



The road to ZE city logistics



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Royal Euser

Family owned company;

- Founded 1918
- Transport vegetables and fruits from farms to traders
- In 100 years survived different types of crisis (WO I and II, and now pandemic- lockdown)
- 2021 first BEV will be delivered and operated



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100 jaar

Active in different markets:

omzet Euser Transport



■ retail ■ horeca ■ pallet distributie ■ pharma

Transport DC to
supermarkets



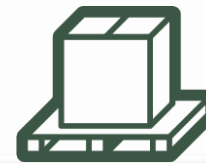
RETAIL

transport DC
to
hotel/restaura
nts



HORECA

transport
network cargo



PALLETDISTRIBUTIE

transport DC
drugstore /
hospitals
/patient



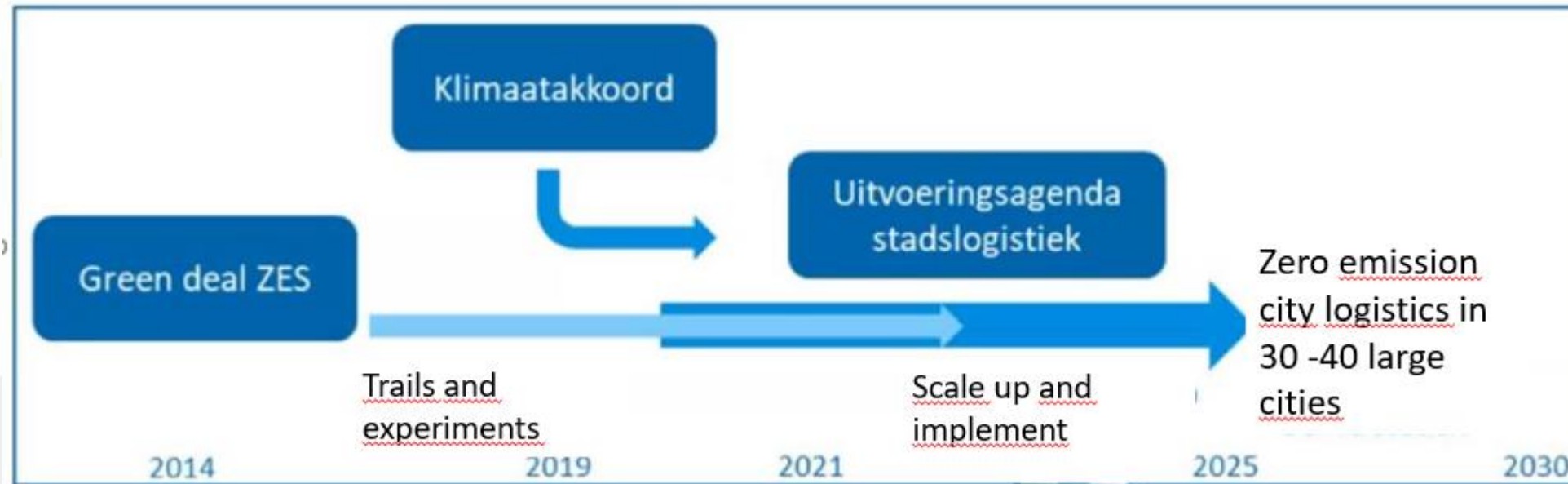
PHARMA

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Challenges for Dutch city logistics

Zero Emission City Logistics from 2025



And more challenges:

Bereikbaarheid: grote uitdagingen komen op ons af.

30-40 binnensteden met ZE-zones gaan op slot voor groot en efficiënt transport



AH groeit in de binnensteden van de Randstad



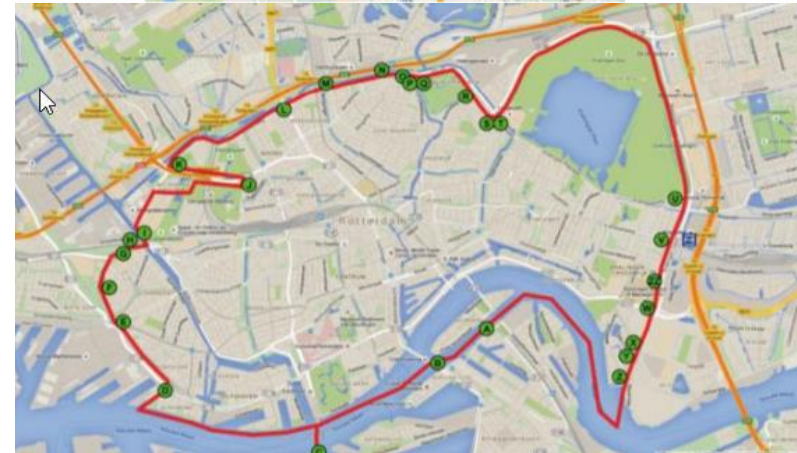
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Zero Emission zones are defined:

Zero Emission Stadslogistiek vanaf 2025

Vanaf het laatste kwartaal van 2020 maakten de eerste steden hun Zero Emissie Zones bekend. Inmiddels (maart 2021) staat de teller op 14 steden



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E- trucks; OEMS have solutions

SO..... The roll out starts (???)



First step to take: Financial impact

The Business Case of the E-truck:

Fixed Yearly costs:

- Purchase value: 4 times the price of a Diesel Truck
- Residual value: Zero!!

Variable Yearly costs:

- Maintenance and repair: should be lower but batterrie waranty
- Fuel vs Electricty: 50 % benefit per km.
- (Extreme) High cost for infra-structure for charging.

Financial impact:

- Usage profile of BEV should be very high: To lower the fixed cost
 - wide delivery windows → privileges needed!!
 - Fast charging infra
- Truck/ trailer: BEV
 - Yearly cost difference compared to diesel truck:
 - 17K – 25K per Year!
 - This includes the start up subsidie!!
- Only with the commitment of their customers transport companies this transition can happen.

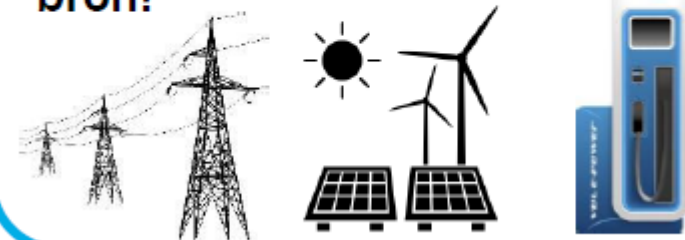
More Challenges for E- trucks (20-40 ton):

- Limited Range: ca.200 km:
 - Dedicated routeplanning needed.
 - Fastcharging in between routes during day
- Charging infra: Huge electrical power needed
- Availability of this: Electrical power

**Beschikbare Zero-emissie
E-trucks met voldoende range**



**Fastcharging: aansluitingen,
vermogensvraag, hernieuwbare
bron?**



What electrical Power are we talking about?



1 E-truck:

Batterie in E truck = 320 kW

2x charging per 24 hr = 640 kW per day

310 days per year = ca. 200.000 kWh/yr

Is the energy consumption of 100 families.



A regional distribution Centre in retail:

- 100 Vehicles
- 73 MWh needed energycapacity:



= 73 MWh = 9.400



= 118.000 x



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'Transitie naar elektrische trucks is verre van makkelijk'

Elektrisch

Flux management

Trucks

— Arjan Velthoven

— 2 mei 2019



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100 jaar