



**The unspoken costs of rail disruptions:
the consequences of Rastatt on the
economy and customer confidence**

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Impact of Transport in industrial production

162 Trains/d average utilisation of RALP
51 days standstill
30% Rail Utilisation during Rastatt
65/35 Transportsplit comb./konven
630 net-t/train
60% of haulage is used in
NON-Rail industries

Impact of Transport in industrial production

How to measure?

KPI = gross value added

gross value-added

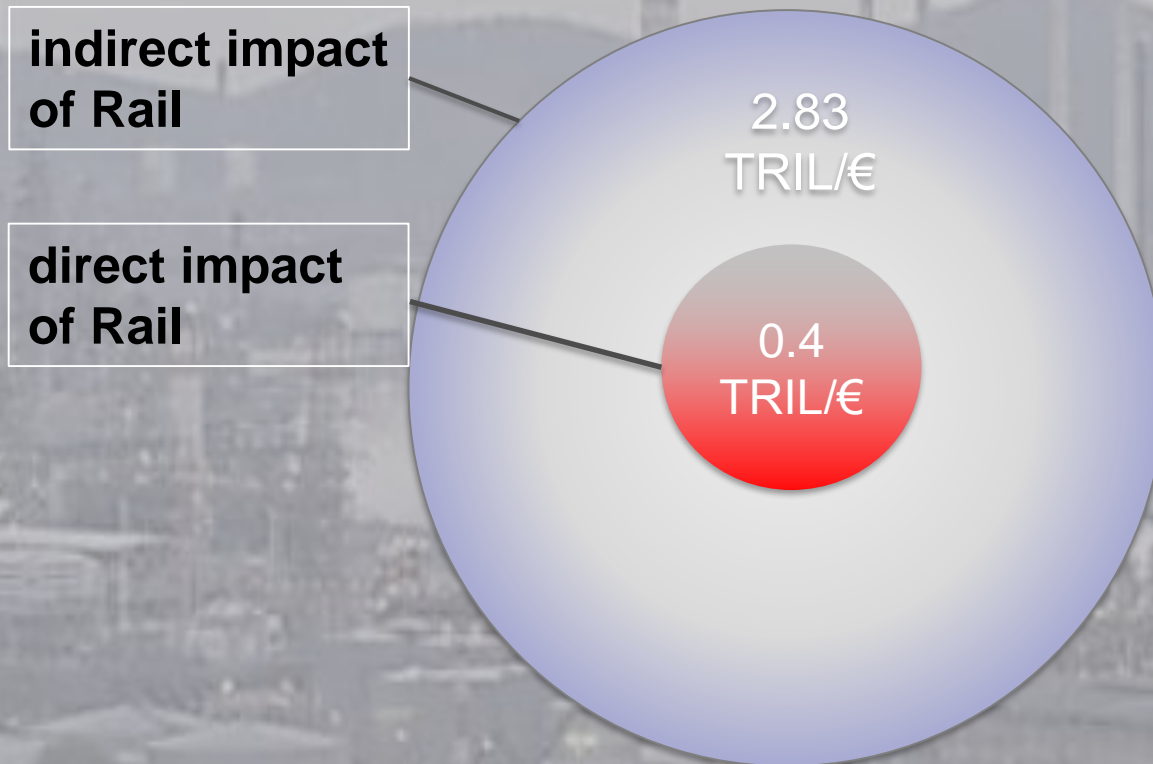
5.94 TRILL €/a
along RALP States 2016

gross value-added

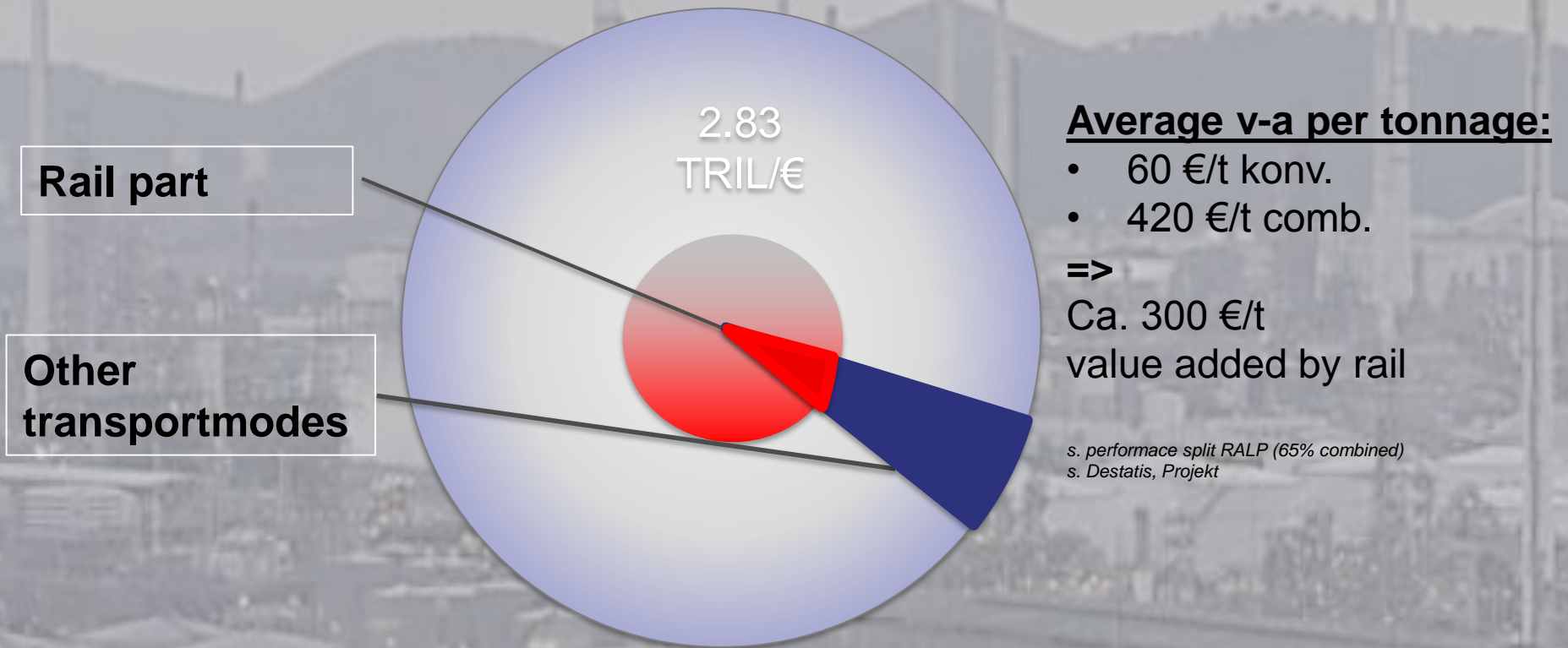
2.83 TRILL €/a

Germany 2016

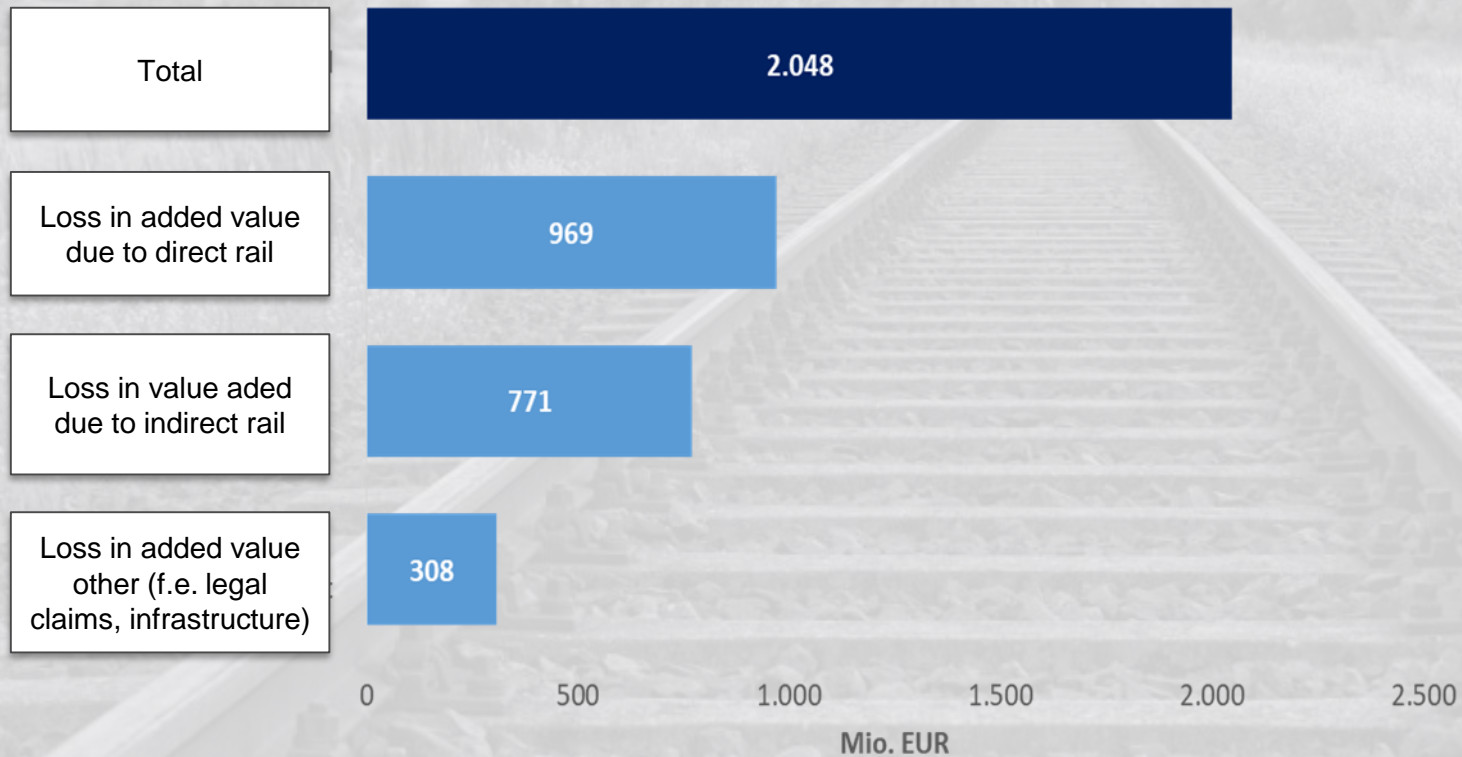
3% part of gross value-added is over all transport



3% part of gross value-added is transport



Calculation of total impact: 2 BIL €



MUST HAVE - Areas of change

ORGANISATION

Strategy

- Steering transport flow
- Do we really need 2 Corridors (NSM, RALP)?

More intern. Infra Operations

Planning

- consistent planning from departure to arrival with **standardised parameters** (length, height, tonnage, speed)
- synchronised **construction works!**

RULES & PRINZIPILES

Safeguarded Capacity

Disruptions

- Clear **responsibility**
- Contingencyinput **after 1h**
- **Bonus Malus** system the minimizes traffic disruptions >4h
- **Risk management** in place for new techniques

Improve Interoperability

Areas of change & output so far

ORGANISATION

Strategy

- Steering transport flow
- Do we really need 2 Corridors (NSM, RALP)?
- Need for contingency plans

RULES & PRINZIPILES

Safeguarded Capacity

Idea of contingency-man.
after 3 d

More inter... Operations

- ### ptions
- Clear responsibility
 - Bonus Malus system that minimizes traffic disruptions >4h
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Planning

- consistent planning from departure to arrival with standardised parameters (length, height, tonnage, speed)
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Improve Interoperability

AusgeRastatt!

No national barriers: one language, less regulation, one highway.

Outcome at least Contingency Handbook (3d Version)



THE WAY IS OPEN

**for a second step and
a significant expansion of international
freight performance**