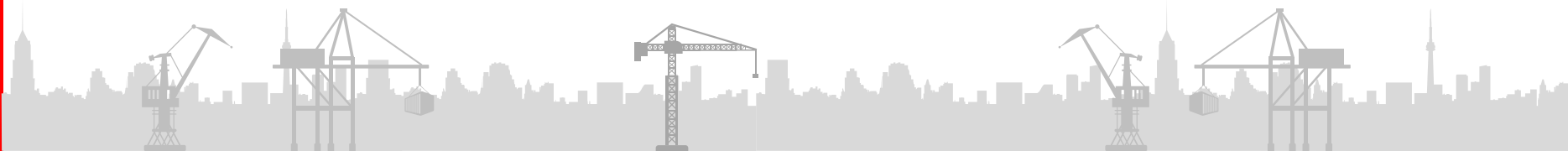


Need and usage of N3G vehicles in construction

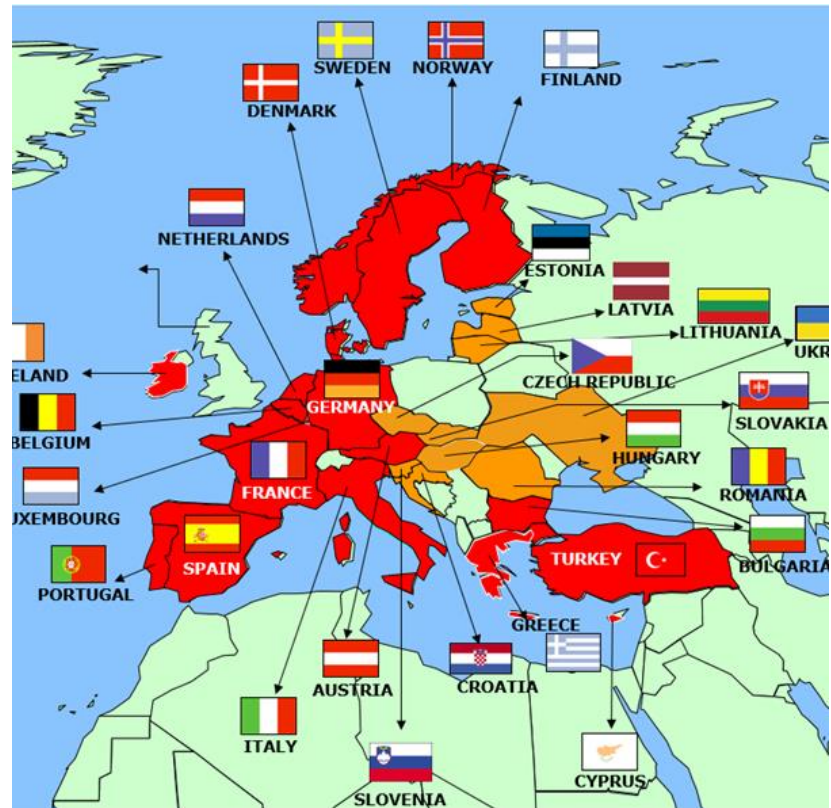
**Anne Fokke de Vries (Bouwend Nederland) &
Nicolas Gaubert (FNTF)**

16 June 2020



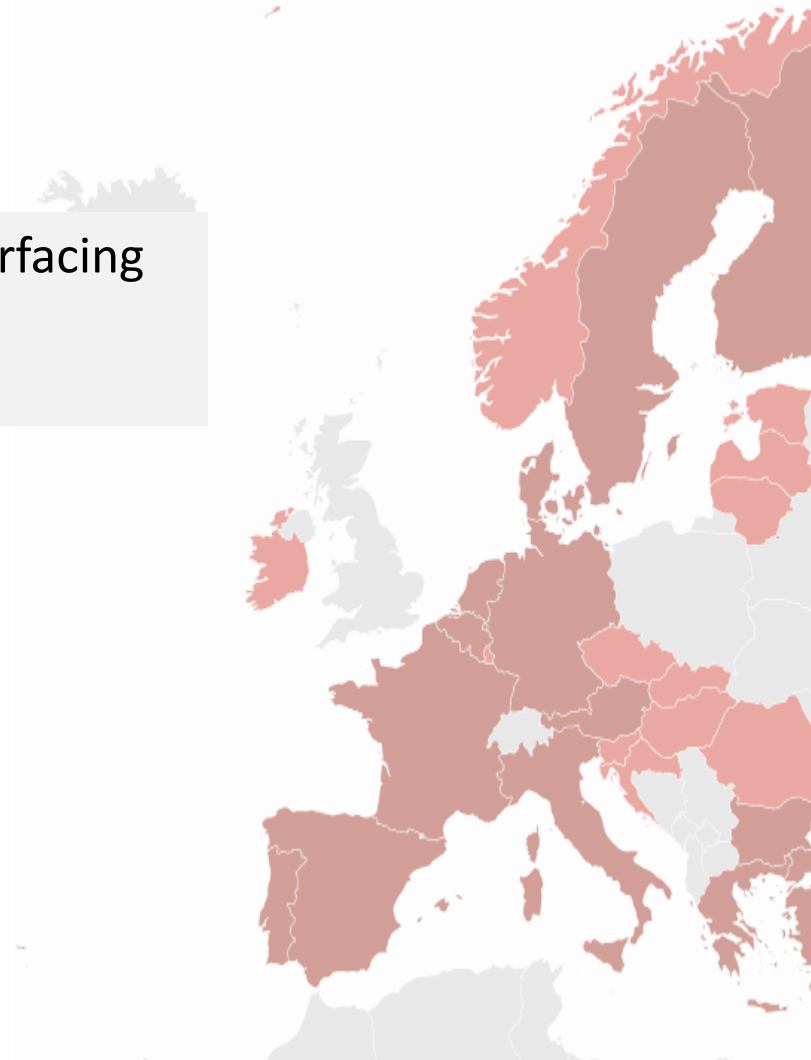
FIEC – European Construction Industry Federation

- 32 national Member Federations in 28 countries (25 EU, Norway, Ukraine & Turkey)
- represents construction companies of all sizes carrying out all forms of building and civil engineering activities
- the construction sector employs ≈12.7 million people representing more than 6% of EU27 total employment
- in 2019, investment in construction represented 9.5% of EU27 GDP



The use cases of N3G vehicles

- Construction sites of different types
 - Road construction - from earthworks to surfacing
 - Construction of buildings
 - Demolition of buildings
- Landfill and recycling sites





Building demolition site near Paris
La Défense



Hospital earthworks in Orleans



Demolition works



Earthworks



Need for high ground clearance

- Access roads, construction sites and landfills are challenging
 - Need for high ground clearance to operate properly
 - Protect the vehicle and its components on site
 - Large tyres for lower pressure on the ground's surface
 - Large tyres for high load bearing capacity
 - High ground clearance for allowing tipper trucks to tip into pavers



Tipper trucks tipping into
pavers



Low mileage in urban areas



Use in urban areas around 10 to 15% of annual mileage



Depends on construction and landfill site locations

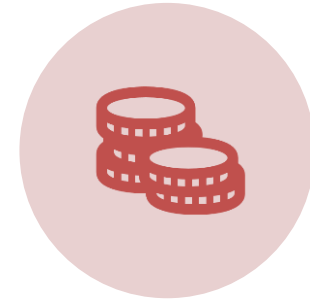
Side effects of potential registration ban



LOWER CAPACITY → MORE VEHICLES
- E.G. 1 LARGE CONCRETE MIXER
NEEDS TO BE REPLACED BY 1.5
SMALL CONCRETE MIXERS



INCREASE IN ENVIRONMENTAL
IMPACT



INCREASE IN COSTS OF TRANSITION
TO A CIRCULAR ECONOMY



Closing remarks

- Support for increased safety around the trucks
- Substantial need for off-road capabilities
- **Support for vehicle industry's proposal: differentiation of trucks in the direct vision requirement**

CONSTRUCTION 4.0

COMPETITIVENESS

GROWTH

ENERGY NETWORKS

EMPLOYMENT

ENERGY EFFICIENCY

SOCIAL INFRASTRUCTURE

BIM

WATER NETWORKS

ENVIRONMENT

TRANSPORT INFRASTRUCTURE

IT-NETWORKS

CONSTRUCTION IS THE SOLUTION INDUSTRY

YOUTH EMPLOYMENT

RESOURCE EFFICIENCY

JOBS

SKILLS TRAINING/EDUCATION

CLIMATE CHANGE

RECYCLING

ENERGY PRODUCTION

STANDARDISATION

INFRASTRUCTURE

INNOVATION