SUSTAINABILITY PROJECTS OF THE CENTRE FOR BUDAPEST TRANSPORT

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CONTENT

BKK – the mobility manager

Sustainability

Projects

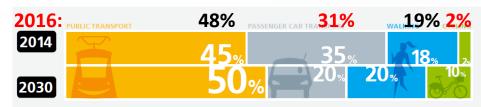




Budapest facts and figures

- 525 square km, 1 759 407 inhabitants (stagnates)
- 329 cars/1000 inhabitants, **600 000 car trips per day**
- 4,7 travelers per workday
- 1,5 billion travelers per annum
- Modal Split:



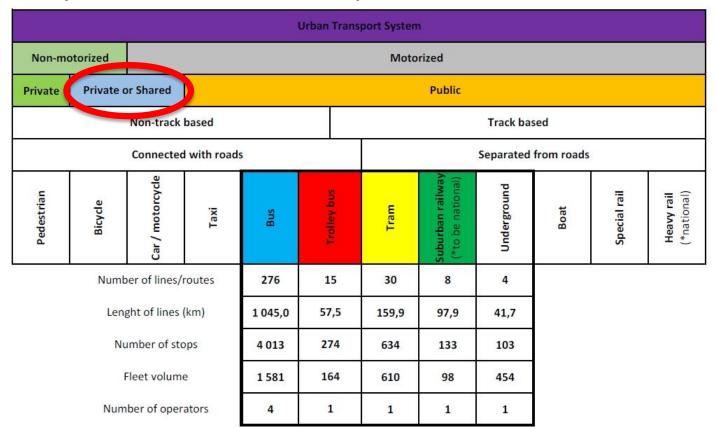








The transport network of Budapest







Need for an integrator...

"the road to hell is paved with good intentions..."





...the City needed a Mobility Manager, who can see the Big Picture!



Harmonising the demand/supply ratio of transport modes, based on

- real time information and
- long-term strategic values.

No absolute priority among transport modes, travel demand is to be influenced based upon

- sustainability principles,
- real society demands and
- reasonable economic costs.

Partnership – working together with the operators









Tasks and responsibilities regarding mobility

Strategy:

- Transport strategy and development
- Organizing public transport (Budapest & metropolitan area)
 - Determining routes, scheduling, traffic layouts
 - Passenger information service

Operation:

- Road Transport and traffic supervision:
 - Road network operation and reconstruction management
 - Traffic management
- Control and qualification of TAXI hire services
- Parking management
- Freight transport access management











Following mobility needs (in appr. 100 years)









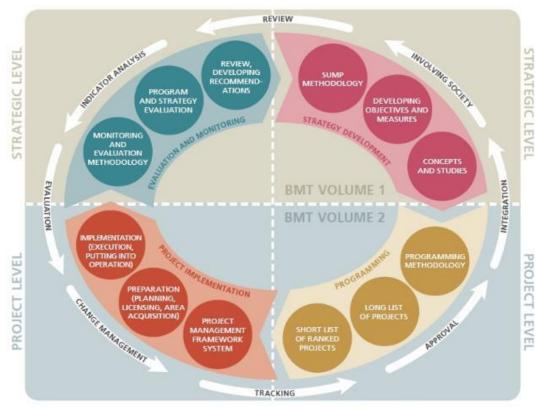




New strategic approach – the Balázs Mór Plan (BMT)











Vision (from Budapest 2030)

"Budapest is a **liveable** and attractive capital city with unique character and is an esteemed member of the European urban network and intends to be **innovative** economic and cultural centre of the country and of the city region."

General goal

The transport system has to improve the economy **competitiveness**, ensure the welfare, liveability of the Budapest region, promote of its and the sustainability conditions.





Strategic objectives

- Livable urban environment
- Safe, **predictable** and dynamic transport
- Cooperative regional connections









Priorities / areas of intervention

- MORE CONNECTIONS
 Safe, high quality. integrated transport infrastructure
- 2 ATTRACTIVE VEHICLES

 Comfortable, environmental friendly vehicles and equipment
- BETTER SERVICES

 Efficient, reliable traffic coordination and services
- **EFFICIENT ORGANIZATION**Consequent regulation and **governance**, regional cooperation



PROJECTS – MORE CONNECTIONS

Széll Kálmán tér

- Major transport hub in Buda
- Green, accessible space
- Rehabilated community area
- Bike sharing station, customer centre

Budaörsi út junction

- In line with **M4 Metro** project
- Major intermodal hub in Buda (M4 metro, trams, local bus, regional bus and national railway services)
- P+R and B+R services
- Improved connectivity in the area







PROJECTS – MORE CONNECTIONS

Renewal of metro and tram lines

- M2 and M4 metro infrastructure
- Interconnected tram network in Buda
- Renewed and extended tram line 1 and upgraded tram line 3
- Long routes, direct connections
- New, low floor vehicles, new depot
- Tram line 1 and 3 further extension

MOL Bubi bike sharing scheme

- **112 stations** in operation
- 1250 public bikes



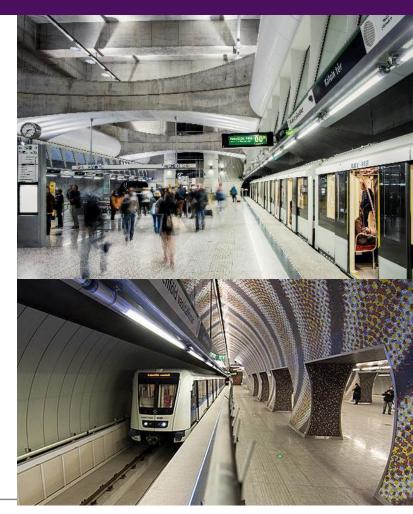




PROJECTS – ATTRACTIVE VEHICLES

Metro vehicles

- New fleet on M2 metro line
 - Step-free access
- New fleet on M4 metro line
 - Step-free access
 - driverless operation since 2016
- Renewing fleet of M3 metro line
 - first prototype arrived in 2016
 - In service from 2017 Q2
- Renewal of M1 line fleet is discussed





PROJECTS – ATTRACTIVE VEHICLES

New trams

- 47 (35 + 12) new, low floor CAF trams
- 17% of the entire fleet
- new depot completed in 2017 Q2
- Built-in power storage bigger range and service area (without overhead cables)

New trolley buses

- **36** (20 + 16) **new, low floor Solaris- Skoda trolley-buses** (21% of the whole fleet)
- Built-in power storage bigger range and service area (without overhead cables)







PROJECTS – ATTRACTIVE VEHICLES

New bus fleet

- New bus operation model (3 private operators)
- Nearly 1000 air conditioned, low floor buses in 6 years (more than 300 second-hand low-floor, more than 600 new)
- 16 electric midi buses for environmentally sensitive areas (inner city, Castle Hill)





PROJECTS – BETTER SERVICES

New customer interfaces

- Customer centres in major hubs
- Customer points in more locations (including Budapest Airport)
- New visual communication (maps, static information)
- Use of **social media** (Facebook)

For more informed, connected, empowered and active customers.





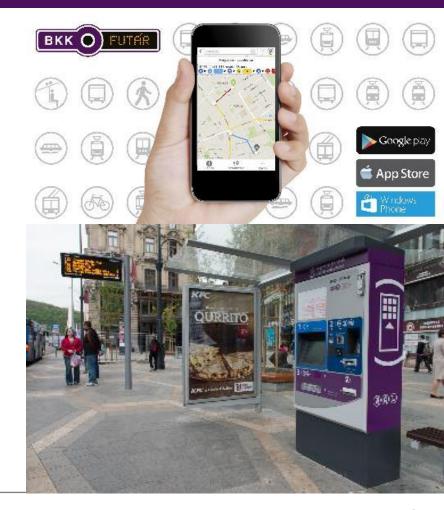
PROJECTS – BETTER SERVICES

FUTÁR system

- Dynamic passenger information
- Traffic management and journey planning
- Vehicle location (GPS), real time data
- Traffic control centre

Ticket vending machines

- **360 new TVM's** around Budapest
- Web support (TVM map to find nearest)
- Increase in ticket revenues





PROJECTS – BETTER SERVICES

RIGÓ AFC system (automated fare collection)

- In progress, planned launch in several phases
- E-ticket format (safe and convenient)
- Anytime, anywhere
- System plan, basic hardware and software, control units available
- 800 gates, 10000+ validators, 470 cameras









PROJECTS – EFFICIENT ORGANIZATION

Integrated governance

- Integration, holistic approach
- Clear competences
- **Efficiency**, overall quality
- Participatory planning
- Consistent regulation
 - Parking
 - Freight transport access
 - Tourist buses
 - Integrated transport safety database
- Local and regional cooperation







PROJECTS – EFFICIENT ORGANIZATION

P+R and B+R development

- 7 P+R locations completed
- 5 P+R locations in process
- Review of parking strategy advised (in cooperation with the *Districts*)

Renewal of infrastructure

- Complex design of road and bridge renewals (in cooperation with the Districts and the Road Operator)
- Pedestrian and bike friendly solutions, improved accessibility, visibility, safety







PROJECTS – EFFICIENT ORGANIZATION

E-mobility and Car Sharing

- Preparation of possible regulation of E-mobility and Car Sharing services
- 1100 charging units to be installed (currently discussed with the Districts, MOL Group and Ministries)

Regulation of City Logistics

- Control based on current regulation (in cooperation with the *Road Operator*)
- New regulation to be developed to make urban freight greener, smarter and less pollutant.





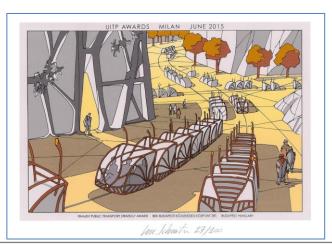




SEEKING THE FUTURE...

Research & Innovation: hot topics include SUMP, participatory planning, MaaS, liveable city, e-mobility, Big Data, Open Data, intermodality...

- 7 ongoing projects (FLOW, SMART-MR, SUMPs-UP, EMPOWER, SUNRISE, MaaS4EU, Cities4People)
- 7 proposals submitted in 2017 (PURE, SMARTIFY, MORE, BD4T Big Data 4
 Transport, OPPORTUNITIES, INCLUSION, VITALNODES)
- **SUMP related activities rewarded** (Milan 2015, Shenzhen 2016, Brussels 2017)











Thank you for your kind attention!



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