

## HGS : Electronic Toll Collection Project In Turkish Highways



**CUSTOMER:** PTT and General Directorate for Highways

**SCOPE:**

- Building and operating a fee collection system to ensure the free flow of existing highways while collecting the fees

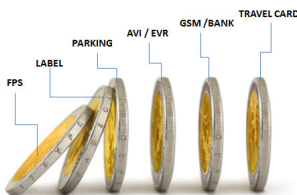
**IMPLEMENTATION:**

- 11 million users in total
- 387 lanes positioned in 94 locations throughout 2000 km of highways

- Each lane is composed of Lane Controller, Loop detectors, RF Reader, Camera, Traffic Lights and a VMS

- Online data transmission through fiber and satellite infrastructure
- 7 Region Computer Centers
- 1 Data Center
- 1 Violation Evaluation Center
- Bank Data Centers (Bank Integrations)
- Sales/Distribution Channels
- System Monitoring and Service-Desk System
- Back Office Application (running on plaza, region, data/violation/bank layers)

### Features of the Project



- The first reference implementation in Europe and Middle East region with Passive RFID Technology

- The most comprehensive ETC project of the world
- The most cost effective solution for automatic tolling due to low CAPEX and OPEX
- A Turn-Key Project with E2E Solution fully managed by Vendeka
- The system is designed to be used for many other applications

## **HGS MODEL**

