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"Integrative tools and solutions in urban and regional public transport" – - from the perspective of Budapest

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Conference on " Rethinking sustainable transport and mobility to meet the challenges of a new era"

by the United Nations – Economic Comission for Europe – ITC (Palais des Nations)

Geneva, 24. February 2015

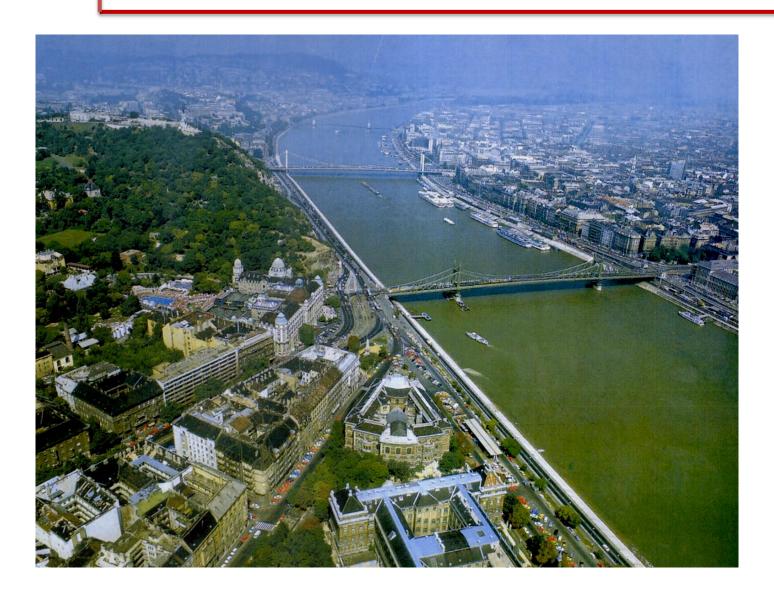


Decideing changes in the last decades

- disappearing of the big state owned companies rising of new more "disperse" activities: SMEs, banks, insurances,
- declining in public transport usage, worsening quality of services
- opening the market of cars increasing motorisation and car usage, congestions in the dense urban areas
- environmental problems sensibility at the population more cycling and "sustainability" by civil organisations
- changes in the transport policy improving accessibility by pushing to more environ-friendly modes; helping seamless travel by better intermodality
- seeking for new tools and solutions ("push and pull" measures: e.g. make more attractive PT (beside of renewal the fleet e.g. coordination of urban and regional services (transport association), e-payment, etc.) & car access fee?

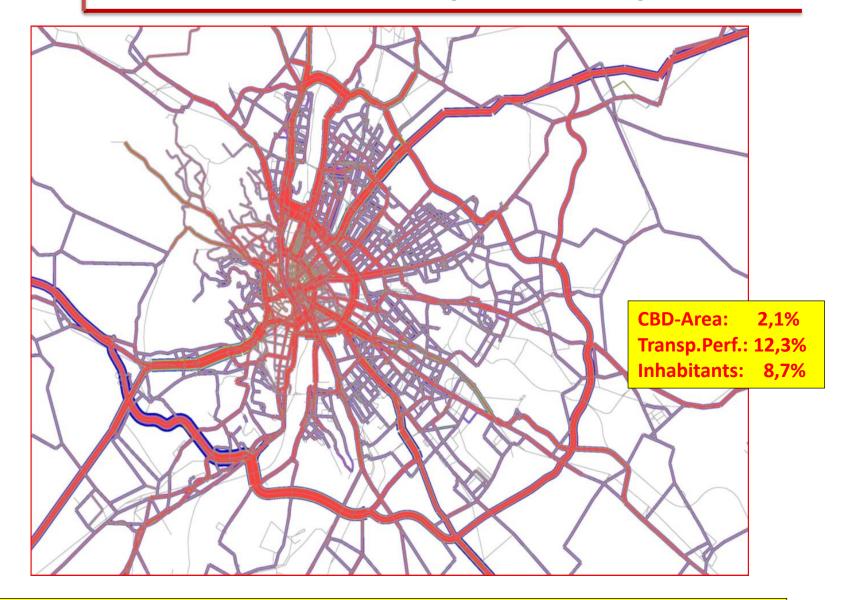


Budapest - bird-ey-view - inner city area





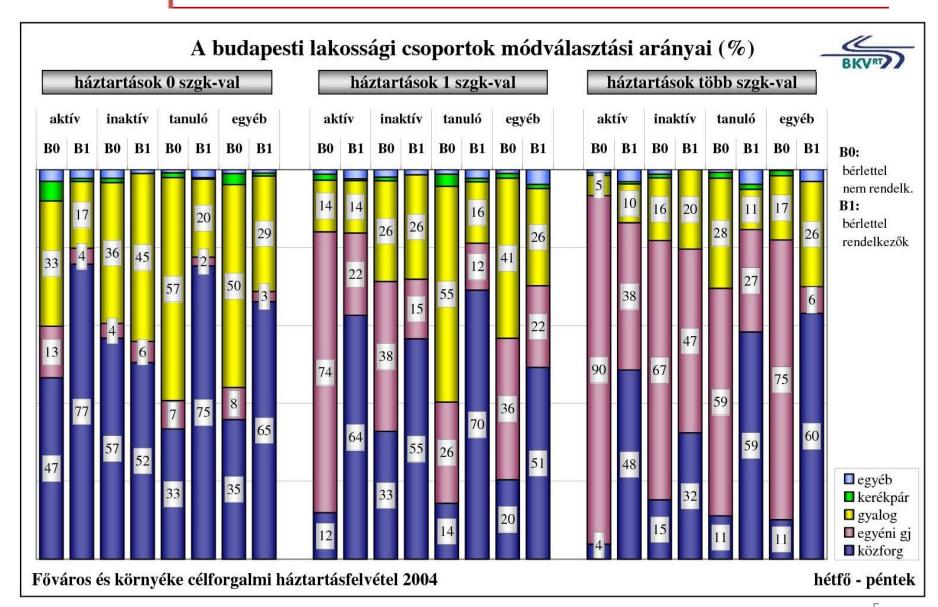
Overloaded inner city – liveability deficit



Reasons: high activity density, missing ring roads, increasing car traffic



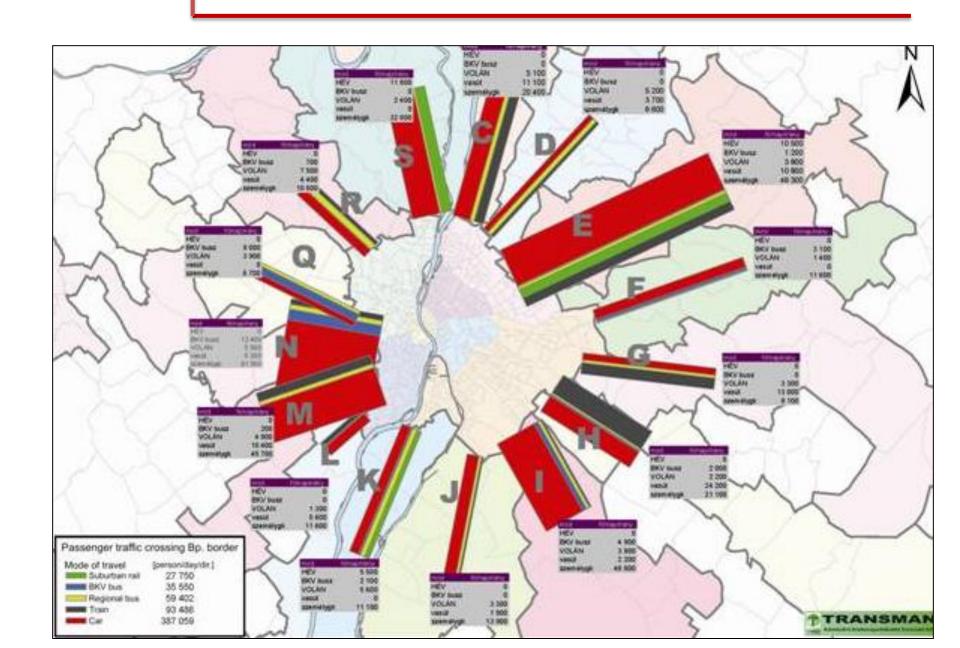
Budapest – Modal use of groups (~60:40) > shifts to car?



Groups by: car ownership of HHs; activity status of persons; monthly pass availability



Budapest – border crossing trips (~40:60)





Some possible policies, measures, developments

Promoting sustainable life and mobility

Reduction social (internal- & external-) costs

Influencing transport modal use and shares (better PT, more cycling)

<<<<<<<

Making public transport more attractive

Extention of track-bound modes

Renewal of vehicle fleet

PT assotion & integrated fare system

Applying electronic payment system

Restricting road traffic conditions

Calming measures, stricter parking

Adopting good city logistic solutions

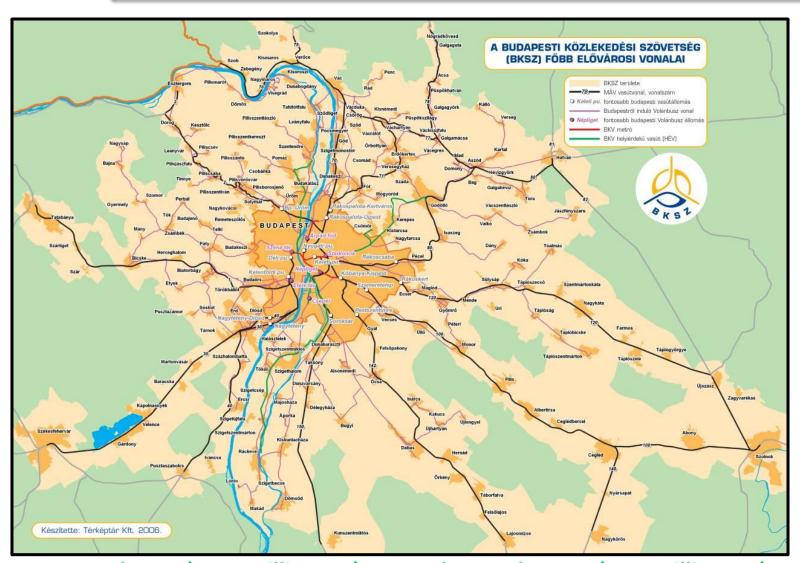
Amending ring network elements

Introducing access fee in inner area

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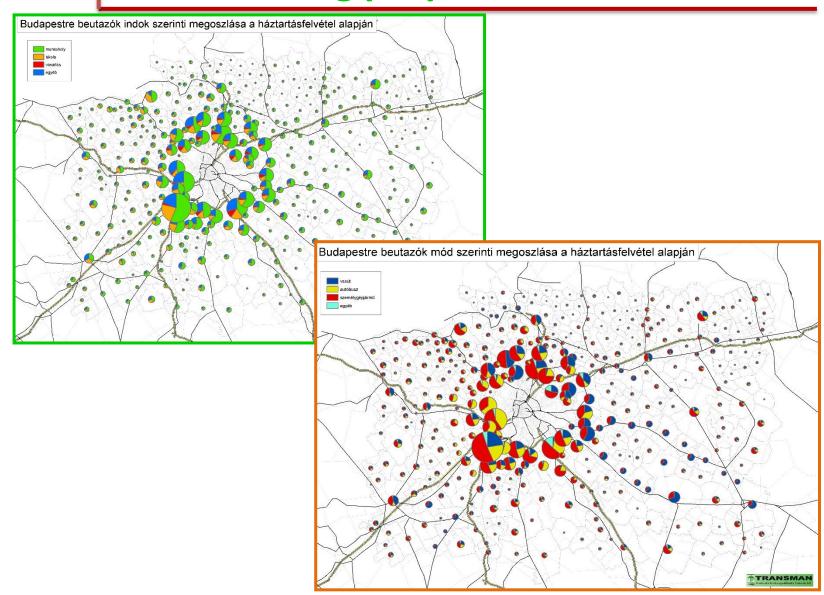
Budapest – Considered PT-association area



Area: Budapest (~ 1,7 Million IHs) ~180 other settlements(~1,4 Million IHs)
Main operators: Budapest Transport Co(BKV); Hungarian Rail(MÁV-Start); Volánbusz⁸

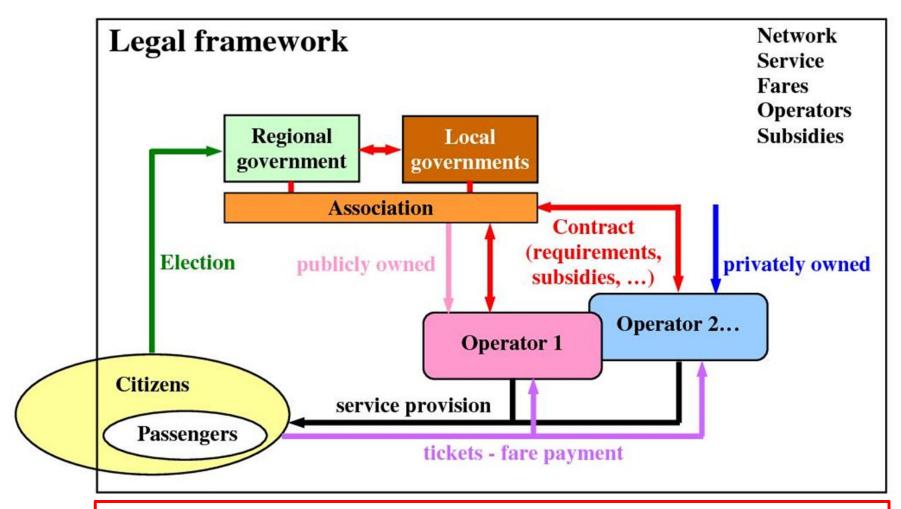


Commuting purpose and mode use





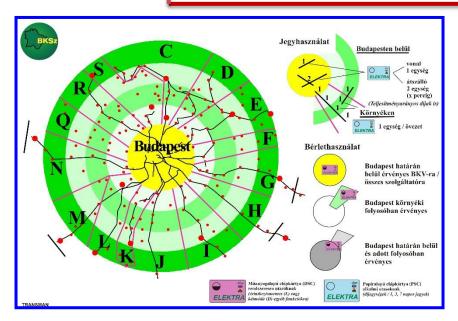
Actor and regulation model frame for PT



Association: Shared service provision responsibilities – Coordinated services – Integrated fare system –Common subsidising!!! – Intermodal developments



Integrated tariff and e-payment system



Important aspects:

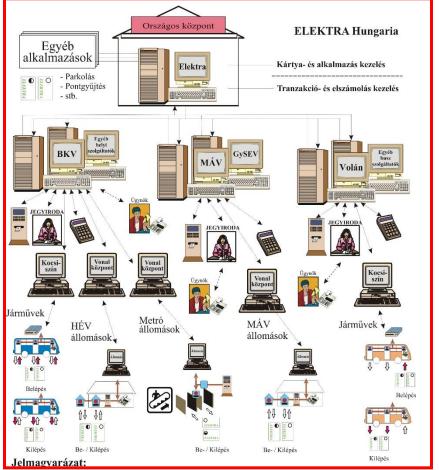
Technical and security requirements

Coverage for all trasport groups (+car users)

Co-opreative urban and regional systems (isle?)

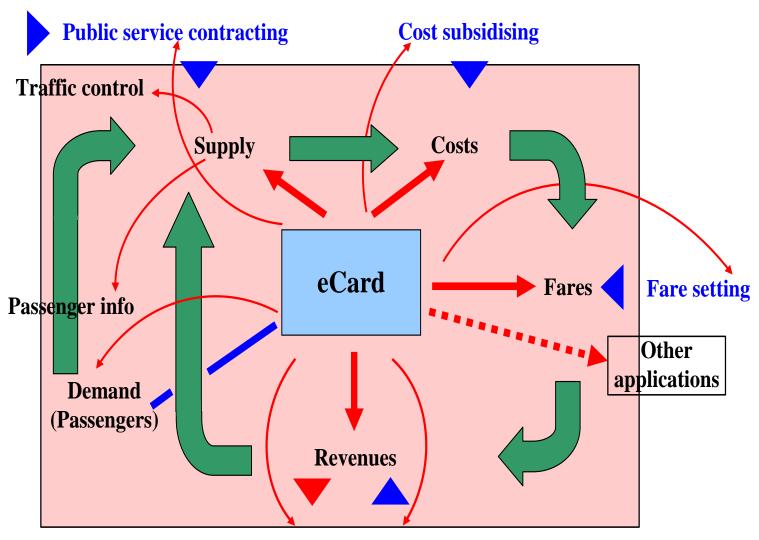
Feasible and robust technical solutions
Sufficient central and back office system
Easy and multi-point access to fare media
Demand fitting new fare products
Passenger help-centres

Data for travel & service processes & revenues





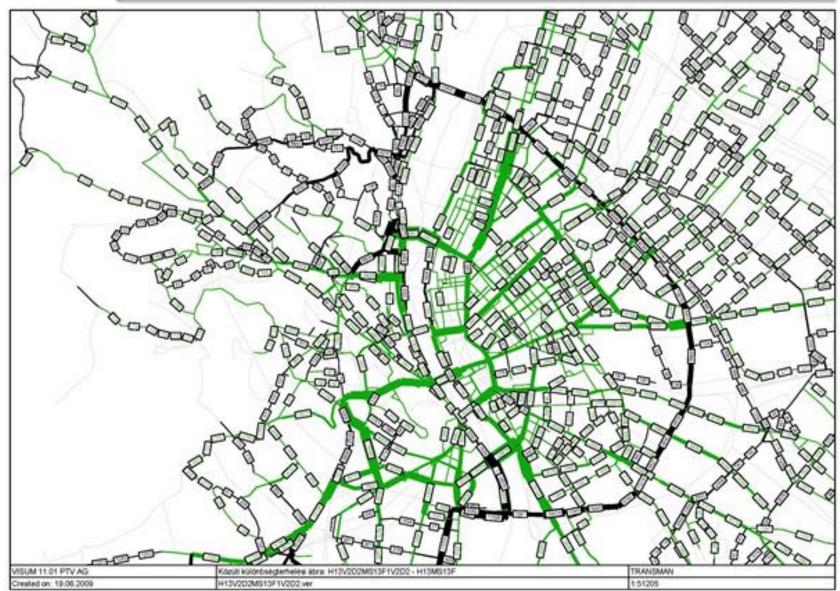
e-Card: as important data generator



Taxation Fare subsidising



Changes of car traffic because access fee





Integrated think-way in transport planning!!!

Analysis > Development target groups >

Development tools and measures (Examples)

Development impacts (indicators)

- Improve travel condit. by mode and area different
- Minimize environmental intrusion and damages
- Enhance accessibility and developm. chances
- Ensure maximal econ.
 and social efficiency
- Keep transport financeable

- Reconstr. transp..infrastr.
- Renewing vehicle fleet
- Unifying fare system
- Coordinating urban & regional services
- Introducing e-ticketing
- Implementing passenger information system
- Applying city access fee
- Construct transp.infrastr.

- Investment costs
- Operation costs
- Modal share!
- Transport time costs
- Transport user costs
- Accident costs
- Air pollution
- Noise
- Accesibilities!
- Location potentials
- Efficiency (CBA,MCA)

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Many thanks for your attention!