



NGVA
— Europe
for sustainable mobility

g-mobility platform

Concept presentation

Brussels, July 2018

- Natural gas as transport fuel
opportunities, synergies, roadmap to 2030
- The g-mobility platform
why, which benefits, how it could operate

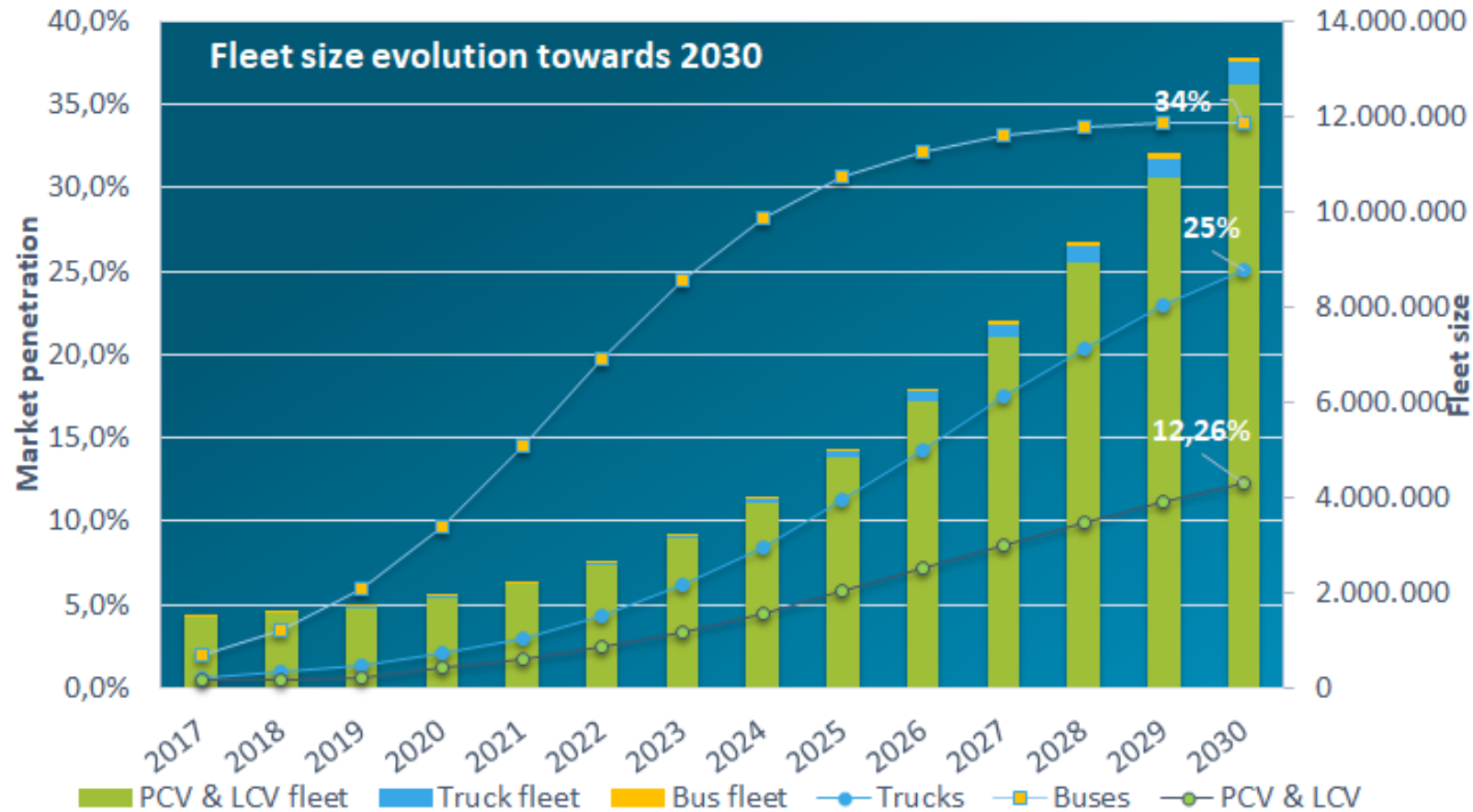


**ENVIRONMENTAL
PERFORMANCE**

**ENERGY SECURITY
RENEWABLES**

**MISSION PROFILE
AFFORDABILITY
TCO**

NATURAL GAS is AVAILABLE, AFFORDABLE, technologies are RELIABLE
Close to zero pollutant emissions
Carbon neutral mobility with renewable gas



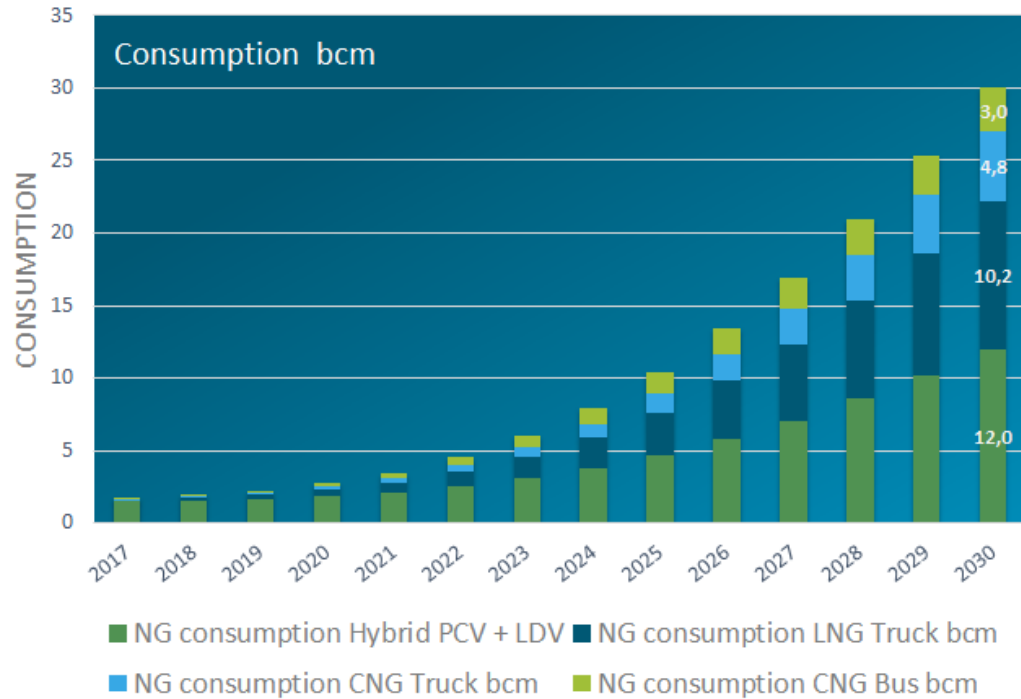
Urban bus & coaches natural gas solutions offer close to zero pollutant emissions and reduced level of noise.

Natural gas as « second » fuel for HD applications, both CNG and LNG

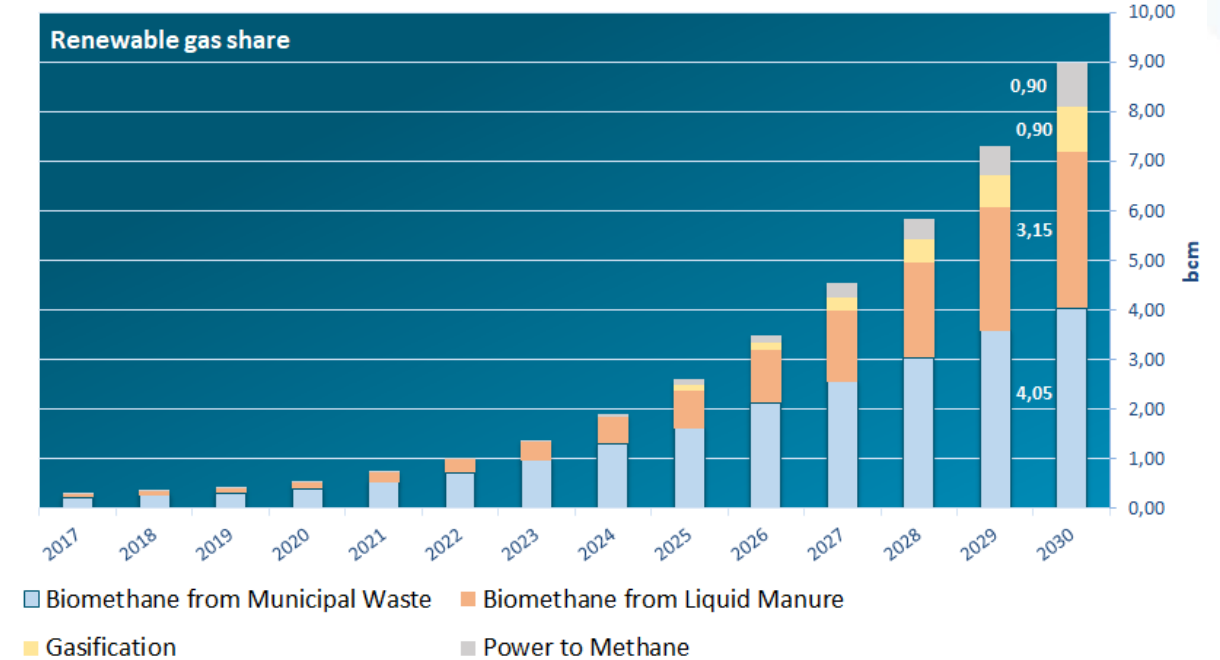
Clean fuels needed for PC & LDV, complementing the uptake of electric solutions



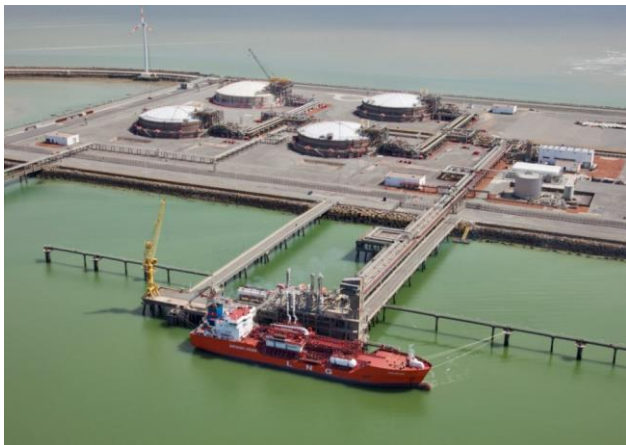
Fleet size x 10 @ 2030



**Overall Natural gas consumption
from road transport
30 bcm @ 2030**



**30% share from renewable gas
9 bcm @ 2030**

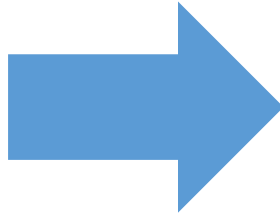


Source: GLE New LNG Services Inventory, May 2017

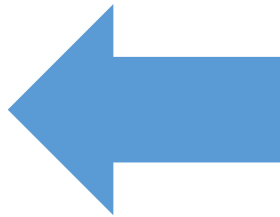
- Natural gas will play an important role supporting the transition towards a clean and sustainable transport system
- CNG, LNG, renewable gas are clean fuels able to cover a wide range of mission profiles, from urban areas to long haulage transport
- Interest in natural gas for the maritime sector is growing, especially w.r.t. LNG
- New technologies for high efficient dedicated engines, for advanced gas storage solutions, for renewable gas production processes are under development; natural gas is the cleanest fuel also suitable to support future vehicle hybrid architectures
- Industrial commitment and national policies are supporting a constant growth of the refuelling infrastructure, both for CNG and LNG distribution

Why a platform devoted to Natural Gas

A platform intended as
EU tool dedicated to



A reference platform
also w.r.t. national
initiatives



- **Monitoring the EU funded projects related to**
 - *renewable gas production process*
 - *refuelling infrastructure*
 - *technologies development*
- **Matching R&D activities and demonstration projects providing a common floor to H2020&FP9 and CEF projects as well as LIFE and INTERREG initiatives.**
- **Offering a common floor to road and maritime transport sectors, being able to liaise with other energy sectors (electricity, hydrogen)**
- **Facilitating synergies and cross-fertilization among projects and sectors**
- **Identifying technological and legislative barriers**
- **Supporting dissemination through dedicated workshops/events**
- **Optimizing the financial support from the EU Commission**

Connecting Europe Facility Horizon 2020

**Renewable gas
production**

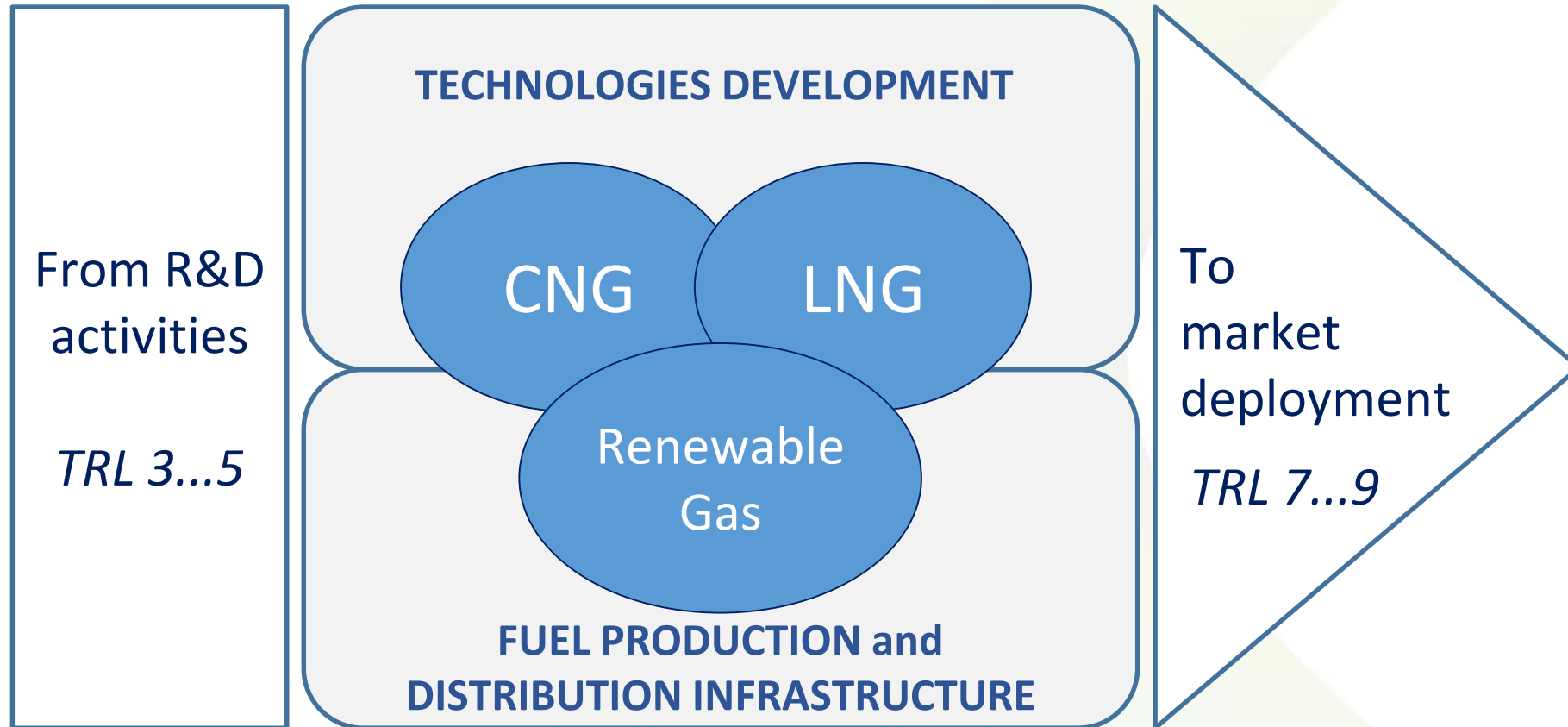
**Gas sector coupling
with H₂ (blending)**

**Gas refuelling infrastructure
(CNG/LNG)**

Vehicle technologies
(engines, storage systems, gas
aftertreatment devices,...)

Platform role

- Project outcomes monitoring
- Gap analysis:
technical bottlenecks/needs
legislative barriers
- Addressing future needs in R&I and
infrastructure
- Supporting future calls definition



The aim is to create a functional tool

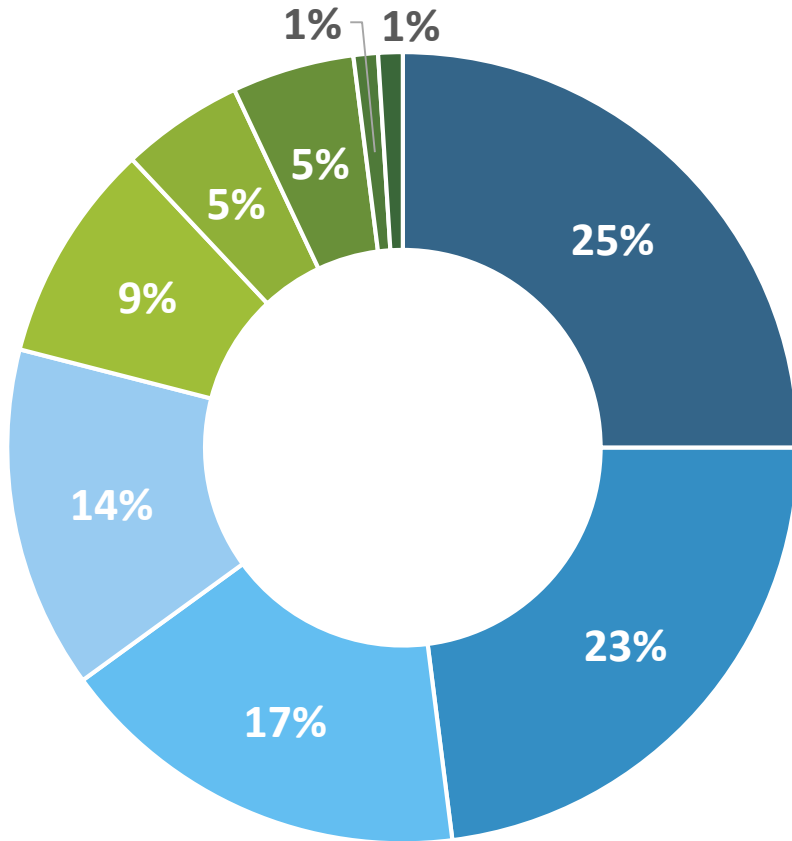
1 - to stakeholders

- to be informed about new EU funding opportunities
- to be aware of already existing projects
- to receive information about project progresses and results
- to have additional opportunities for dissemination
- to search for new partnership and technology scouting

2 – to the EU Commission

- to have a common and continuous monitoring from project outcomes
- to better identify research needs
- to better identify legislative bottlenecks
- to liaise different transport sectors (road and maritime)
- to optimize the EU financial support





Membership composition

- Gas companies
- Station infrastructure & components
- Vehicle components
- Associations
- Engineering services
- OEMs
- Fleet operators
- Research institutes
- Others

135 members
from **31** countries



33 Board members
from **13** countries



The platform does not aim to directly finance projects (no budget inside) but to act under a scheme similar to the CSA (Coordinating and Supporting Actions) as under H2020.

Duration and scheme of such an initiative are to be discussed

NGVA is available to take the lead of this initiative within the overall target to strengthen the role of natural gas as transport fuel.

Involvement of other Associations needed to complete the representativeness of the platform is also possible.





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