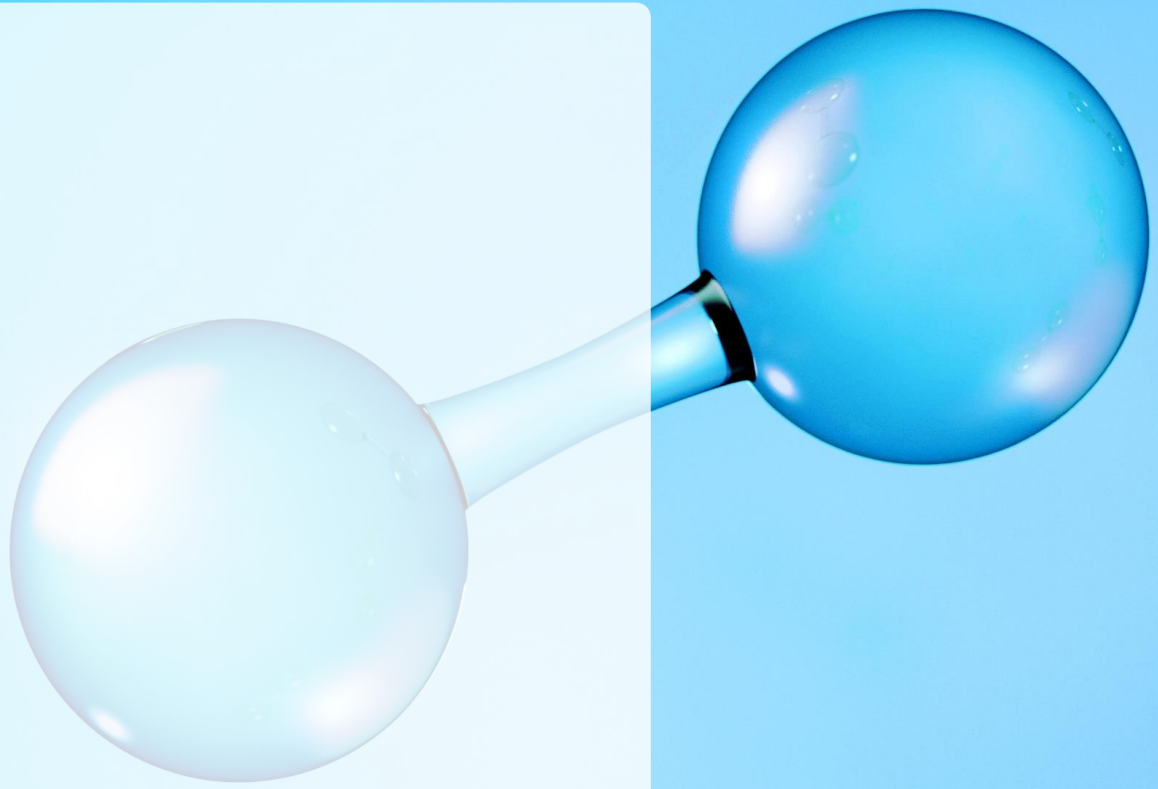
DB Cargo

H_2Rail

Hydrogen logistics at DB Cargo

2024



DB Cargo – A strong partner also for new energy transports

DB Cargo

A strong partner for the European industry

DB Cargo portfolio

Transport volume

Approx. 3,600 trains / day
Approx. 74,500 million tkm / year

Germany and Europe

Transports in more than 30 countries
15 national companies

Future markets New Energy

Hydrogen logistics
Carbon capture logistics

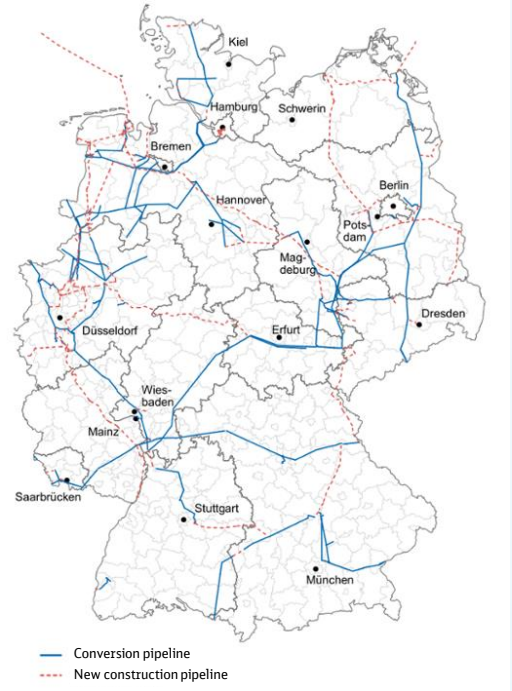
German rail network[1]

Environmentally friendly new energy transports

Advantages of rail-based H_2 logistics

1. Rail transport early enabler
2. Rail as a distribution network (+ CT)
3. Climate advantage DB Cargo
4. Direct onward transport of import quantities
5. Safe transports of hazardous goods

Planning for the H_2 core network[2]



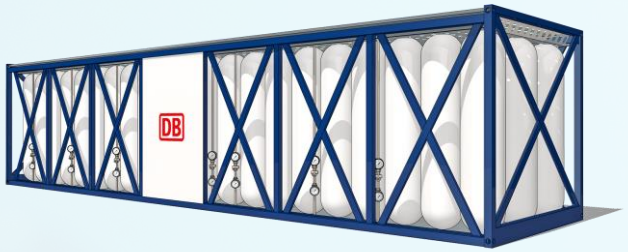
(1) Source: DB InfraGO AG (2) Source: FNB Gas e.V.

DB Cargo – Transport equipment for all forms of hydrogen

DB Cargo

Gaseous hydrogen (H_2)

MEGC
(Multi Element Gas Container)



Pressure stages 60 - 500 bar

Max 1.3 t H_2 /1x 40' container

High acquisition costs

Hydrogen derivatives
(ammonia, methanol, LOHC)

Tank wagon
(also possible as a container)

Transport in liquid state

Example ammonia: approx. 55 tonnes content

Equipment = market standard

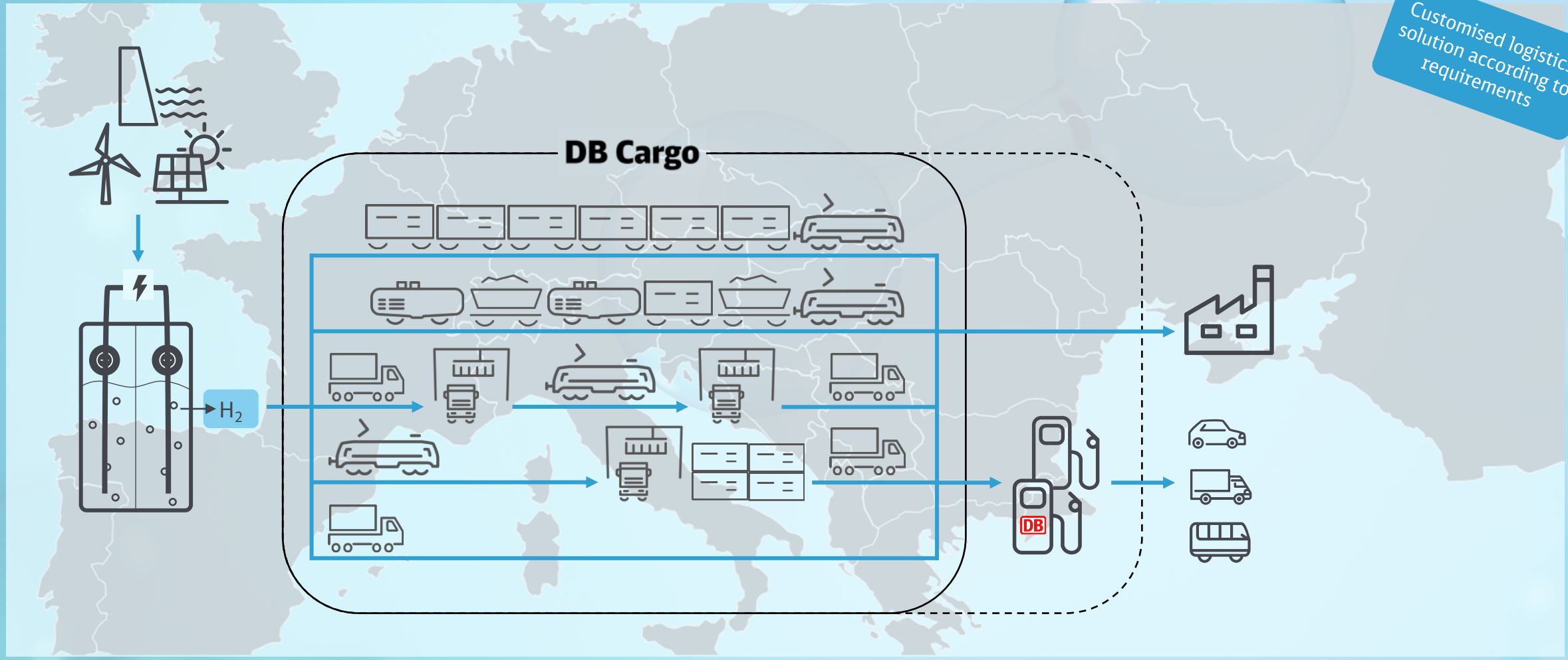
In progress

Liquid cryogenic Hydrogen (LH_2)

Cryo container

40' container for approx. 3 tonnes of H_2
(at approx. -256 °C)

DB Cargo – Rail-based service portfolio



H_2Rail

Meet the team

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