

P&G in Europe

Present since 1930

730 Million Consumers



1/3 of Global Employees



Present in 50 Markets

24 % of Total Company

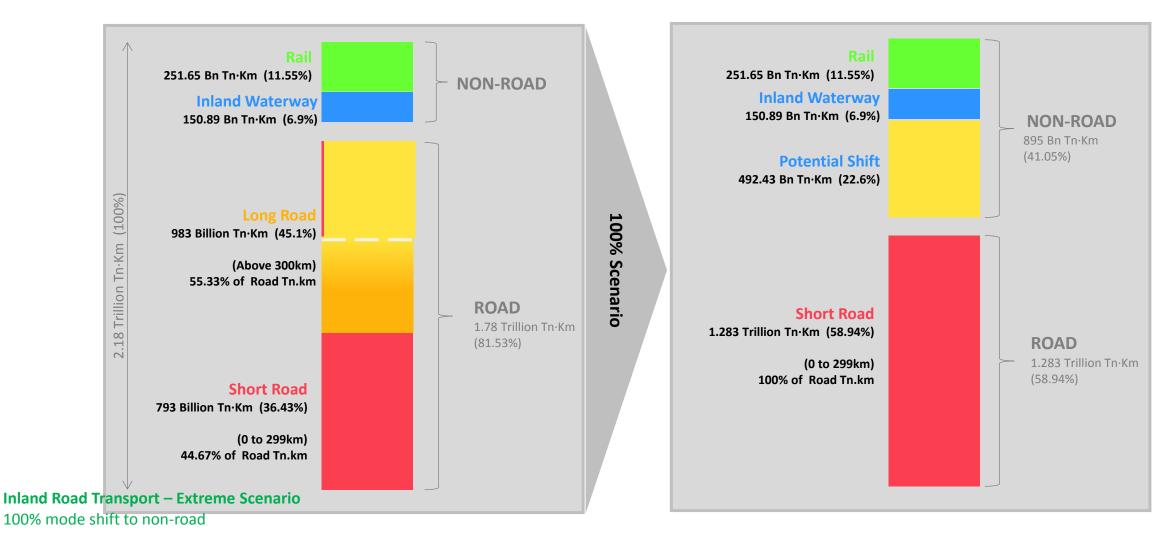
Fiscal 2015 data



On-the-ground operations in:

France	Poland	Eastern Europe and Central Asian Republics
Germany	Portugal	
Greece	Romania	Russia
Hungary	Slovakia	Ukraine
Ireland	Spain	Kazakhstan
Italy	Sweden	Total control of
Latvia	Switzerland	Turkey and Caucasus
Luxembourg	The Netherlands	Turkey
Norway	United Kingdom	Azerbaijan
	Germany Greece Hungary Ireland Italy Latvia Luxembourg	Germany Portugal Greece Romania Hungary Slovakia Ireland Spain Italy Sweden Latvia Switzerland Luxembourg The Netherlands

Modal shift: 40% maximum



SOURCE: Eurostat (<u>rail go typeall</u>), (<u>iww go atygo</u>) and (<u>road go ca c</u>) – 2014 EU-28 Data.. For (<u>road go ta dctg</u>) - Averaged Data from the year 2008 to 2014 and SNIC calculations

Assumption: Modal shift does not cause increase in the total Tn-km of a journey

P&G Europe (WE/CEE) Intermodal flows: 27%



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GRI Inde

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Truck Transportation

As one of the world's largest consumer products companies, we ship a significant amount of product. To help ensure we are driving efficiency, our 2020 goal is to reduce truck transportation kilometers by 20% per unit of production versus our 2010 baseline. Our global teams have made great progress and we have reduced over-the-road truck transportation by approximately 25% since 2010 by improving vehicle fill rate, optimizing distribution routes and driving increased use of multi-modal transportation.

As P&G completes work on significant supply chain transformations in North America, and innovative efficiency projects in other regions, we will look for additional opportunities to improve our transportation footprint.

> ~25% reduction in truck transportation kilometers

New Intermodal Network Approach

One example of improvement is P&G's innovative New Intermodal Network Approach (NINA) program in Europe. P&G launched a focused group of projects in 2008 with an ambitious goal of moving 30% of our Western Europe freight transportation from over-the-road trucks to intermodal rail and shipping lines by 2015. The team worked to find or often create new rail networks between our manufacturing plants and distribution centers across the region, reducing both emissions and congestion on local roads.

The regional program exceeded our initial target, reaching its 30% goal two years early in 2013. To continue building on our progress, we have expanded our intermodal rail networks across Europe. To drive efficiency, we also continue to add additional manufacturing and transportation partners to improve collaboration and amplify the sustainability impact to not only P&G, but also other companies in the area.

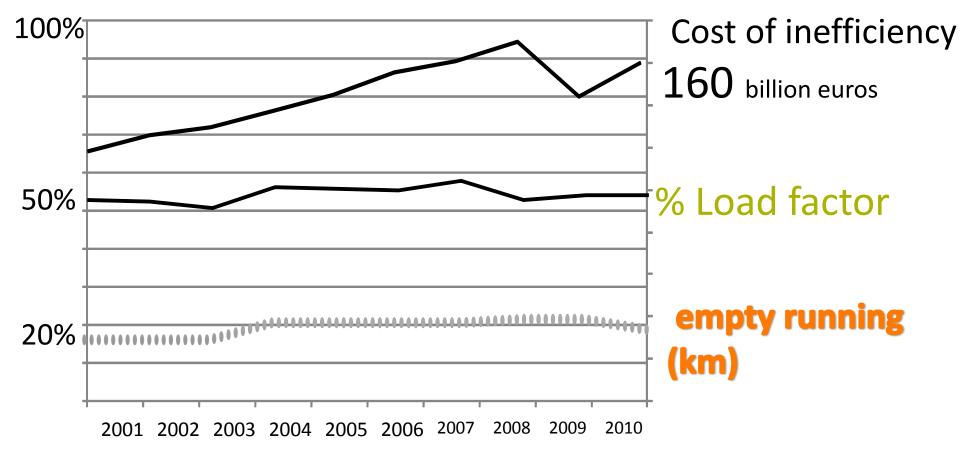
Some of our newest partnerships include:

- An innovative overnight shuttle train between our main manufacturing and distribution hubs in France and the U.K. using the Eurotunnel and available capacity on the U.K. High Speed (HS1) line. This highly efficient approach is one of our most sustainable and fastest rail connections to date, combining freight and reducing emissions for P&G and other companies.
- A high-frequency connection for customer deliveries along the main Italian North-South trade axis. This collaborative approach with LOR Europe provides enough volume for up to five intermodal trains per day, making transit and delivery times competitive with traditional over-the-road options while providing lower emissions per case.



New intermodal shipping routes implemented as part of the NINA program.

Truck Asset utilization issue / 50% empty



How to better use truck capacity & the different types of modality?

1. Modular trailer initiative

TRANSFIRMERS







Truck Manufacturers





Trailer Manufacturers





End Users



Suppliers











Research Institutes



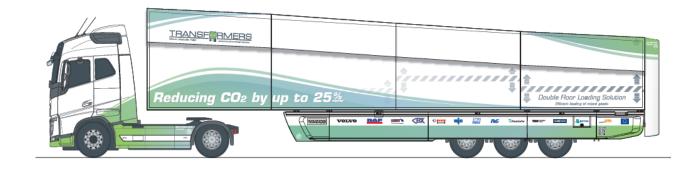
Service Supplier



TRANSFORMERS Innovation Areas

Trailer Mounted
Electric Driveline
"Hybrid on Demand"





Whole Vehicle Combination Aerodynamics

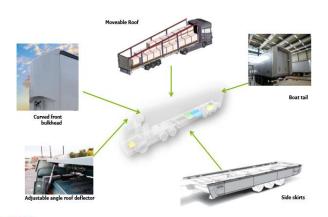


Load Capacity
Optimisation

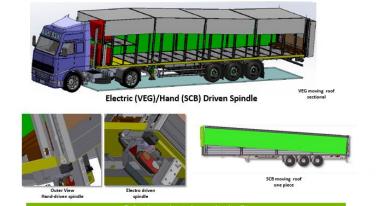
TRANSFORMERS Innovation Areas



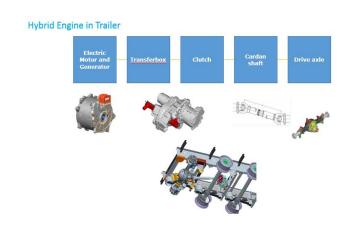
Aerodynamic Features

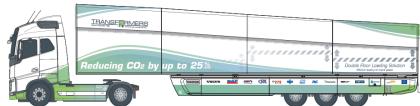


Movable Roof



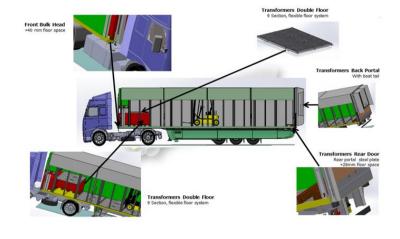




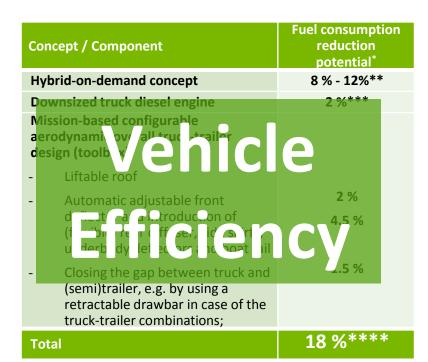


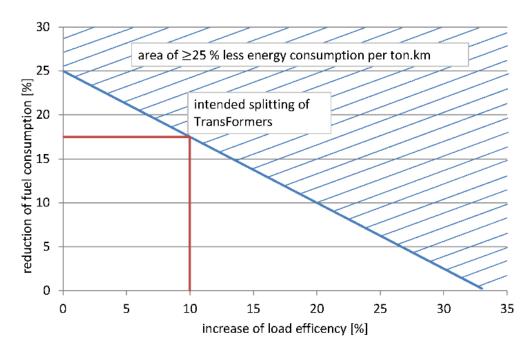


Load Optimized Trailer Concept



How we plan to achieve this efficiency?





$$i_e = 100 \left(1 - \frac{100 - i_f}{100 + i_l} \right)$$

$$25.5\% = 100 \left(1 - \frac{100 - 18}{100 + 10} \right)$$

Total load efficiency expected

Load efficiency **Concept / Component** increase potential Loading efficiency optimized trailer inside design (toolbox) Change front bulk head and backportal of the semitrailer to facilitate the loading 3 % 5 - 10 % Up to 40 % Introduce an flexible extra floor in (semi)trailers to allow a double stacking 10 - 15% Total

2. Digital collaborative platform

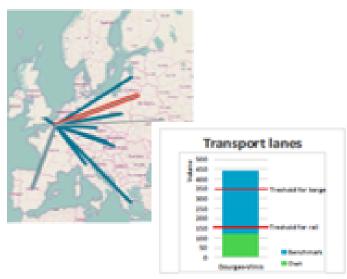


Secure, Standard & Neutral Data-Sharing Cloud Platform with ...

...Broad involvement across shippers, hauliers, terminals

Objective to improve volumes, connectivity, synchromodality, lead-times, frequencies & costs





Benefits:

Shippers can visualize opportunities for flow combinations_& provide framework for connections

Logistic Providers can combine shippers volume for **new connections**, make **attractive proposals** and **share capacity** on existing lanes

Ability to use Trusted "Value-Add Service Providers" for further Optimisation (optional)

Commercialization opportunity via Co tender process (ie Supernova)





Vincent MOAL Logistics Innovation / Purchases

Education: Engineering School Agrocampus Rennes — Supply chain

Career: P&G (10 years)

- Customization Manager (2006) Paris
- Transport Manager (2007-2009) Amiens
- Customer Service Manager (2009-2011) Paris
- Braun/Oral B/Duracell Supply Chain Manager (2010-2011) Paris
- Senior Logistics Account Executive (2011-2013) Paris
- Senior Logistics Buyer (2013-2016) Brussels
- Senior Innovation Logistics Buyer (2016) Brussels