

### Black railway year 2017: How to make intermodal logistics more sustainable

Bernhard Kunz, CEO Hupac VAP Herbstforum, 6.11.2017





### We shape the future of intermodal transport

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HUPAC

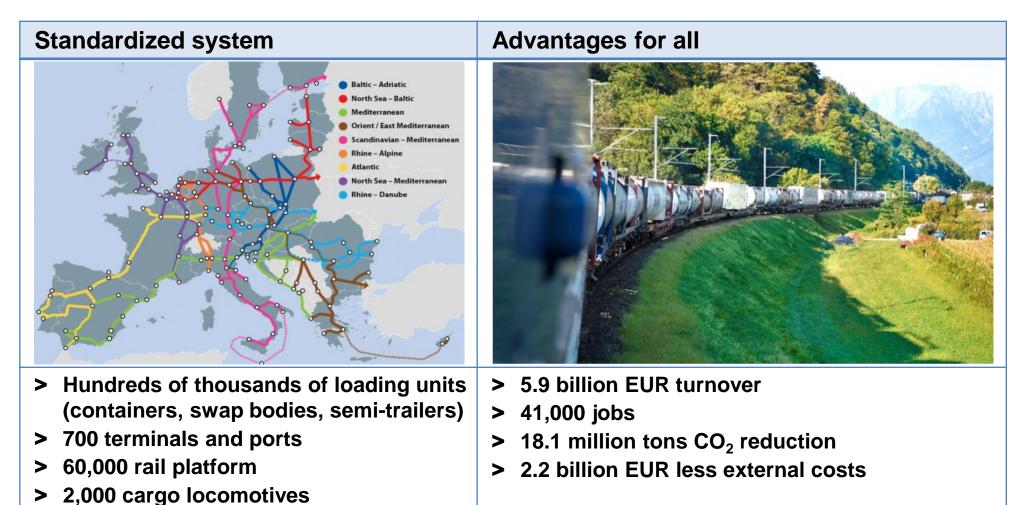
737,000 road shipments 110 trains per day 440 employees 5,500 rail platforms CHF 470 million turnover CHF 53.4 million cash flow 100% low-noise wagon fleet

Figures 2016



### **Combined transport: future-oriented system**

EU target: transportation > 300 km on rail or ship; 2030 = 30%, 2050 = 50%

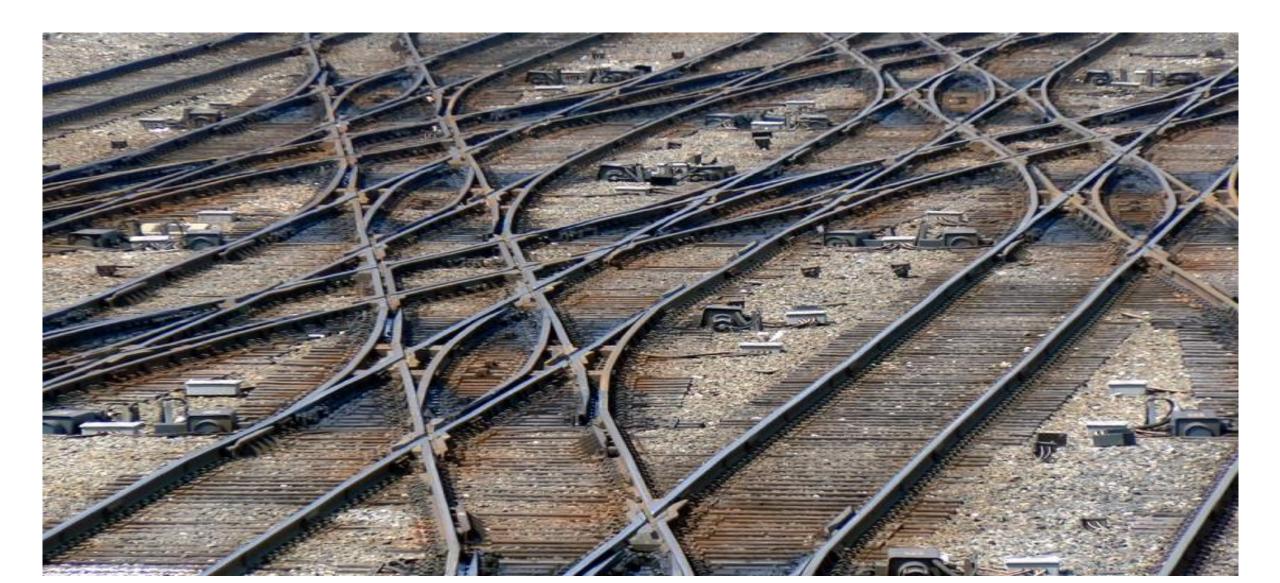


Source: UIC Report on Combined Transport 2014

> Long-term system commitment



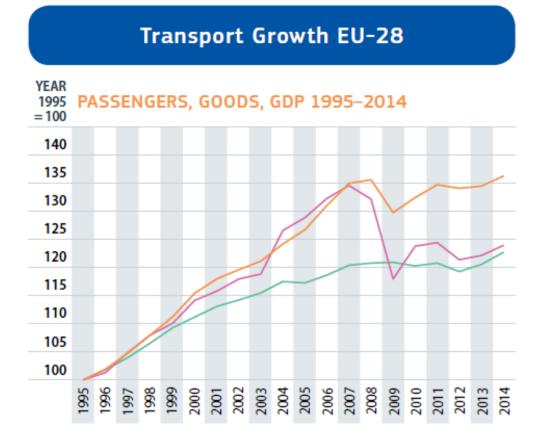
### Black railway year 2017: did we loose focus ?





### Economic crisis 2008: how it all began

- High offer, low demand
  - Prices under pressure
  - Cost reduction, low investments
  - Less reserves in the system
- Slowdown of market opening
  - Difficulties to access bank funding for private railways
  - → Remonopolization
- Passenger trains: constant growth
- Reduced investments into rail and rail freight in various European countries



PASSENGERS (1) (pkm)

G00DS (2) (tkm)

GDP (AT CONSTANT YEAR 2005 PRICES)



### Since 2015: back on the growth path

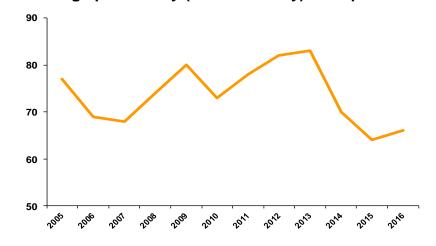
### Traffic is growing, system is not ready

- Strong traffic growth
- Resumption of investments into rail
- But lack of coordination

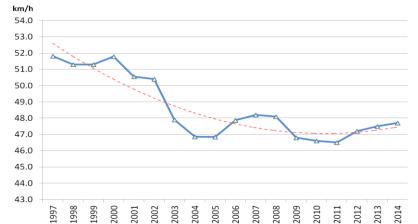
### Vicious circle of bad quality



Average punctuality (> 60 min delay) of Hupac trains



#### Average speed of Hupac trains (planning) on N-S axis



6

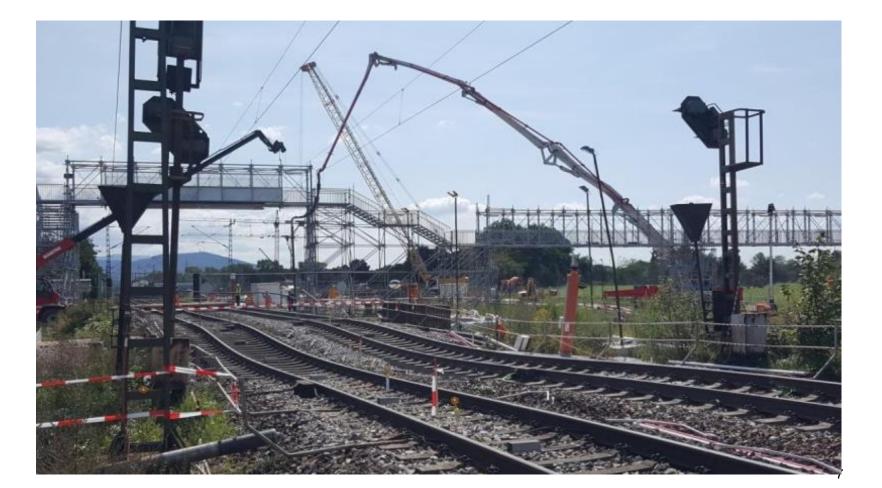


### **2017 – the black year for railways**

Uncoordinated infrastructure works on Europe's main rail freight corridor

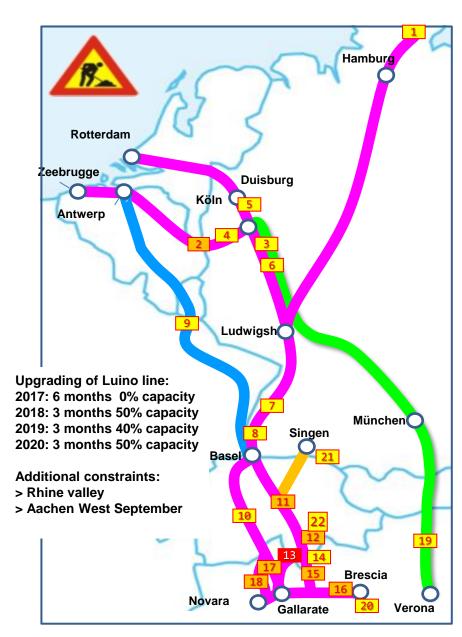


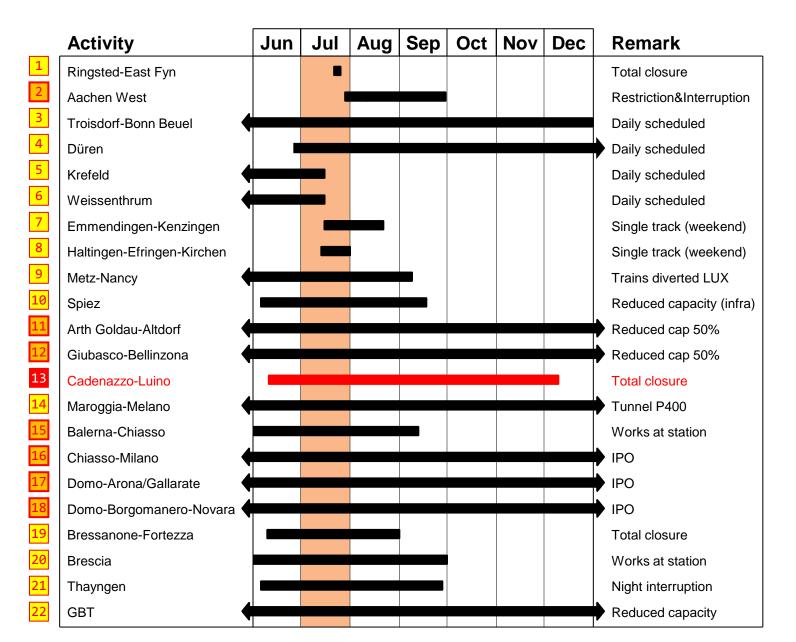




### Multitude of construction sites = high vulnerability of system



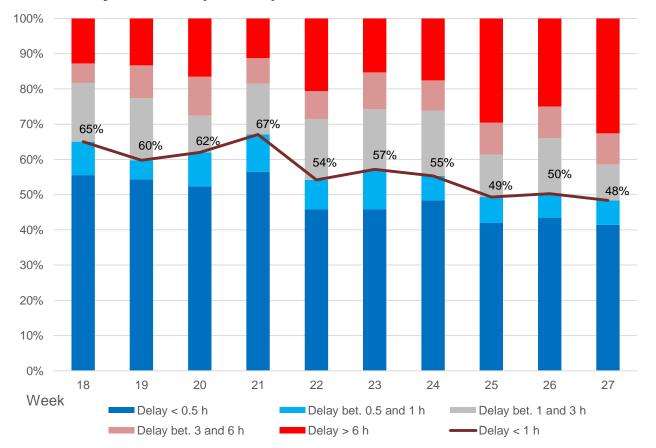




### Summer 2017: dramatic drop of punctuality



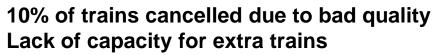
Increase of heavy delays > 6 h Average delays at terminal Busto: 15 h

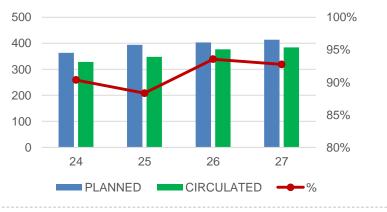


**Punctuality of transalpine Hupac trains** 

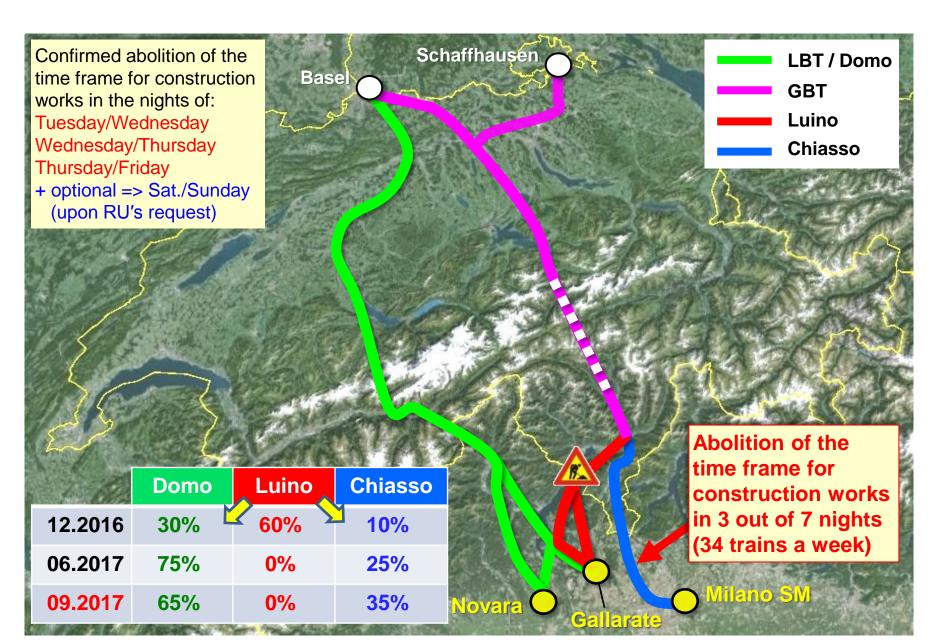
**Consequences of infrastructure problems:** 

- > Loss of train path
- > Loss of engine/engine driver
- > Loss of terminal slot
- > Loss of wagon rotation
- > Loss of volumes/occupancy
- > Loss of customers/customer satisfaction
- > Additional cost for resources
- > Additional cost for recovery





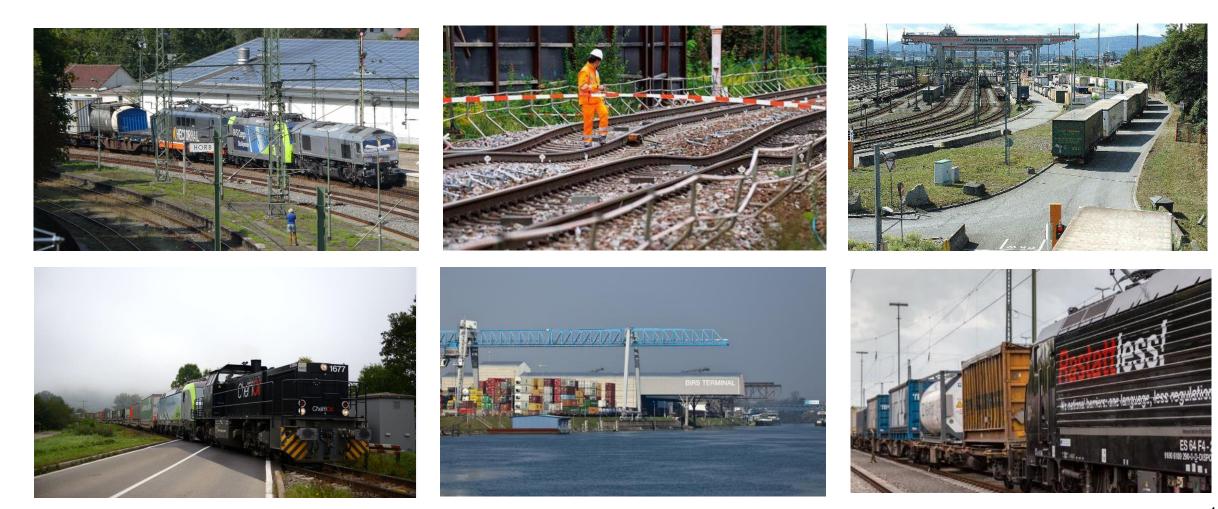
### Luino: total closure Jun-Dec 2017 for a future of high performance



HUPAC



# Rastatt disruption 12.8. - 2.10.2017: huge damage for industry and transportation





## Rail diversions covered only 1/3 of demand



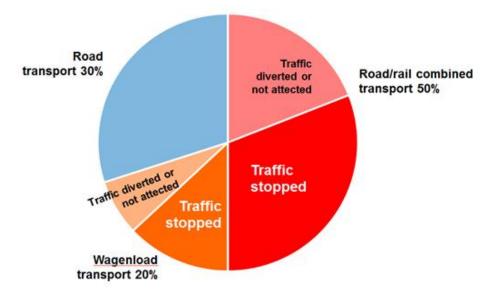
Market demand Theoretical capacity Technical capacity Effective trains

Main problems

200 trains/day 174 trains/day 150 trains/day 70-80 trains

- > Official language
- > Route knowledge
- > Driving licence
- > Loco type approval

### Transit via CH heavily impacted: No solutions for 45% of volumes to/from Italy



Basis: Swiss Federal Office of Transport, 2016

Main affected markets: UK-NL-BE-DE-DK-SE-IT

### Hupac's emergency programme

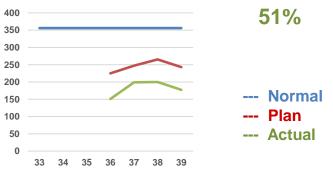


Diverted trains	Market offe Ø week 36-	
via Stuttgart-Singen	400 33%	
via Sibelit-Basel	350	
	300	
via Saarbrücken/Forbach-Kehl	250	
via Lauterbourg-Kehl	200	
•	150	
via Brenner	100	
via Tauern	50	
	0 33 34 35 36 37 38 39	

#### Additional trains south of Rastatt & barge

Basel-Busto Arsizio   350 300     Singen-Busto Arsizio   250     Rotterdam-Worms   200	Basel-Busto Arsizio   300     Singen-Busto Arsizio   250     Rotterdam-Worms   150	Basel-Busto Arsizio   300     Singen-Busto Arsizio   250     Rotterdam-Worms   200	Basel-Busto Arsizio   300     Singen-Busto Arsizio   250     Rotterdam-Worms   150     Worms-Basel   100
Singen-Busto Arsizio	Singen-Busto Arsizio   300     Rotterdam-Worms   200     150   150	Singen-Busto Arsizio   300     Rotterdam-Worms   200     Worms-Basel   100	Singen-Busto Arsizio   300     Rotterdam-Worms   200     Worms-Basel   100
	Rotterdam-Worms	Rotterdam-Worms 200   Worms-Basel 100	Rotterdam-Worms 200   Worms-Basel 100
	150	Worms-Basel	Worms-Basel

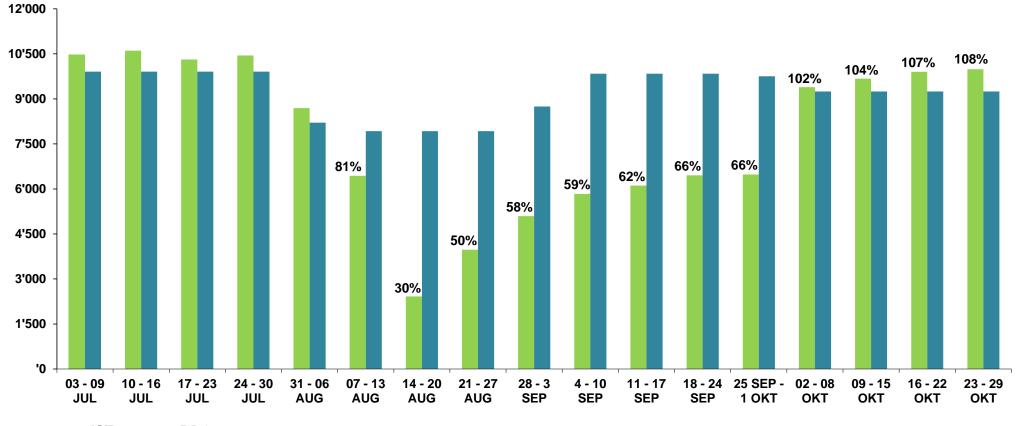
#### Total offer to the market





### **Rastatt: heavy impact on revenue**

Hupac traffic development in transalpine traffic via CH Road shipments





#### Learning no. 1

### Improve organisation: joint 360° corridor management

Single office with staff from

#### **Joint International Strategy**

- > Steering of transport flows
- > Contingency plans
- > Backup routings

#### **Joint International Planning**

> From departure to arrival with standardized parameters (length, height, tonnage)

ProRail

> Synchronised construction works

#### **Joint International Operations**

 > Transport management from a single source for quick solutions during operational hick-ups
> Aim: 80% on time, 90% departed
> Crisis management





### Learning no. 2 Improve rules & principles

1) Secure capacity for freight – especially during disruptions

- > Planned disruptions: at least 75% of capacity must be secured
- > Unplanned disruptions: low speed single track operation for freight traffic as a priority
- > "Fair share" of scarce train paths attribution (intermodal/conventional; RUs)

#### 2) Strengthening of interoperability

- > Overcome language barriers: second operational language with standardised wordings
- > Review of route knowledge processes
- > Simple, harmonised operational rules
- > Single pan-European office for locomotive approvals & registrations

#### 3) Assume responsibility for disruptions

- > Bonus-malus system that minimizes traffic disruption (Recast Directive 2012/34)
- > Positive example: UK provides for financial compensation in case of planned and unplanned disruptions (partial compensation of damages; steering effect)

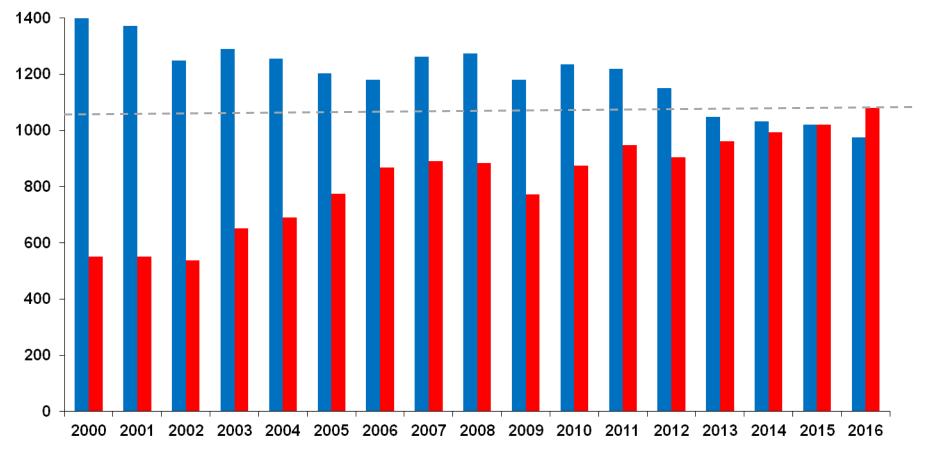
# Rastatt: who pays the bill?

Light at the end of the tunnel: positive outlook for intermodal trasportation on Corridor Rhine-Alpine



### 2016: For the first time less than 1 million trucks crossing the Alps via CH

Modal split in Alpine transit via Switzerland Road shipments / Truck trips in 1000



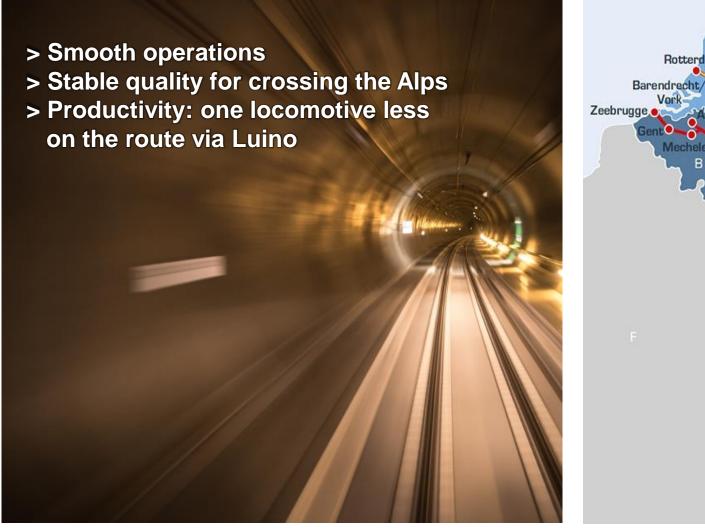
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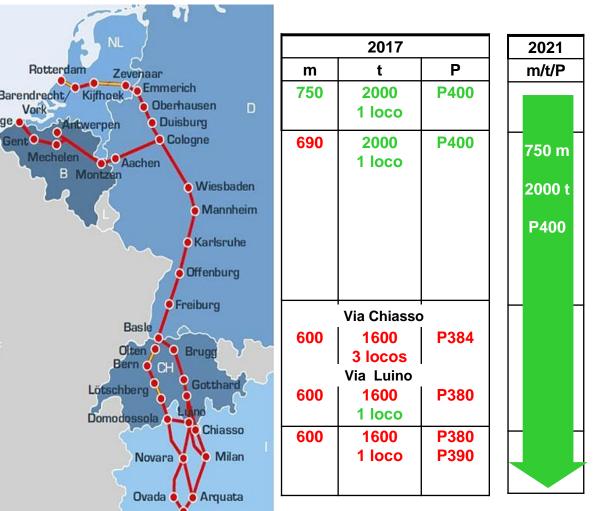


#### 2016: Opening of Gotthard base tunnel 2017: Upgrade of Luino line phase 1

## **2021: Implementation of European train parameters length, weight, gauge**

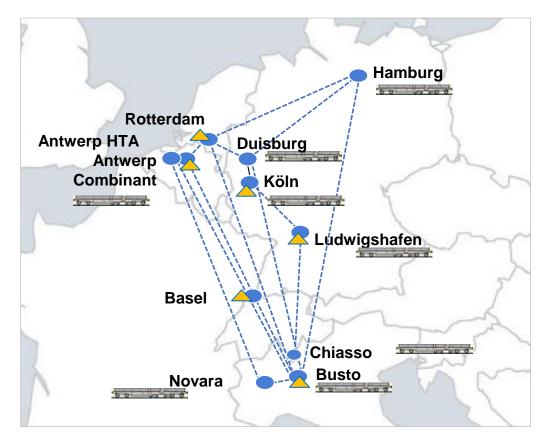
Genoa







### **Quality: our contribution to fulfill market needs**



> Backup compositions and spare wagons
> Parked at central locations for contingency
> Production team 24/7 in Chiasso



- > 8 DACHINL multisystem locos June 2018
- > Managed by railway partners
- > Aim: increase productivity and quality



### Terminal projects: getting ready for transhipment capacity

Warszawa Brwinòw () 127.000 qm 3 reach stacker		Building permit	Funding	Building start	Entry into service
Basel Nord120.000 qm 3 gantry cranesBrescia240.000 qm 6 gantry cranesMilano SM110.000 qm 3 gantry cranesPiacenza100.000 qm 3 gantry cranes	Brwinòw	2017	-	2018	2019
	Basel Nord	2017	2017	2018	2020
	Milano SM > Phase 1 > Phase 2	Q4 2017 Q4 2017	✓	2018 2020	2020 2021
	Brescia	Q1 2018	Q1 2018	Q3 2018	2020
	Piacenza	✓	Q2 2017	Q4 2017	2019



