



1956 > 2016 > 2050

2.60m, A Single Width

A Global Seamless Transport System

For Industry, *Climate*, MANKIND

- MANKIND produce, consume and live on terra firma.....
- Production plants, warehouses, cultivated areas, habitations, all are located on dry land
- With transport as the unique link between production, distribution, consumption
- Production having only a value when delivered at destination, at the right place, in the right time, in the right condition

- January 2015, The International Transport Forum by OECD
- Delivers a remarkable survey...
- **“ITF TRANSPORT OUTLOOK 2015“**
- Forecasting that by 2050...
- International freight transport, in billions t.km and related CO₂ emissions in billions t...
- Will have quadrupled!!!
- As a consequence of the development of global trade
- Freight transport being the main source of CO₂ emissions of surface transport

- Road, Rail, Maritime transport will no longer be able to operate independently, being obliged to cooperate together on a large scale
- To establish a global, unified and seamless transport system
- Improving significantly its performance level, on both technical and economical basis
- Reducing its CO₂ and particle emissions

- Maritime transport, Inland navigation, Rail transport exist only through mutualisation of their respective equipments
- Whereas Road transport with a semi-trailer coupled to a tractor unit and its driver is the only one to deliver a door-to-door service
- **THEREFORE ON BOTH TECHNICAL AND ECONOMY BASIS, SEMI-TRAILER MUST BE THE REFERENCE IN TERMS OF TRANSPORT EQUIPMENT, THE SWAP BODY AND THE SEA CONTAINER BEING ITS PERFECT CLONES**

- This questions the 8' wide ISO standard, responsible for harmful disruptions between maritime and overland transport
- To the detriment of Economy, Trade, modal shift and Climate

- Everywhere on Earth
- A MAN measures 1.75m and weighs 75kg
- Seven billions of these units in 2016, nine billions in 2050
- A MAN
- Who has been, who is and will remain the only reference in 1956, in 2016, in 2050...
- Imposing a unified industrial system
- Where a car, a metro, a tramway, Airbus as well as Boeing aircraft, a dish-washer, a chair, a bed, etc. are the same on the five continents.
- Imposing a seamless freight transport system worldwide!
- Where the Euro-pallet of 1 200 x 800 mm (ISO 3394) as well as the unit of 1 200 x 1 000 mm (49" x 40") are saturating the width of 2.60 m (8'6") of a transport equipment, namely road transport equipment
- A width compatible with the road infrastructure accommodating it

- 16.15 x 2.60 x 2.90 m (53' x 8' 6" x 9' 6") loading 39 Euro-pallets of 1 200 x 800 mm (or 30 pallets of 49" x 40") vs 33 only in a semi-trailer of 13.60 m long
- Why this unit of 16.15 m (53') long and 2.60 m (8'6") wide?
- This unit of 53' x 8'6" x9'6" has been operated for many years in North America (Canada, Mexico, The United States) on both road and rail (piggy back transport)
- It was also adopted by NOL (APL) between China and the USA showing that an 8'6" wide unit could be loaded on a cellular ship
- Last but not least, the unit of 16.15 m in also a perfect compromise effectively, sustaining modal shift where rail is operating full train loads over long distance on high density corridors, with 50 to 60 km base tunnels (Channel tunnel, Lötschberg 2, Saint Gothard 2, Brenner, Marmaray, Frejus base tunnel, Gibraltar) thanks to electric traction, overcoming natural barriers (mountainous areas and sea crossings)

BENEFITS

- Eliminate disruptions (transshipments, handling and repackaging of cargo in transit, empty running, down times at borders, risks of goods theft, drug trafficking and smuggling...)
- Increase effectiveness of transport (elimination of disruptions, optimized location of warehouses)
- Reduce cost of transport (improving the loading capacity of the unit : 39 ep vs 33 or 18% more and more again vs a maritime container)
- Ease and accelerate customs controls at borders
- Altogether improve connectivity of operations : safety (NRBC risks), and security (Trojan horse), better protection of cargo by an ultra-secure seal.
- Eliminate the missing link (the width of 2.435 m or 8' of an ISO container) to achieve a global innovation capitalising on a perfect modal shift between all surface transport modes
- To establish by 2050 – and earlier if possible – a unified, greener and seamless transport system connecting nine billions people on Mother Earth
- Of which four billions (45%) living on the EuropAsia mega-continent, will use the Transsiberian rail and The Silk Rail via Kazakhstan, Iran and Turkey, operating full train loads of combined transport
- Strongly shortening transit time to 15 days terminal to terminal with overland combined transport vs 35/40 by sea route, significantly improving the reliability of operations
- Significantly reducing it green gas and particle emissions
- Let us respect our Mother Earth and its air, her milk for MANKIND