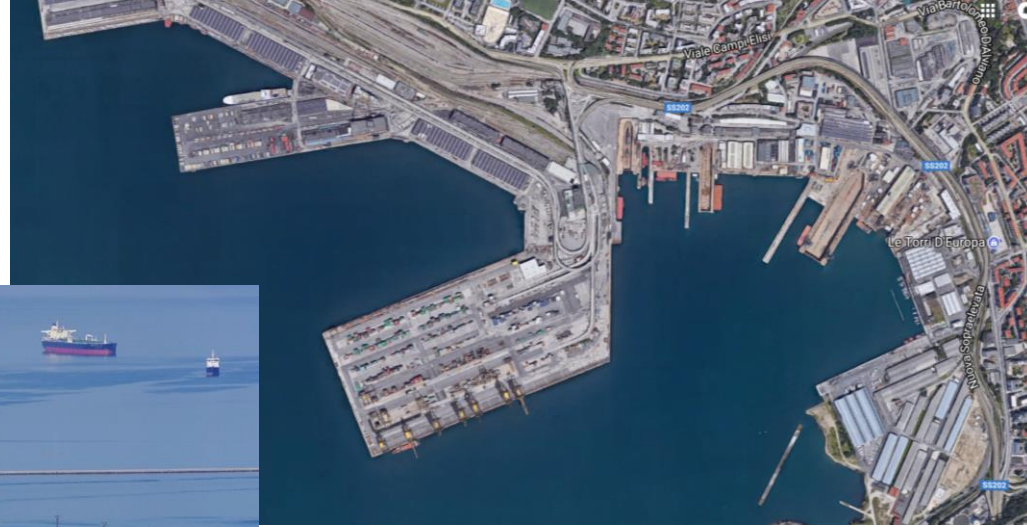


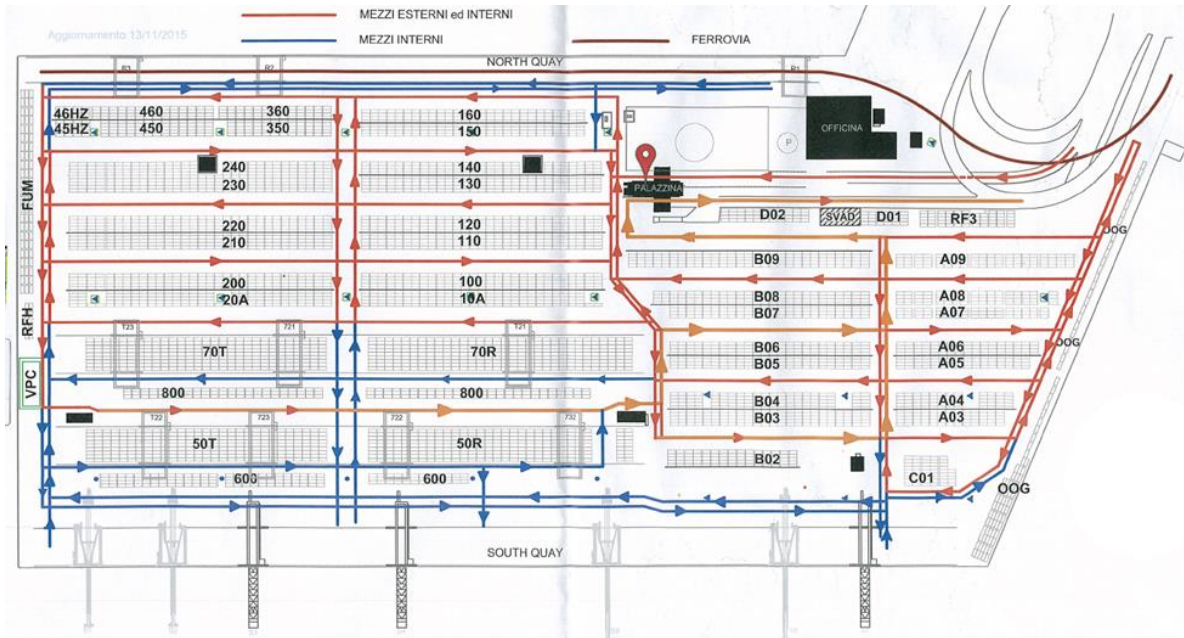
Marco Fehmer
DSP CEO



Roberto Menis
TMT General Manager







770 mt berth

400.000 sqm yard

18 mts natural draft

7 Post Panamax Quay Cranes

1 mobile crane

10 RMGs

12 RS

30 ITV

235 reefer plugs

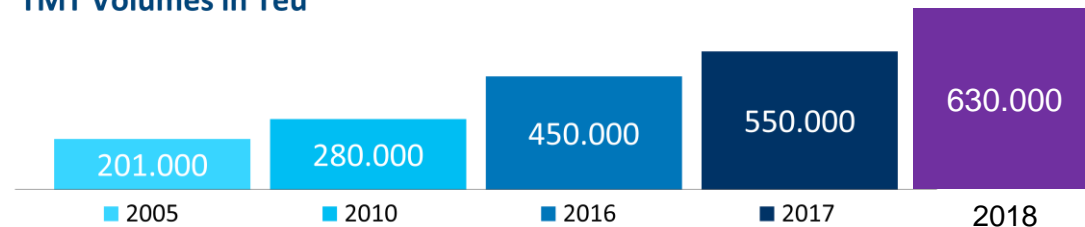
2500 sqm covered CFS

7.000 Trains capacity per year

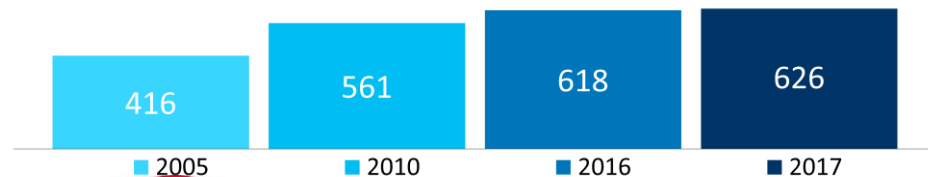
250 direct employees

The growing trend of TMT

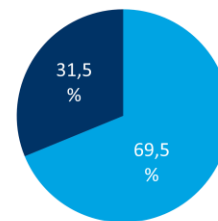
TMT Volumes in Teu



Vessels operated

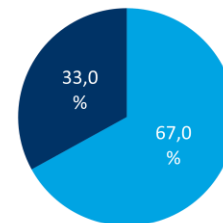


2015



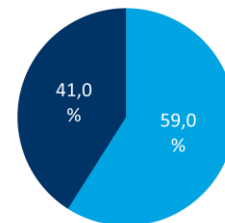
Truck 69,5%
Rail 31,5%

2016



Truck 67%
Rail 33%

2017



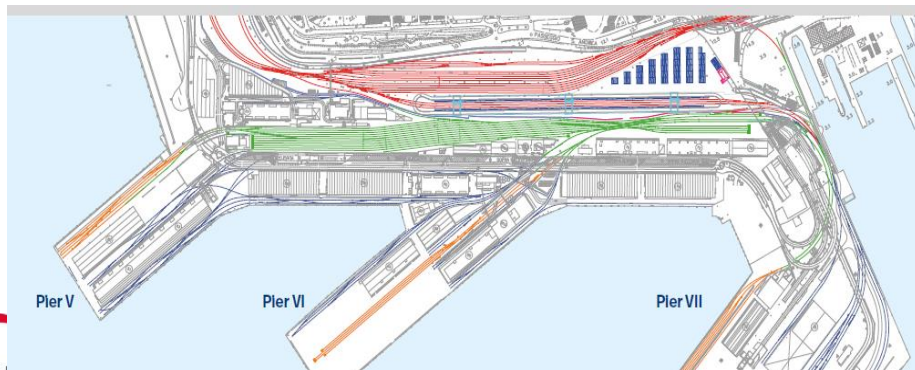
Truck 59%
Rail 41%

Intermodal facility

The rail infrastructure
inside the terminal

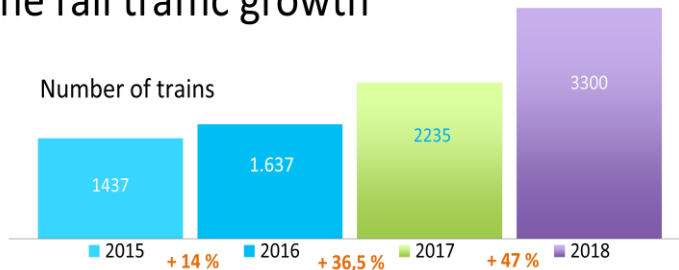
5 rail tracks by 600 meters each

2 dedicated cranes for operations

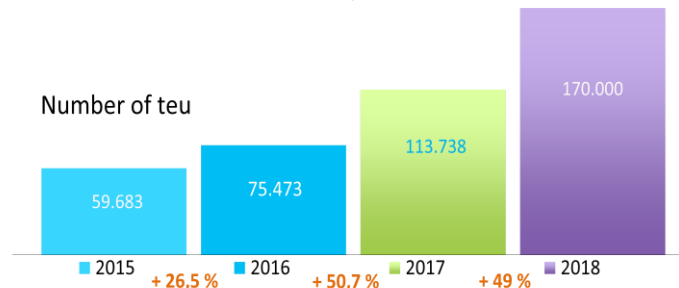


The rail traffic growth

Number of trains



Number of teu



PORT of TRIESTE rail shunting area - 2018

PRESENT UTILIZATION: 8.600 trains per year

CAPACITY: 11.600 trains per year (13.200 in 2019)

The intermodal network



HUNGARY

TMT BRANCH OFFICE (Budapest)

Budapest: 10-14 trains/week A-B

SOUTH GERMANY

TMT BRANCH OFFICE (Munich)

Munich: 5 trains/week A-B

Burghausen: 2 train/week A-B

Ludwigshafen, Koeln, Leipzig
connected via Munich

AUSTRIA

Salzburg: 2 trains/week A-B

Graz: 1-2 /week A-B

Villach: 7 trains/week A-A

Linz: 7 trains/week A-B

Wien: 7 trains/week A-B

Wolfurt: 7 trains/week A-B

SLOVAKIA (MSC dedicated)

Dunajská Streda: 3 trains/week A-B

CZECH REPUBLIK (MSC dedicated)

Ostrava: 1-2 trains/week A-B

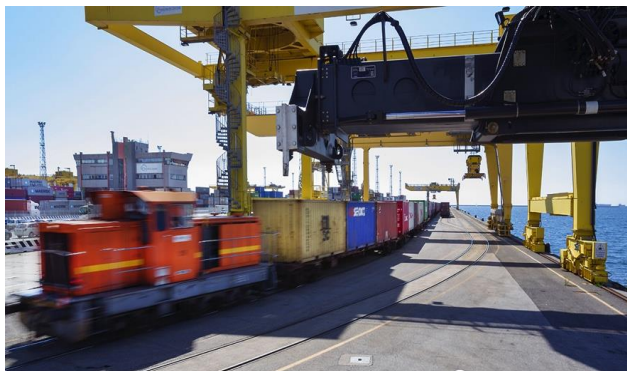
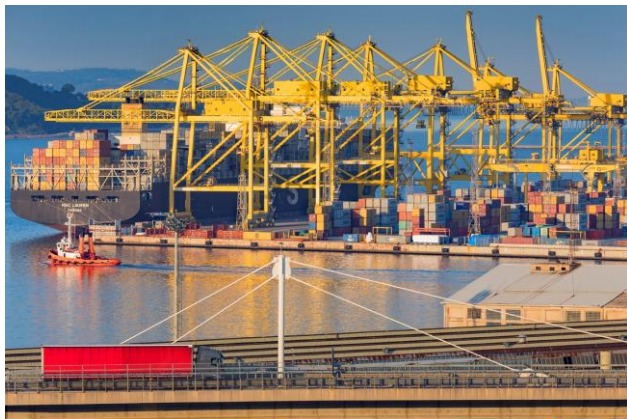
Paskov: 3 trains/week A-B

ITALY

Verona: 3 trains/week A-A

Milano: 2 trains/week A-B

Ready to grow



PREPARATION

- UPGRADING OF 4 STS CRANES (2015-2017)
- +12 NEW REACH STACKERS (2017)
- NEW T.O.S.: NAVIS N4 (2017)
- +78 NEW DIRECT WORKERS (2017)

2018

- SECOND TRACK FOR THE TRML RAIL GATE
- +25 NEW TERMINAL TRACTORS
- NEW STACKING AREA

2019

- UPGRADING OF 7 RMG YARD CRANES
- TERMINAL EXTENSION:
100 METERS LENGTH X 400 METERS WIDTH

Operating Smarter TOS Migration

Resource Optimisation

- Trucks Global Pooling
- Increase yard usage
- Optimise equipment

Digital Control

- Live Dashboard
- KPIs and reporting
- Integrated (*one source*) datamodel
- Billing based on **TDR**

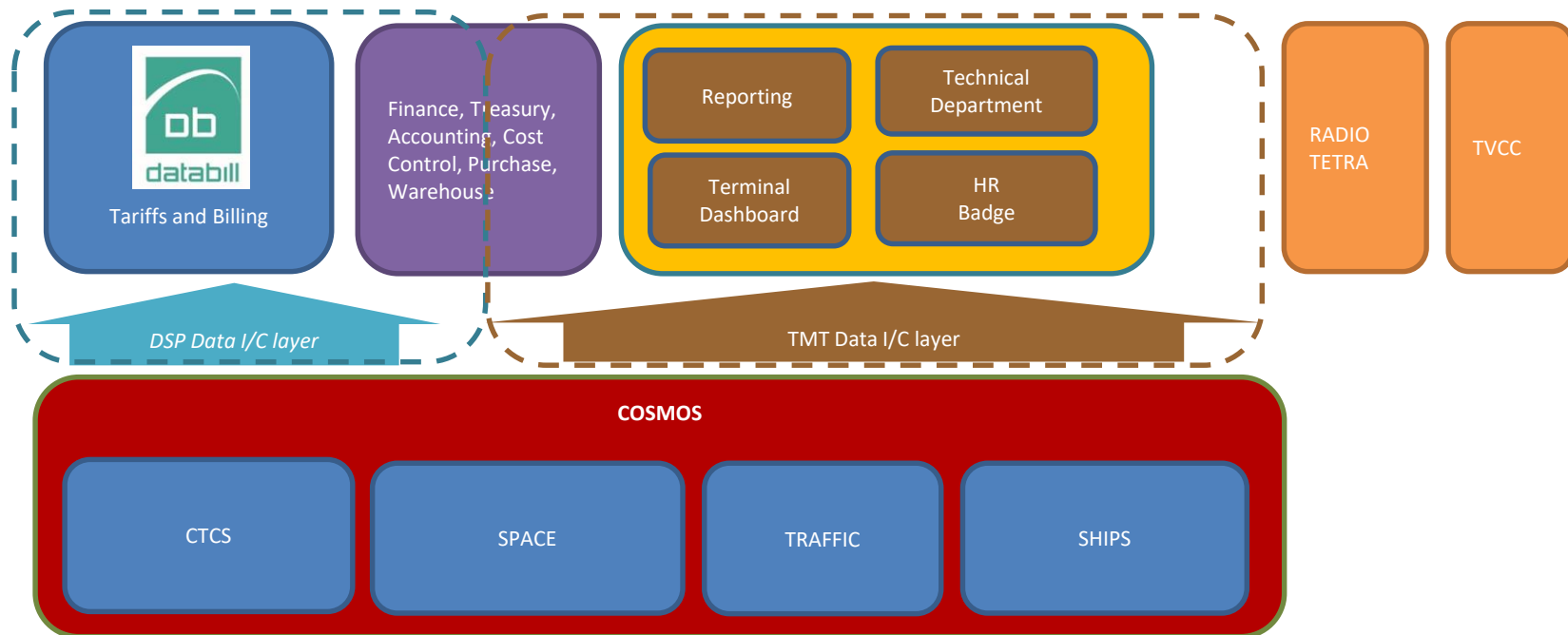
Organisation

- Control Room
- Terminal Planners
- IT department

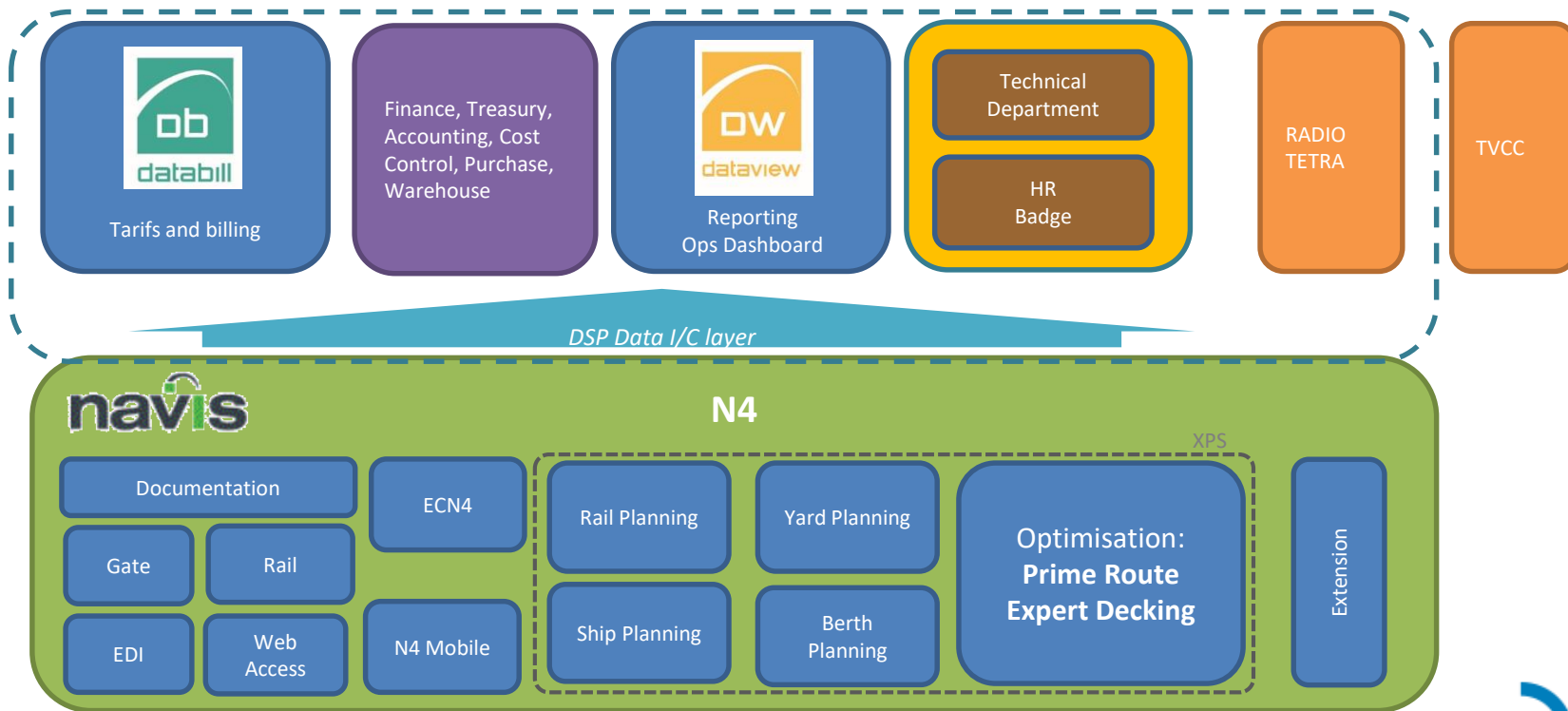
Process Flexibility

- configurable
- Open EDI
- Scalability
- Ready for automation

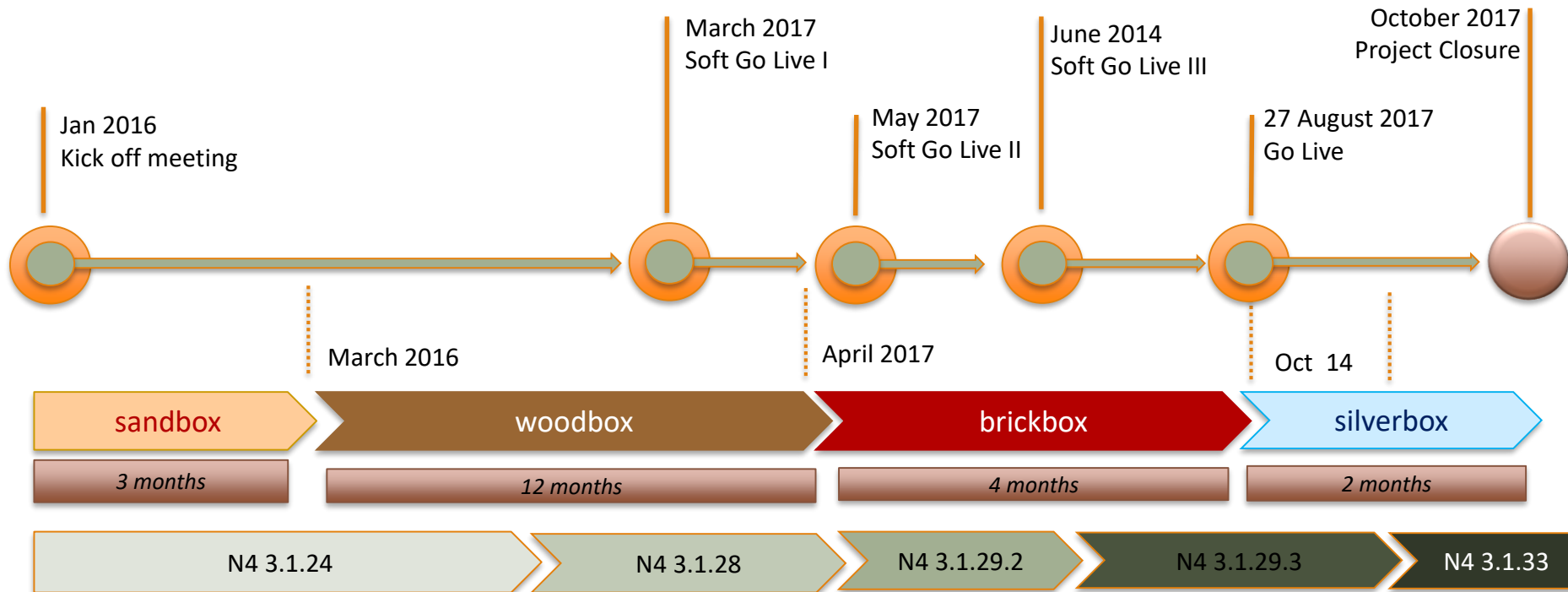
TOS Migration From....



TOS Migration To....



Key Milestones



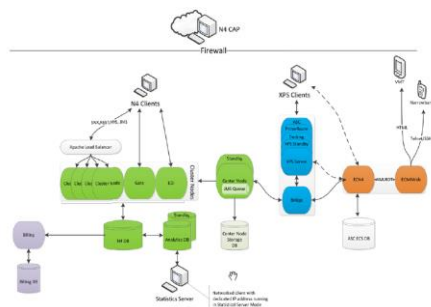
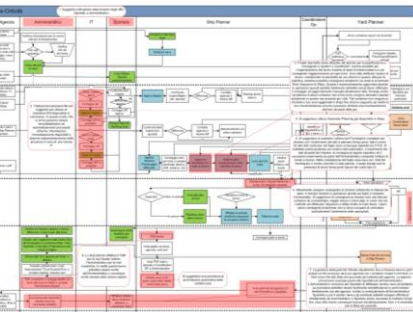
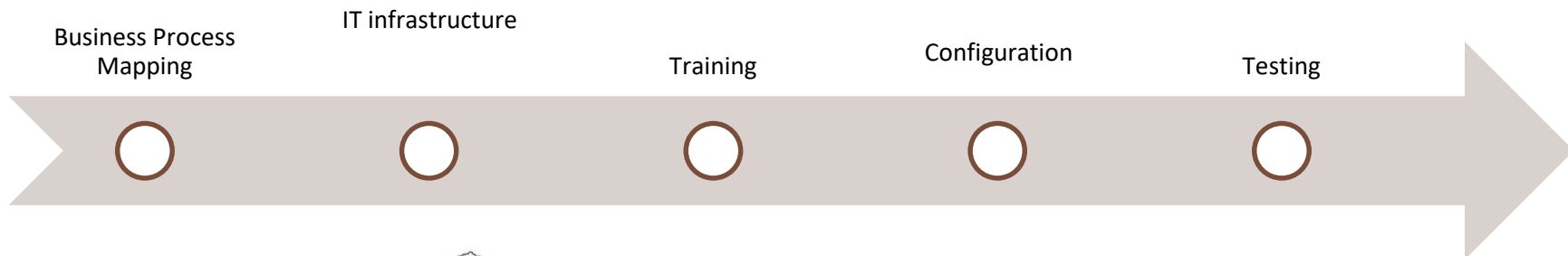
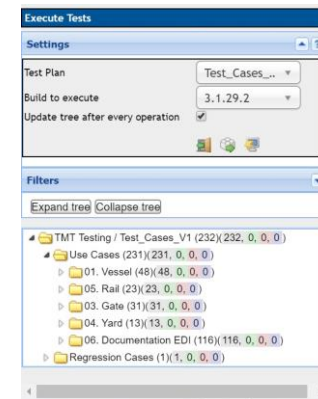


Figure 1: Hardware Overview for N4 3.1



The Go Live Chronicles

Trieste, 27th August 2017



Set Expectation

Based on experience, TMT has been asked to consider a **what if scenario** of a period of 6 weeks after go live needed to reach again and in a stable way, the current level of productivity.

For the first 6 weeks TMT has been recommended to analyse the impact of potential decrease in terminal productivity and verify berth congestion, staff availability, presence of empty shifts for system tuning, impact on SLA with Line operators:

1st week: - 40%

2nd week: - 20%

3rd week: - 15%

4th week: - 10%

5th week - 5%

Data Migration

Sunday morning



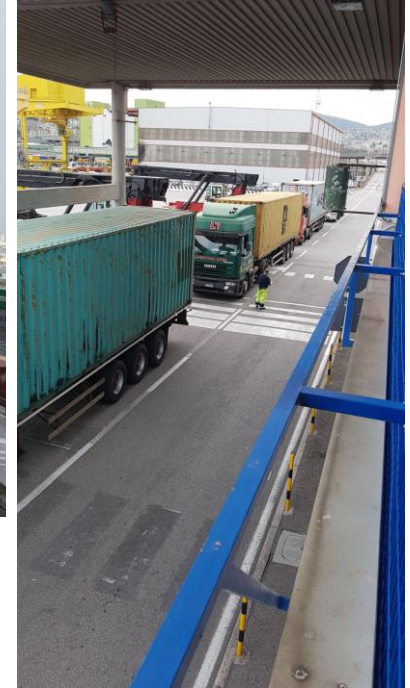
Sunday night First Vessel



Go Live Support



Monday morning Gate opens

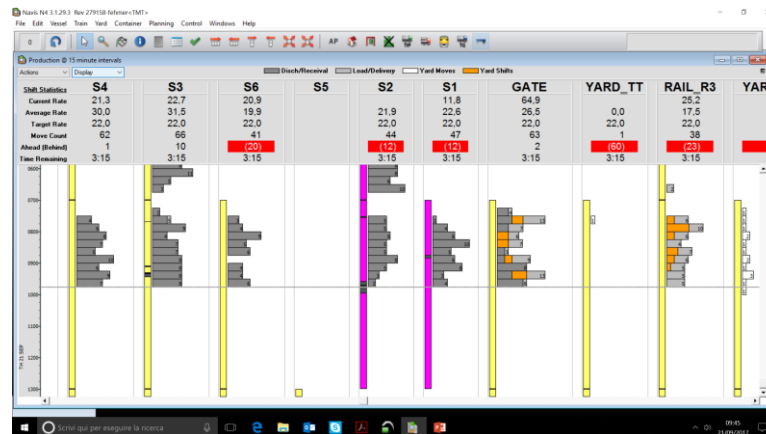


Monday afternoon: Up and Running

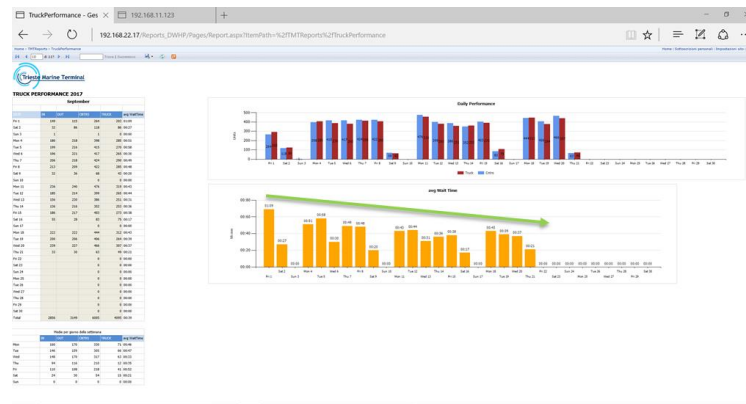


Main Results 3 weeks after go live

- More volumes with same resources



- Decrease of external trucks turnaround time



Getting smarter and smarter

1. New Shift change procedure (hot seat)
2. Yard Shifting: prevent and manage
3. Optimise Ship planning sequencing with Quay Commander
4. Gate process and office re-organisation
5. Import segregation by B/L
6. Rail Dual cycling
7. Smooth introduction of new working model
8. New traffic typology: Ro Ro

2018 RoRo vessel calling



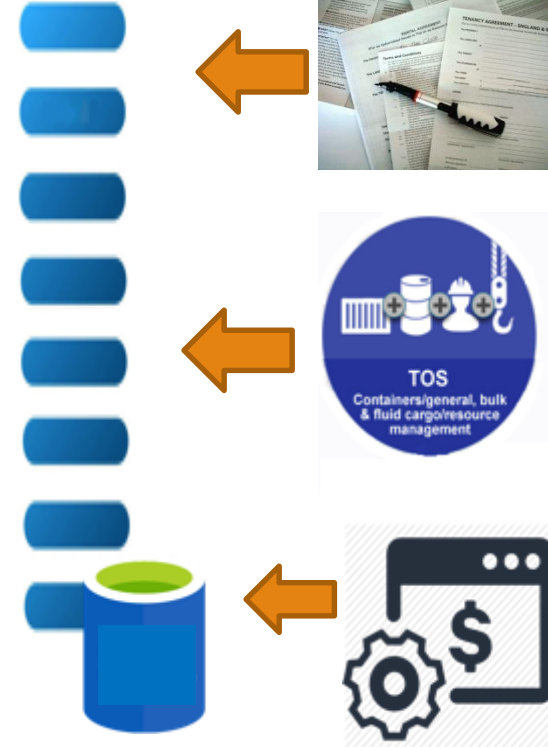
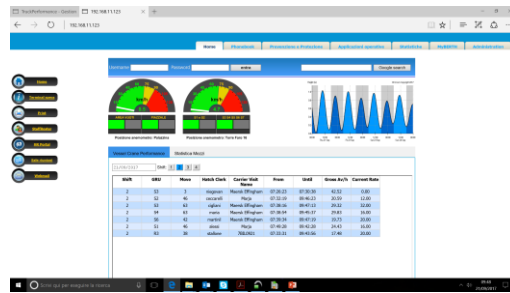
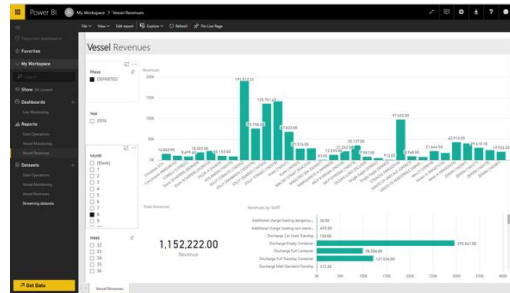
- Design trailer spots in the yard
- Open a dedicated gate
- Rent new RoRo trucks
- Hire more people
- Add yard clerk
- Add ramp clerk

Housekeeping of RoRo LoLo traffic

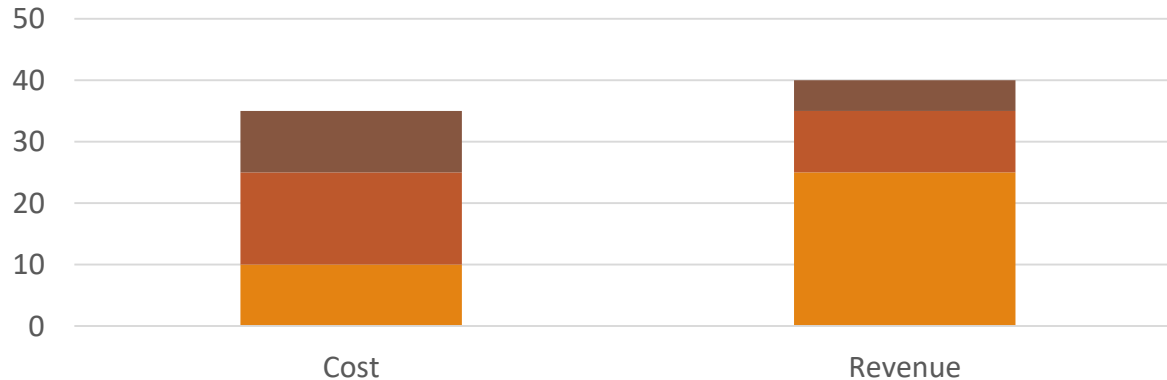
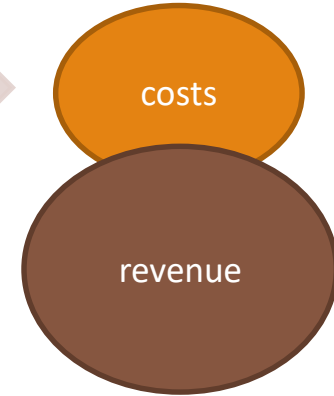
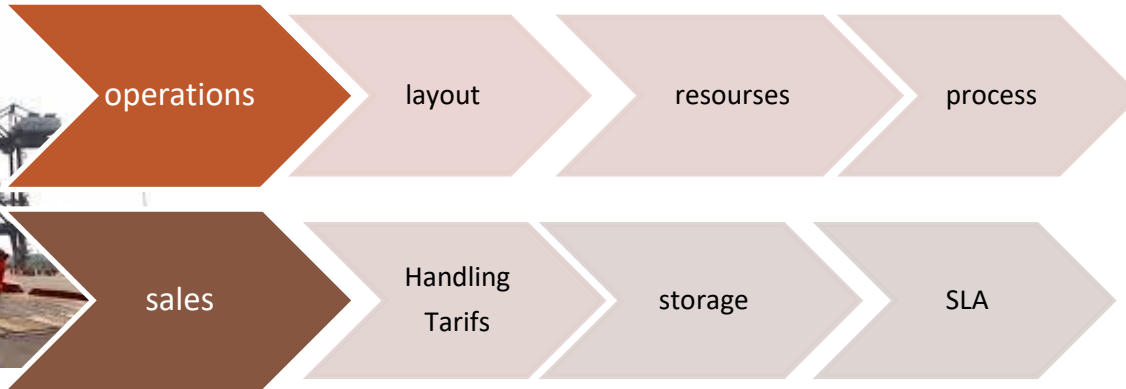
- Tuning TOS, EDI, Reporting, Billing
- WiFi coverage in new area
- Training the people
- Manage the project



One Digital Stream



Ready for new business



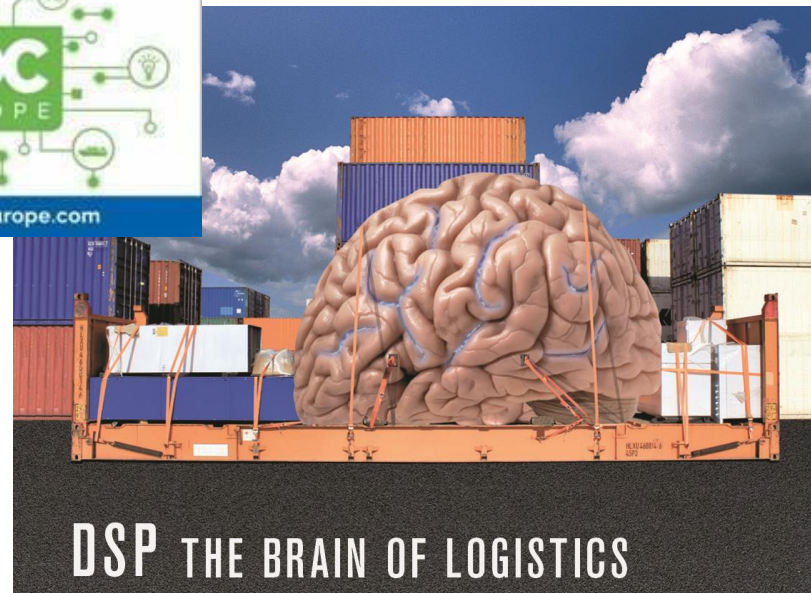
Container Terminal Smart growth

Facility
Equipment
People
TOS



differentiate
automate
optimise
digitalise

Thank you



DSP THE BRAIN OF LOGISTICS

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