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## Rail Freight Corridor Rhine - Alpine Improving the Infrastructure for long trains

Media Journey $17^{\text {th }}$ September 2014 1 - Demand: Corridor trains will be longer

## Corridor clients need to improve productivity

- Upgraded and new line sections (base tunnels) allow faster train paths
- Simple traction - one multisystem loco (6MW) takes most trains on entire run
- Trains can be longer by $13 \%$ - from $600 \mathrm{~m} / 650 \mathrm{~m}$ up to 740 m .

Types of longer trains: Empty wagons / automotive / combined / single wagons.
Definition: Long train is over 650m, up to 740 m including loco.


Improving the Infrastructure for long trains
2 - Maximum train length with planned projects

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- Many projects in planning or realisation phase $\rightarrow$ base for study
- Major projects enable long trains (740m)
- Major projects
- relief bottlenecks
- increase capacity
- improve quality / punctuality
- Nasty hinderings remain
- Limited funding blocks more large projects
- Study other solutions for "missing links" 3 - Closing the missing links for long trains

- Detailed national studies for all missing links
- Different approaches for short and medium/long time horizons applied
- No construction projects on short time horizon
- Identified national "consistency projects" combined in study for Corridor level
" "Consistency projects" allow full benefit of major projects for long trains on most line sections.

Improving the Infrastructure for long trains 4 - Solutions exist - financing to be solved

Additional investments (130-180 Mio. $€$ ) allow to open the Corridor for long trains

Short time horizon, two operational solutions:

7 Mannheim - Basel Opening for some long trains with one project in Basel to be finished

10 Luino line
Time slice operation mode is studied for feasibility.

Consistency
Projects
additional to planned projects
additional projects


Medium/long time horizon, eight consistency projects:

1 Belgium lines (peak hours)
3 Aachen-Köln
4 Duisburg-Köln
5 Köln-Mainz
6 Mainz-Mannheim
7 Mannheim-Karlsruhe
8 Gotthard North access
12 Novara-Alessandria
Plus: Workarounds for the rest of lines sections

