RESPONSIBLE MOBILITY MANAGEMENT FOR LIVEABLE BUDAPEST

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CONTENT

- Passengers Customers Partners (Who are they?)
- Mobility management in Budapest
- Development for a smarter city





PASSENGERS – CUSTOMERS – PARTNERS







THE ONLY THING THAT IS CONSTANT IS CHANGE

Pope election 2005 vs 2013:

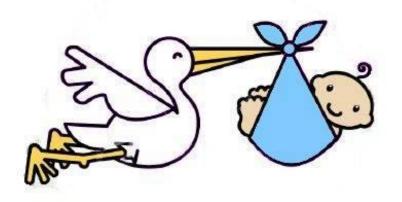






LEVELS OF DEMAND

What are the parent's responsibilities to provide a long and happy life for a newborn?



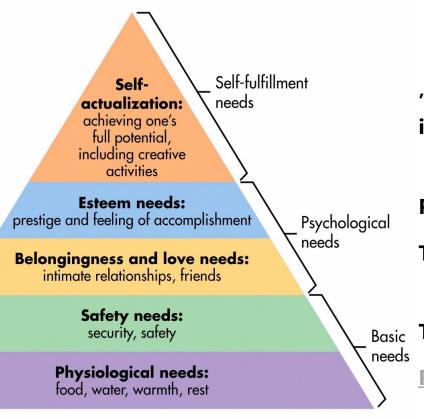
(for the next 20+ years):

- Air, Food, Rest
- Safety and security
- Supportive relations
- Confidence, respect
- Education to become a creative and useful member of society (taxpayer)



FROM DEMAND TO CHALLENGES

What is our responsibility, as mobility managers?



"Smart citizens", reliable <u>partners</u> in changing demand and behavior

Proud and respected <u>customers</u>

Travel information and support

Basic Travel safety and security

Passengers from "A to B" (tools)









MANAGING A DENSE TRANSPORT SYSTEM

BKK is responsible for all travelers regardless the purpose, the aim, and the mode of transport. No absolute priority among transport modes.

Travel demand is to be **influenced** based upon **sustainability principles**, **real society demands** and **reasonable economic costs**.



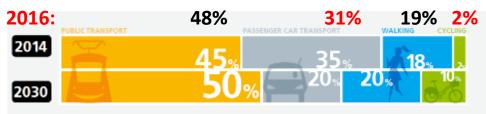
PASSENGER CARS
(BUDAPEST)

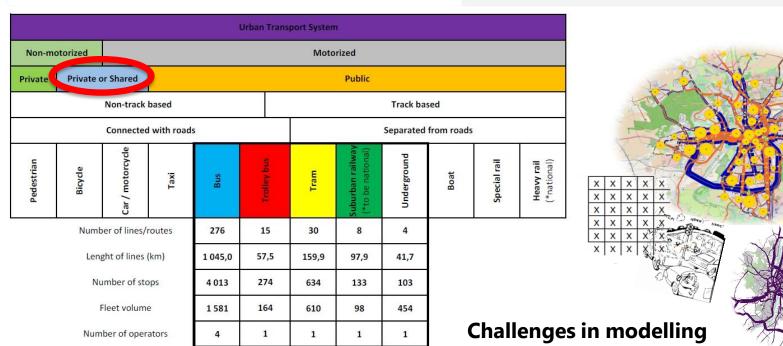




FINDING THE RIGHT BALANCE – FROM OWNERSHIP TO ACCESS











IMPROVING THE INFRASTRUCTURE AND ROLLING STOCK

















IMPROVING THE SERVICES















IMPROVING THE ORGANIZATION

Before 2010

2010-2014

After 2015

Before BKK

- No control
- No willingness to change
- The aim is daily survival

Passengers to carry



Forming – Storming...

- "Engineer"
- Creation of a competence center
- The aim is to keep the system running, projects

Customers to serve



...Norming – Performing...

- "Mobility Manager"
- Keeping and improving the existing knowledge
- The aim is to have an innovative and effective company

Partnerships to maintain





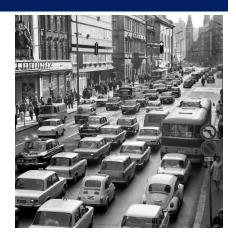




UNDERSTANDING RESPONSIBILITY – DECISIONS EFFECT DAILY LIFE















UNDERSTANDING THE PAST – NO SILVER BULLET







THINKING INTEGRATED – FROM SILOS TO SHARED











CHANGING THE PLANNING APPROACH

| TRADITIONAL DESIGN | \Leftrightarrow | SUSTAINABLE STRATEGY |
|---------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|
| TRAFFIC | \Leftrightarrow | THE HUMAN BEING |
| KEEPING THE CITY MOVING, SERVING TRAFFIC NEEDS | \Leftrightarrow | LIVEABLE CITY, INFLUENCING MOBILITY NEEDS |
| FOCUS ON TRANSPORT MODES, MAIN FOCUS ON ROAD TRAFFIC AND PUBLIC TRANSPORT | \Leftrightarrow | COMPLEX APPROACH, SUPPORT OF SUSTAINABLE TRANSPORT MODES |
| INFRASTRUCTURE IS THE FOUNDATION OF THE SYSTEM | \Leftrightarrow | MOBILITY AS A SERVICE |
| SEPARATE DESIGN FOR ALL SUBSECTORS | \Leftrightarrow | COORDINATED DESIGN INVOLVING ALL SUBSECTORS |
| SHORT AND MID-TERM DEVELOPMENT PLAN | \Leftrightarrow | DESING PROCESS BASED ON LONG TERM VISION AND GOALS |
| WITHIN THE OFFICIAL CITY BOUNDARIES | \Leftrightarrow | WITHIN THE FUNCTIONAL BOUNDARIES, WITH REGIONAL APPROACH |
| ENGINEERING APPROACH | \Leftrightarrow | INTERDISCIPLINARY APPROACH, WITH PUBLIC INVOLVEMENT |
| DESIGN IS DONE AND DISCUSSED BY EXPERTS | \iff | DESIGN IS DONE WITH INVOLVEMENT OF ALL STAKEHOLDERS, FINALIZED AFTER PUBLIC HEARINGS |
| SUBSECTORAL EFFECT ANALYSIS, PROJECT FOCUS | | OVERALL STRATEGIC EFFECT ANALYSIS, WITH MONITORING AND ASSESSMENT PROCESSES |





BECOMING SUSTAINABLE IN VISION, GOALS AND MEASURES





2 ATTRACTIVE VEHICLES

Comfortable, environmental friendly vehicles and equipment



4 EFFICIENT ORGANIZATION

Consequent regulation and governance, regional cooperation















SHAPING EUROPE

International connections for two way information flow (EMTA, EUROCITIES, UITP, POLIS etc.)

Participating in international policy making:

- Developing EU <u>directives and policies</u>
 (Urban Mobility Package, ITS Directive, Mobility as a Service, Clean Vehicles Directive, SUMP)
- Widespread professional working group activity
 - Environment and Health in Transport
 (Bike sharing, "Clean" vehicles, Alternative fuels)
 - Mobility and Traffic Efficiency
 - Social and Economic Challenges of Transport
 - Transport Safety and Security
 - Urban Freight Transport



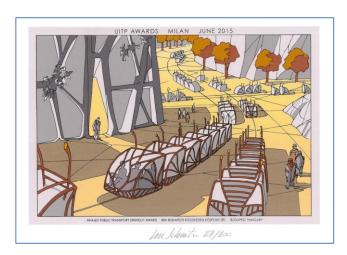




COOPERATING IN RESEARCH AND INNOVATION

Hot_topics include **SUMP**, participatory planning, MaaS, liveable city, e-mobility, Big Data, Open Data, intermodality...

- 9 ongoing projects (FLOW, SMART-MR, SUMPs-UP, EMPOWER, SUNRISE, MaaS4EU, Cities4People, INCLUSION, VITALNODES)
- 2 proposals in 2nd phase (MORE, SMARTIFY)
- **SUMP related activities rewarded** (Milan 2015, Shenzhen 2016, Brussels 2017)











OBSERVING AND FOLLOWING FUTURE TRENDS

Observing and following transport development **trends**:

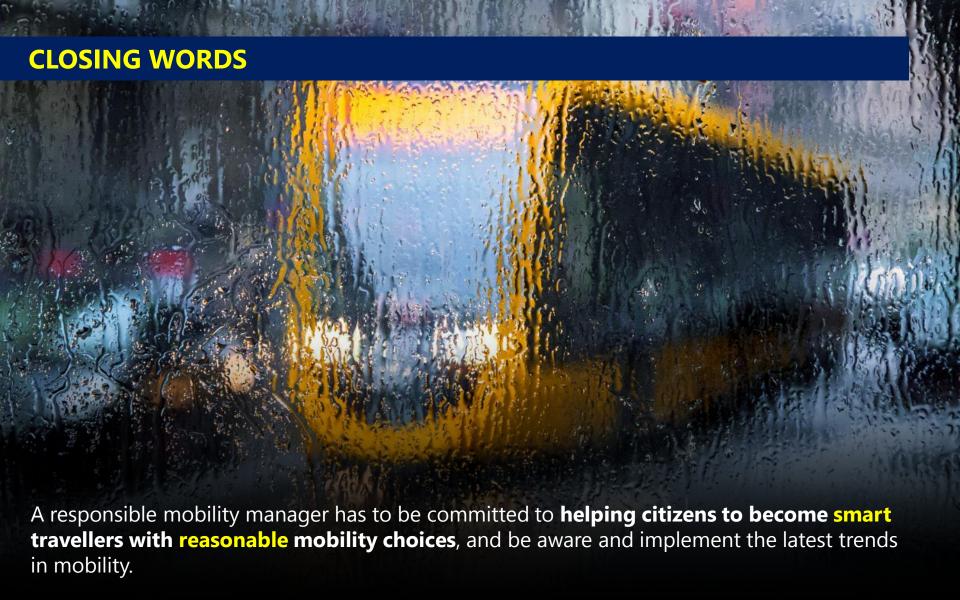
- Mobility-as-a-service (MaaS)
- Participatory planning
- E-mobility
- Internet of things (IoT)
- **Smart city** solutions
- Automation
- Sharing economy
- Sharing based mobility

All these require partnerships!

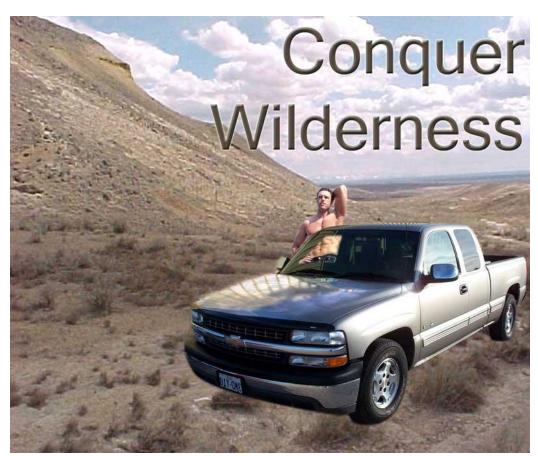


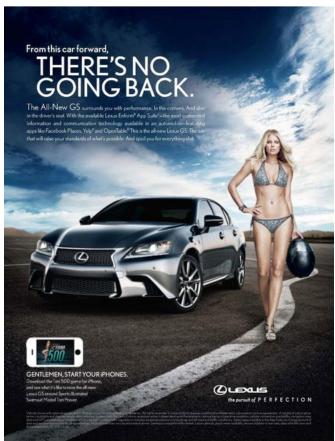






CAR OWNERSHIP – SMART AND REASONABLE?





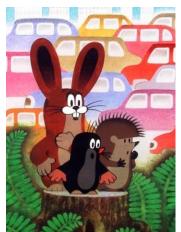


THE CAR IN THE CITY AS WE KNOW IT

















THE "CAR" OF TOMORROW IN THE CITY? (AUTOMATED, ELECTRIC)

VERTICAL

HORIZONTAL

PUBLIC MASS TRAVEL FIXED TIMETABLE





SHARED ERSONAL TRAVE ON DEMAND







CAR FREE CITY CENTERS – HUMAN AGORA (ESSENCE OF A CITY)













INNER AREAS WITH SHARED SPACES



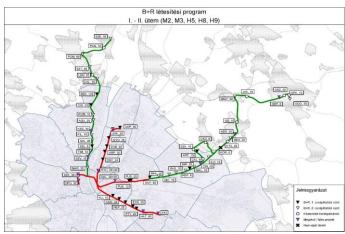




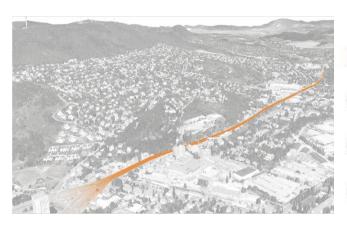


OUTER AREAS WITH PERDICTABLE CONNECTIONS

















THANK YOU!





