#### "Stone into still water"

- unexpected benefits of a BSS in Budapest

#### Péter Dalos

Product Manager BKK Centre for Budapest Transport

7. September 2016. WOCOMOCO Warsaw









#### **BKK Centre for Budapest Transport**

#### Budapest – Capital of Hungary (since 1873)

- 525 km<sup>2</sup>
- 1,700,000 inhabitants stagnating
- 600.000 car trips per day
- Complex geography and governance

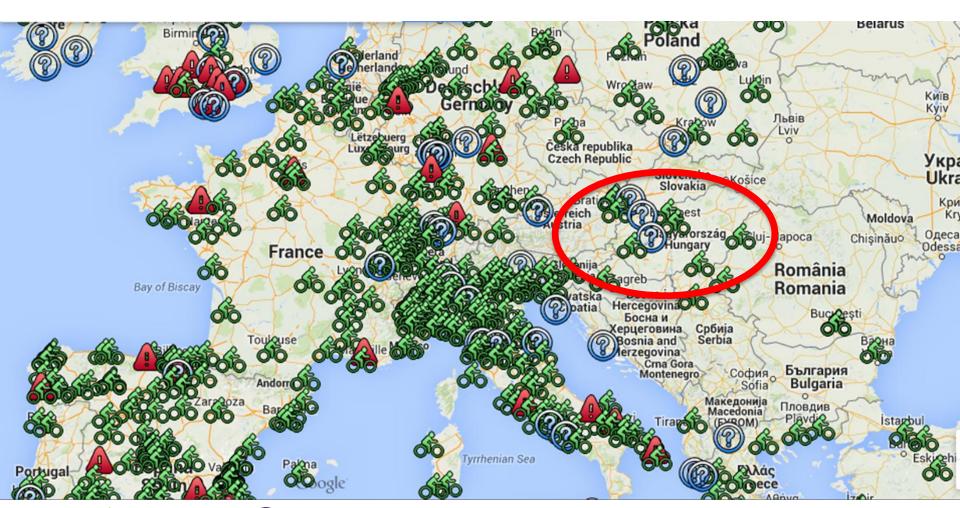








#### Bike-sharing in Hungary

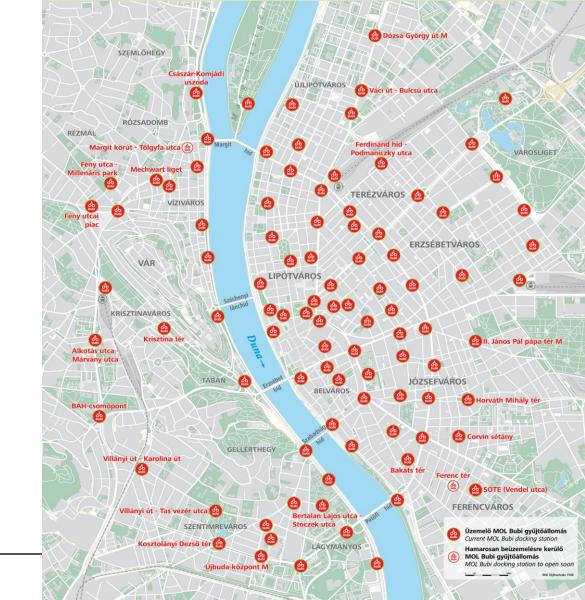






## MOL "Bubi" (Budapest Bike)

- 20 km<sup>2</sup> service area
- 1150 bikes
- 99 docking stations
- Initial investment: 3.5 mEUR
- EU co-funding: 85 %
- Operation: ~ 1m EUR/year
- ~1200-1500 EUR/bike/year
- ~770 EUR/bike/year for taxpayers







# 4th generation features

- Smart bikes
- Board computer
- Various access channels
- GPS
- Electronic lock/

extra stand

- Solar panel
- Surveillance system
- Paypass
- Maintenance: pedelec stringbike













### Short history

2009

2013

2015

2016

2009-2011

2011-2012

2014 Jan-Apr

2014 Apr-Sep

8th Sep 2014

27th Oct 2015

2014 Apr

2008 Concept

Desk research

Market research/Feasibility studies

Information Days/Technical spec. Public procurement

Extension to 98 docking stations

Implementation/Deployment Planned Launch

Pilot test Launch

1.000.000th trip

Extension to 112 docking stations

#### Operation model

Maintenance+redistribution Közbringa Ltd.

Operation control



Customer service



Revenues



IT services



Marketing-communication









### Public Transport Integration

- Customer service
- Fare structure
- Signposting
- Passenger info
- Route planner
- Surveillance
- Transport policy
- Traffic management
- Branding
- Marketing
- Communication
- Legislation



BKK O BUDAPESTI KÖZLEKEDÉS KÖZPONT









- Touch screen (terminal)
- Pinpad (bike/terminal)

RFID card (bike/terminal)

 Smartphone app (QR code on bike)

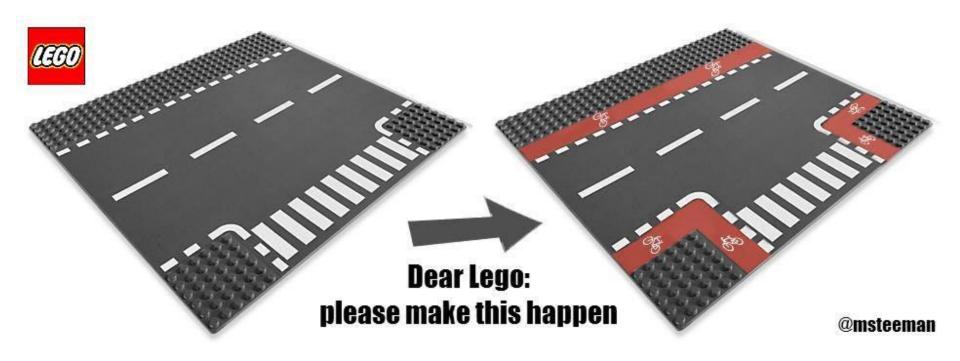








#### Opportunity for a livable city











#### New Mobility

















### **Elderly**

- Easy to use
- Re-engagement
- Accessibility
- Availability









Social media...

...unprecedented role models!

• 50K views!











# Education without dangerizing

- "Nobody is a ""cyclist"
- "Nobody is a "motorist"
- "We are all pedestrians"
- "We are all traffic"
- "Bike sharing is a safe transportation mode" (proved)

#### BRINGÁS TUDÁSTÁR



BIZTONSÁGOS KÖZLEKEDÉS KERÉKPÁRRAL, MOL BUBIVAL









#### Collaborative modal shift!



