

# CargoBeamer®

your transalpine rail connection



**Venlo (NL) / D-41 Kaldenkirchen (DE)**



**I-28 Domodossola (IT)**



# CargoBeamer® Alpin

Combined rail transport of  
all kinds of semi-trailers

New:  
Cabooter rail terminal Kaldenkirchen (Venlo)  
D 41334 Kaldenkirchen



Schenker Italiana Terminal  
Domodossola II  
Scalo Ferroviario Domo 2  
IT 28851 Beura Cardezza



# CargoBeamer® technology



Top: Automated „GateModules“ load trailers onto wagons within minutes with unmatched performance

- 15 min to load/unload a full train
- no noise, no emissions
- much less energy (1,2 kWh) per hub
- very scalable terminals fit everywhere

CargoBeamer wagons are designed to load all kinds\* of semi-trailer:

- Megatrailer (3m internal height)
- Standard Eurotrailer
- Frigo- (Cooling-) trailer
- Silo-semi-trailer
- Walking-floor-trailer
- ... incl. pallet boxes

\* exceptions: cityliner with self steering axle, Mega-trailer with twin wheels.

Right: Due to the wagon design with its „loading pallets“, CargoBeamer wagons are compatible with existing container cranes and reach stackers.



# the advantage is yours ...

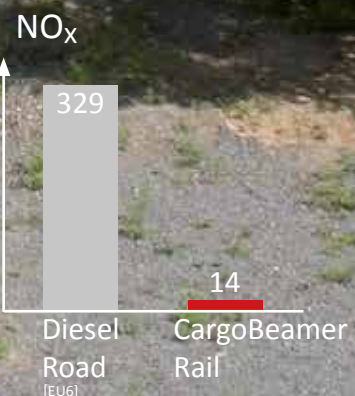
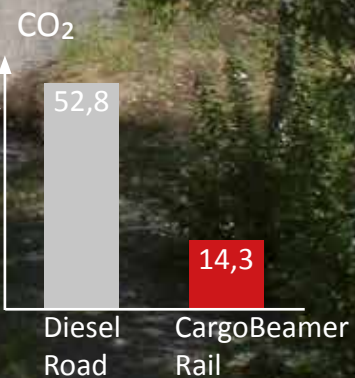
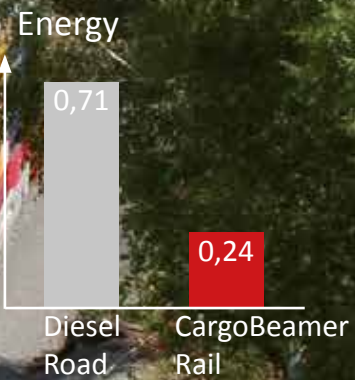
- ✓ All semi-trailers become “compatible” to rail – without any modification
- ✓ Higher gross load weight (44 to instead of 40 to total weight)
- ✓ Independence from driving/pause time rules
- ✓ Stable transport timing & planning
- ✓ Increased flexibility due to tailored booking
- ✓ Local traffic for trucks, no long distances
  - Significant higher productivity
  - Local 2 or 3 shift operation
  - No risk of congestion on motorways
  - Less wear and damage to trailers
  - Less insurance cost
- ✓ No motorway toll payments (LSVA)
- ✓ Operation on sundays and public holidays





# ... creating benefits for everybody.

- ✓ reduced energy consumption for transports by 66% [2]
- ✓ reduced CO<sub>2</sub> emissions by 73% - a total of 3.500 t per train and year [2]
- ✓ reduced NO<sub>x</sub> emissions by 95%
- ✓ reduced external costs of transport by 3,6 Mio. € per train and year. [1],[2]
  - less road maintenance
  - less cost of air pollution
  - less accidents and related cost
- ✓ reduced congestion cost by 2,6 Mio. € per train and year [1]



[1] CE Delft, infras, Fraunhofer ISI: „External Cost of Transport in Europe. Report, Delft, November 2011

[2] Sutter, D., Maibach, M.: „CargoBeamer - Nutzen für Umwelt und Volkswirtschaft“. infras, Schweiz, Aug. 2012