



Debrecen
SMART CITY

ITAPA 2018 International Congress

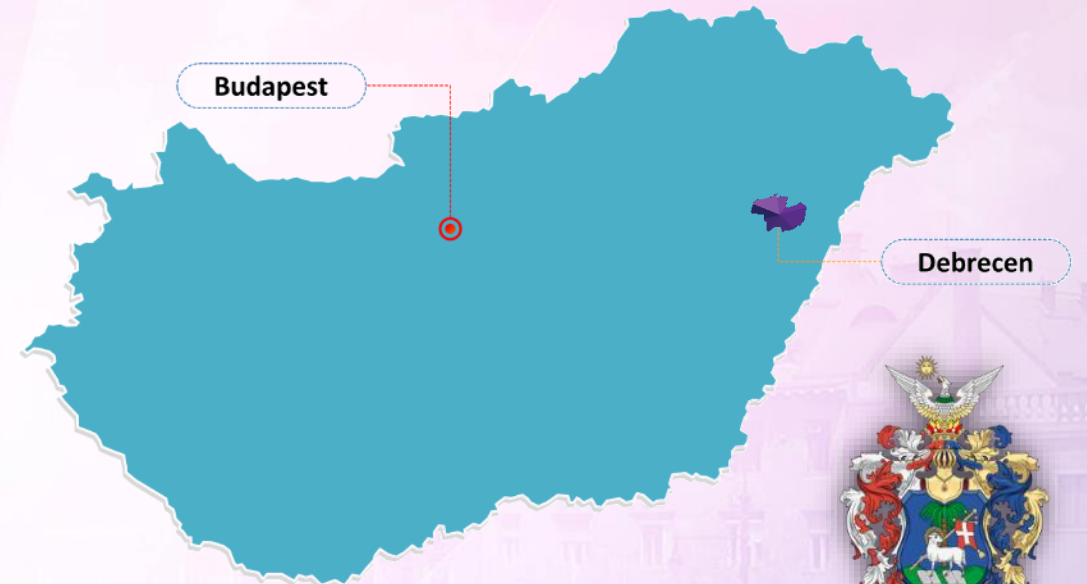
Bratislava, 13th of November, 2018



László Mátyus
Smart City senior expert
EDC Debrecen Urban and Economic
Development Center

Debrecen

- 2nd largest city in Hungary
- Population 207.000
- International Airport:
 - 320.000 passengers in 2017
- University of Debrecen:
 - 31.500 students, of which 6.000 are international
- International School of Debrecen
- Foreign direct investment



Debrecen Smart City

- Over 2 years of experience
- Narrowing down key focus areas
- Flagship intelligent mobility



Intelligent Mobility

More efficient usage of the main roads of Debrecen, permeability improvement



Digital Debrecen

Each and every citizen has the inalienable right to acquire digital literacy skills



Sustainable Energetics

Using smart technology and solutions to cut public utilities' costs



Social

Building the Smart City community of Debrecen

Smart City Meetup



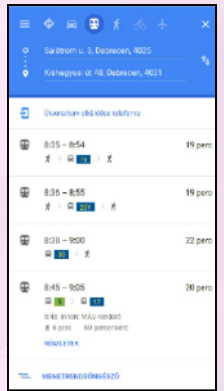
Mobility – Successful / ongoing projects

- Management:
 - Intelligent surveillance **camera system**
 - **Dynamic traffic lights** program
 - **Bus** check-in at traffic lights
- Non motorized:
 - Bike **counter**
 - UniBike – bike **sharing**
 - Smart Bike **Lock**
- Expansion of **electric vehicle charging station** network



Mobility – Public transport

- Ticket vending machines along the 2nd tramline
- Free WiFi on all trams
- Route planning with public transport on **Google Maps**
- **E-ticket** pilot with online purchase option



A banner from the DKV website advertising a virtual ticket pilot. The text reads: 'ÚJDONSÁG! „Személyim a bérletem”', 'VIRTUÁLIS BÉRLET VALÓDI UTAZÁS', 'Elektronikus bérlet elsőként Debrecenben!', 'Vásárláskor mutasd be elektronikus személyi igazolványodat, vagy diákadat!', 'Fizess!', and 'Utazz a személyiddel vagy diákkal!'. The banner includes the DKV logo and navigation links like 'MAGUNKRÓL', 'KAPCSOLAT', 'SAJTÓSZOBA', 'KARRIER', 'GALÉRIA', 'ELVESZETT', 'ENGLISH', and 'AKADÉLYMENTES'.



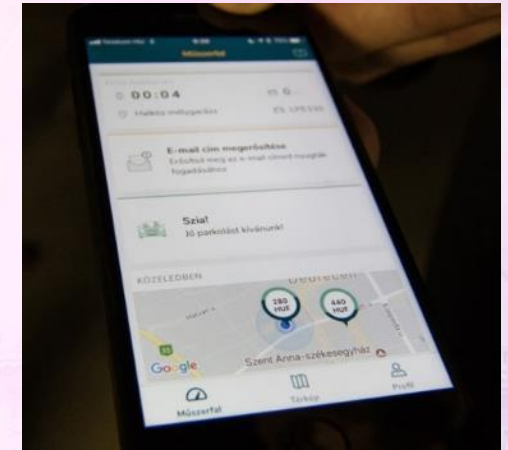
Mobility – Non-motorized, walking

- The country's first and the most number of **Smart Crosswalks**
 - 1st in October 2016
 - 2 different solutions
 - 6 in total
 - Next in November



Mobility – Private motor vehicle

- Smart Parking App – Rollet
 - Automatic payment with bankcard
 - All 9 municipality owned closed locations in 2018



P DV PARKING Kft.

Felejtse el a parkolójegyet!

**Töltsd le a Rollet alkalmazást,
és fizess automatikusan bankkártyával!**

Halköz Üzletház • Jászai Mari tér

Debreceen SMART CITY

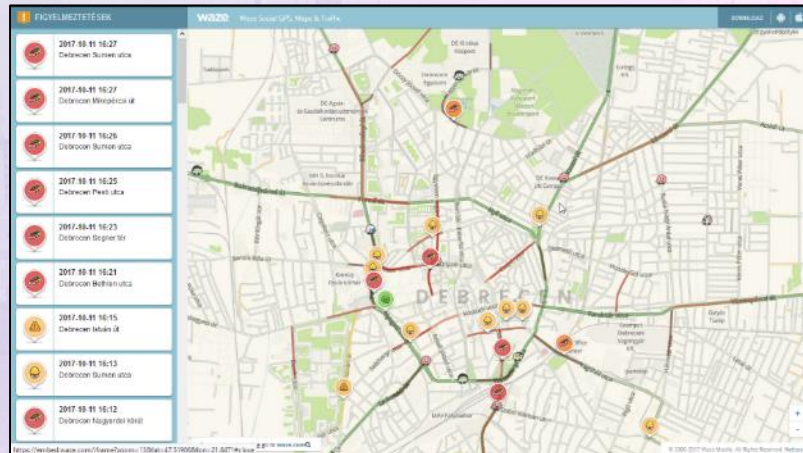
SZERZD MEG: Google play LETÖLTETHETŐ: App Store Támogatja a mastercard

The advertisement features a dark blue background with a white car icon and the Rollet logo. It includes a smartphone showing the app interface and a map of Hungary. The text is in Hungarian and promotes the app's automatic payment feature.



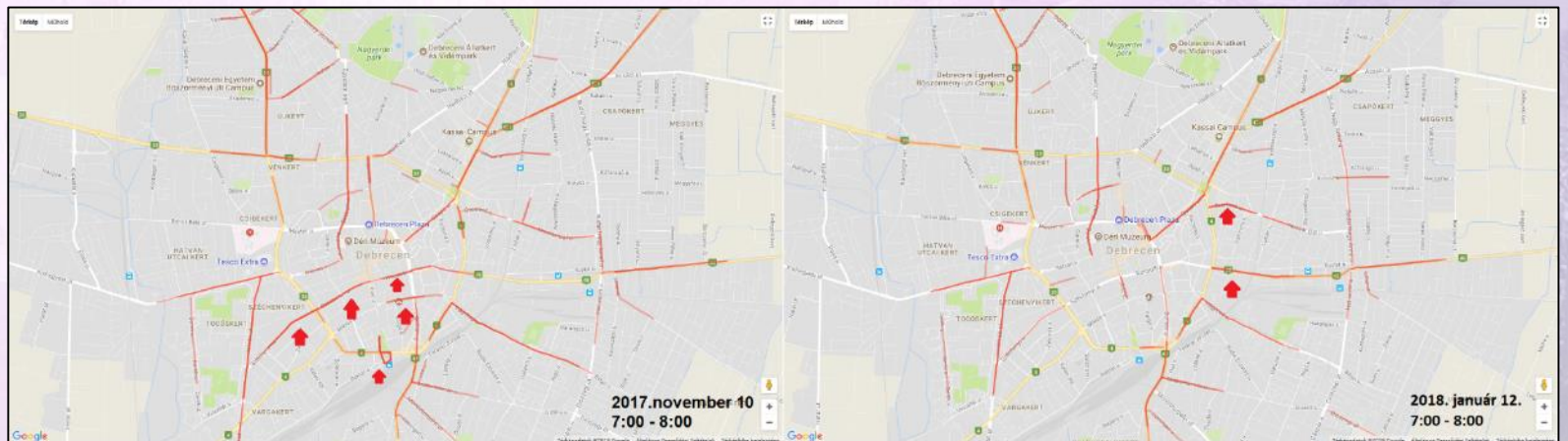
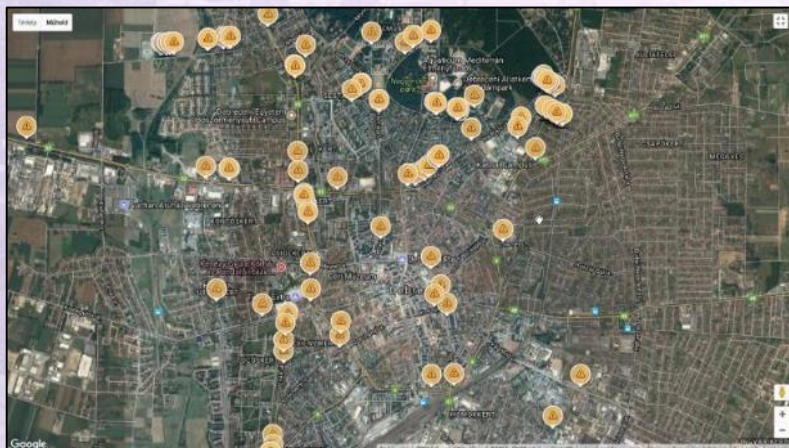
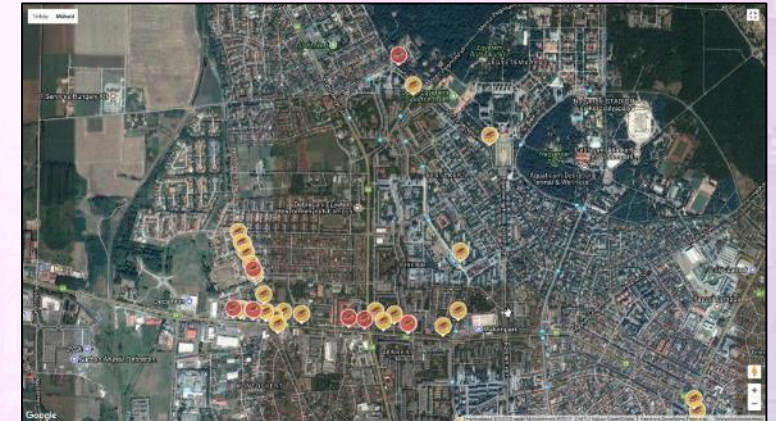
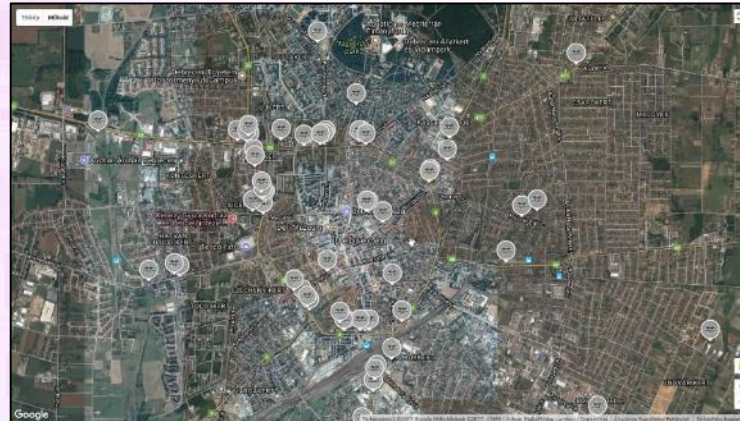
Mobility – Private motor vehicle

- Joining the Connected Citizens Program of Waze



Mobility – Private motor vehicle

- Waze data analytics
 - Congestions
 - Reports on accidents
 - Reports on potholes
 - Etc.





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Debrecen
SMART CITY



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**Thank You for
your attention!**