



ADVANCING
PUBLIC
TRANSPORT



**NEW WAVE OF INTEREST IN TROLLEYBUS IN TURKEY AND WORLDWIDE
MALATYA, 1ST AND 2ND OCTOBER 2015**

ADVENTURES OF TROLLEYBUS IN TURKEY

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Trolleybus Turkey Adventure

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- ✓ About my Company-Kayseri Ulasim
- ✓ History of Trolleybus in Turkey
- ✓ Re-orientation
- ✓ Future Projections

Kayseray

- ▶ Established in June 2008,
- ▶ Kayseray LRT take over in August 2009,
- ▶ 150 Technical Stuff (23 Engineer)
- ▶ 110 Operational Stuff
- ▶ 10 Administrative Stuff
- ▶ 180 Security staff
- ▶ 60 cleaning stuff



Kayseray

- ▶ Area of Business
 - ▶ Operator of:
 - ▶ Kayseri LRT System
 - ▶ KayBis-Kayseri Bike System
 - ▶ Consultancy Service
 - ▶ Construction Project Management
 - ▶ Production of Traffic Controller, Orientation Sign
 - ▶ Fiber Optic Backbone
 - ▶ ITS, Traffic and city security management system
 - ▶ Service to road traffic signalling system



LINES



Trolleybus' Turkey Adventure

- ▶ Trolleybus in Ankara
 - ▶ Turkey Trolleybus adventure started with Ankara.
 - ▶ In 1940 trolleybus started service in Ankara with 38 Trolleybuses with 6 routes.
 - ▶ After 40 years of service like other cities in Turkey, in 1980's Ankara Trolleybus disappeared because of poor operational speed and due to traffic delay.

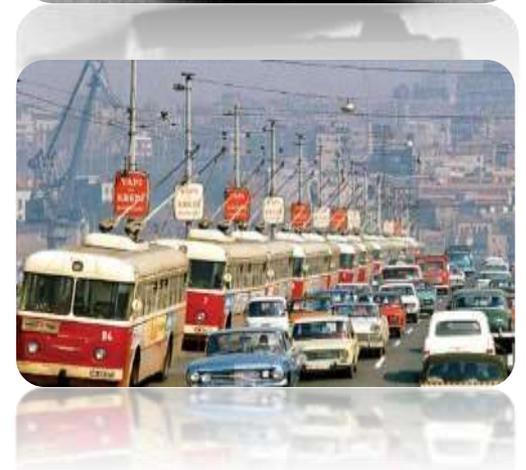


- ▶ Newspaper from 18 October 1959. Says that over head line broken peoples were scarred, some of them faint, operation intrupted.

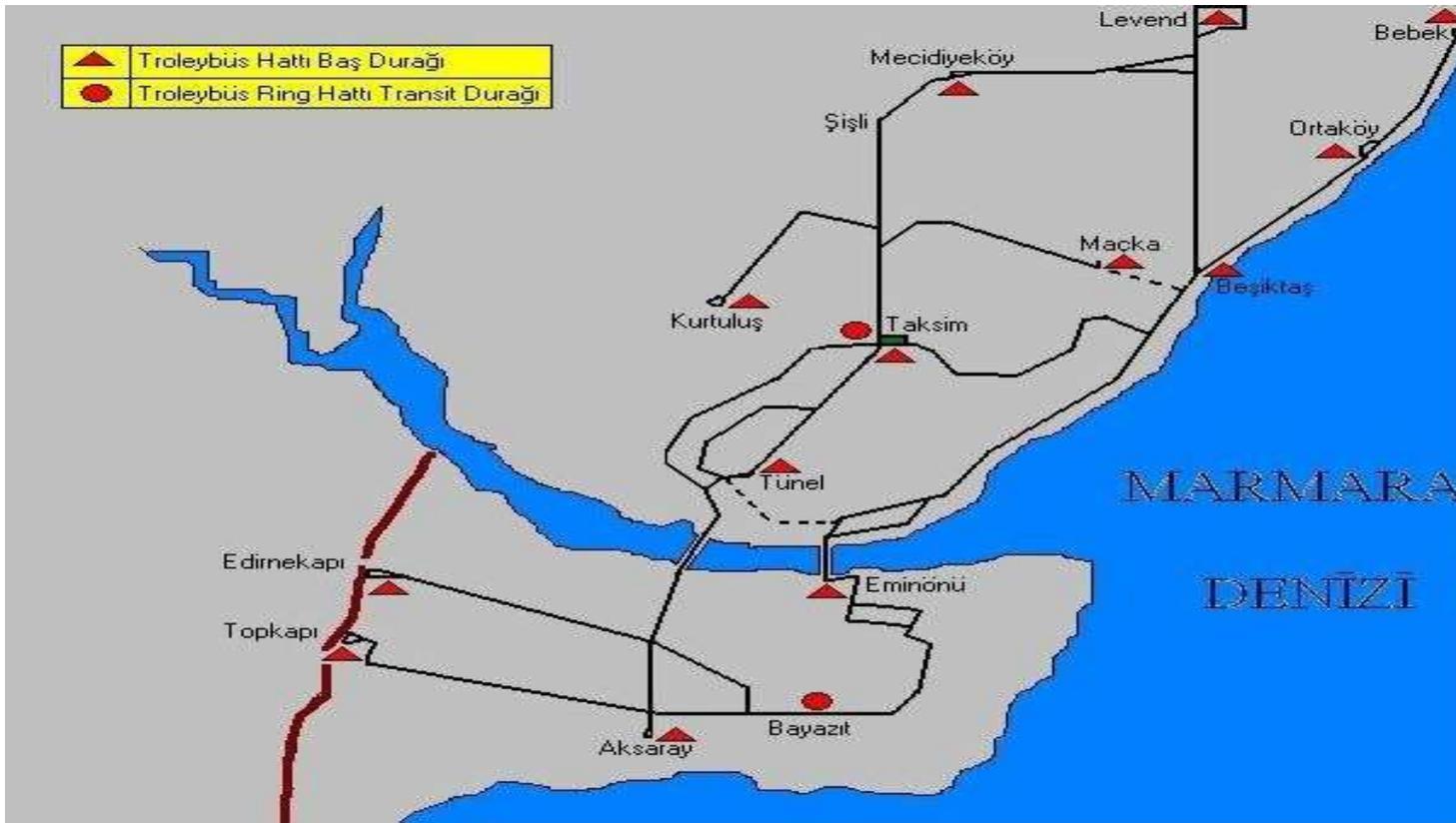


Trolleybus Turkey Adventure

- ▶ Trolleybus in Istanbul
 - ▶ Started in 1961, 101 Trolleybus, 45 km line, 6 garage,
 - ▶ Due to poor electricity and power interruptions, trolleybuses often were out of service therefore trolleybus taken out of service in 1984.
 - ▶ Trolleybuses are sold to Izmir municipality,
 - ▶ After 23 year of service in 1984 trolleybus istanbul adventure finished.



Trolleybus Lines



TOSUN-FIRST TURKISH TROLLEYBUS



- ▶ TOSUN originally was trolleybus produced by the worker of IETT in 1968, it was the 101th trolleybus of Istanbul.
- ▶ IN 2013 IETT refurbished TOSUN as normal bus and put in service.



Trolleybus Turkey Adventure

- ▶ Trolleybus in Izmir
 - ▶ In 1954 first trolleybus started service in Izmir.
 - ▶ Between 1954-1992 138 trolleybus served on 9 line.
 - ▶ In 1992 trolleybus service stopped. They left place to the BUS.



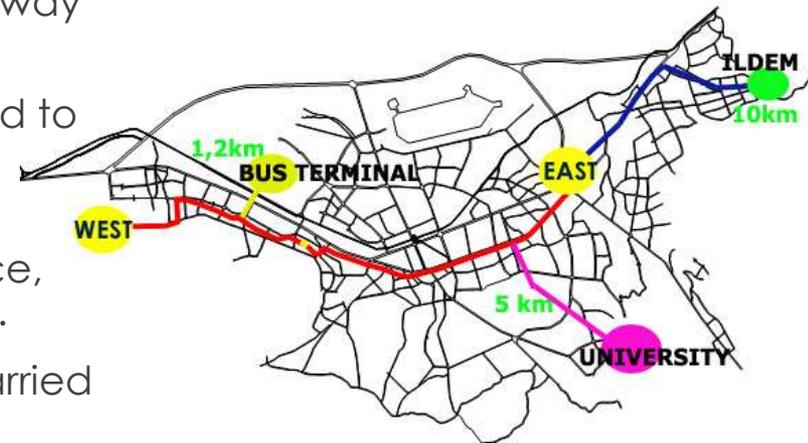
Re-orientation

- ▶ Trolleybuses invented in 19 century and became widely used from 1930.
- ▶ After they left place to diesel bus because of low cost. And to tramway because of high capacity.
- ▶ With oil crisis and the continuing dependence on fossil fuel and its adverse effects on the environment and on human health , existing trolleybus lines maintained.
- ▶ After 1970, By help of Advance technologies, modern style, in some cities, former trolleybus lines are planned to be launched again.



Re-orientation

- ▶ In 2011 Kayseri start interesting in trolleybus to connect LRT line to coach stations.
- ▶ Feasibility study is done by Kayseri Ulaşım, it is seen that trolleybus system is cheaper comparing to LRT system and offer similar capacity, by the way construction time is less.
- ▶ There are more advantages that can be used to prefer trolleybus system.
- ▶ After getting this basic knowledge a deeper study has been done in terms of maintenance, operational cost and total cost of ownership.
- ▶ In the meanwhile another study has been carried out to compare bus, metro bus system with trolleybus. During this period many trolleybus system and technology provider visited.



Re-orientation

- ▶ With having all this useful information and proactive action by the help of being public company and sharing experience with who needs trolley bus system becomes interesting transport mode in Turkey.
- ▶ Meanwhile Malatya city started interesting trolleybus system and signed contract with KU for feasibility study and technical support.
- ▶ In 2012 we started to consult Malatya city for their transport system modal analysis. Together working with them transport study OD analysis has been completed and presented to city Mayor explaining all benefits. By the help of UITP and TWG a tour in Europe to show running system is arranged.

Re-orientation

- ▶ Finally, technical specifications and all tender documents have been prepared and tender is announced to 22 April 2013 with 15 km lines and 10 trolleybuses.
- ▶ In the Public Transport Symposium of Transist 2012 in November 2012 which is taken place in Istanbul in the session of Sustainable Transport trolleybus system and study carried out for Malatya has been presented successfully. This was the first formal discussion and presentation about trolleybus system in Turkey.

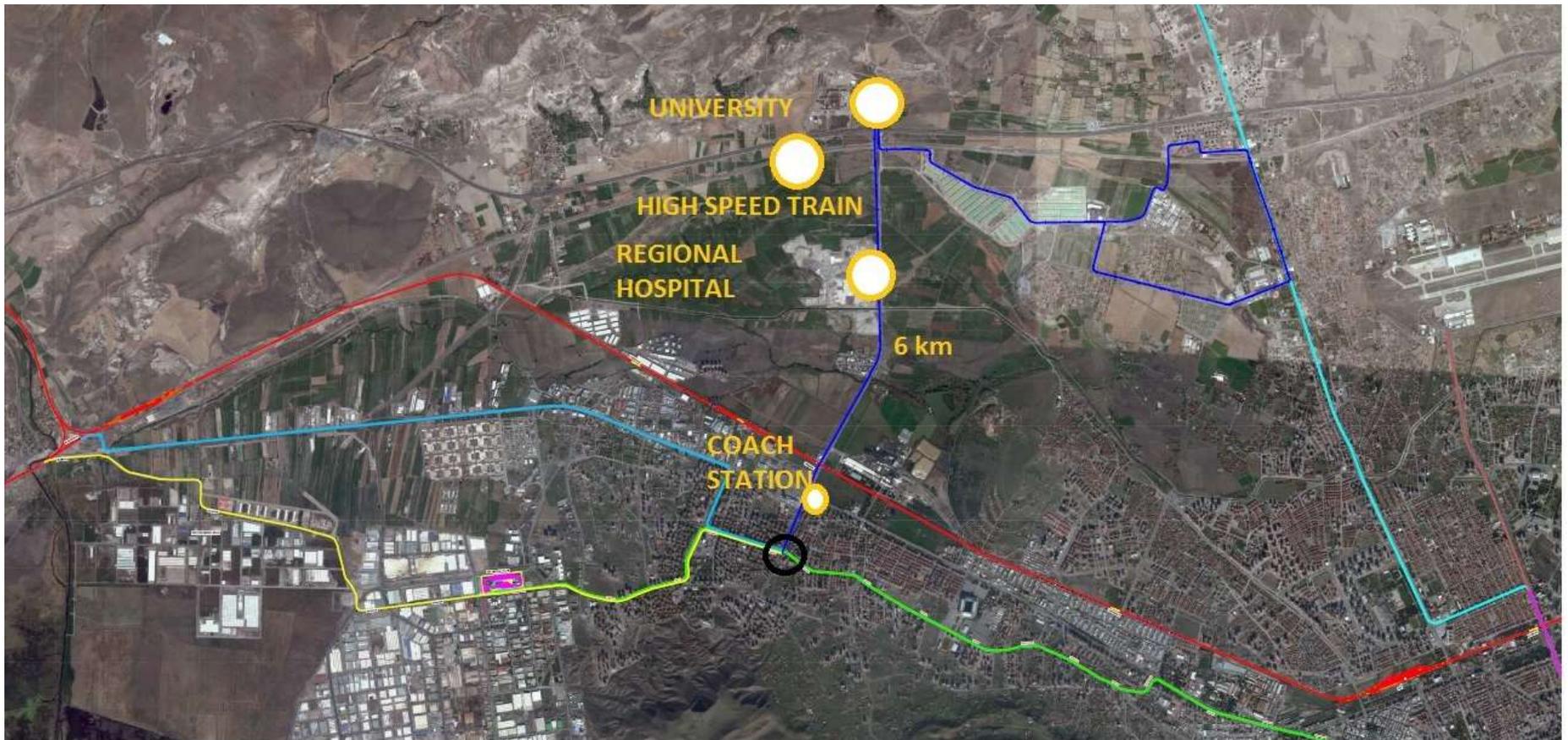
Why Trolleybus?

- ▶ As a summary:
 - ▶ Sustainable,
 - ▶ Efficient,
 - ▶ Environmentally friendly,
 - ▶ Low cost,
 - ▶ High technology and reliable vehicles,
 - ▶ Profitable operation, 2xlong life wr bus,
 - ▶ Low maintenance and operational cost,
 - ▶ Modern style, high Capacity,
 - ▶ Less construction period, less negative effect,

Interested Cities

Name Of City	Number of Trolleybus	Length of Line	Current Situation
Kayseri	30	30 km	Project Study
Malatya	10	13 km	In Operation
Şanlıurfa	8	4 km	Tender phase
Sakarya	18	20 km	Project Study
Kütahya	18	17 km	Project Study
MANISA	10	10 km	Project Study
Çankırı	5	5 km	Project Study
Hacettepe University Ankara	5	7 km	Project Study

TramBus-line



Finally

- ▶ After successful operation of Malatya TramBus system many more cities will be interested in Trolleybus system because of its advantages and fitting the needs for mid size city in Turkiye.



Thank you for listening

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