

# BREYTNER

ZERO EMISSION TRANSPORT



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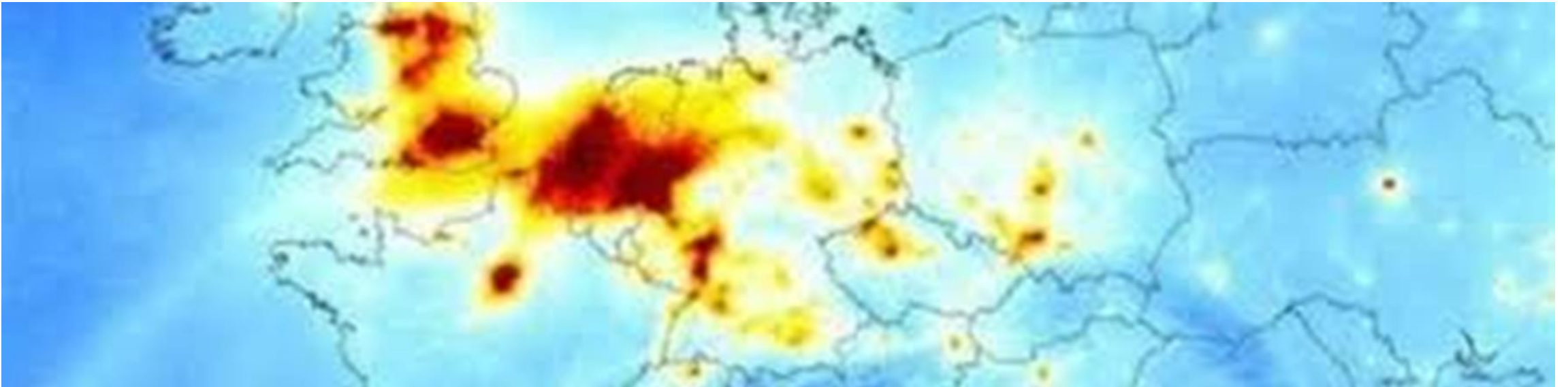
## BREYTNER

- Zero Emission core business transport company in Rotterdam
- Customers retail, construction logistics and supply chain
- Fleet of rigids, crane trucks en tractor units, all z.e.
- Test partner several projecten
- Always subsidized
- Front runner
- Joint ventures with Vlot Logistics and H.N. Post & Zonen
- > 0,5 mio z.e. kilometers driven



## BREYTNER

- Local air quality Rotterdam
- Decentral politics – Den Haag government
- Environmental zone 2020 – announced in 2015
- Opportunity
- Follow up on technology and investments





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X-Micro 400

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## Zero Emission Transport – where are we?

- Following public transport transition
- Early beginning
- Early adaptors
- The polluter is not paying
- Diesel transport is too cheap
- Lack of other alternatives – multimodal
- Political choices
- Intrinsic motivated customers





## EU Policy

- Reducing emissions diesel trucks
- 15% 2025
- 30% 2030 -> 45 %
- Lobby
- Compensation z.e. trucks = this is main driver for truck OEM!





## Our customers?

- TCO parity
- Intrinsic motivated
- Sustainability goals
- Front runners and marketing opportunities
- Experience



## Volvo Electric modellen



## OEM's

- Rigid 44 tonnes available
  - Tractor units 50 tonnes as of 2023
  - Charging infra included
  - R&O 1<sup>e</sup> phase trucks
  - The subsidy game EU countries
  - Hydrogen trucks 2027
  - Conversion only for specials
  - Disruptors – Tesla / Hyzon / Nikola- Iveco / Hyundai
- 
- OEM's can partly decide pace of transition by determining planning of infra structure within Europe

## Learnings BREYTNER

- Trucks stabile
- Battery degradation minimal
- Charge strategy high priority
- Autonomous range improving
- Opportunity charging during (un)loading



# BREYTNER

## ZERO EMISSION TRANSPORT

Ask me anything!

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