International comparison sustainable transport approach

Key policies of three frontrunners on zero emission electric transport

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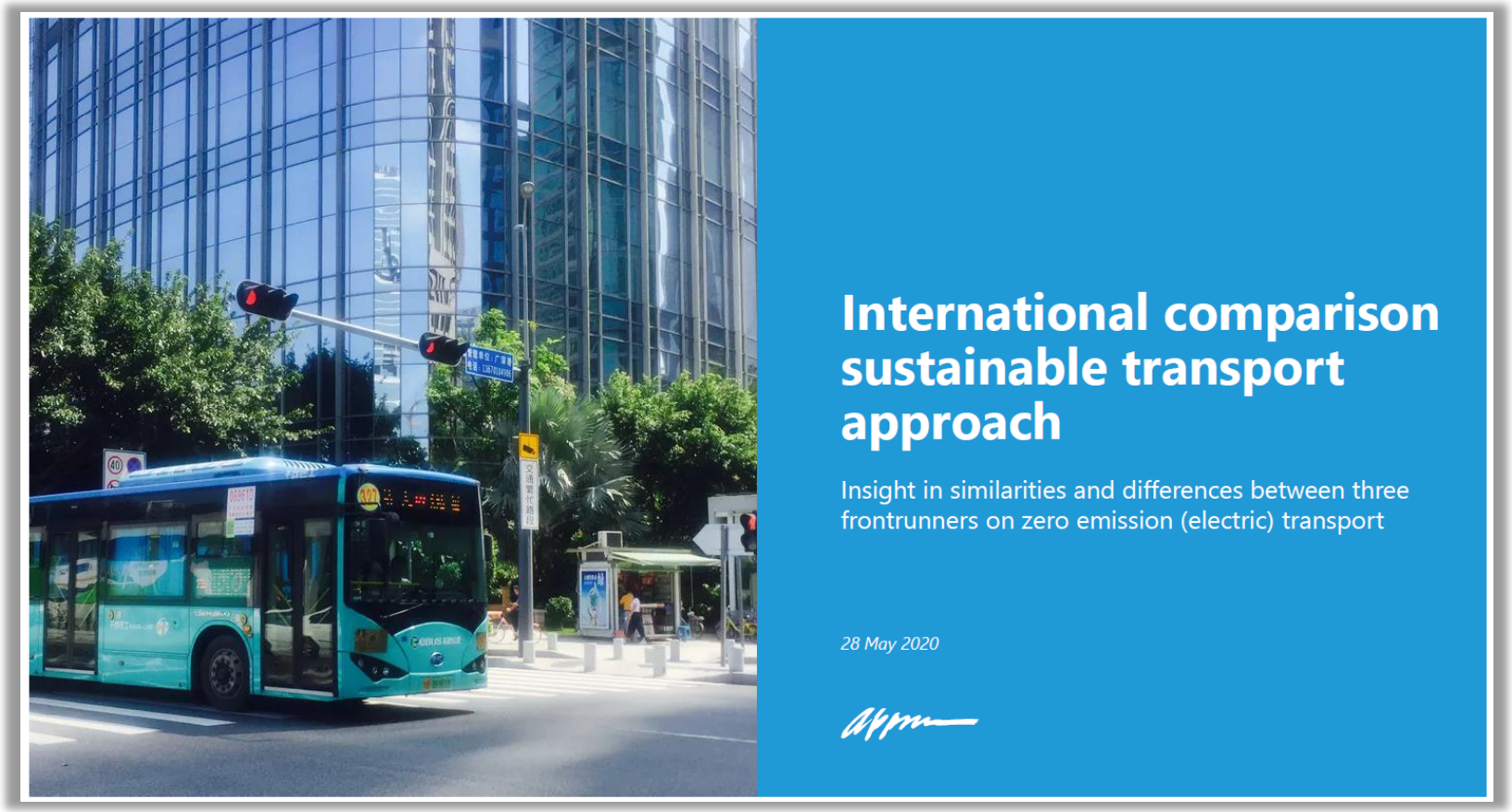
Introduction

- Different international approaches to achieve sustainable transport
- Various countries and regions are frontrunners in this transition
- What policies have they implemented and what can we learn from them?
- Deep dive into three global frontrunners

Report “International comparison sustainable transport approach”



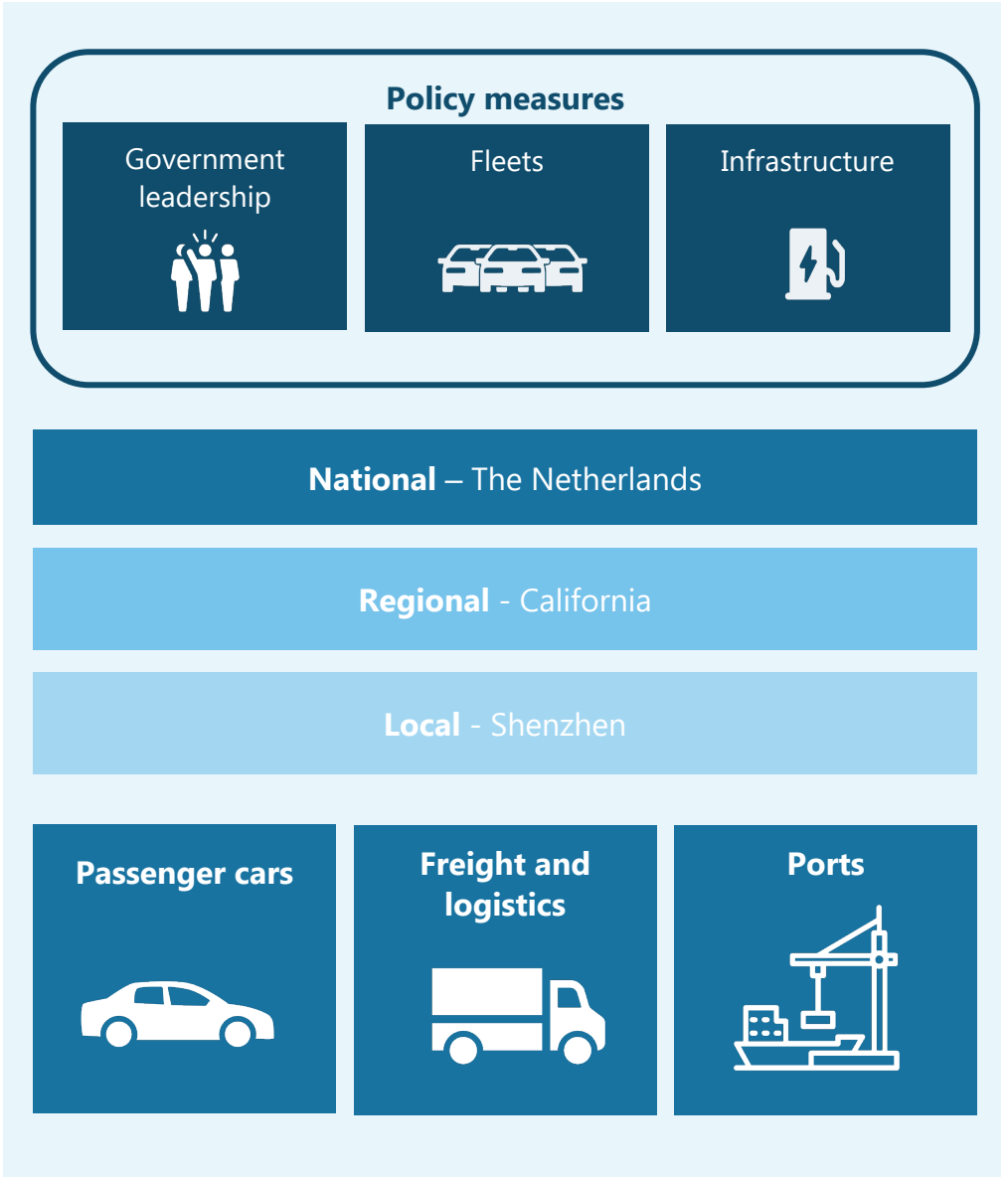
We will share the report together with this presentation

Approach comparison

- Success factors for EV uptake:
  - Formulate ambitions and targets
  - Realize a fleet of vehicles
  - Adequate (charging) infrastructure

- Comparison of three global frontrunners of sustainable transport

- Three different types of transport in different stages of transition:
  - Passenger cars
  - Freight and logistics
  - Ports



The Netherlands

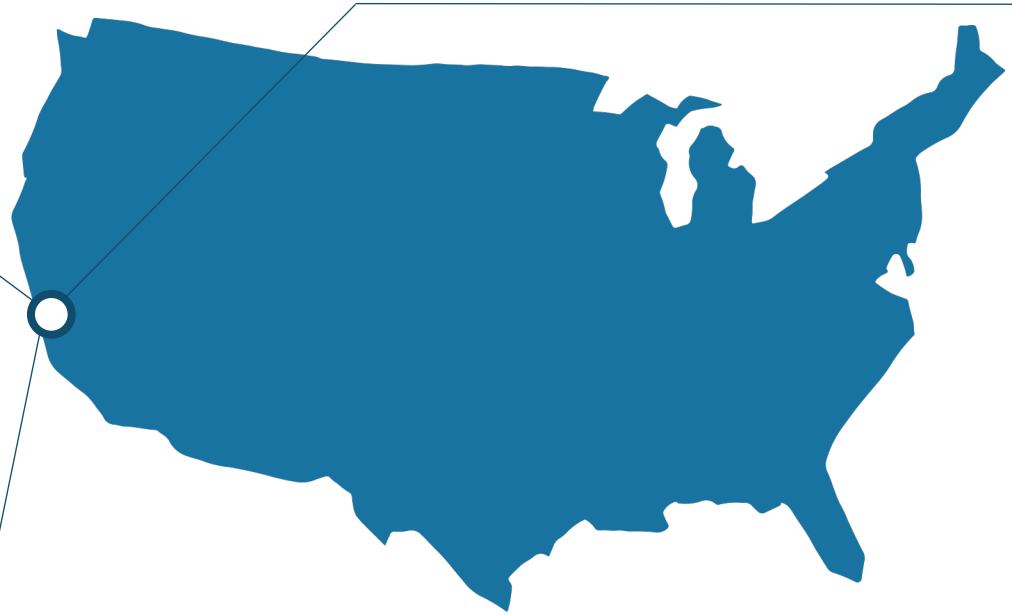
- 17 million inhabitants
- 8 million passenger cars
- 213,000 EVs (2.6%)

- Active with EV since 2010
- Open and competitive market model for charging infrastructure
- Frontrunner in interoperability

- One of the world's densest charging networks
- 53.000 AC / 319 DC stations
- 1 charge station per 3.8 EVs

California

- 40 million inhabitants
- 14.6 million passenger cars
- 700,110 EVs (4.8%)



- Strong focus on freight by combination of supporting measures and mandates
- Much faster uptake of EVs then elsewhere in the US

- Largest network of public charge stations in the US
- 22,500 AC / 3,000 DC stations
- 1 charge station per 27.2 EVs

Shenzhen

- 12.5 million inhabitants
- 3 million passenger cars
- 91,000 EVs (3%)

- Big government effort to promote EVs with broad scope of policy actions
- Targeted approach to electrify transit buses and commercial taxis

- Large increase of DC-chargers due to subsidies for “concentrated” charging locations
- 30,000 AC / 6,100 DC stations
- 1 charge station per 2.6 EVs

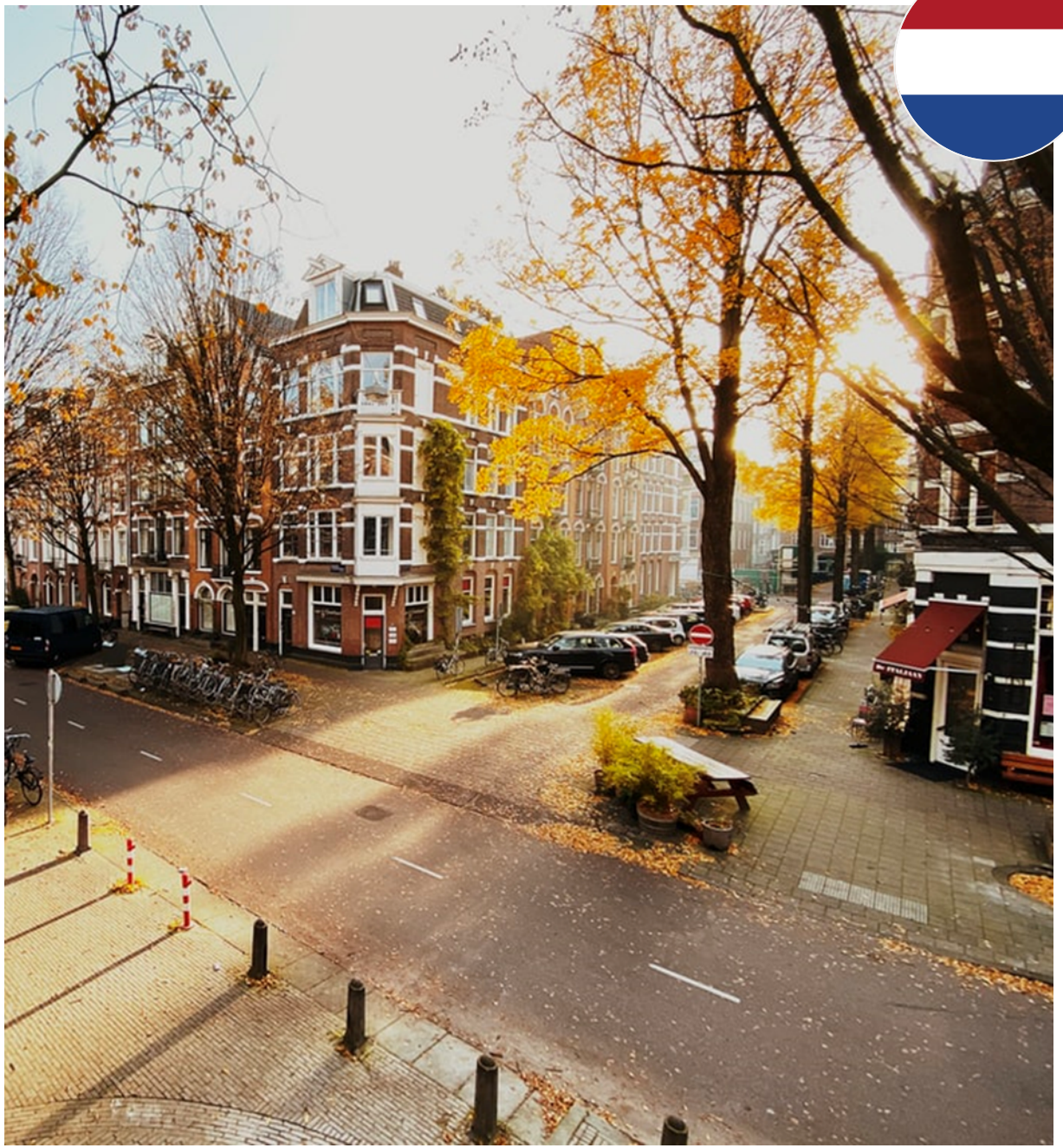
Ambition frontrunners

The Netherlands

- In 2030 all new cars sold are zero-emission
- Zero-emission zones in 30-40 cities by 2025
- 95% reduction of CO2 in the mobility sector in 2050 compared to 1990

Key policies

- Smart procurement of charging infrastructure
- Target group policy



Ambition frontrunners

California

- By 2025, 250,000 EV charging stations
- 5 million ZEVs on the roads by 2030
- Advanced Clean Trucks standard: 300,000 electric trucks on roads by 2035

Key policies

- Zero Emission Vehicle Mandate
- Public awareness and support

Ambition frontrunners

Shenzhen

- Cut all CO_2 emissions in public transport sector by 2020
- By 2025, 25% of vehicles sold should be New Energy Vehicles (BEV, PHEV)
- ‘Made in China 2025’ aims for domestic carmakers to sell 3 million EVs a year

Key policies

- Operational subsidy standards for freight
- Technical eligibility requirements for subsidies

Keep on learning

Country	Policy	NL	California	Shenzhen
NL	Smart procurement	n.a.	+++	+
CA	Public campain	++	n.a.	+
CA	ZEV Mandate	++	n.a.	+++
Shenzhen	Operational subsidy standards	+++	+	n.a.