

Digital Infrastructure – a local road authority perspective

Lesson shared from Gothenburg/Polis

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1996



1996 – The national road database was initiated



Mission:

To provide society with basic information about the Swedish road network



100' km National roads
50' km Local roads
400' km Private roads

Data Providers:

National Road Administration
Municipalities (290)
Swedish Forest Industries
Map and Land Authority
Swedish Transport Agency

Contents of The national road database (NVDB)



- Functional network for roads and bike-paths using **link/node concept**.
- Link attributes like:
 - Road type
 - No. Lanes
 - Width
 - Type of paving
 - Carrying capacity
 - ...
 - Some regulations
- Road authorities keep a **local database** (LV)
- Information from LV is **shared with NVDB**

The case of Local Traffic Regulations

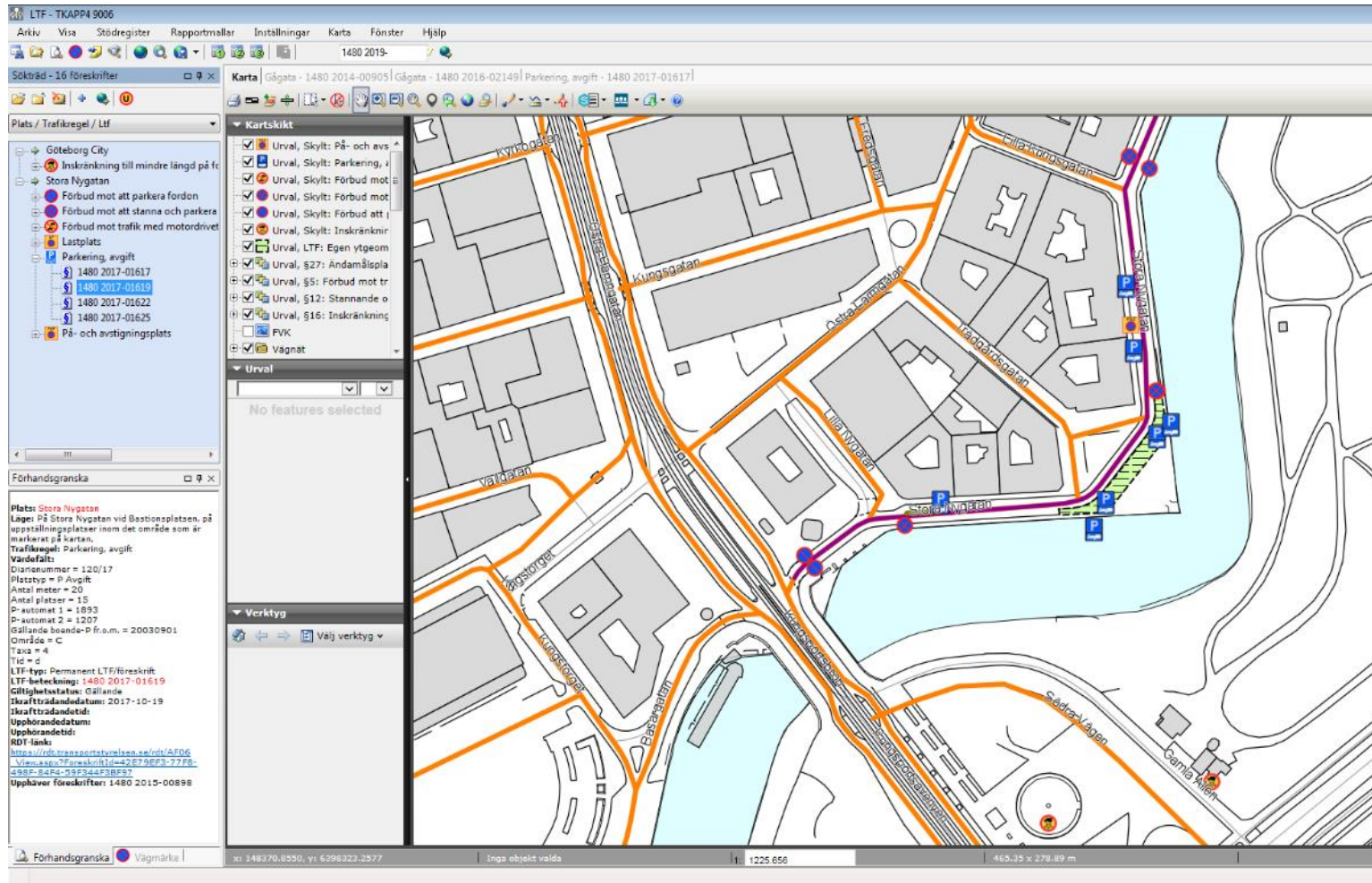


10.000 regulations

of which

6.500 related to parking

Digitizing Local Traffic Regulations



An **8** year implementation project:

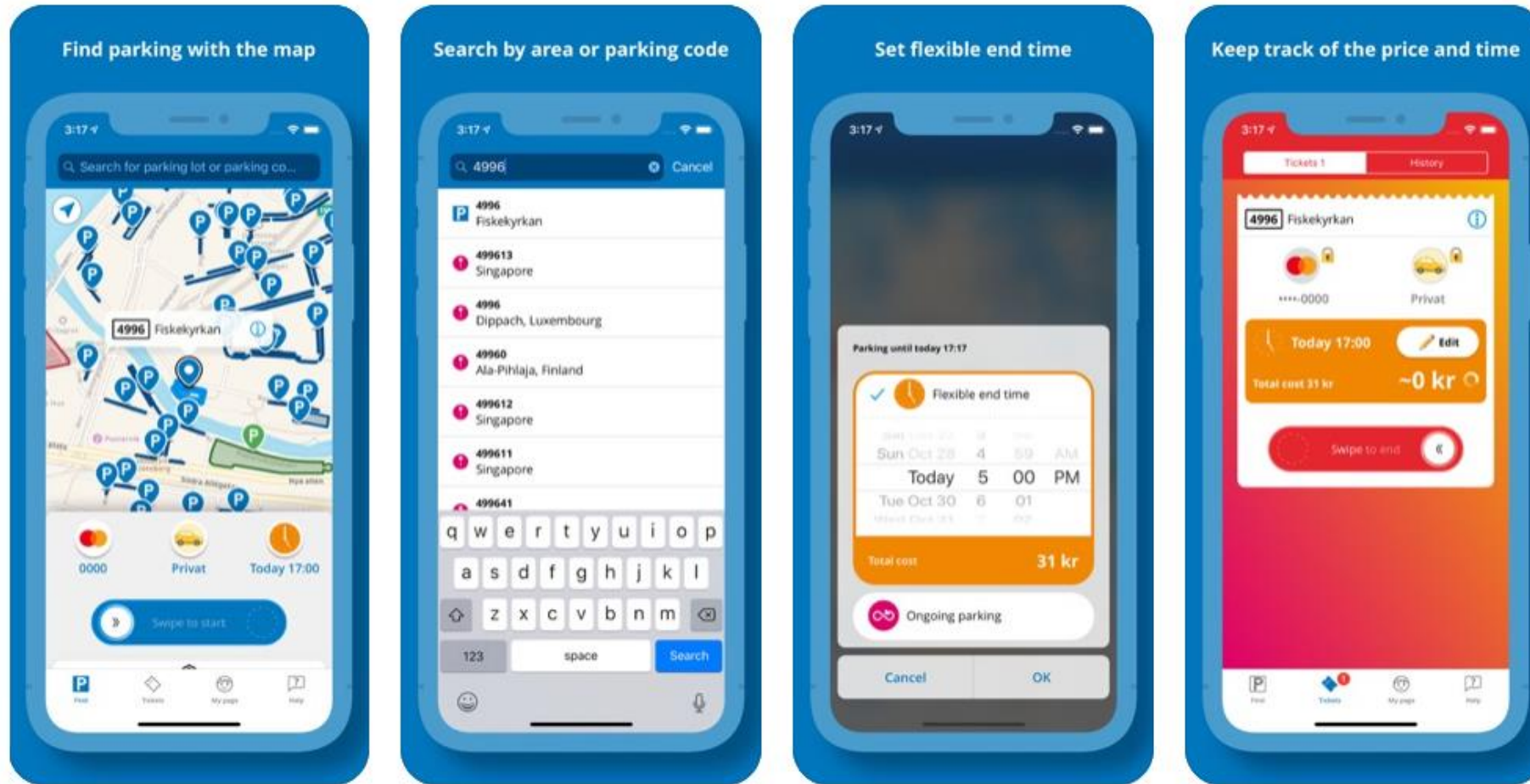
2000 Initial talks, Gothenburg, Stockholm, Malmö, STA

2002/3 Software procurement

2005/6 Start of rewriting LTR

2008 All LTR digitized

Developing new services



Plus

Digital permits

Digital control

A European perspective



Digital infrastructure

Heterogeneity across cities in terms of readiness of digital infrastructure

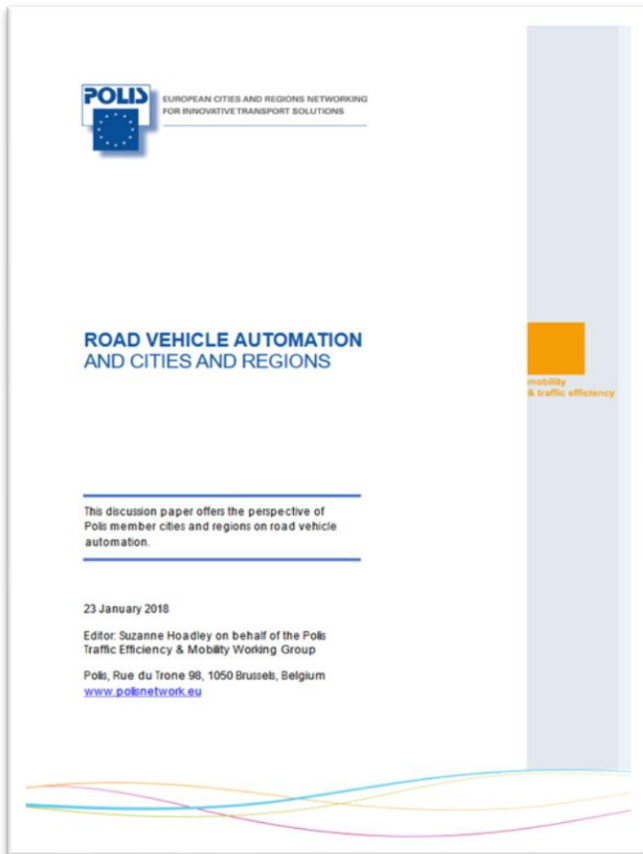
Where infrastructure digitised, procedures for immediate updating often lacking

National action needed, eg, UK DfT-funded Traffic Regulation Order digitisation

EC ITS Directive also addressing this

Key challenge for cities: financial, expertise/skills & processes needed

More about Cities and AVs



• Why?

- optimism bias
- balanced debate
- Awareness raising

Potential impacts

- Travel behaviour
- Spatial
- Social
- Road safety
- Traffic management/efficiency
- Infrastructure

Key issues

- Planning
- Policy
- Systems approach
- Role and responsibility

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