REPUBLIC OF TÜRKİYE

MINISTRY OF TRANSPORT AND INFRASTRUCTURE

E-PERMIT PROJECT

Hasan BOZ
DG for Regulation of Transport Services
Head of International Relations Department

TRANSPORT AUTOMATION SYSTEM / U-NET

- ✓ Companies, vehicles, drivers registered to U-Net Automation System
- ✓ Stakeholders connected to each other through U-net
- ✓ Online applications and transactions through e-Government portal (via U-Net)
- ✓ Simplification and acceleration
- ✓ Safe and cost effective system

CROSS-BORDER TRANSACTIONS

- ✓ U-Net integrated to Customs Authority and Border Gates
- ✓ Transport transactions carried out by customs officials as a model of single window
- ✓ Border crossings of all Turkish and foreign vehicles simultaneously followed through U-Net
- ✓ Checks of permits for foreign trucks through U-Net based on the data defined
- ✓ Authorization /special permits for foreign trucks

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

PROBLEMS WITH PHYSICAL PERMITS

- High cost and difficulties in physically exchanging, storing and distributing the permits
- Problem in time delivery of the permits, especially in case of additional permits
- Problems faced by the hauliers in case of loss, damage, stolen permits; long waiting time until new permits are physically delivered
- High penalties due to mistyped information on the permit
- Problems in case that route is changed, lack of permits for the new route

TECHNICAL MEETINGS ON E-PERMIT

- **Presentation of digitalization in UN/ECE Meeting, 14-16 October 2019**
- **Introduction of the project in BSEC Meeting, 13 November 2019, Istanbul**
- **First e-Permit Meeting on 10-11 March 2020, Ankara / Turkey, Ukraine, Moldova, BSEC, BSEC-URTA, TOBB.**
- **Start of the Project with Uzbekistan in January 2021 under Organization of Turkic States (OTS)**

UNITED NATIONS
ECONOMIC COMMISSION
FOR EUROPE

BSEC

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

ELECTRONIC PERMIT (E-PERMIT) IN DEMO

E-Permit

- ✓ Integration in Demo Environment (Ministries of Transport)
- ✓ Exchange of data in Demo
- ✓ First Uzbek Truck in demo integration arrived at Turkey on 10.11.2021

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

ELECTRONIC PERMIT (E-PERMIT) IN REAL TIME

Development of Domestic Procedure

- ✓ Protocol signed with customs to access data electronically
- ✓ Development of e-Government (e-Devlet) service

Development of Integration with Uzbekistan

- ✓ Customs authority included
- ✓ Integration of all automation systems (transport-customs) in real time

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

INTRODUCTION OF THE PROJECT IN TASHKENT

- ✓ **E-Permit Project officially launced at Ministerial Meeting of OTS in Tashkent on 28 October 2022**
- ✓ **Technical Meetings started with Azerbaijan, Netherlands,**
- ✓ **Technical Meetings to start with Kazakhistan, Georgia and Moldova**

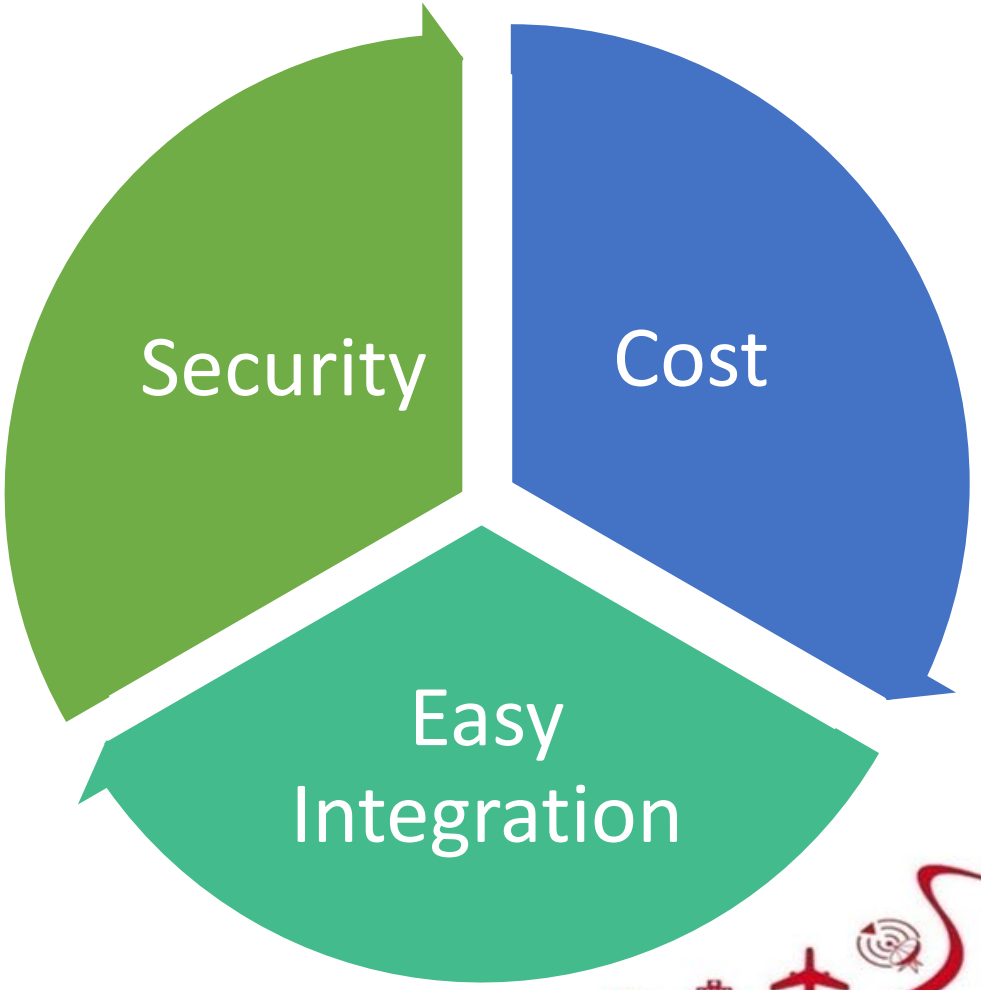
REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

CHARACTERISTICS OF E-PERMIT

- ✓ Based on exchanging serial numbers/data electronically
- ✓ Decentralized Structure
- ✓ Bilateral System (Extensible and Easy integration)

  (Türkiye- Uzbekistan; Türkiye-Azerbaijan;

  Azerbaijan - Uzbekistan etc)
- ✓ Following the usage/level of usage of the permits possible
- ✓ Secure (Block Chain Logic) and Cost Effective



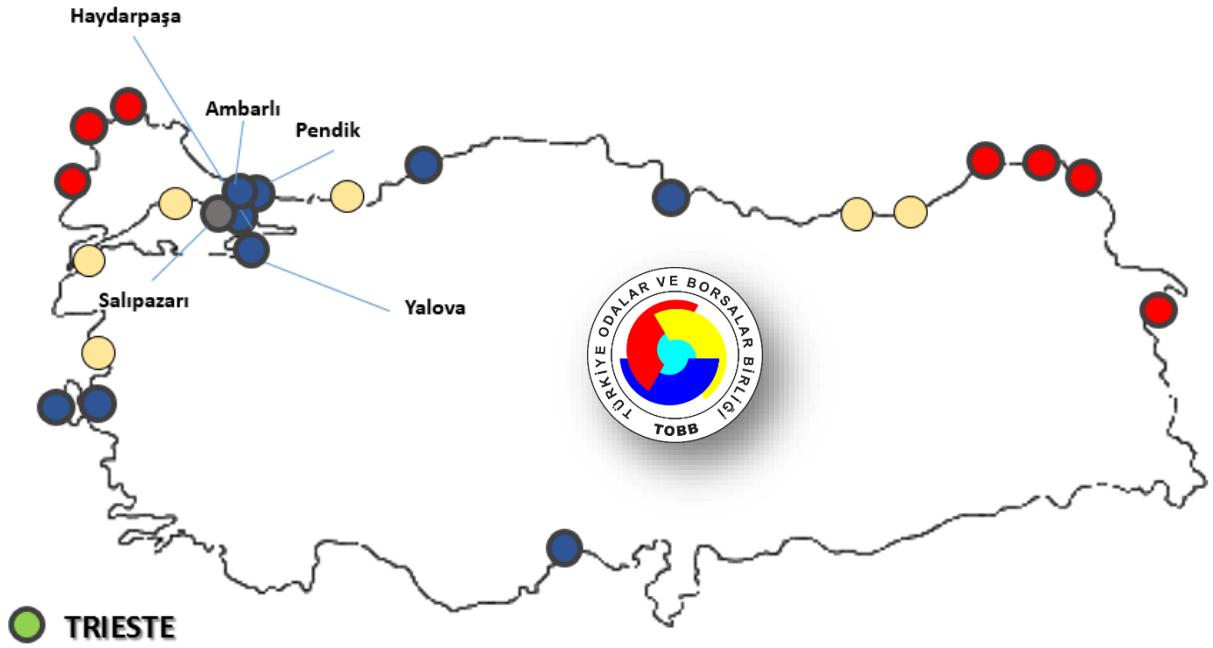
DISTRIBUTION OF PHYSICAL PERMITS

✓Permits distributed to hauliers at border Gates based on customs documents (TIR carnet, T1, Export Decleration etc)

✓ Automation System (U-Net) integrated to Customs/TOBB

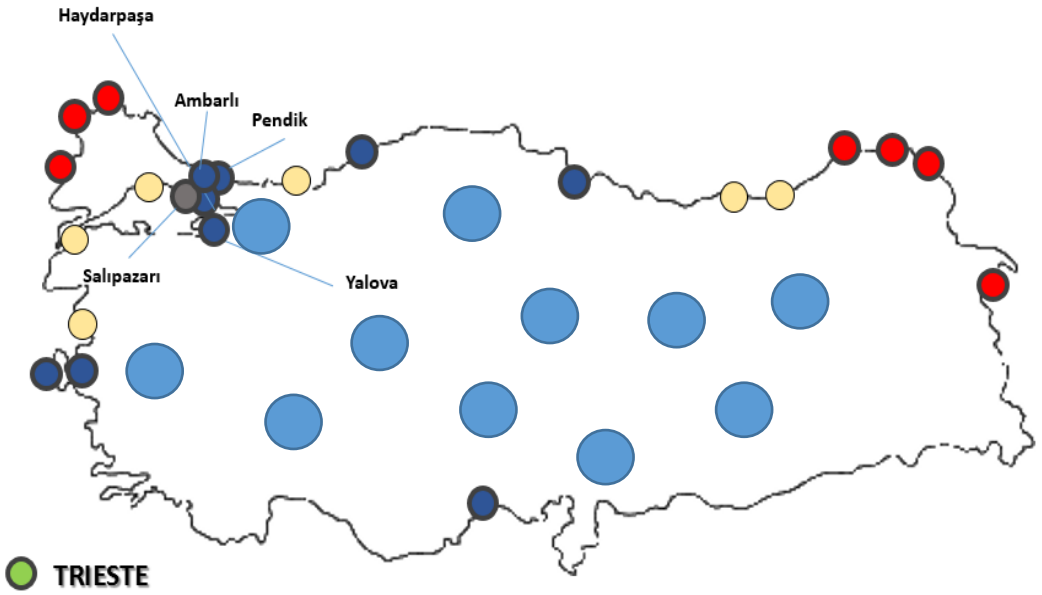
✓Serial number of the permits input into the automation system

✓Permits are returned after use



REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

PART ONE: INTERNAL APPLICATION PROCEDURE

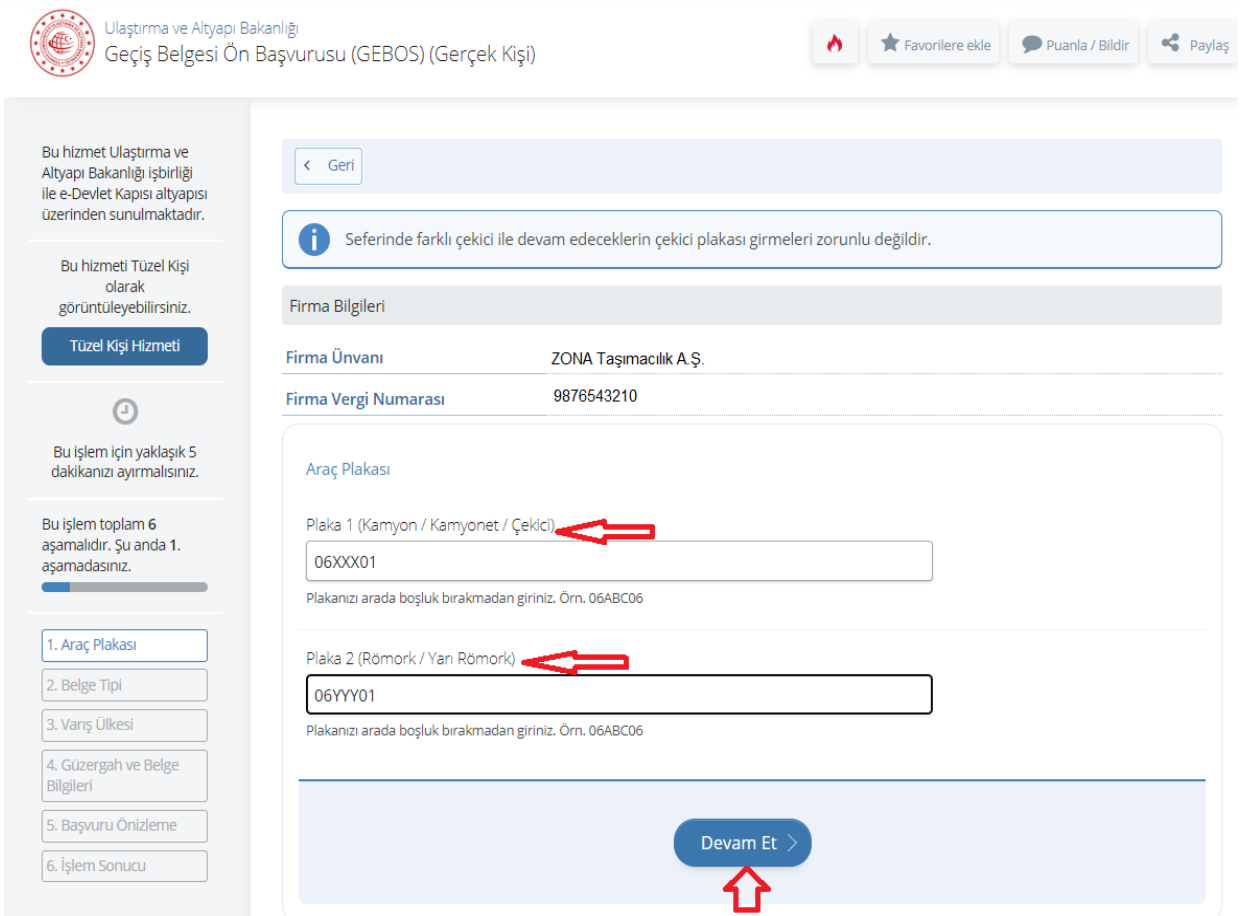


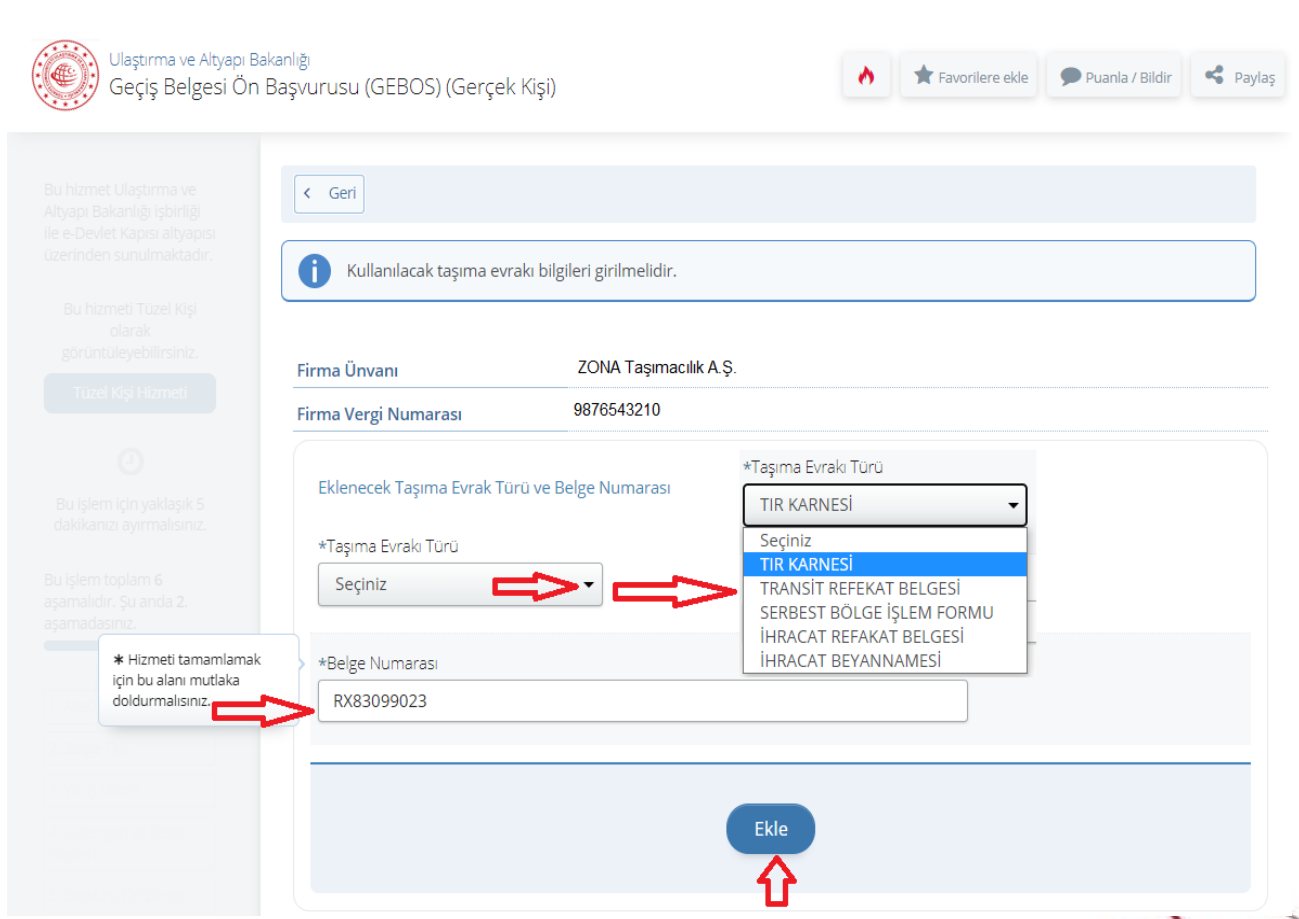
Application through e-Government Gateway (e-Devlet) from headquarters/offices rather than border gates

e-Signature; electronic certificate service suppliers

M-Signature; Mobile Signature given by GSM operators

PART ONE: INTERNAL APPLICATION PROCEDURE

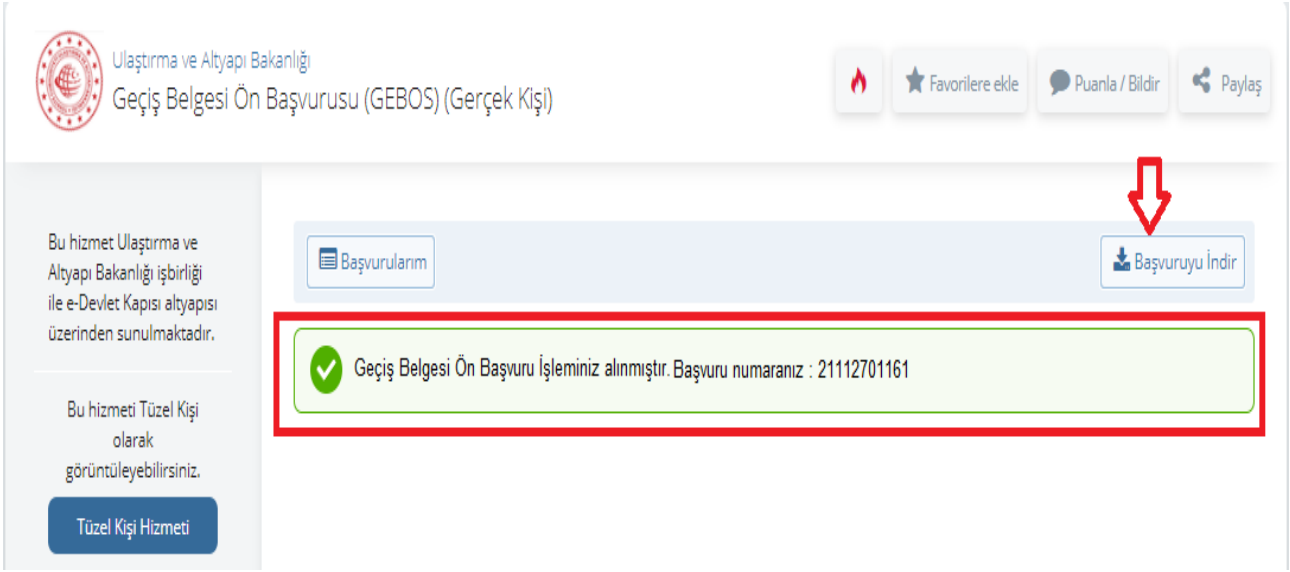




Data will be entered, transport/customs document will be automatically checked from customs database

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

PART ONE: INTERNAL APPLICATION PROCEDURE



E-permit will be created

Data/e-Permit will simultaneously be sent to the other side online.

Company/Drivers can also get online version of the permits (on mobile phone/tablets) with serial numbers/barcode.

Republic of Türkiye
Ministry of Transport and Infrastructure

T.C.
ULAŞTIRMA VE ALTYAPI BAKANLIĞI

Electronic Permit
Elektronik Geçiş Belgesi
TR-UZ-2022-1-1

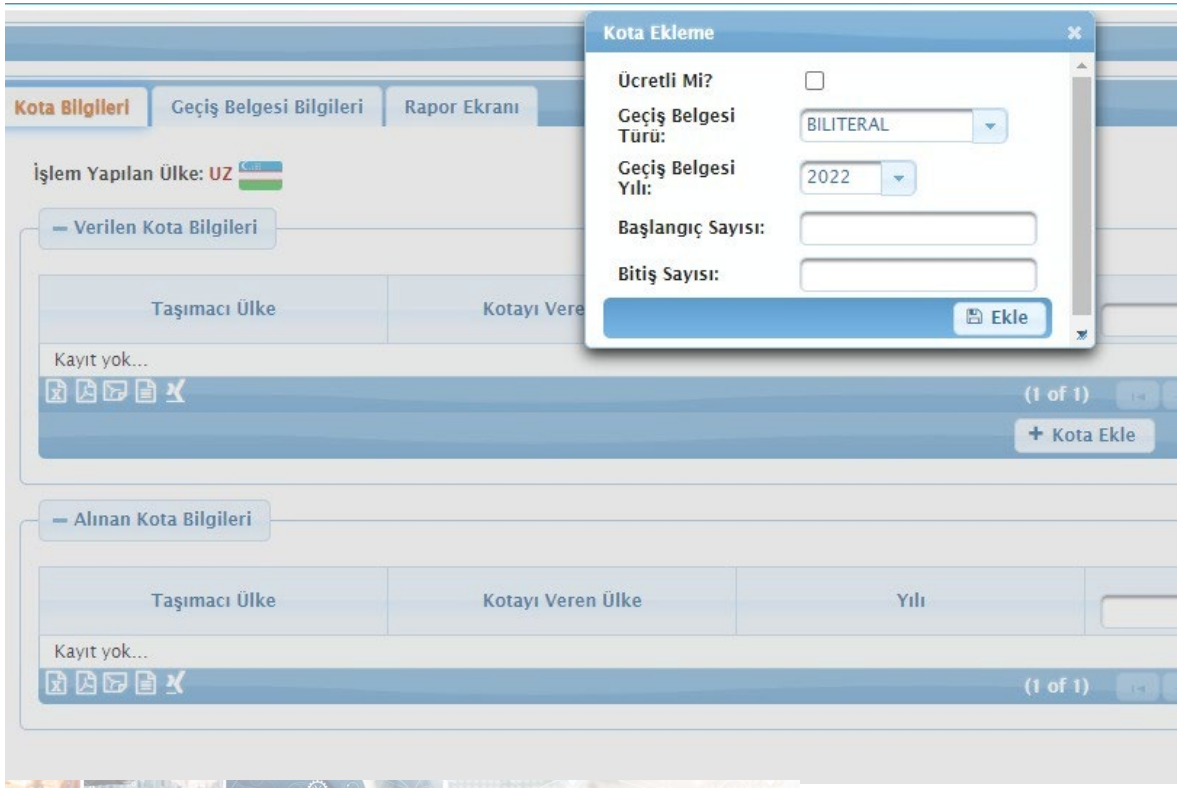
1	PERMIT ISSUED BY GEÇİŞ BELGESİNİ DÜZENLEYEN ÜLKE	Türkiye Türkiye
2	PERMIT ISSUED FOR GEÇİŞ BELGESİNİN DÜZENLENDİĞİ ÜLKE	Uzbekistan Özbekistan
3	PERMIT SERIAL NUMBER GEÇİŞ BELGESİ SERİ NUMARASI	TR-UZ-2022-1-1
4	PERMIT PREPARED ON BELGE DÜZENLENME TARİHİ	22/09/2022
5	YEAR OF THE PERMIT BELGE YILI	2022
6	PERMIT VALID UNTIL BELGE GEÇERLİLİK TARİHİ	30/01/2023
7	TYPE OF THE PERMIT BELGE TÜRÜ	BILITERAL IKILI
8	PLATE NUMBER(S) PLAKA(LAR)	33DTG98
9	NAME OF THE COMPANY FİRMA İSMİ	METER ULUS. TAŞ. SAN. VE TİC. LTD. ŞTİ
10	DEPARTURE COUNTRY HAREKET ÜLKESİ	Türkiye Türkiye
11	ARRIVAL COUNTRY VARIŞ ÜLKESİ	Uzbekistan Özbekistan
11	OTHER INFORMATION/RESTRICTIONS DİĞER BİLGİLER/KISITLAMALAR	

PART ONE: INTERNAL APPLICATION PROCEDURE

- Countries may decide on their domestic permit distribution system
- However, data of the permits (to which truck it is provided etc) should be available online (If the country already has online registration/data base, integration will be faster)
- There should be integration between Transport and Customs Authorities for controls/inspections

PART TWO: INTEGRATION OF THE SYSTEMS

- Web based integration (security with Public/Private Keys)
- Open source services available
- Quota/number of e-permits permits (serial numbers) will be defined by the other country
- When the company applies for e-permit, based on this serial numbers (quota), e-permit will be created
- Data will be sent to the other country online in real time integration



PART TWO: INTEGRATION OF THE SYSTEMS

Option 1 – Permit valid for one round trip

- Report of the e-permits

Permit used for entry on….

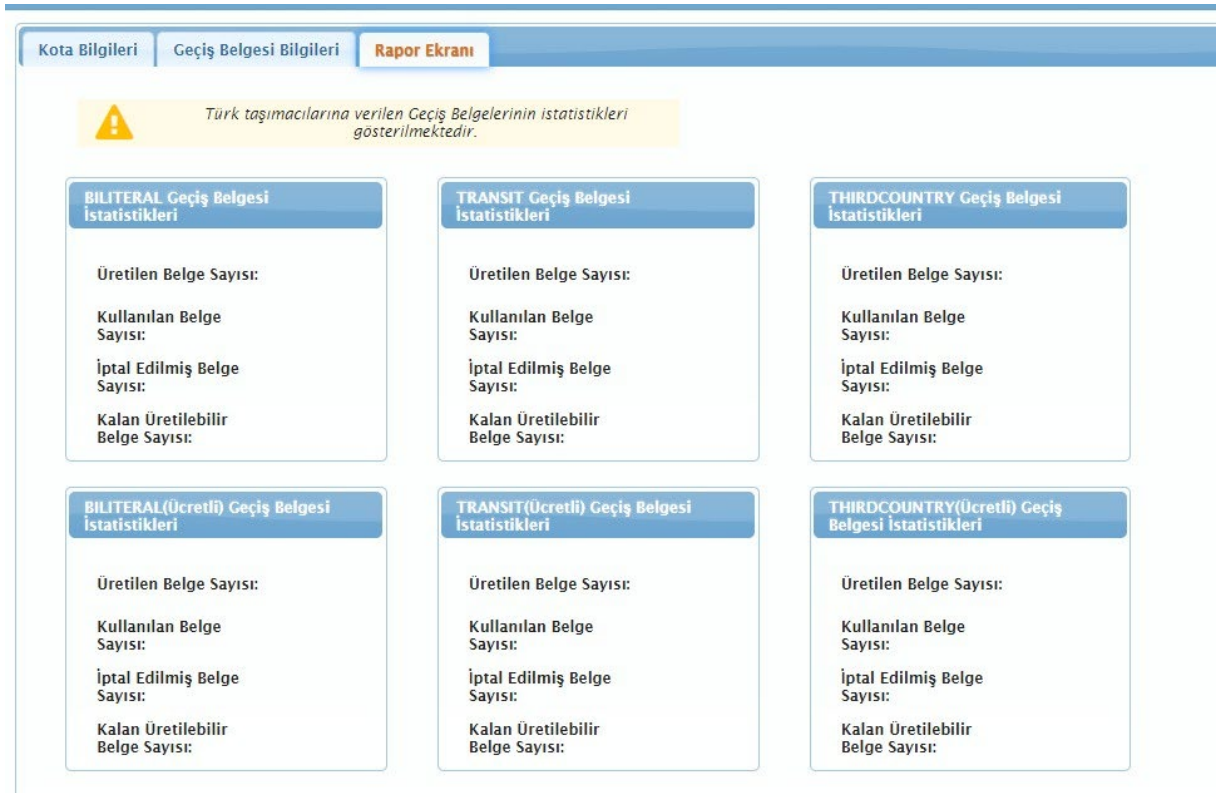
Permit used for exit on …

- Option 2 – Permit for multi entry transport operations

Countries without checks at border gates

Authenticaion of the permit

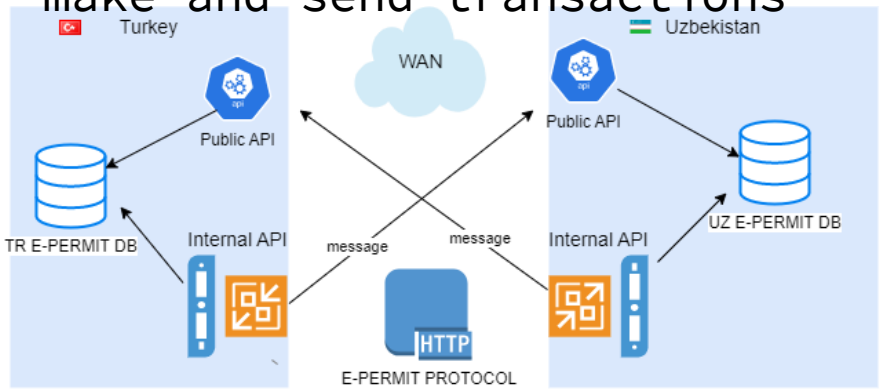
Possible to use in off-line scenaria(connection between MoT and customs)



PART TWO: INTEGRATION OF THE SYSTEMS

Architecture

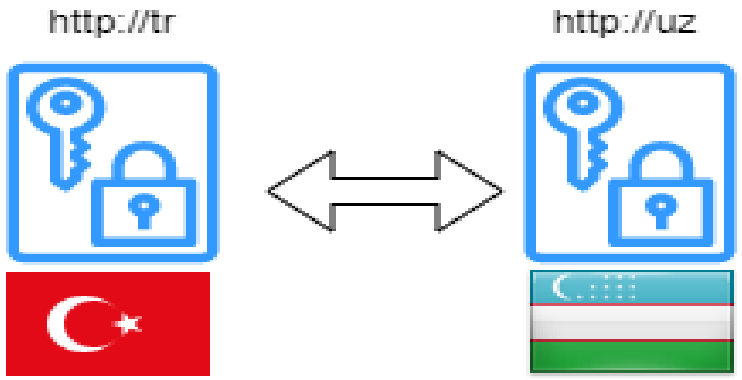
- Each country has keypair(e-seal) to sign its own transactions(events)
- Each country has its own public api to share public keys(e-seal) and receive transactions
- Each country has internal api to make and send transactions



PKI (Public Key Infrastructure)

Handshaking

Each country has a (public/private) key pair in order to communicate



PART THREE: INSPECTION

- After e-permit is created and data is exchanged, this data is sent to control bodies (customs)
- When the truck arrives, based on the serial number/barcode, e-permit and plate number is checked, validity of the permit is confirmed
- After the confirmation, trucks continues its operation
- Entry of the truck is completed, (information is sent)
- Same e-permit can be used for exit

E-PERMIT

Republic of Türkiye
Ministry of Transport and Infrastructure

T.C.
ULAŞTIRMA VE ALTYAPI BAKANLIĞI

Electronic Permit
Elektronik Geçiş Belgesi
TR-UZ-2022-1-1

1	PERMIT ISSUED BY GEÇİŞ BELGESİNİ DÜZENLEYEN ÜLKE	Türkiye Türkiye
2	PERMIT ISSUED FOR GEÇİŞ BELGESİNİN DÜZENLENDİĞİ ÜLKE	Uzbekistan Özbekistan
3	PERMIT SERIAL NUMBER GEÇİŞ BELGESİ SERİ NUMARASI	TR-UZ-2022-1-1
4	PERMIT PREPARED ON BELGE DÜZENLENME TARİHİ	22/09/2022
5	YEAR OF THE PERMIT BELGE YILI	2022
6	PERMIT VALID UNTIL BELGE GEÇERLİLİK TARİHİ	30/01/2023
7	TYPE OF THE PERMIT BELGE TÜRÜ	BILITERAL IKILI
8	PLATE NUMBER(S) PLAKA(LAR)	33DTG98
9	NAME OF THE COMPANY FİRMA İSMİ	METER ULUS. TAŞ. SAN. VE TİC. LTD. ŞTİ
10	DEPARTURE COUNTRY HAREKET ÜLKESİ	Türkiye Türkiye
11	ARRIVAL COUNTRY VARIŞ ÜLKESİ	Uzbekistan Özbekistan
11	OTHER INFORMATION/RESTRICTIONS DİĞER BİLGİLER/KISITLAMALAR	

All data (plate numbers, date of issuing permit etc.) is also included in the barcode

Logic in the current physical permit is kept

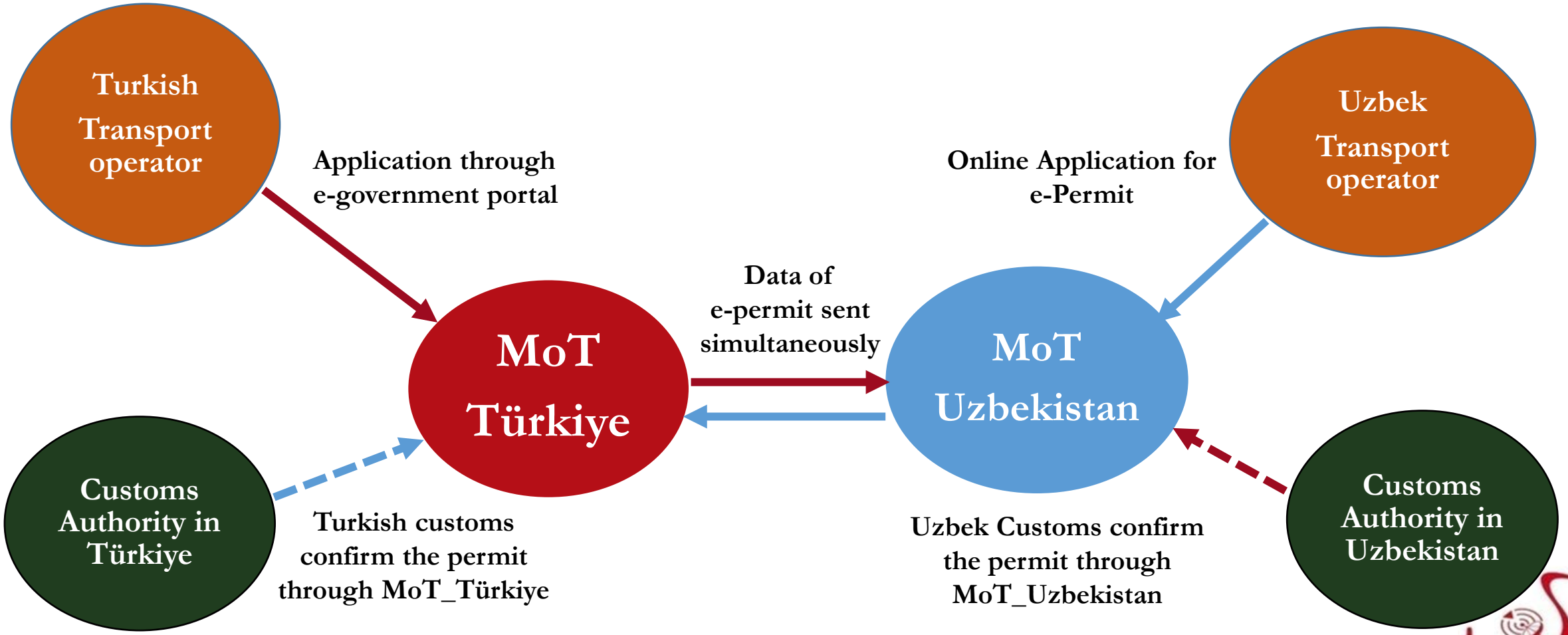
Data is exchanged electronically

Safe/ Low Cost

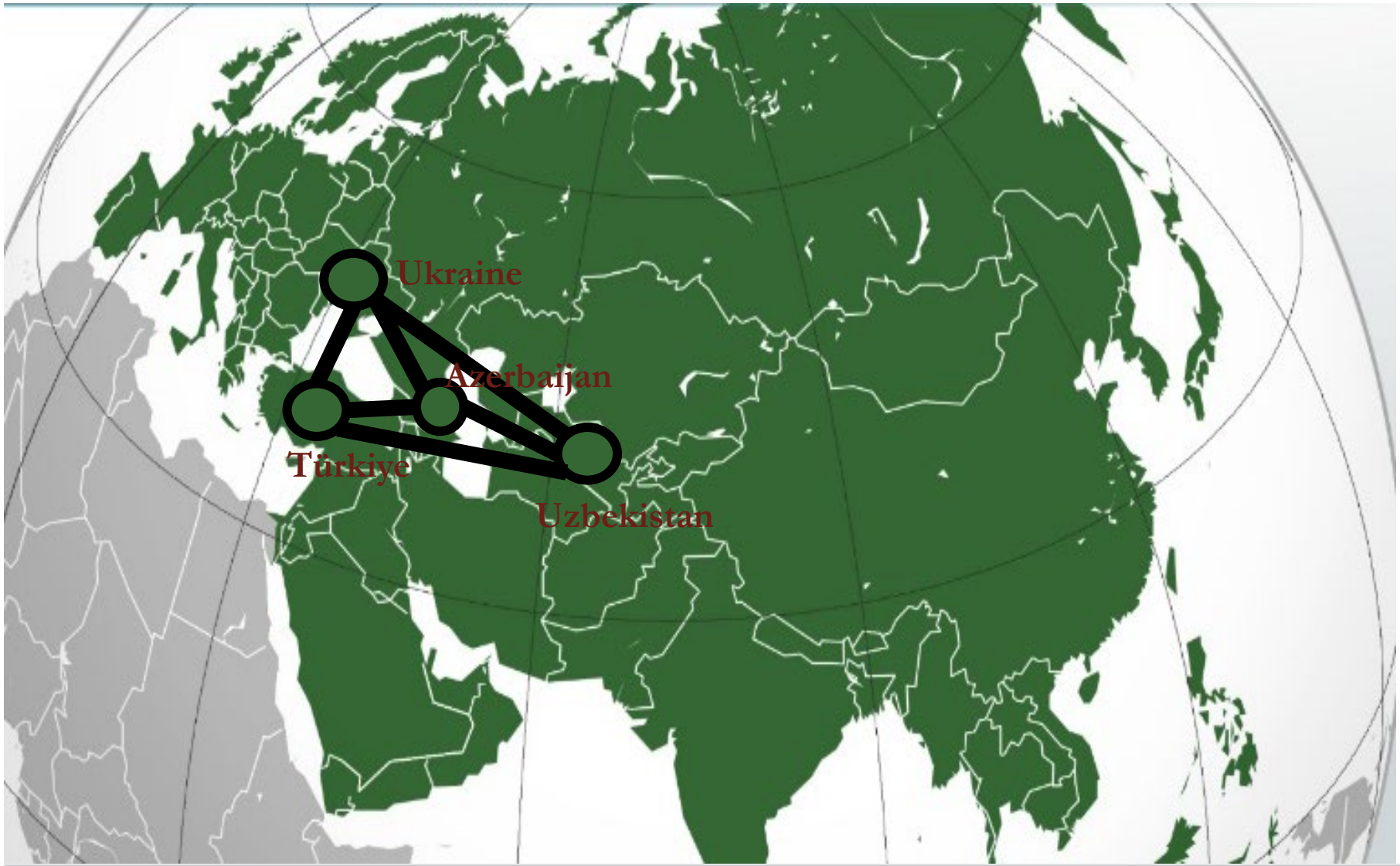
Project being gradually developed

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

Summary of E-Permit Integration



E-PERMIT



E-Permit System

E(urasian) Permit

REPUBLIC OF TÜRKİYE
MINISTRY OF
TRANSPORT AND
INFRASTRUCTURE

THANK YOU