

Qbuzz

We are Qbuzz

pre-corona

Groningen Drenthe region:

- 100.000 commuters per day
- 3.700 rides per day
- 436 buses



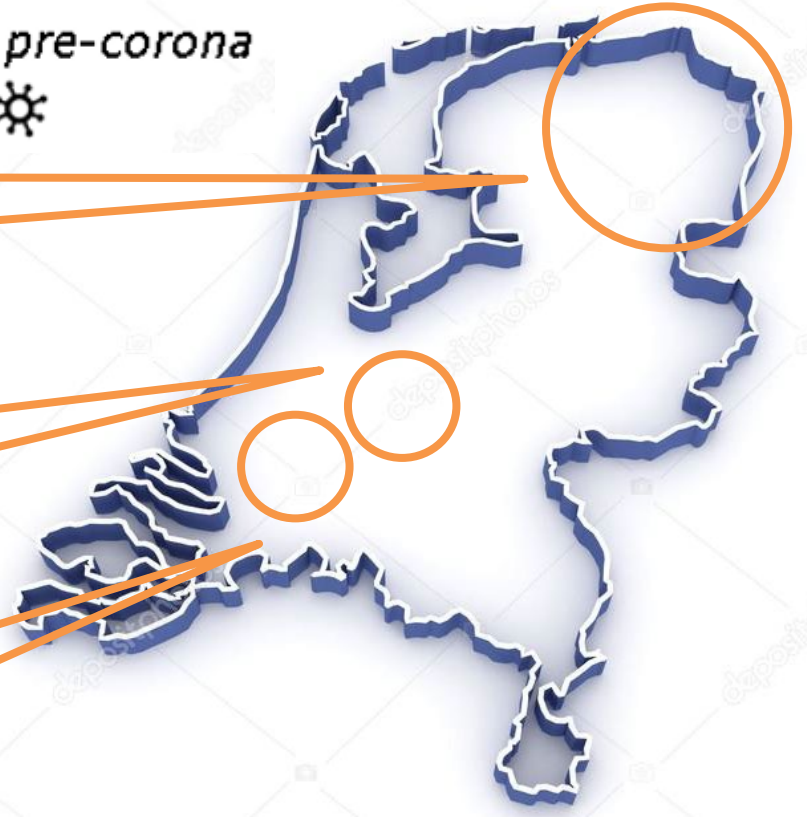
Utrecht region:

- 200.000 commuters per day
- 5.000 rides per day
- 335 buses
- 48 trams



DMG region:

- 50.000 commuters per day
- 2.500 rides per day
- 166 buses
- 10 trains



The Netherlands

- » From 2025, all new public transport buses will be zero-emission vehicles
- » By 2030, the entire Dutch bus fleet of approximately 5,300 buses has to be turned into a zero-emission bus fleet.



Qbuzz ZE-bus strategy

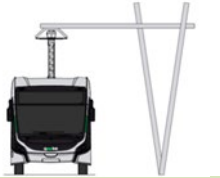
2014

3 X Battery



2017

+22 X Battery



2 X Hydrogen



2019

+45 X Battery



2020

+175 X Battery



2021

+35 X Battery



+30 X Hydrogen



2025/2030

Full ZE fleet

Groningen - Drenthe

- » 62 buses plug-in, 102 buses pantograph upwards
- » 27 opportunity chargers, 176 depot chargers



Dordrecht – Gorinchem - Molenlanden

- » 39 buses pantograph downwards, 11 buses plug-in
- » 5 opportunity chargers, 51 depot (slow) chargers



Utrecht

- » 35 buses pantograph upwards, 11 buses pantograph downwards
- » 23 buses plug-in



Utrecht

- » 7 opportunity chargers, 74 depot (slow) chargers



Tendering & Implementation

- » Muti vendor purchasing
 - » Risc reduction
 - » Fit to purpose
- » Small to large implementation size
 - » Lessons learned
- » What went wrong?
 - » Delivery delays
 - » Installation delays
 - » Vehicle robustness
 - » New tech kinks

Impact of Covid-19

- » Uncertainty of funding
- » Capital availability
- » Quality and Quantity balance shift
- » Required fleet size

Steps for upscaling?

- » Steadying the market
- » Other funding and capital sources
 - » Tri-party agreements
- » Technological development
- » Availability of charging places

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