



# ITS ACTIVITIES UNDER DG COMMUNICATIONS



06 MAY 2024



## AGENDA OF THE PRESENTATION

1. POLICY MAKING AND STRATEGIC PLAN
2. ONGOING PROJECTS UNDER DG COMMS
3. NATIONAL AND INTERNATIONAL COLLABORATIONS
4. FINANCIAL SUPPORT OF INTELLIGENT TRANSPORT

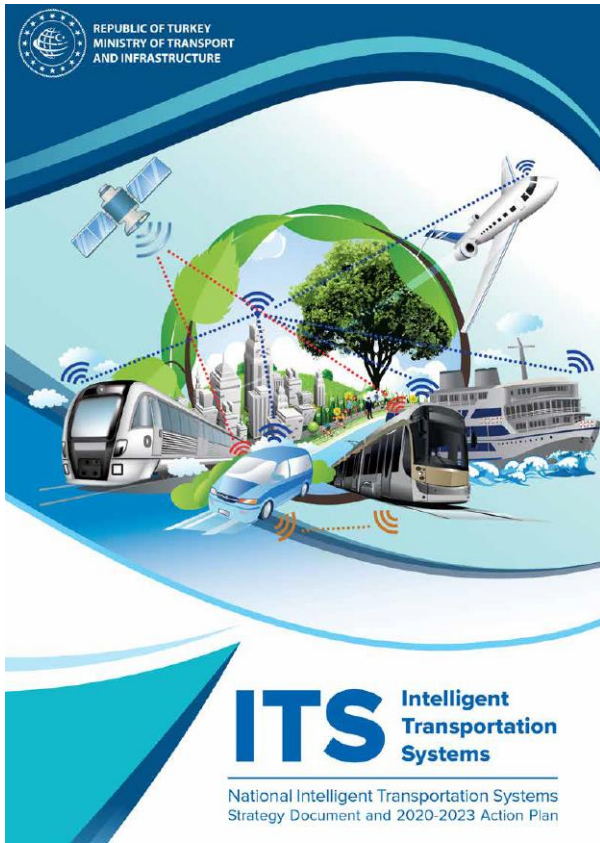


# 1. POLICY MAKING AND STRATEGIC PLAN





## NATIONAL ITS STRATEGY AND ACTION PLAN



- First ITS roadmap of our country
- Two year preparation period with various ITS stakeholders
- ITS strategy covers 2020-2023 period.
- **Mission:** «To create a sustainable, productive, safe, efficient, innovative, dynamic, environment-friendly intelligent transport network which creates added value and integrated with all transport modes using latest technology while making use of natural resources»
- 5 Strategic Aims, 31 Actions



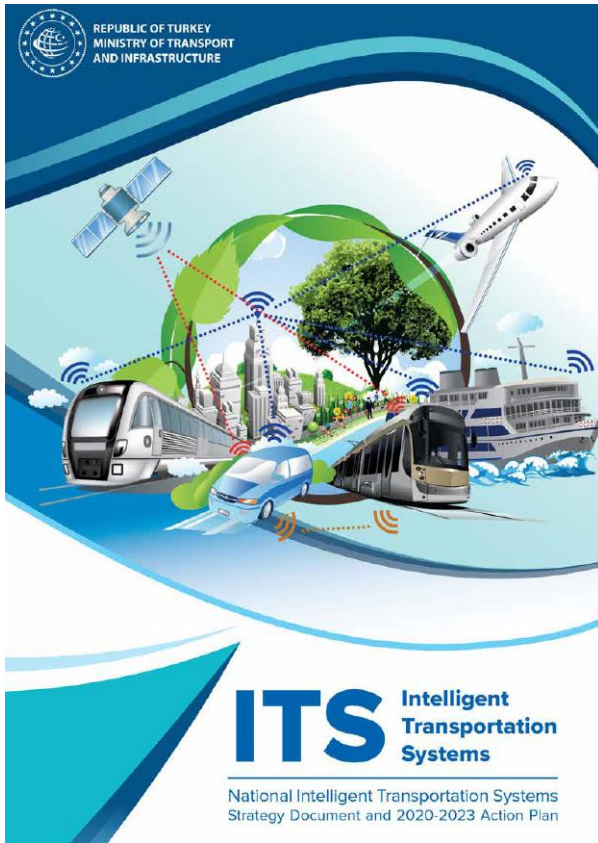
## FIVE STRATEGIC GOALS



- Strategic Goal 1: Development of ITS Infrastructure
- Strategic Goal 2: Ensuring Sustainable Smart Mobility
- Strategic Goal 3: Ensuring Road and Driving Safety
- Strategic Goal 4: Creating a Livable Environment and Concious Society
- Strategic Goal 5: Ensuring Data Share and Security



## ACTIONS OF THE STRATEGY AND STRUCTURE



Some **Actions** under ITS Strategy:

- Action 1.7 Smart Parking and Deployment of Electric Vehicle Charging Station
- Action 2.3 Single Card Payment System
- Action 3.2 Creating Traffic Accidents Database
- Action 4.5 Using Electric Vehicles in Public Transport Fleet
- Action 5.1. Establishment of ITS Data Management Center

See >> <https://hgm.uab.gov.tr/strateji-eylem-planlari>



## STRUCTURE OF THE ACTIONS

STRATEGIC GOAL-1		DEVELOPMENT OF THE ITS INFRASTRUCTURE				
Action Name	Implementation Step	Responsible Institution	Institutions to Cooperate	Action Completion Time	Measurement Criteria	
<b>ACTION 1.2</b>	Development and Publishing of the ITS Architecture	DGComms	Ministry of Industry and Technology, Ministry of Environment and Urbanization, Ministry of Interior, DGH, GDS, GCC, ICTA, PDPA, TÜBİTAK, Universities, Metropolitan Municipalities, NGOs, Relevant institutions and organizations	2022	Preparing the ITS architecture	
				2023	Preparation of the manual	



## 2. ONGOING ITS PROJECTS OF DG COMMS

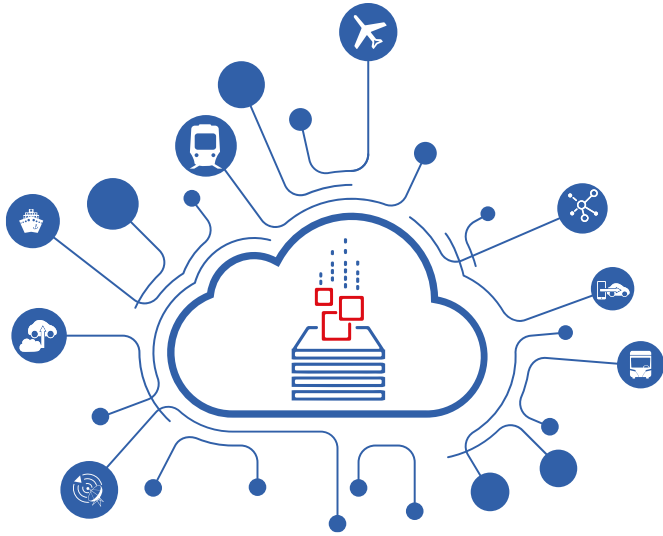






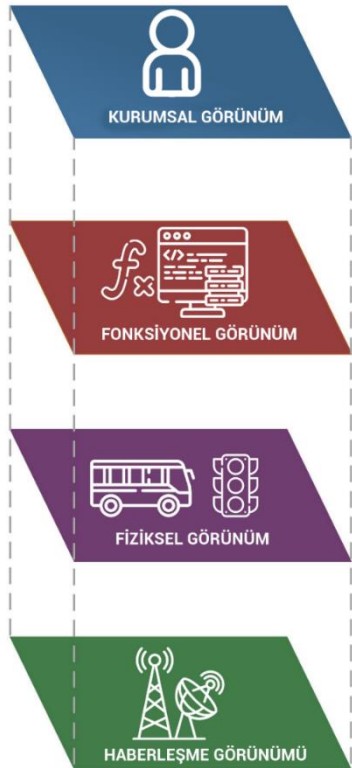
## Satellite Supported Intelligent Transportation Systems Project

- Identification and Classification of ITS Standards
- Creation of National ITS Platform
- Development of Satellite Network Architecture and Antennas
- ITS Service Packages and Design of National ITS Architecture
- Customization of National ITS Architecture Software
- Preparation of User Manuals. (Architecture and Platform)
- Trainings and Workshops to improve HR Capacity





## PREPERATION OF NATIONAL ITS ARCHITECTURE

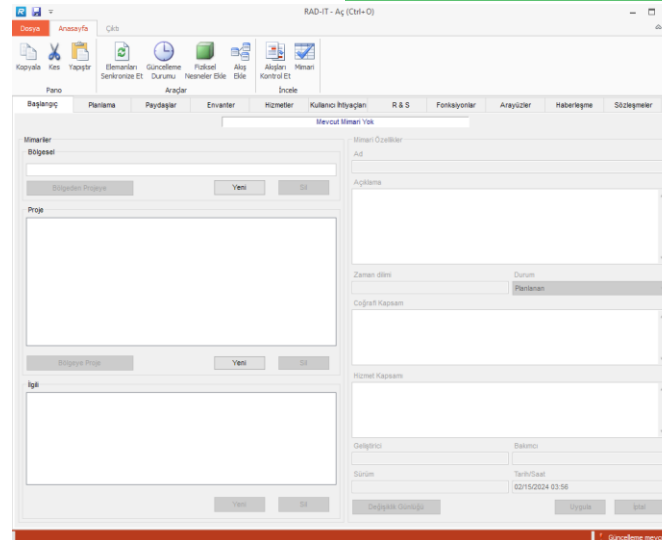
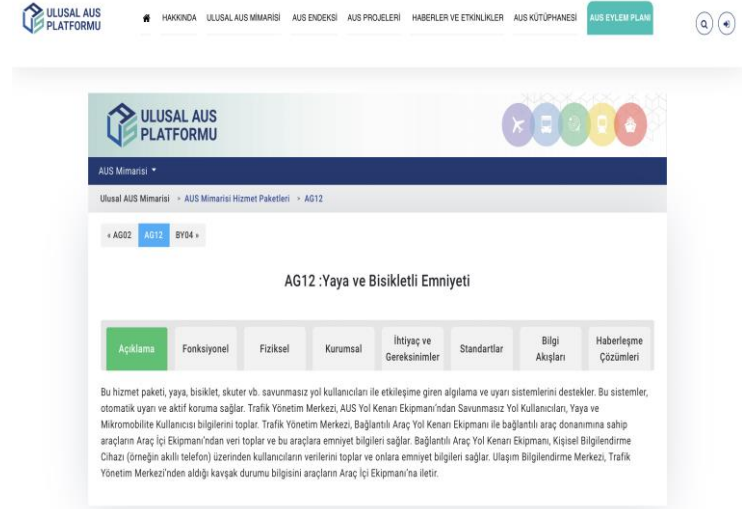


- Based on *ARC-IT as a reference*, national ITS architecture prepared.
- 4 Layer and Service Package Approach
- Requirement and expectations of the Stakeholders
- A livable architecture
- Standardization of the processes and communication of different ITS systems.



# PREPERATION OF NATIONAL ITS ARCHITECTURE

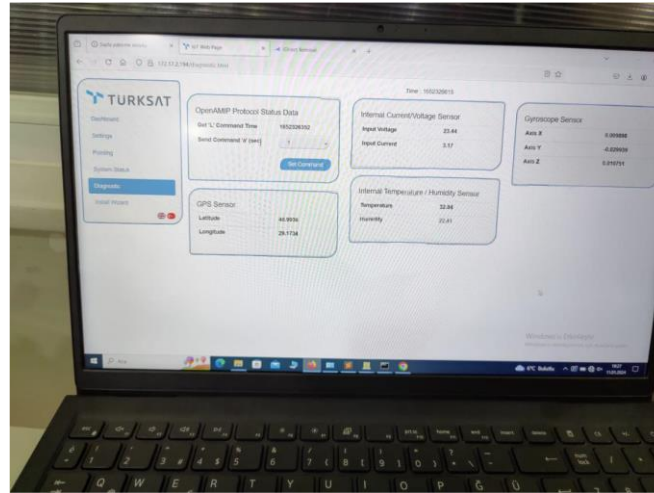
- 51 Service Packages with 4 layer
- Submission of the Architecture via National ITS Platform
- Regional Architecture Preperation Software (RAD-IT\_TR)





## DESIGN OF SATELLITE BASED ANTENNAS

- Satellite antennas designed for V2V and V2I scenarios
- On-site tests with antennas





## IN-VEHICLE INFORMATION AND COMMUNICATION SYSTEMS (IVICS) TECHNICAL STANDARDS

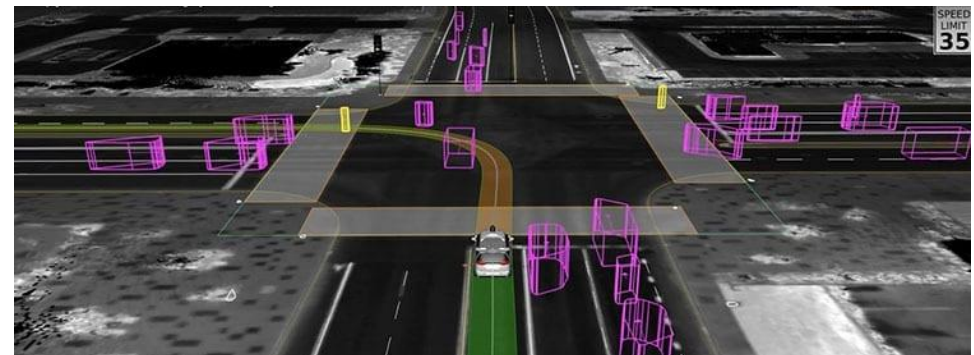
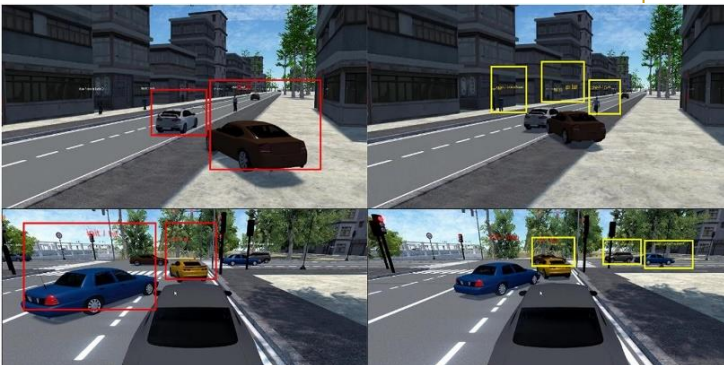


- An initiative for national manufacturer to produce IVICS related hardware and software
- Collection and distribution of data such as vehicle, road and environment, incident and emergency situation etc.
- Current situation analysis and determination of technical standards of IVICS



# DRIVING ARCHITECTURE FOR AUTONOMOUS VEHICLES AND TRAFFIC TEST SCENARIOS FOR CONNECTED VEHICLES

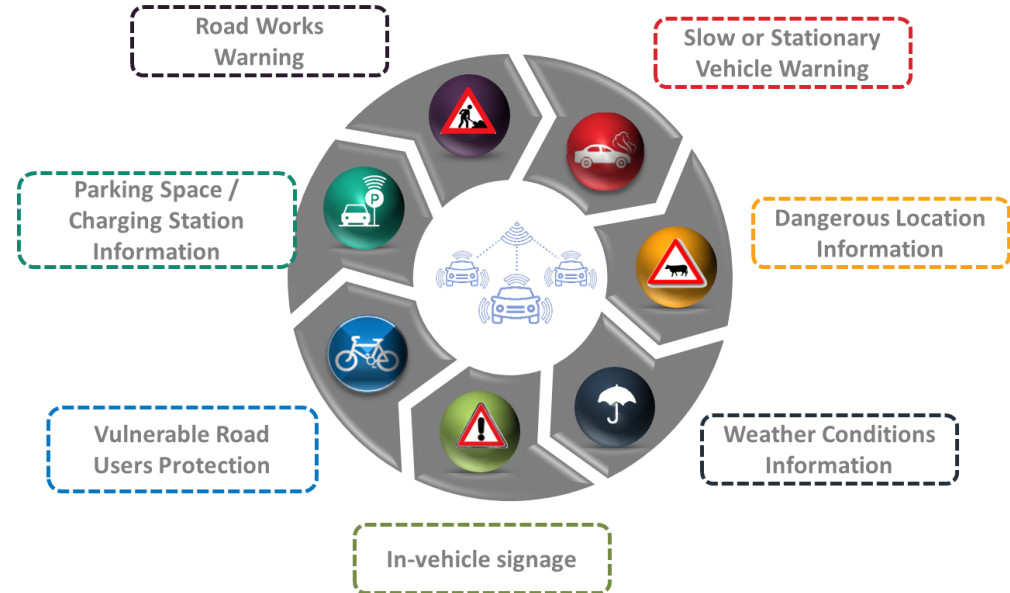
- Preparation of C-ITS Test Scenarios
- Current situation analysis of connected and autonomous vehicles
- Preparation of Driving Architecture for Autonomous Vehicles and traffic impact analysis





## C-ITS PILOT PROJECT

- C-ITS corridor deployed with ITS products
- C-ITS services (Day 1) for tests and developments
- Central Management Software and related Modules





## MaaS PROJECT (TRota)

# Rota

- Integration of different transport modes
- Door to door transport solution as a MaaS App
- Transport providers, shared mobility, e-mobility solutions on one platform







## TÜRKİYE CARD (TR Card) PROJECT

- Single e-payment system
- Parking, taxi, public transport payments.
- Integration of municipal transport payments
- Transportation, money transfer, shopping with one card





## ITS AWARENESS AND EDUCATION

- In person trainings and workshops
- Online seminars and workshops
- Collaboration with universities and companies





### 3. NATIONAL AND INTERNATIONAL COLLABORATIONS





## NATIONAL AND INTERNATIONAL COLLABORATION

- Exchange of Experience
- Workshops, meetings, trainings, consultancy
- Participation of ITS summits and congress
- On site technical visits



**SUMMITS'24**

"AUS ile Ulaşımın Dijital Dönüşümüne Öncülük Etmek"

📅 2-4 Mayıs 2024

📍 Hacettepe Üniversitesi Tunçalp Özgen Kongre ve Kültür Merkezi

🏠 Türkiye Akıllı Ulaşım Sistemleri Derneği (AUS Türkiye)

ULAŞIMDA AKLIN YOLU ÖDÜLLERİ VE AKADEMİK BİLDİRİ BAŞVURUSU

SUMMITS'24 KAYIT



## 4. FUNDING MECHANISM OF ITS





## FINANCIAL SUPPORT OF ITS PROJECTS



- Under MoTI, we work with our R&D Center (UDHAM)
- Public and private sector ITS projects financially supported by UDHAM (Incentive/Grant/Support through Calls)
- R&D on main transport modes and related technologies
- Products such as prototype, software and equipment
- Local production ecosystem
- R&D culture in the field of transportation



THANK YOU

Arif Emre İSAOĞLU  
aemre.isaoglu@uab.gov.tr

DG Communications

Ministry of Transportation and Infrastructure of Türkiye

T C U L Ş T İ R M A V E A L T Y A P U B A K A N L I Ğ I