

ALICE-HYDROGEN EUROPE COLLABORATION LAUNCH EVENT

Joining forces to help decarbonise
road transport logistics

4th March

09.00 to 11.00 CET





Sabrine Skiker
EU Policy Manager - Land Transport
Hydrogen Europe



Fernando Liesa
Secretary-General, ALICE



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Hydrogen Europe – ALICE collaboration



Memorandum of Understanding boosting Hydrogen based solutions for transportation/logistics as key to achieve medium- and long-term European Green Deal objectives



Joint strategic objective: support the development of hydrogen-based transportation technologies suited for needs of users - carriers, logistics companies and shippers taking into account industrial developments – aim is to accelerate market readiness through innovative concepts and solutions



Joint activities to kick-start in Q1 2021



Workstreams – what's the plan?

- Exchange of knowledge and views of offer and demand – partnerships
- Where to start? Low hanging fruits
- Identifying the main blockers and concrete actions to be taken at political level, by companies and R&I
- Facilitate access to support programmes and incentives



Workstreams: Exchange of knowledge and views of offer and demand

- Mapping and sharing of results from pilots and initiatives
- Mapping of Infrastructures (plans) and (low carbon and renewable) hydrogen availability
 - Is there enough demand to make RoI work on Hydrogen dispensers?
- Develop projects partnerships

We all want to move faster: what is stopping us and how can we fix it ?

Building a clear understanding of the different stakeholders' barriers and capabilities:

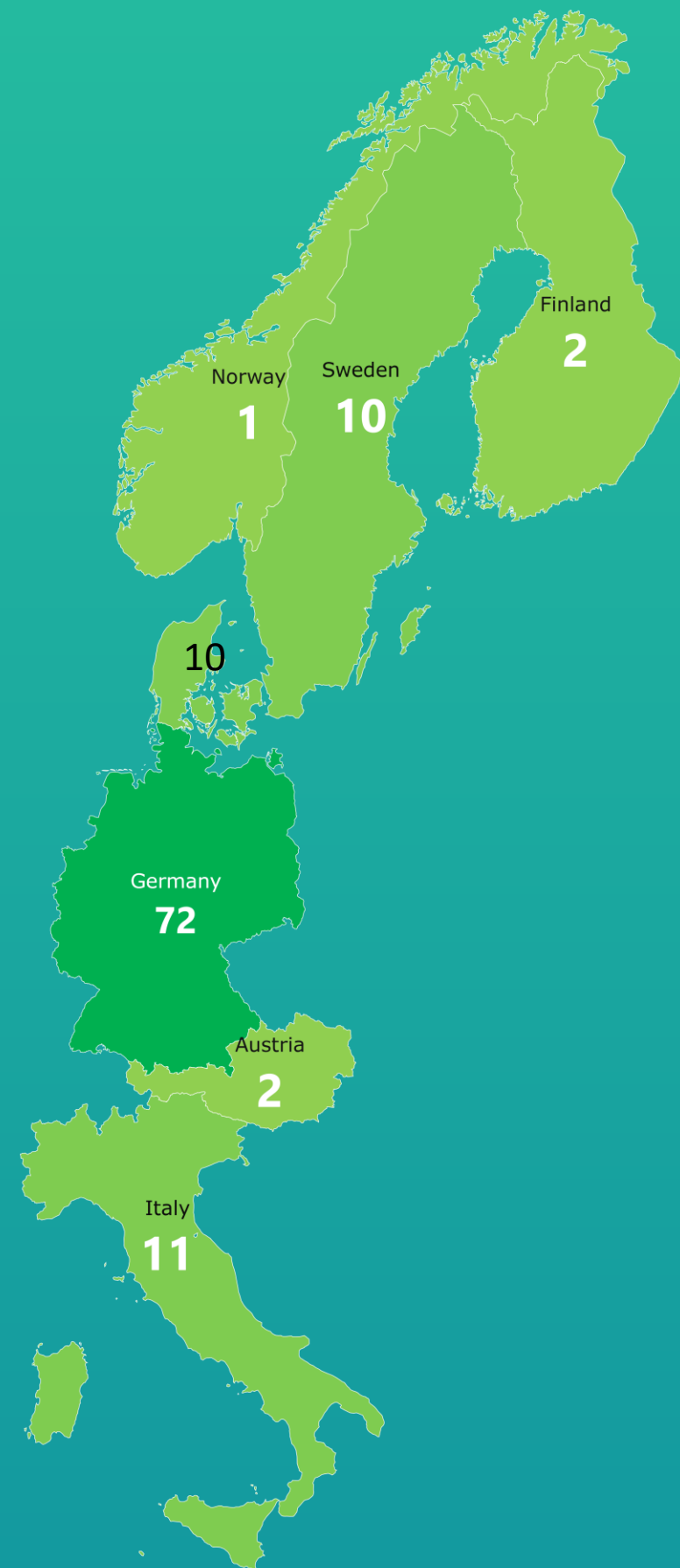
- Technology readiness of different hydrogen technologies
- Market preparation
- Investment
- Framework conditions

Workstreams: Where to start?

- **Support first movers from both offer and demand**
- **Suitable Corridors:** readiness, willingness (offer, demand and framework), is hydrogen the long-term solution vs others (e.g., intermodal)? → see next slide one example
- **Finding THE top use cases**
- **What will be available in the next 2 to 5 years:**
 - Retrofitting?
 - First Infrastructures? Locations?
 - First implementations?



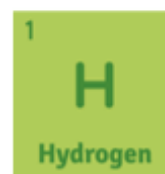
5% of trucks in 2023



3,902 HGV



108 HRS with 1.2 tH2 per day capacity



32,800 t of renewable H2 per year

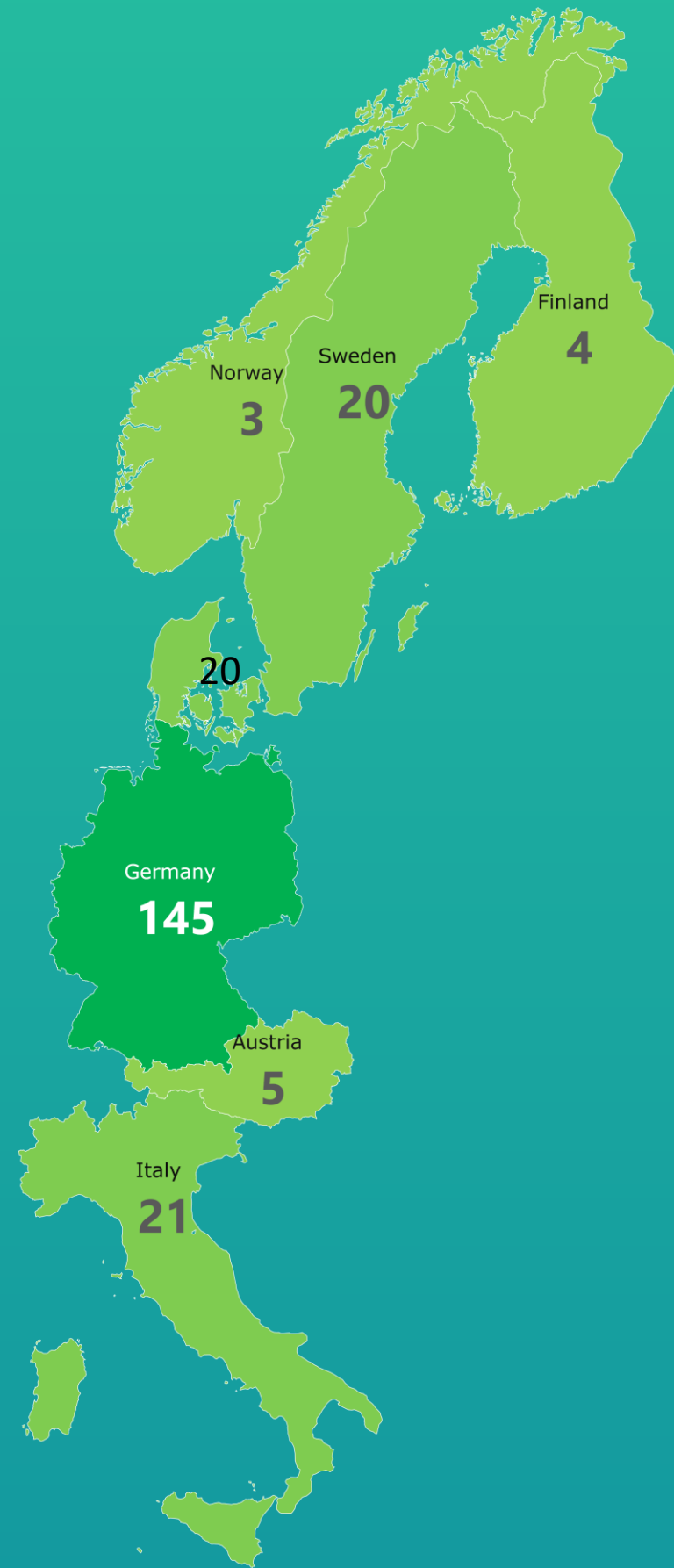


0.46 Mt of CO2 emissions saved per year



€ 330 Million (HRS Only)

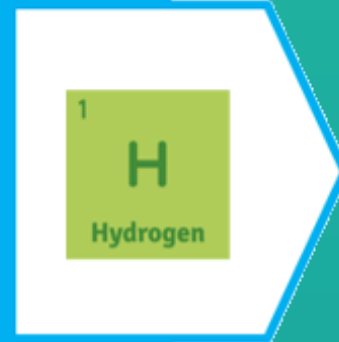
50% of trucks in 2030



39,000 HGV



218 HRS with 6.0 tH2 per day capacity



328,000 t of renewable H2 per year



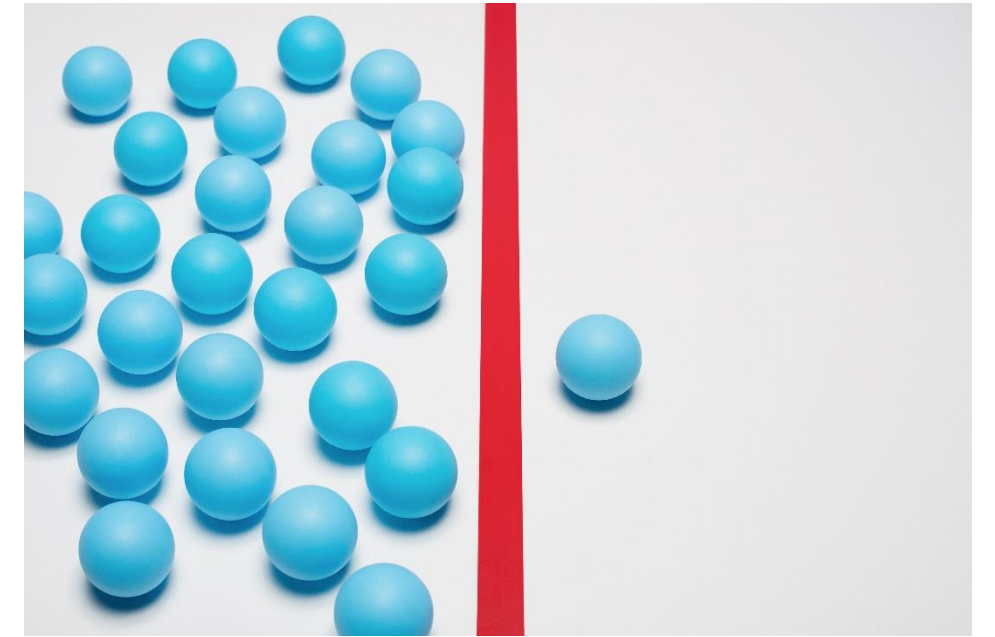
4.6 Mt of CO2 emissions per year



€ 1 billion (HRS Only)

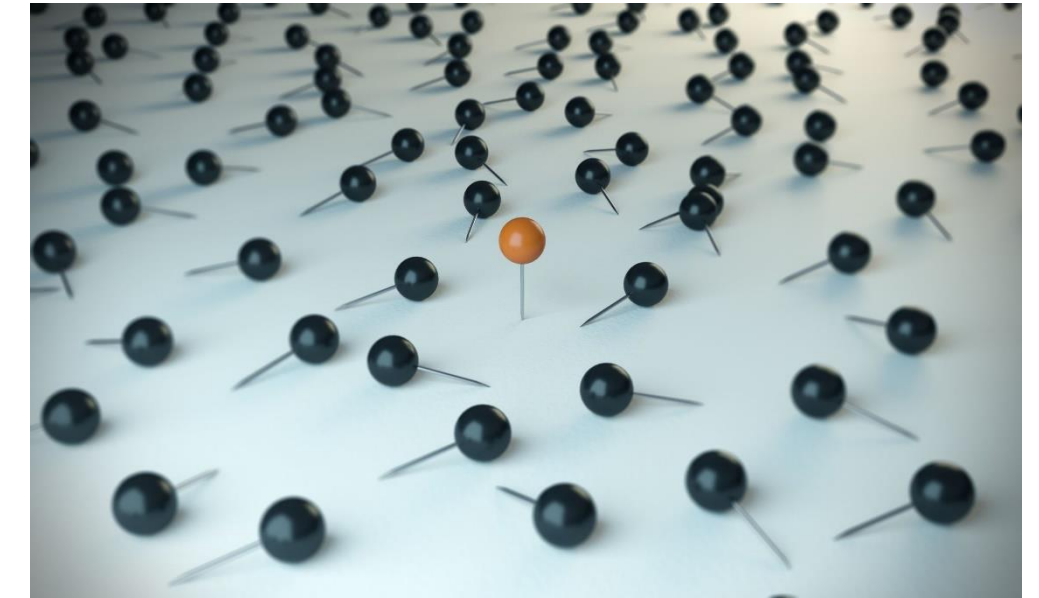
Workstreams: Identifying main blockers and concrete actions to be taken by governments, companies and R&I

- What are the **concrete bottlenecks and main barriers** for adoption?
- **Policy developments** at stake: Weights & Dimension, TEN-T guidelines revision ...
- How can **technological and market readiness** be accelerated?
- What are the **lessons learned from R&I** and what is the next step?
- What **use cases/logistics practices** could improve vehicle performance?
- How can the **burden/TCO gap** be reduced?



Workstreams: Facilitate access to support programmes and incentives

- Possible **Funding Programmes/supporting schemes**
 - CEF, 2Zero, CHEP, EU Resilient fund
 - Link with the European Clean Hydrogen Alliance/2ZERO.
 - What type of projects are supported by each programme?
- Define priorities for different **programme development**
- Develop activities for generating **proposals**



Format and who can join?

Workshops for ALICE and
Hydrogen Europe members

Joint Advocacy Activities

Open Sessions



alice

Alliance for
Logistics Innovation
through Collaboration
in Europe



Hydrogen Europe

Fernando Liesa
Secretary General
fliesa@etp-alice.eu

ALICE SECRETARIAT

Avenue Jacques Brel 38/0
BE-1200 Brussels

info@etp-alice.eu

www.etp-alice.eu



Sabrine Skiker
EU Policy Manager – Land transport
s.skiker@hydrogeneurope.eu

HYDROGEN EUROPE SECRETARIAT

Avenue de la Toison d'Or 56-60
BE-1060 Brussels

secretariat@hydrogeneurope.eu

+32 (0) 2 540 87 75

www.hydrogeneurope.eu



ALICE & Hydrogen Europe joint group