How to become an automation aware city

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City of Gothenburg

#H2020CoEXist
@H2020_CoEXist

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 723201

A sustainable city – open to the world

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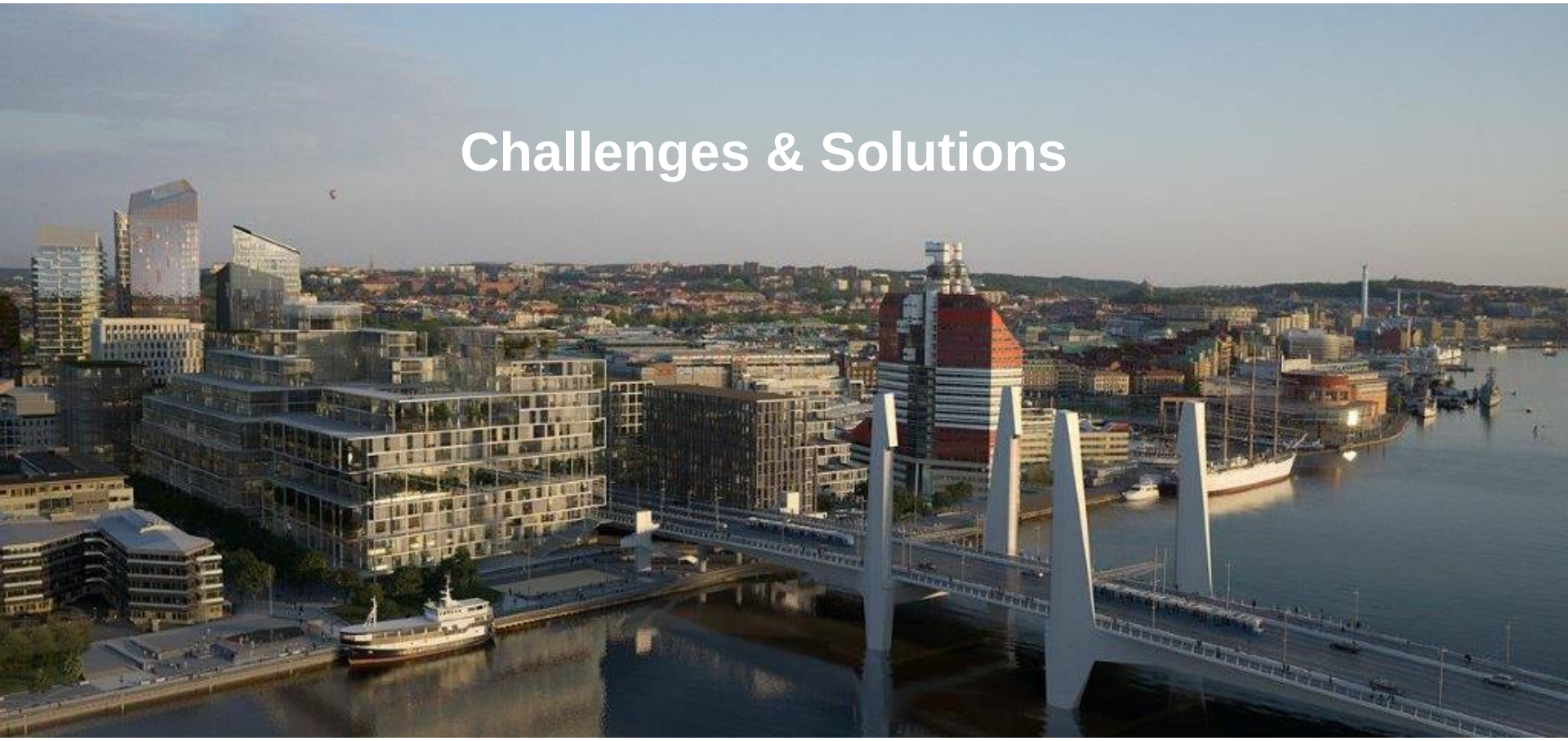
Challenges & Solutions



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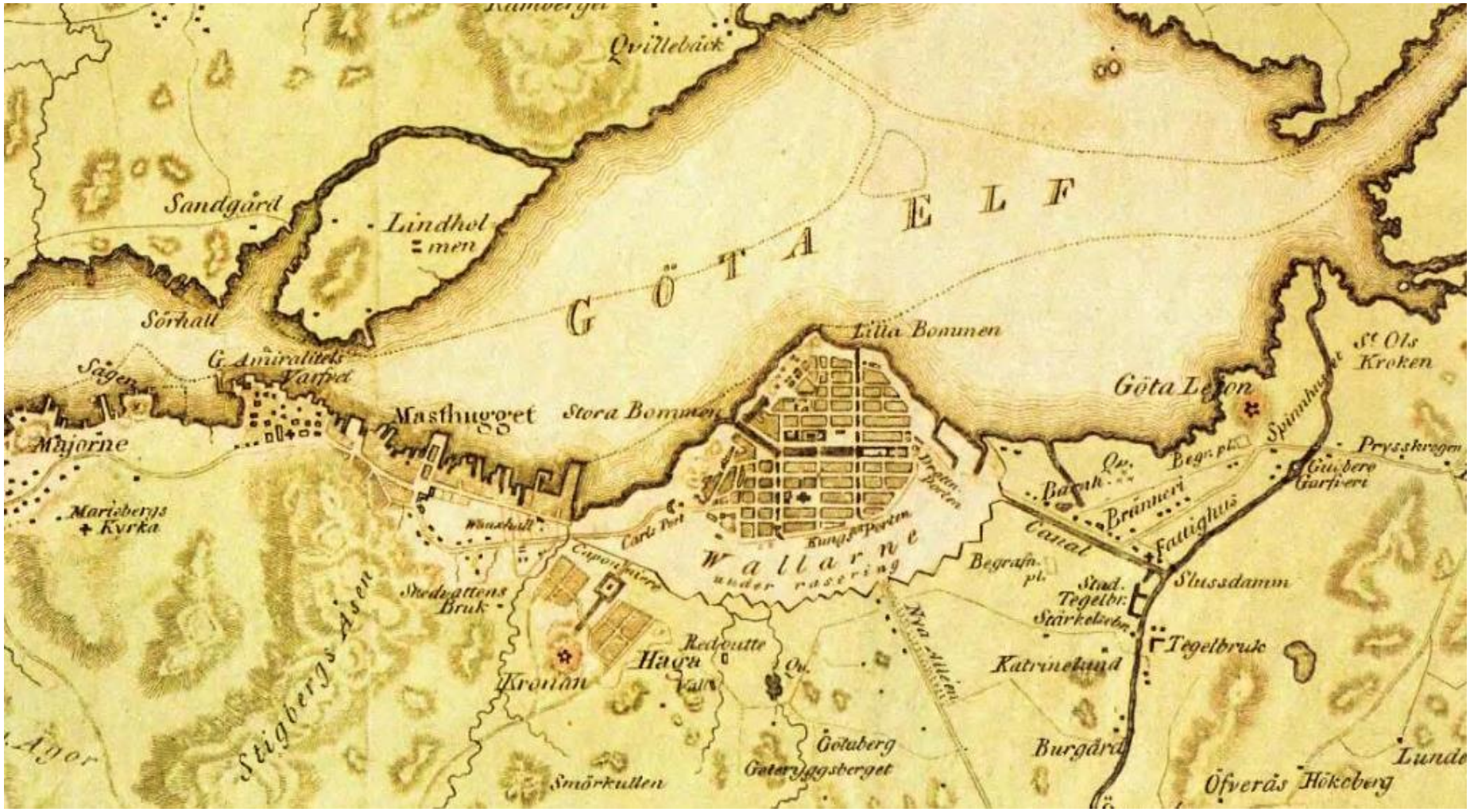
Founded in 1621



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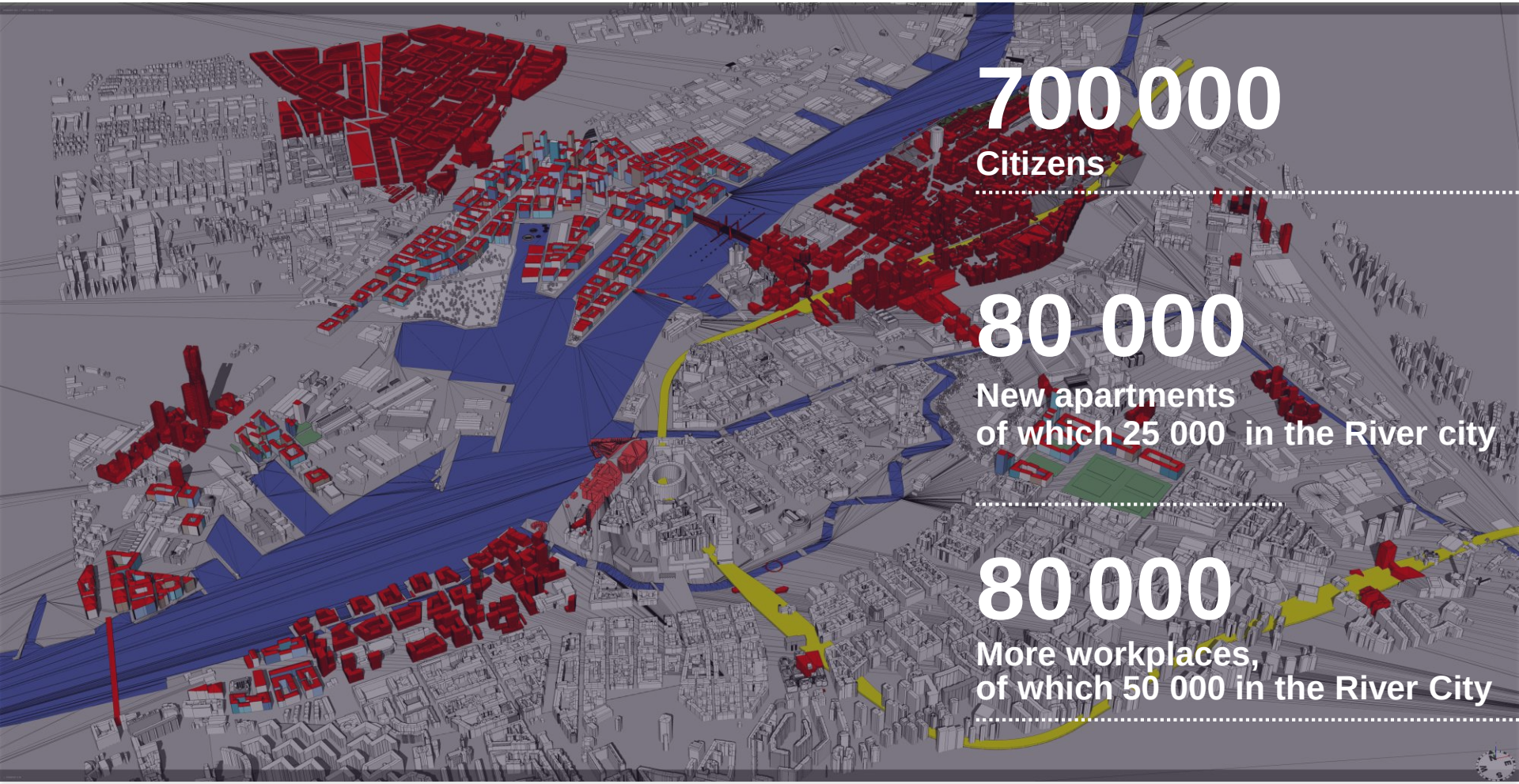
Gothenburg in 2035



700 000

Citizens

80 000

New apartments
of which 25 000 in the River city

80 000

More workplaces,
of which 50 000 in the River City

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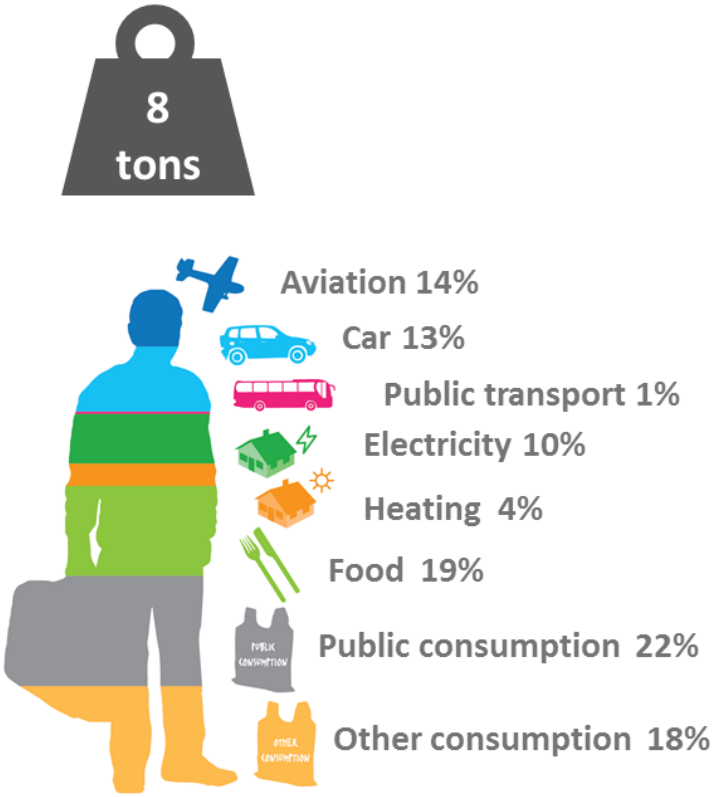
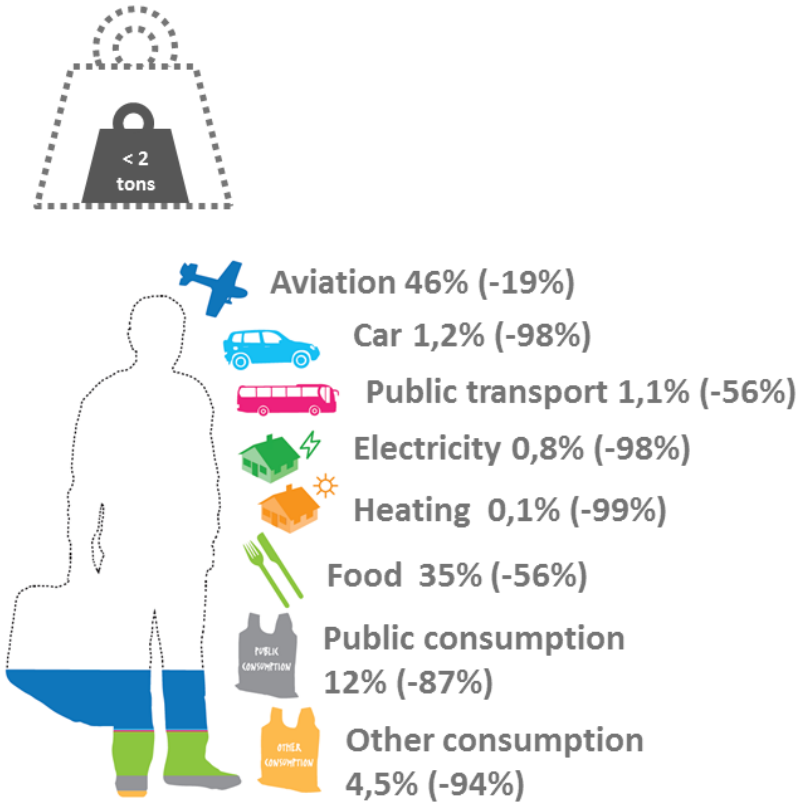
Global and local challenges

Emissions today



Future scenario 2050



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A need for system innovation

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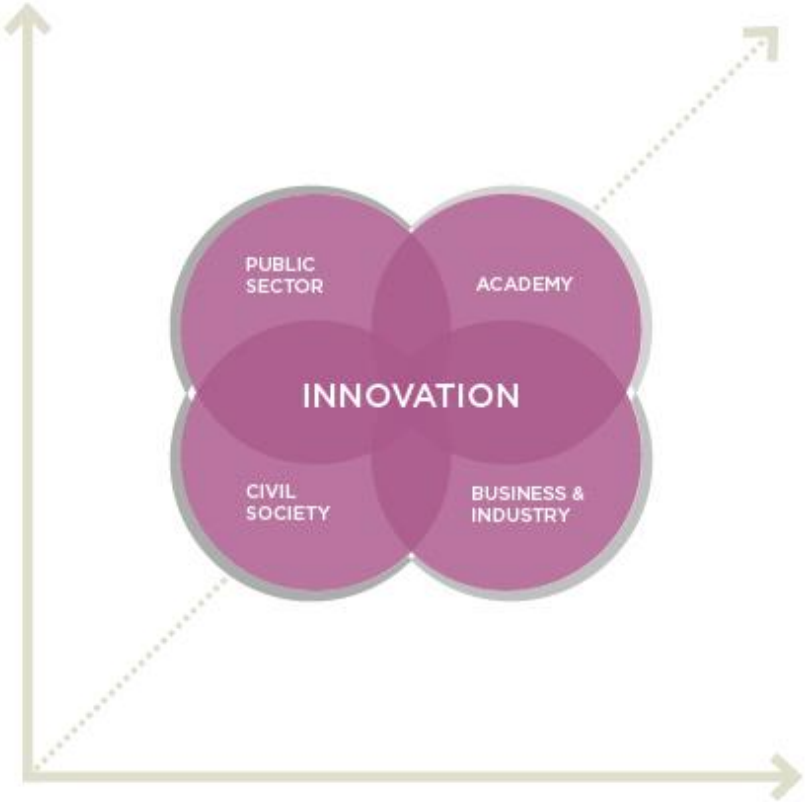
Collaborative innovation



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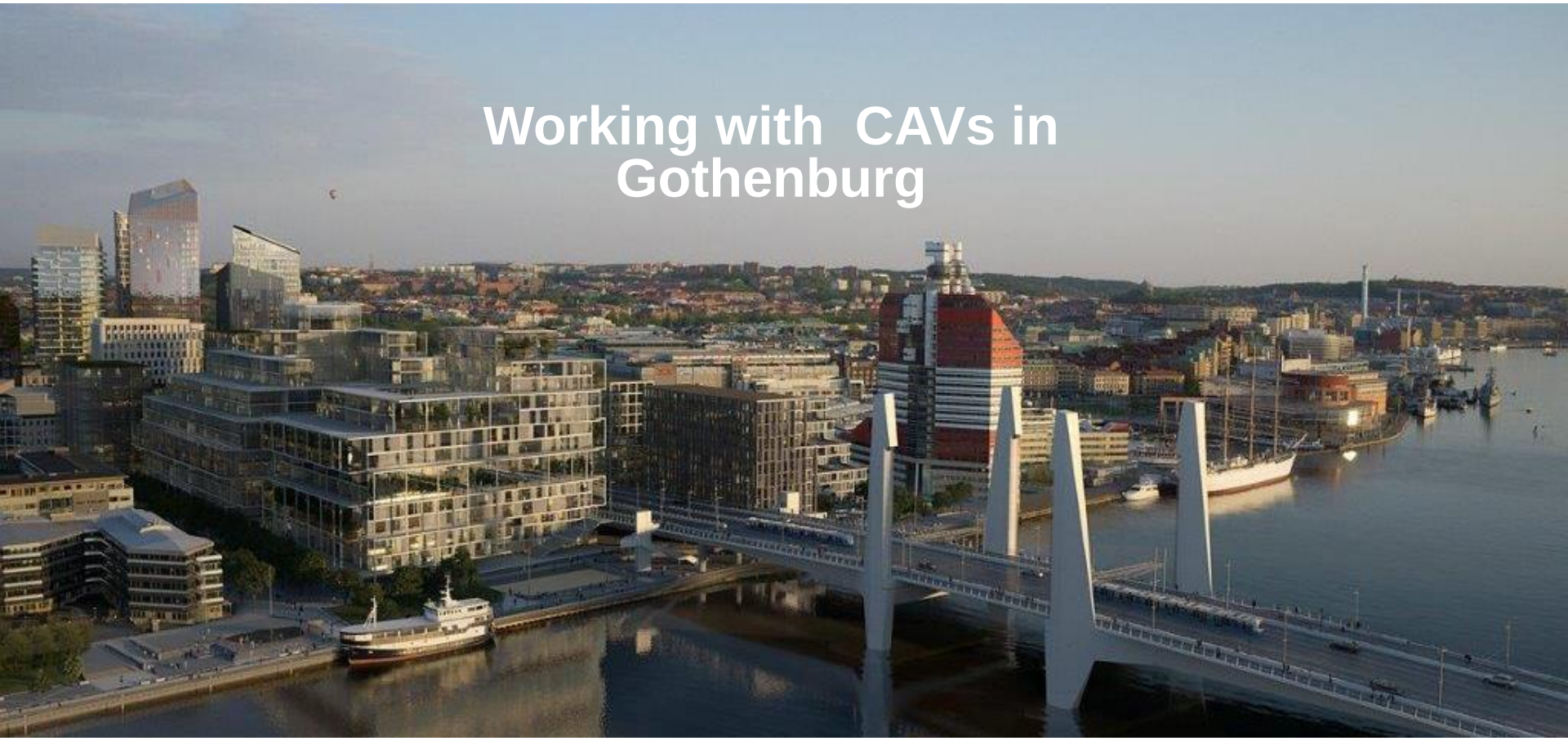
Working with CAVs in Gothenburg



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Five years ago

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Key outcomes from a city

- How can AVs be part of new mobility solutions and improve the everyday lives of our citizens?
- How can AVs help mitigate the challenges of safety, congestion, air pollution and CO_2
- Explore how the use of AVs can contribute to design attractive city environments

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Establishing an innovation platform

Drive Me
Research platform in the area of self driving vehicles for sustainable mobility.

Current partners
Volvo Cars, Swedish Transport Administration, City of Gothenburg, Lindholmen Science Park, Chalmers University of Technology and Autoliv

Supporting external research
- WASP
- SAFER
- H2020, Adaptive
- NREL collaboration
- Additional FFI projects (HATTRIC. FUSE, TRUST ME, …

Project 1
Legal aspects of self driving vehicles.

Swedish Transport Agency

Project 2
Autonomous Driving Effects of Sustainable Transportation

Volvo Cars and Swedish Transport Administration

Project 3
Autonomous Driving Fuel Economy

Volvo Cars and Swedish Transport Administration

Project 4
Auto parking and city planning

Volvo Cars and City of Gothenburg

Project 5
Copplar

Campus Shuttle – AD in mixed traffic

Chalmers University of Technology, Autoliv and Volvo Cars

Project X
Future projects

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Creating a common Vision

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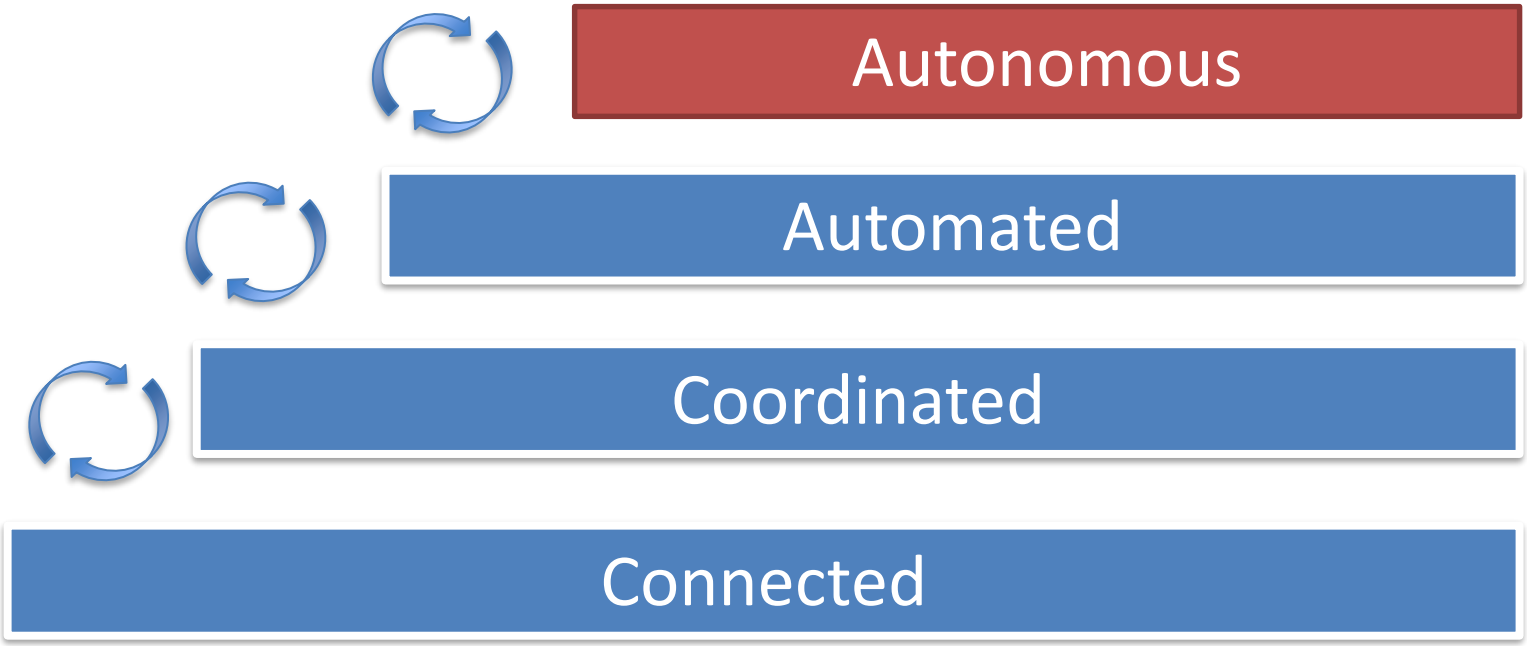
Long term road map



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Focused development areas

Automation

Connectivity

Digitalisation

User perspective

City objectives

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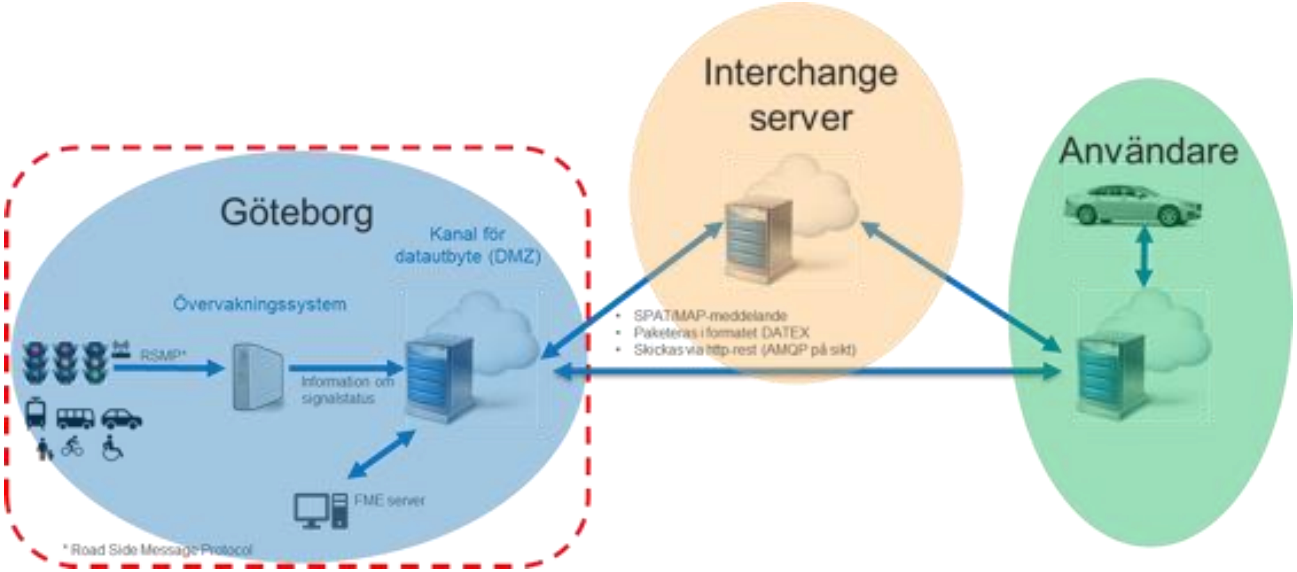
The digital ECO-system



- Actors
- Interfaces
- Business models
- Security
- Integrity

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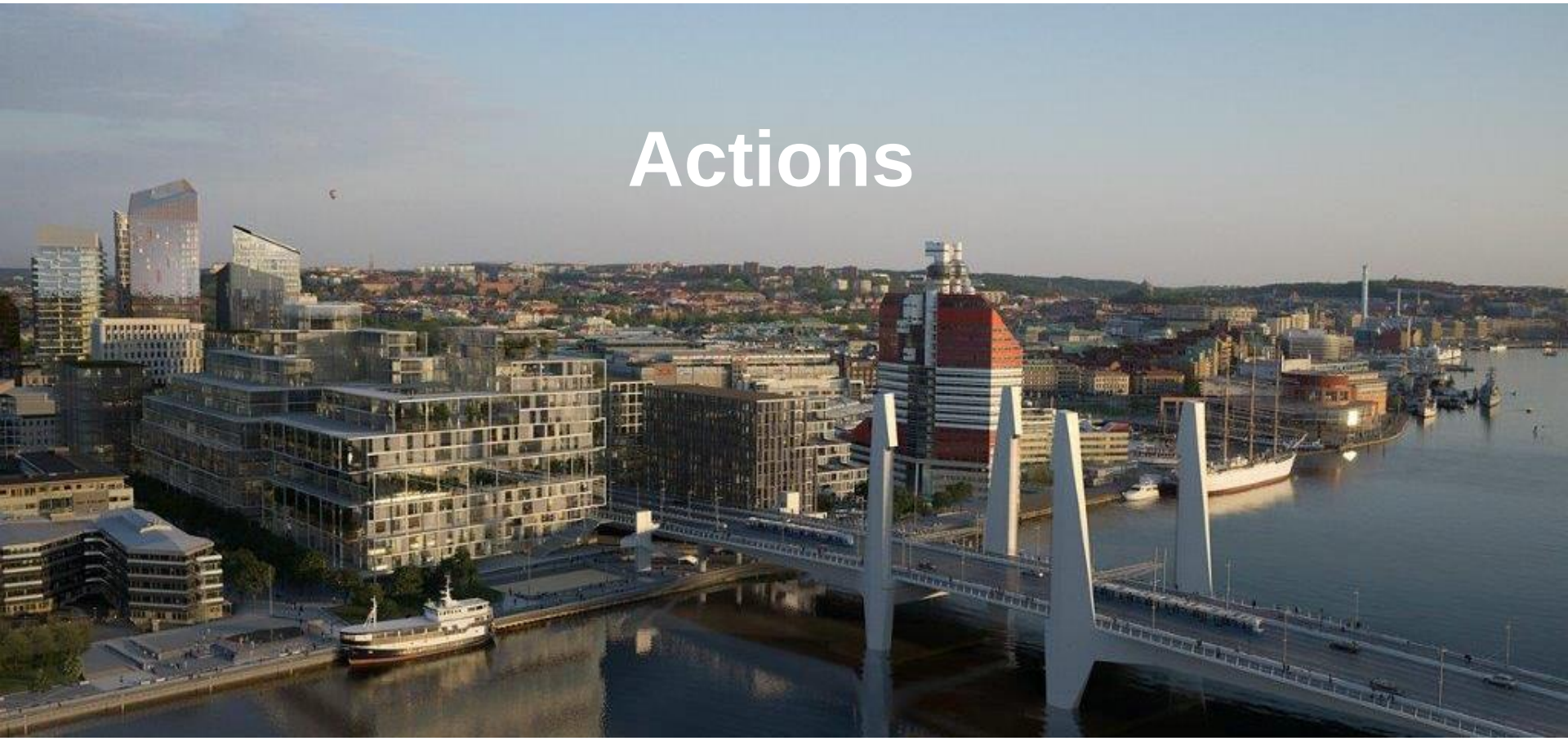
Actions



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Creating Public Awareness

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Comprehensive Planning with AVs

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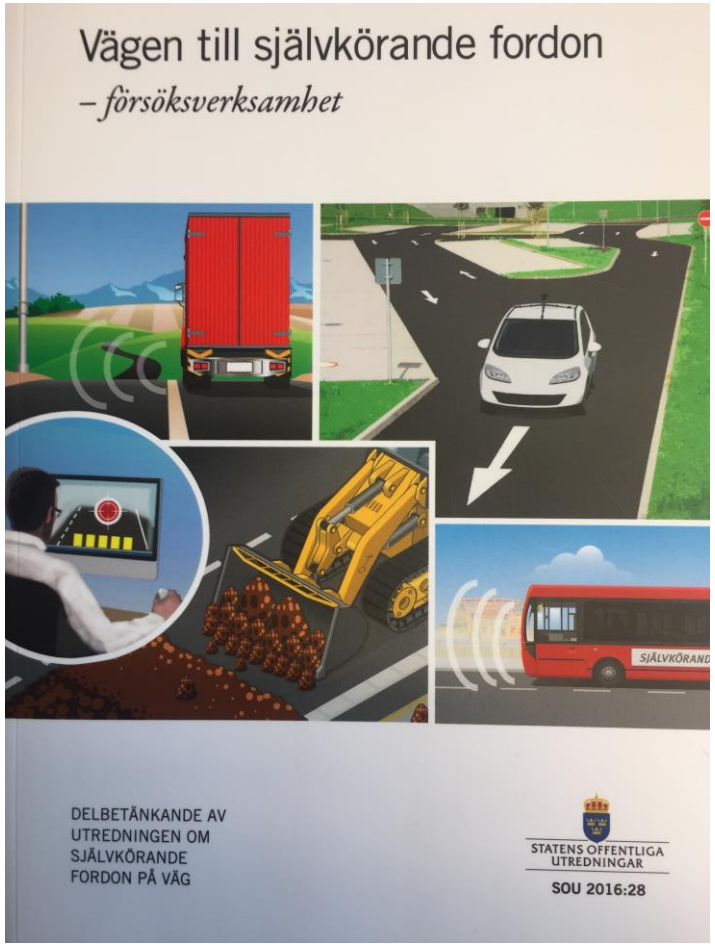
Legal framework – a city perspective



- Aims
  - Establish legal framework
  - Support fast introduction of CAVs
- Facilitate testing
  - Platooning, pods shuttles
- New legislation
  - New driver concept
  - New owner responsibilities
  - New regulations for Road Authorities
  - Automated class II road machines

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Exchanging experiences and knowledge

DRIVE SWEDEN

POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

EURO CITIES

WORLD ECONOMIC FORUM

Automatiserade fordon

I LOKAL OCH REGIONAL MILJÖ

Sveriges Kommuner och Landsting

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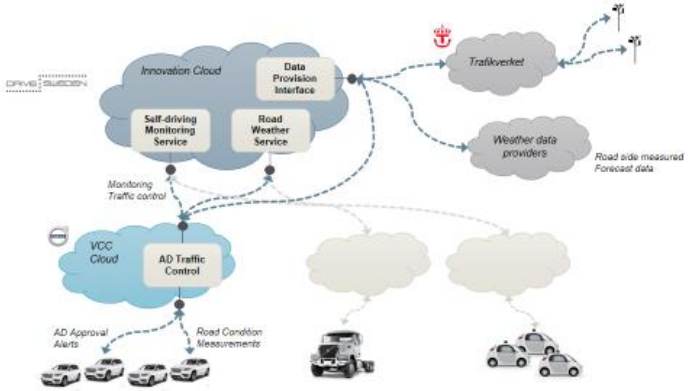
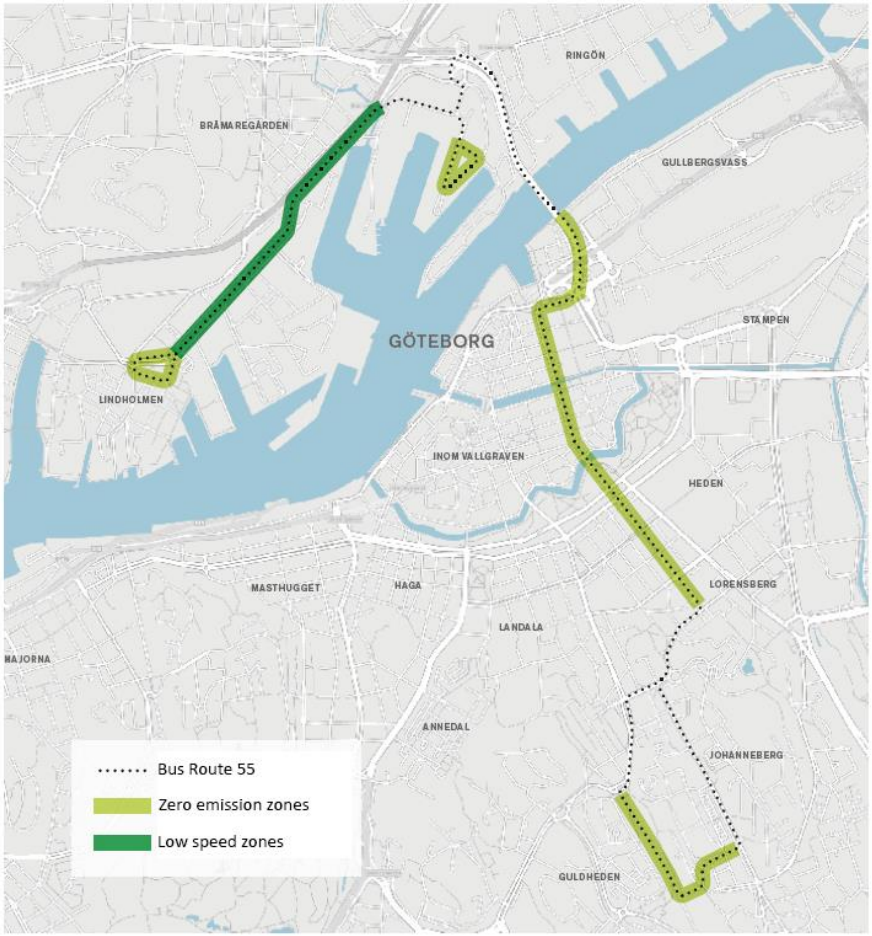
Developing new services

Nordic WAY 2

ELECTRICITY





Map of Bus Route 55 showing in which areas the zone management system is set to electric drive and where max speed is limited. Dark green shows low speed zones. Light green shows zreo emission zones.

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A sustainable and attractive city

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