Sfax Tramway and new technology

Dr Riadh Haj Taieb
General manager of Technical Services

28 mars 2019
The Sfax tramway network was defined by the preliminary study carried out in 2014, entitled "feasibility of a system of Public transport in own site ecologically viable in the agglomeration of Sfax"

The network selected for 2030 is composed of 5 lines:

- **Two tram lines of 33,5 Km:**
  - T1: 22.8 km: from the airport to El Ons (Red Line)
  - T2: 10.7 km: from Gremda to the City Center (Green Line)

- **Three lines of BHLS of 36,5 Km**

- **Total cost of the network (70 km): 4000 MD**
- **Cost of the Line T1 Tramway (13.5 km): 1200 MD**
The first section of the T1 tram line in the city of Sfax has the following main characteristics:

• A double track platform line with a commercial length of 13.5 km.

• Equipped with 21 passenger stations, some of which correspond to the future T2 line and BRTs.

• A Maintenance Center on the Airport Road
**Modeling future traffic**

The calculations of the modal shares for the study horizons appear in the following graph:

![Modal Shares Graph](image-url)

- **2018**: Private car (62%), Collective taxi (3%), Individual taxi (3%), Public transport (6%)
- **2022**: Private car (57%), Collective taxi (25%), Individual taxi (15%), Public transport (6%)
- **2032**: Private car (56%), Collective taxi (17%), Individual taxi (25%), Public transport (17%)
- **2042**: Private car (53%), Collective taxi (15%), Individual taxi (2%), Public transport (30%)
The objective of the Transport System is to cover the needs:
* of exploitation,
* of maintenance

The constituents of the Transport System are as follows:
* Rolling Stock,
* The distribution of traction energy and low voltage energy to fixed equipment,
* The Airline of Contact,
* The Operational Assistance System / Traveler Information,
* The ticketing,

Size of the fleet: 20 trains
The Ticketing

Media:
- QR code card stock for casual trips
- Customizable cards for subscriptions

The equipment:
- Validators on board trams
- Control laptops
• Sales equipment
• Automatic ticket dispensers (DAT) in station, QR code tickets and reloading cards.

• Sales and card creation machines in agencies
• Supervision: central systems at CDEM, loading / unloading train data via WIFI type link to the CDEM
• The Traveler Information System (TIS) is integrated with the SAE, which monitors rowing in real time. It consolidates the means of information intended for tramway passengers and on board vehicles.

• Passenger Information Terminals with dynamic display in stations:

BIV double sided, installed in flag on each platform,
Display in Arabic and French
3 display lines:
  - Waiting time for the next 2 passages and
  - messages decided by the CCP operator,

Temporarily an information screen, at the option of the Operator
Contact:
Dr. Riadh Haj Taieb
dtechnique.munisfax@gnet.tn