



BOSCH Air Quality and Sustainability Solutions

ORGANIZZATO DA



BolognaFiere, 9-11 ottobre 2024

IN COLLABORAZIONE CON



In 2023



91.6

billion euros
sales revenue



4.8

billion euros EBIT
from operations



429,416

Bosch associates
worldwide



470

subsidiaries and
regional companies in
more than **60** countries

Figures for the 2023 business year.

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In 2023



7.3

billion euros
invested in research
and development



8%

as percentage of
sales



90.100

associates work
in R&D, including

48,000
software developers



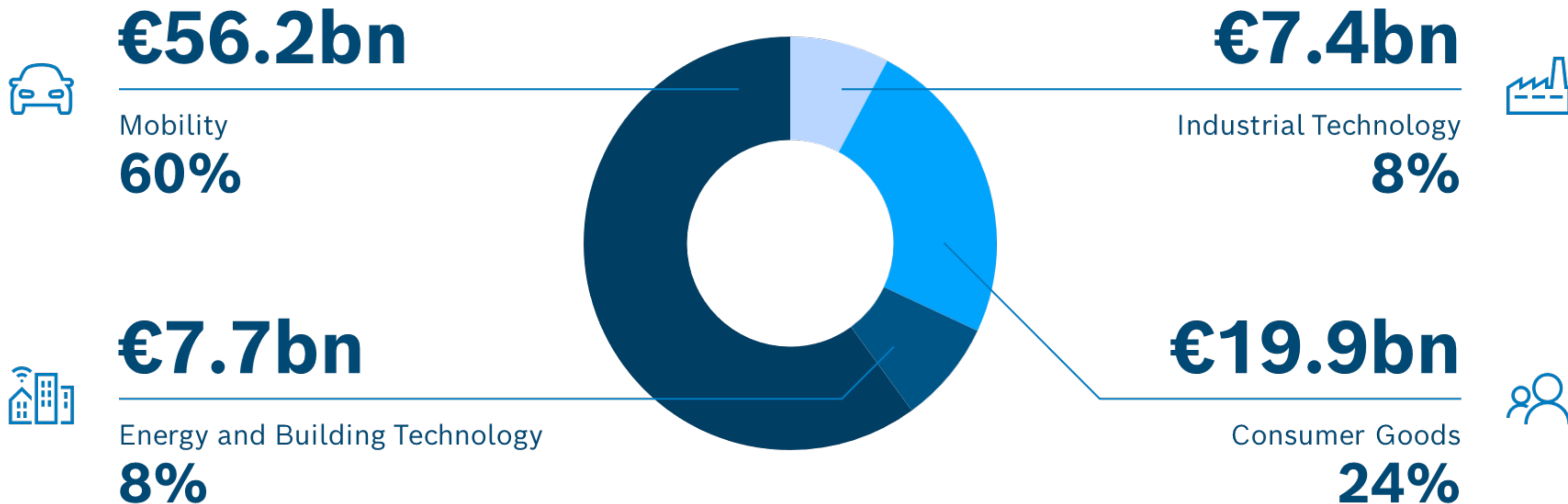
136

R&D locations
worldwide

Figures for the 2023 business year.

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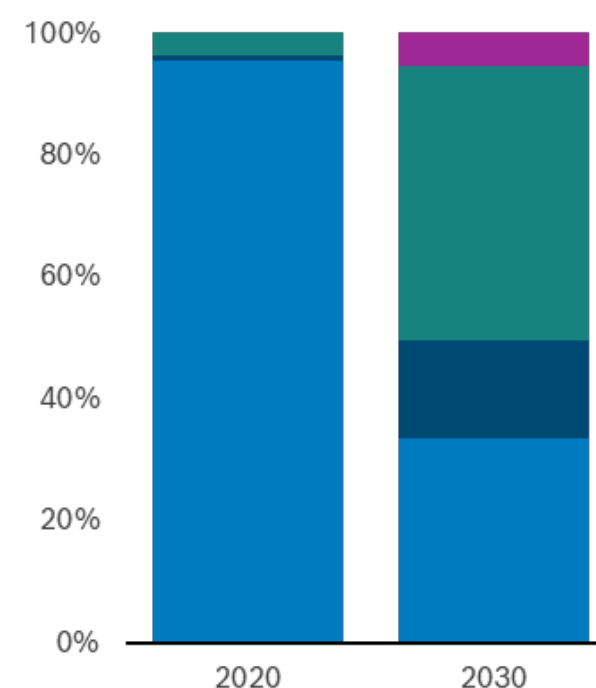
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Focus on existing ICE* fleets

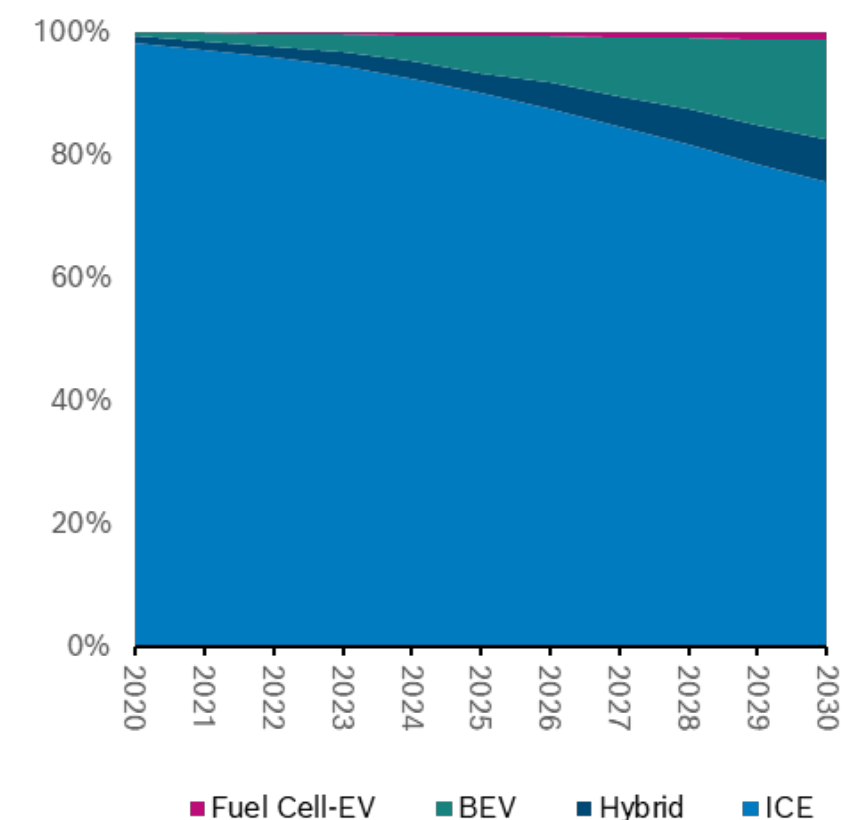
New registrations
(EU28 all road vehicles)



* ICE – Internal Combustion Engine

Source: Bosch Automotive Market planning 2023

Vehicle stock
(EU28 all road vehicles)



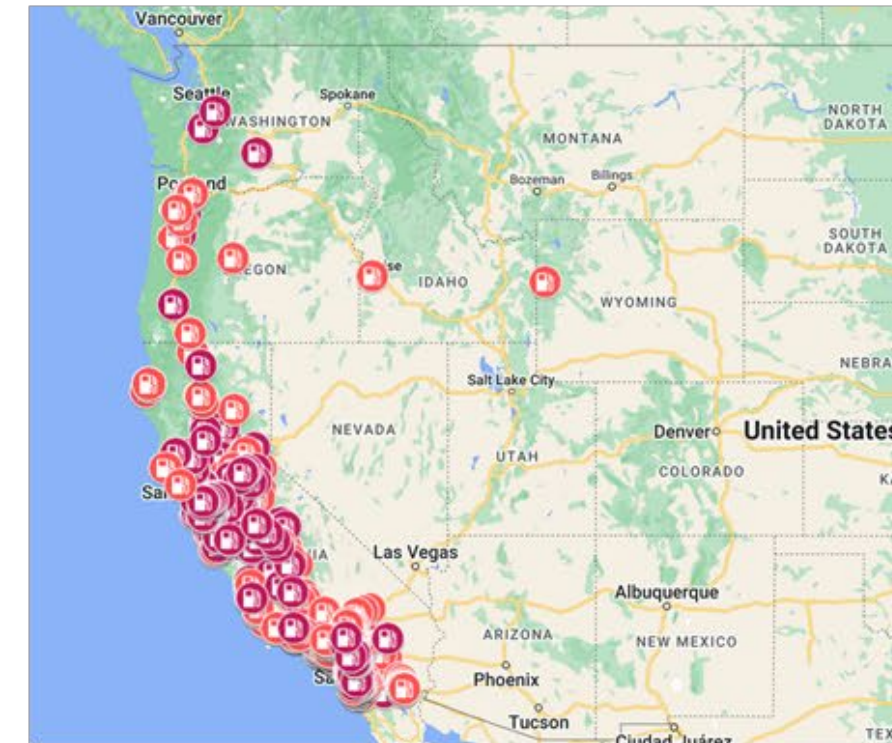
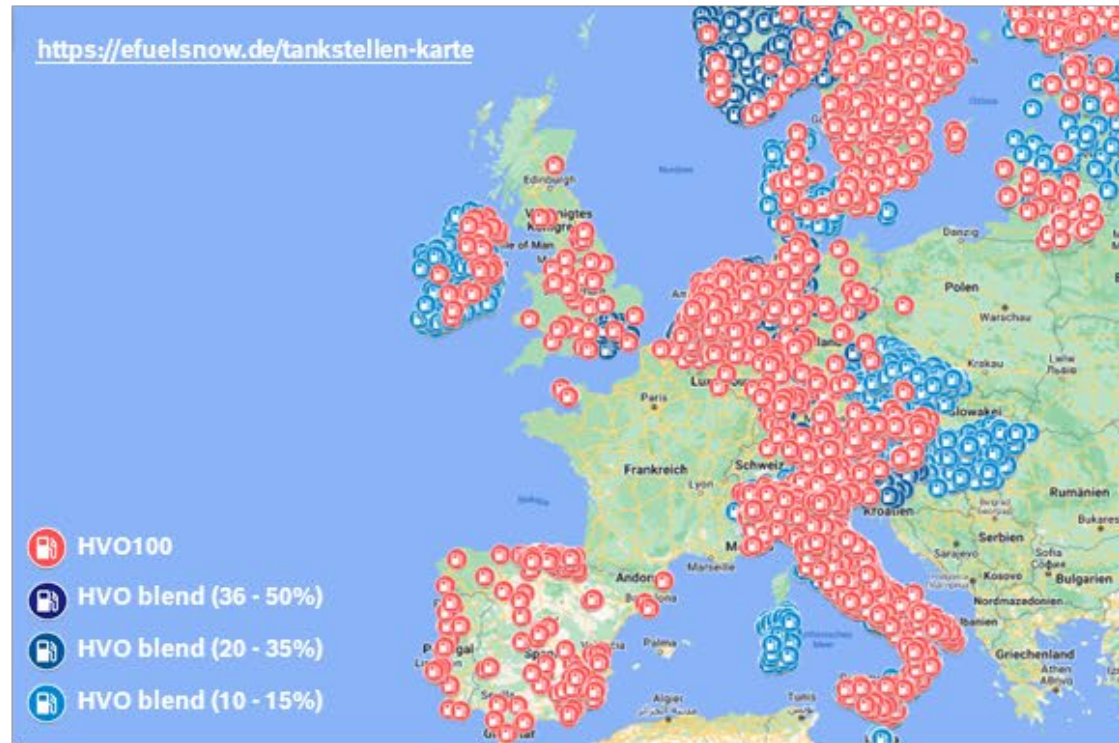
■ Fuel Cell-EV ■ BEV ■ Hybrid ■ ICE

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Renewable fuels (i.e., HVO*) now widely available in Europe

*Hydrotreated
Vegetable Oil



Renewable fuels are **highly available** in many **EU member states**

By using these, an existing fleet of Diesel-engine vehicles can be operated with **high CO2-savings (>90%)**

...without the need to **invest in new vehicles**

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By bringing together

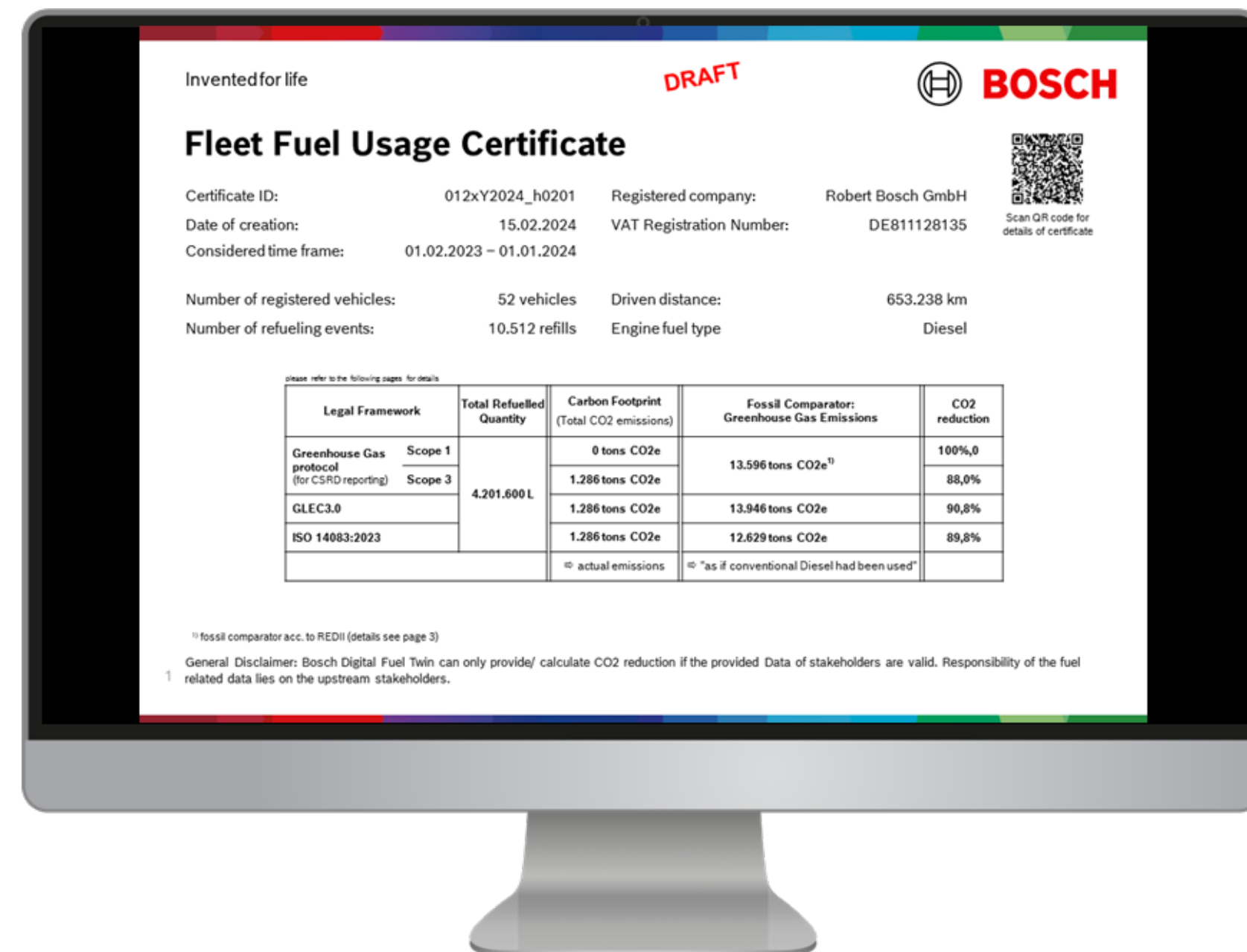


CO₂ information from the fuels industry plus

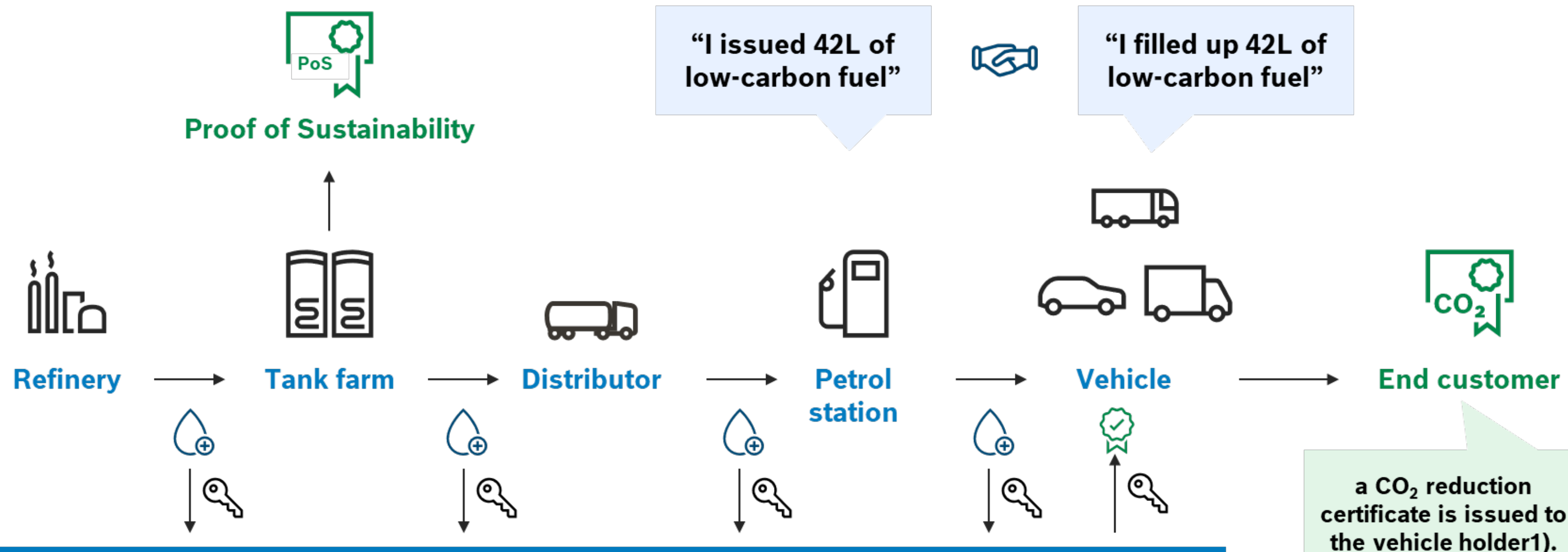


Consumption information from vehicles

Bosch is able to provide fuel usage certificates showing the actual **CO₂ reductions**, when renewable fuels are used

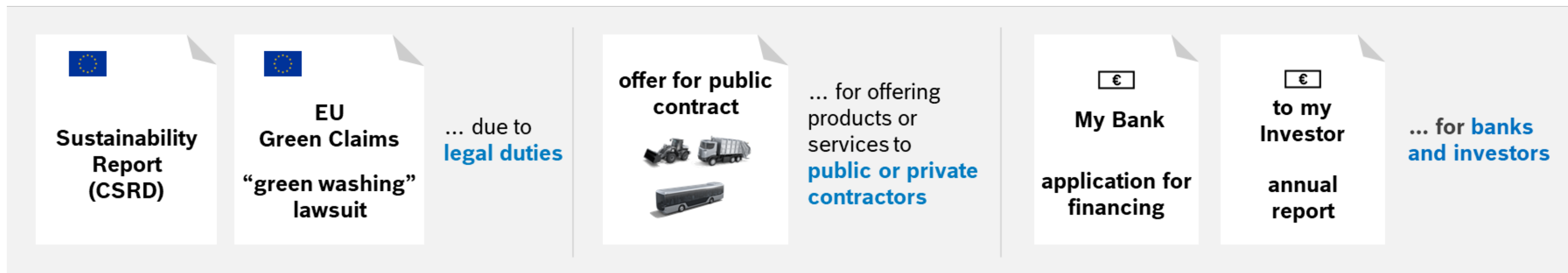


Digital Fuel Twin Platform – Working Principle



DFT platform and services:
Along the supply chain, a digital tag is attached to every step of fuel delivery

In the next years, companies will need to comply with more and more CO2 reporting duties



Companies obliged to report carbon footprint

1 CSRD – Corporate Sustainability Reporting Directive

2 NFRD – Non-Financial Reporting Directive

3 SME – Small and Medium-Size Enterprises

	2024	● 2025	● 2026	● 2028
	Companies already under NFRD ²⁾	“Big companies”	SME’s ³⁾ (capital-market orientated)	Companies with parent in 3 rd countries
Employees	<ul style="list-style-type: none"> ▪ Banks ▪ Insurance companies ▪ Companies listed on the stock market 	> 250	10	
Net turnover		> 40 mio €	> 0,7 mio €	> 150 mio €
Balance sheet		> 20 mio €	>0,35 mio €	
Criteria		if 2 out of 3 are met		
Expected nr. Of affected companies			50.000	

- Every commercial move along the supply chain has to be reported over the product life cycle !
- Sustainability reports as decisive business success factors – also for small companies !

Thanks for your attention



**Sustainable
Mobility & Transport
with
Digital Fuel Twin**

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