

REGIONAL *eBussed* JOURNEY AND THE WAY TO SUSTAINABLE FUTURE MOBILITY

What happened since the
eBussed kick-off meeting and
where are we going?

AGENDA

- 01 What happened before?
- 02 Status quo in 2019
- 03 Work done in *eBussed*
- 04 Changes taking place
- 05 The future ahead
- 06 Questions and remarks

WHAT HAPPENED
BEFORE?

01

BEFORE *eBussed*

First experiences

VHH put the first e-buses on the road in Hamburg in 2014: An eight-metre Rampini to operate in a neighbourhood with very narrow streets and steep slopes.



BEFORE *eBussed*

Innovation on line

In late 2014 Hochbahn started their so-called *Innovationslinie* (109) with different drives, different vehicles, but under the same conditions.



BEFORE *eBussed*

Political background

In 2015 the Senate of Hamburg decided to make it obligatory to only procure **emission-free vehicles** for public transport as of **2020**.

In that same year the first edition of the **Hamburg Climate Plan** was concluded.

There has been a **revision** in 2019 (the policy instrument which we address with our eBussed Action Plan).



STATUS QUO IN 2019

02

STATUS QUO IN 2019

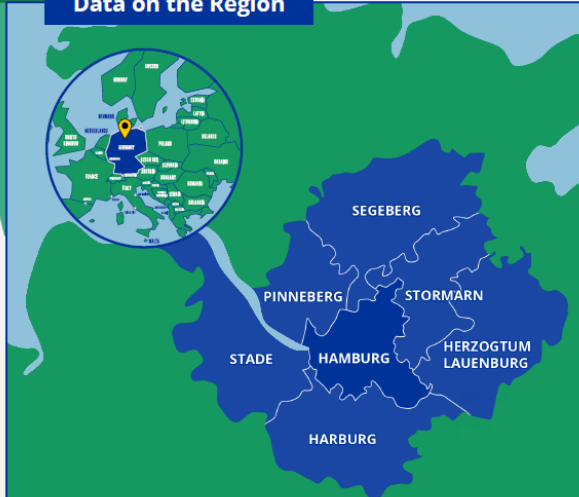
Status Quo Hamburg

The status quo situation of e-buses in Hamburg 2019

eBussed supports regions in the transition towards low-carbon mobility and more efficient public transport in Europe by promoting the use of e-buses.
interreurope.eu/eBussed



Data on the Region



Hamburg Region Public Transport area

| | |
|--|-------|
| Population density* (inhabitants per km ²) | |
| Rural | 838 |
| Average | 2 443 |
| Urban | 5 320 |

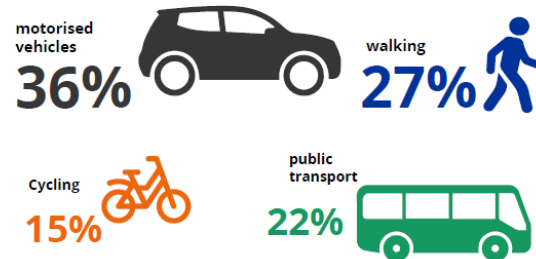
*Free and Hanseatic City of Hamburg

Policy Objectives

- 2020** Procurement of emission-free buses only
- 2030** Reduction of CO₂ emission by 55% (as of 1990) for the City of Hamburg
- 2050** Climate neutral City of Hamburg



Modal Split



Source: MID 2017

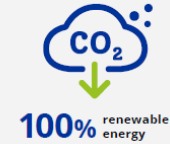
STATUS QUO IN 2019

Bus Fleet and Operations

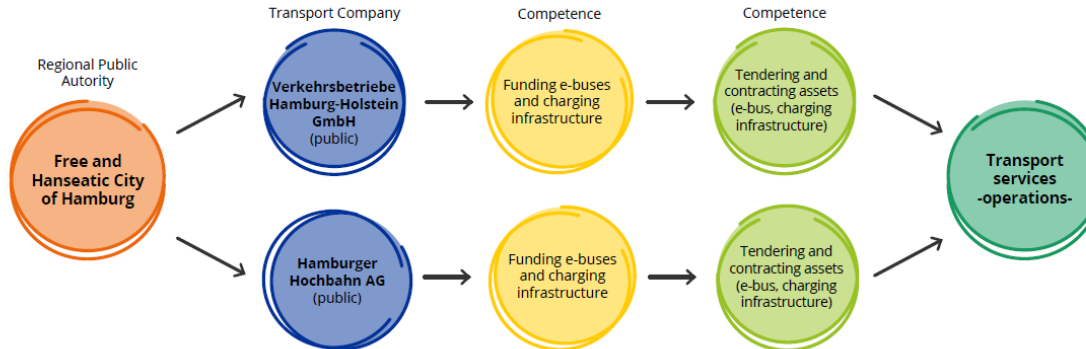


First year of operation of e-buses in the region 2014
 Total number of buses 1 694
Total number of e-buses in operation 51

| Bus Manufacturer | Model | Length (m) | Seat capacity | Size of battery (kWh) | Type of charging | Range (km) |
|------------------------|-----------------------|------------|----------------------------|-----------------------|---------------------|------------|
| Rampini | E-Midibus | 7.80 | 13+1 seated 29 standing | 180 | opportunity + depot | 120 |
| Solaris | Urbino 12 IV Electric | 12 | 24+1 seated 46 standing | 100 | opportunity | n/a |
| Solaris | Urbino Electric 12 | 12 | 25 seated 45 standing | 300 | depot | 150 |
| EvoBus (Mercedes-Benz) | eCitaro | 12 | 25 seated 45 standing | 243 | depot | 150 |
| EvoBus (Mercedes-Benz) | eCitaro | 12 | 30 seated 54 standing | 292 | depot | 170 |



Organisation Public Transport



WORK DONE IN *eBussed*

03



Hamburg

WORK DONE IN *eBussed*

Exchange with regional stakeholders

- First meeting in December 2020 (online)
- Five online meetings in total
- Collecting good practice examples
- Discussing take up of partners' examples
- Developing Action Plan



Behörde für
Verkehr und
Mobilitätswende



BESIDES...

My personal *eBussed* journey...

- On my first day on the job: Meeting partners on Teams
- Catching up
- After two weeks on the job: Lock-down
- Struggling with deadlines
- Getting stakeholders on board
- Sending chocolate catering to stakeholders
- Meeting on Teams
- Organising and carrying out Interregional Learning Event online
- Pushing TWG2 partners
- Meeting in Zoom
- Writing articles
- Meeting local stakeholders on Teams
- Participating in Matchmaking session in Teams
- Meeting partners on Teams
- Getting on really well with partners!

CHANGES TAKING PLACE



CHANGES TAKING PLACE

- Number of e-buses increased significantly from 50 to 180.
- In November 2021 Hochbahn put into service their 100th e-bus.



CHANGES TAKING PLACE

- Continue to **retrofit** existing bus depots to host e-buses and the required charging infrastructure (e.g. Schenefeld, see photo)
- Planning and building **new** e-bus depots
- Implementing dispositioning systems and introducing **smart charging**
- Increasing the flexibility of **energy acquisition**



CHANGES TAKING PLACE

Action Plan

- Improved governance of planning procedures related to the construction of new bus depots and the expansion of depot infrastructure for the growing e-bus fleets
- Develop and implement a holistic approach to contingency management



THE FUTURE AHEAD

05

THE FUTURE AHEAD

- Hochbahn is planning a multi-storey e-bus depot
- Hamburg Takt
- Increase in number of passengers (as stated in the Climate Plan)



THE FUTURE AHEAD

- Integration of mobility systems (public, private, commercial, on-demand, cycling, walking, sharing, pooling etc.)
- Shift of modal split to more public transport, cycling and walking



QUESTIONS AND REMARKS



QUESTIONS OR REMARKS?



THANK YOU.

