

Sofia Contactless travelling with card in PT





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- We are a leading european company in the branch of fare collection systems in public transport
- 16 years of experience in ticketing
- 28 countries, 25 milion passengers every day





Europe:

Austria

Belgium

Bosnia and

Herzegovina

Bulgaria

Croatia

Czech Republic

Germany

Greece

Hungary

Italy

Latvia

Lithuania

Norway

Poland

Romania

Rusia

Slovakia

Spain

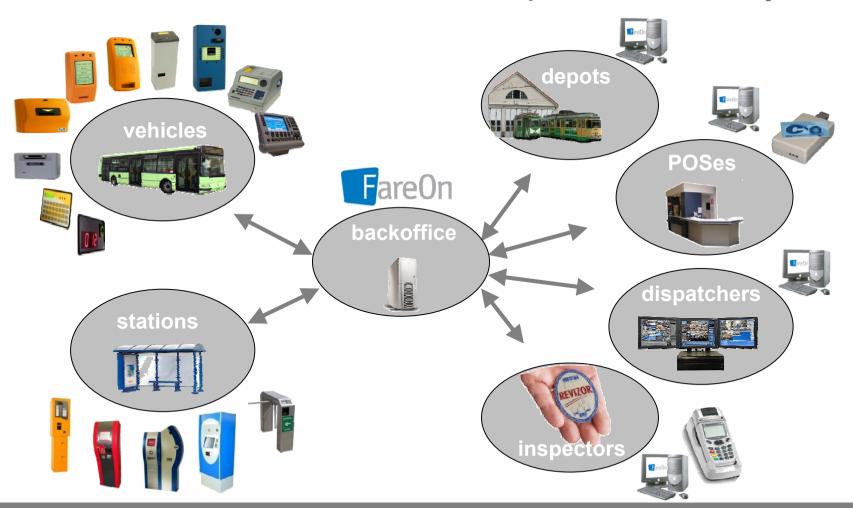
Sweden

Switzerland





Complex fare collection system





Product portfolio



onboard computers ticket processors



contactless card and ticket validators



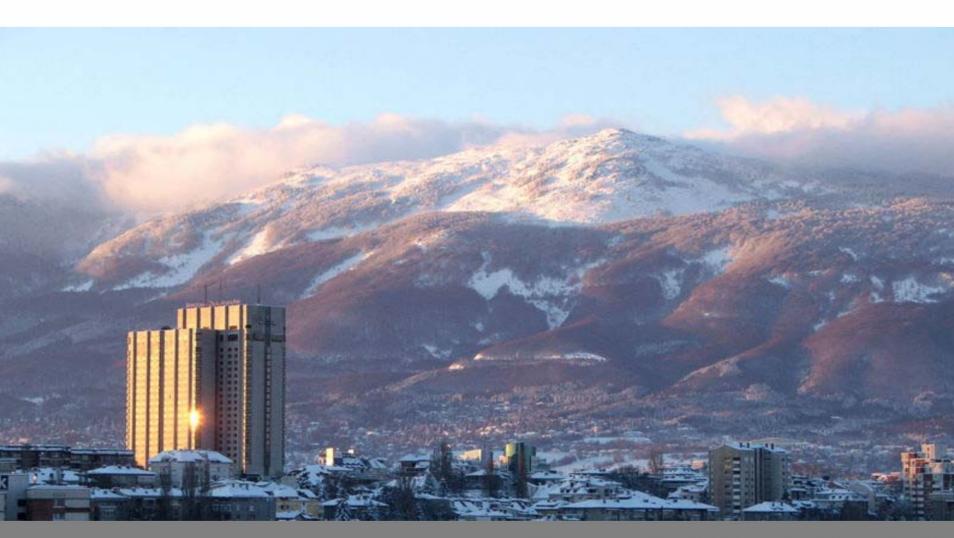
ticket vending machines (stationary/mobile)



accessories

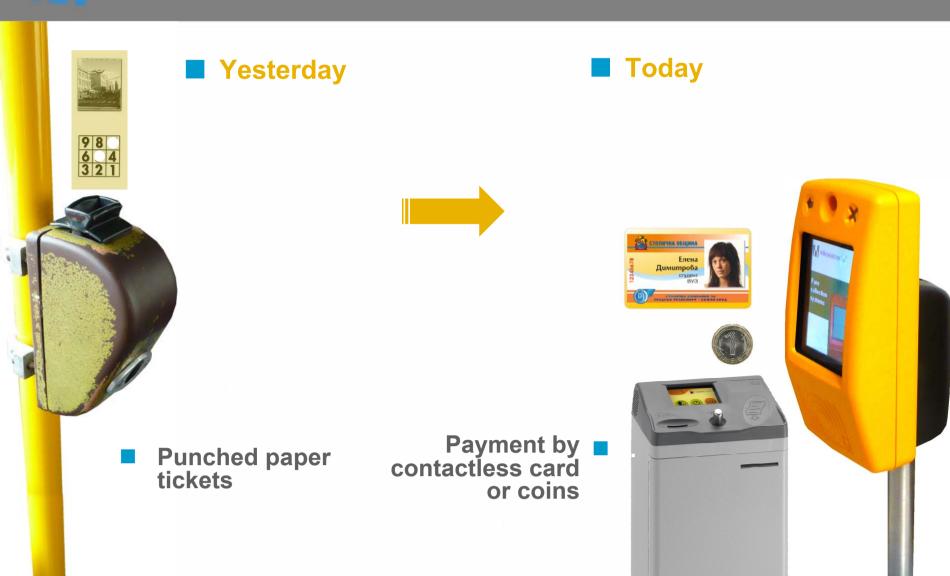


Fare collection in Sofia





Fare collection in Sofia





Background and financing

- tender promoter municipality
- user- transport authority SKGT
- vehicles are property of EAD
- grant of Netherland government 78%
- coordinated by EBRD
- 2 round selection procedure,46 competitors in first round,13 in the second
- 8 proposals
- main evaluation criteria: price



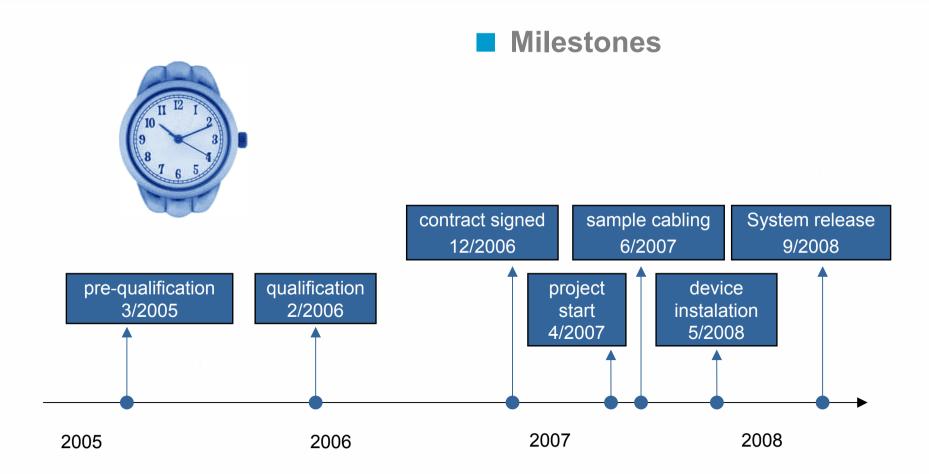


Basic figures

- 466 trams and trolleybuses
- 1830 card validators
- 466 comunication units
- 100 000 cards
- 20 vehicle inspection readers
- 56 POSes
- 2 years of warranty service









Advantages for passengers

- the card is always at hand, no need to carry cash
- the card can work placed in a wallet
- a singe card can be used for more transport companies
- passenger's money save: blocking in case of card loss and saving of remaining balance



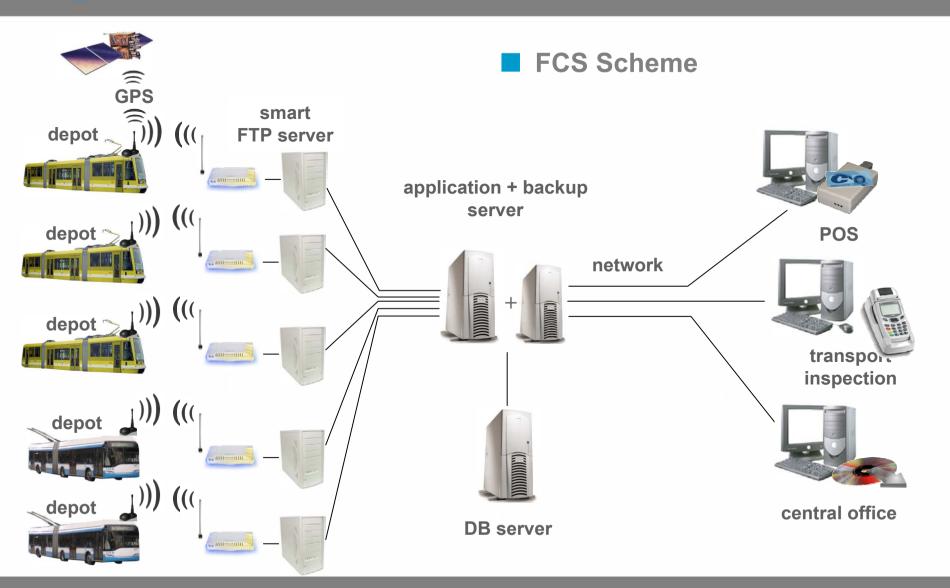


Advantages for operator

- data for transport optimalization
- fast and easy updating
- smooth integration of other companies
- easy for drivers, inspectors,
- no "fake tickets"
- on-line monitoring
- strong controling tool (passengers, drivers, inspectors)

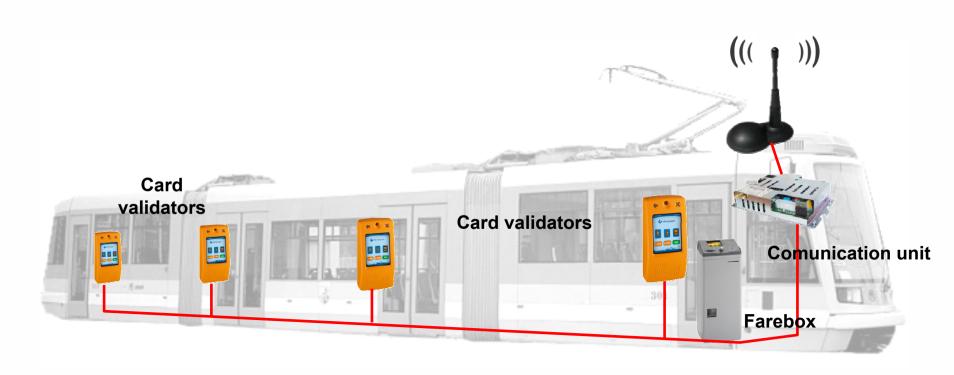








Vehicle equipment





Devices







Farebox



Comunicationunit



Handheld reader



Card validator Camel





valid card start irregular card start



■ Ticket vending machine MS



Insert coins





Further development

- city card project parking, library, cultural institutions, sport institutions, schools, governement, ...
- enhancement to whole transport system
- self service zones
- internet applications
- commercial applications





Best of Practice

.. if we could start again...

- Find experienced local advisor
- Study legal aspects in advance (VAT, fiscal law, Intrastat)
- Expect frequent changes (plan x reality)
- Beware of different culture (don't change accept it)





Where to find us





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Thank you for your attention

