

Presentation about the importance of Longer Freight Trains

28th of March 2019

**Profitability goes hand in hand
with
Sustainable Growth**

Bentheimer Eisenbahn AG



Perspective

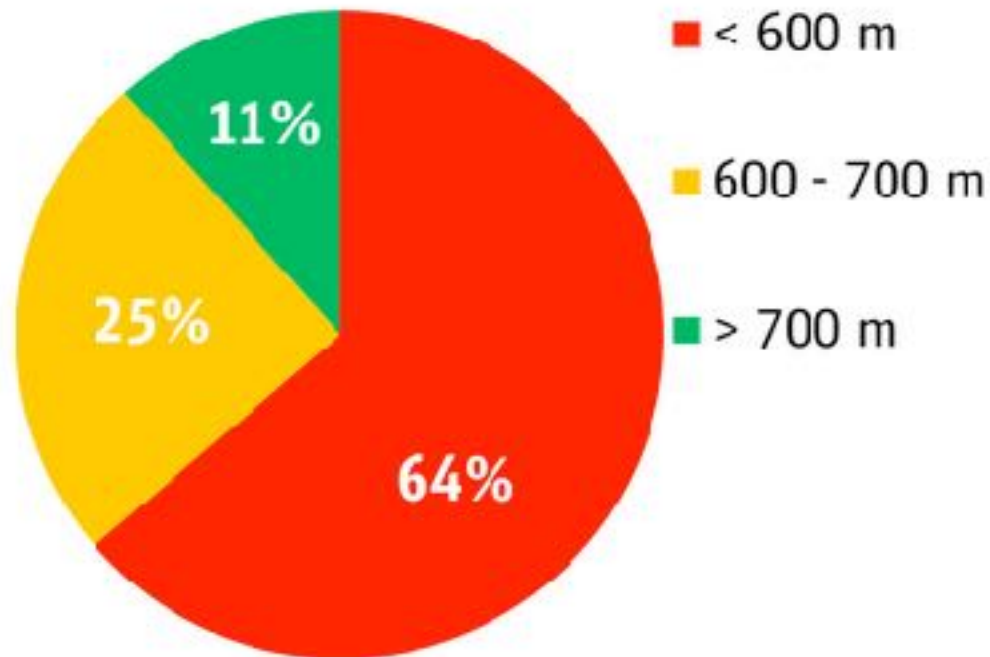
Rio Tinto owns and operates the largest private railway network system in Australia. Huge trains which comprised on an average of 226 wagons each with a carrying capacity of 105 tons for each of them. One such fully loaded train has a freight bearing capacity of about 30000 tons and are up to **2400** meters in length.



Freights trains make up a \$60 billion industry, play an important role in the country's economy for the movement various minerals and renewable energy deposit. One of the most popularly deployed freight trains is the AAR standard S-400 which comes with a host of safety features such as air brakes and electronically controlled pneumatic brakes equipped on the locomotives which prevent wagons it from derailing when going through sharp bends. The S-400 generally comprises of 180 wagons adding up to a total length of around **3659** meters.



Over 60 % of Freight trains on DB's Network are shorter than 600 metres. European standards are 740 and in some cases, 835 metres



Source: www.allianz-pro-schiene.de

Why?

- ❖ Most climate-friendly mode of transport
- ❖ Increased productivity
- ❖ Reduced energy consumption
- ❖ Reduced costs, Lower costs per ton/km or TEU
- ❖ Improved utilization of the rail network
- ❖ Improved utilisation of traction, wagons
- ❖ Improved utilization of terminal capacity (Port & Inland)
- ❖ Long freight trains are perceived less stressful than shorter
- ❖ Peak-shaving Ports
- ❖ Growth of market share (modal-shift)
- ❖ Lower CO2 emissions.

A major contribution to climate protection

Business-Case extremely positive

Federal Transport Ministry

Source: www.bmvi.de

Additional Infrastructure measures solving bottlenecks

- ❖ Estimated Cost-benefit ratio : 4,8
- ❖ Budget: 680 ME
- ❖ Additional: 470 ME

Statement:

Planning for the introduction of 740 m long freight trains across the core national network is to be stepped up, following a favourable evaluation by the Federal Transport Ministry.

Secretary of State for Transport Enak Ferlemann said on September 22 that efficient railway infrastructure was needed across the country, and that the ability to operate 740 m long trains was a 'core element' for increasing capacity.

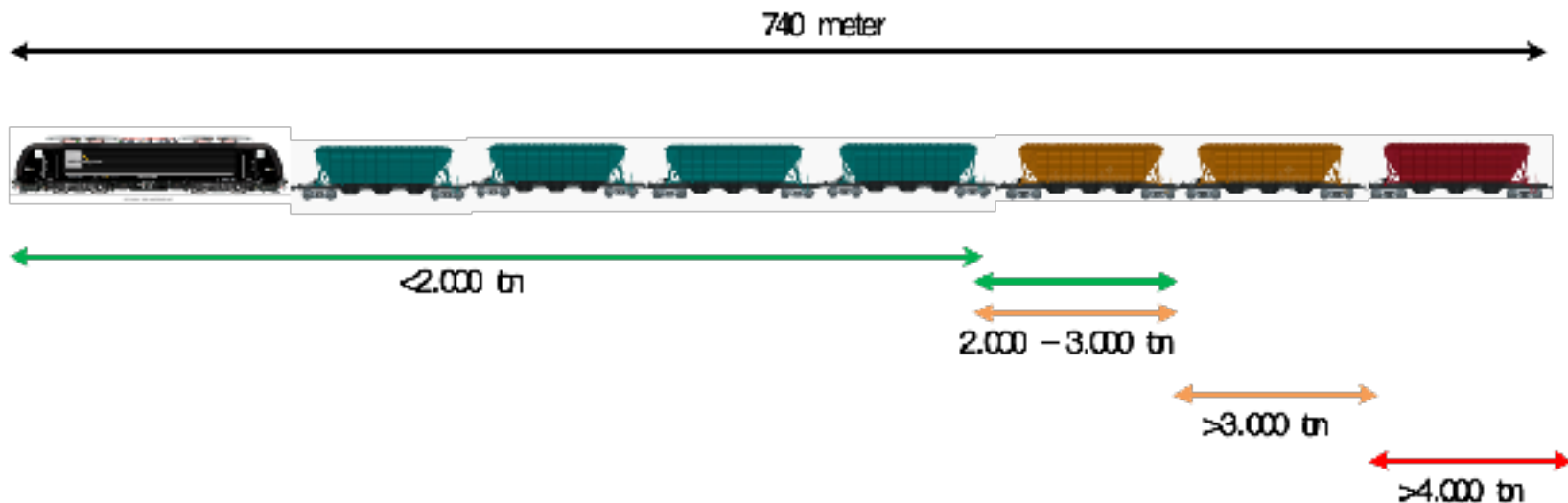
How ?

Eliminating Bottlenecks by:

- ❖ Move, re-move or replacing signals
- ❖ Moving switches and buiding new ones
- ❖ Building new or replacing older tracks

Ports ready?

- ✓ Port of Rotterdam, Betuwe line up-to Zevenaar
- ✓ Port of Hamburg
- ✓ Port of Antwerp



Euro Terminal built a brand new railway bridge and loop to make longest Freight Trains possible.



<https://goo.gl/images/vp6ntJ>

THANK YOU FOR YOUR ATTENTION

