



UNIVERSITY  
OF CENTRAL ASIA



**HIGH  
TECHNOLOGY  
PARK**

of the Kyrgyz Republic

# DTCA

DIGITAL TRANSFORMATION IN CENTRAL ASIA

#DTCA19 OCTOBER 4-6 KYRGYZSTAN



# TUNDUK

electronic interoperability center

## IMPLEMENTATION OF ELECTRONIC INTEROPERABILITY SYSTEM «TUNDUK» IN THE KYRGYZ REPUBLIC

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## OPERATORS

X-Road Systems are managed by operators. Operators stipulate the conditions and terms for their system members and are responsible for the governance and health of their ecosystem.



## NATIONAL

## Estonia (X-Tee)

X-Road instance identifiers: EE, ee-test, ee-dev  
 Governing Authority: Estonian Information System Authority  
 Coverage: Estonian public and private sector organizations  
 Contact: <https://www.ria.ee/en/x-road.html>  
 e-mail: [help@ria.ee](mailto:help@ria.ee)  
 Factsheet: <https://www.ria.ee/x-tee/fact/#eng>

## Finland (Palveluväylä)

X-Road instance identifiers: FI, fi-test, fi-dev  
 Governing Authority: Population Register Centre  
 Coverage: Finnish public and private sector organizations  
 Contact: <https://esuomi.fi/palveluntarjoajille/palveluvayla>  
 e-mail: [palveluvayla@palveluvayla.fi](mailto:palveluvayla@palveluvayla.fi)

## Kyrgyzstan (Tunduk)

X-Road instance identifiers: KG, kg-test, kg-dev  
 Governing Authority: The Electronic Interoperability Center  
 Coverage: Kyrgyz public and private sector organizations  
 Contact: <https://www.tunduk.gov.kg/>  
 e-mail: [office@tunduk.gov.kg](mailto:office@tunduk.gov.kg)

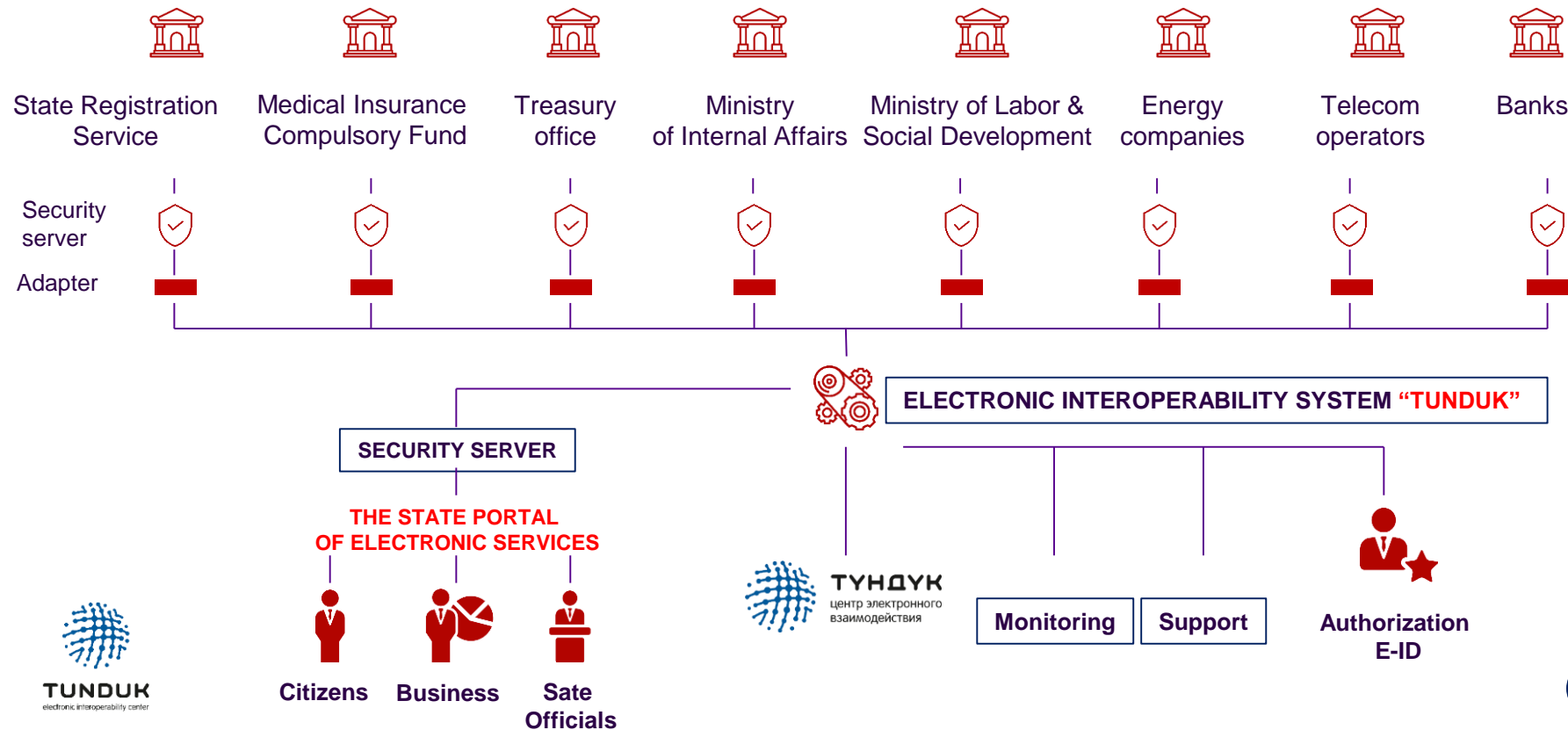
## INTERNATIONAL



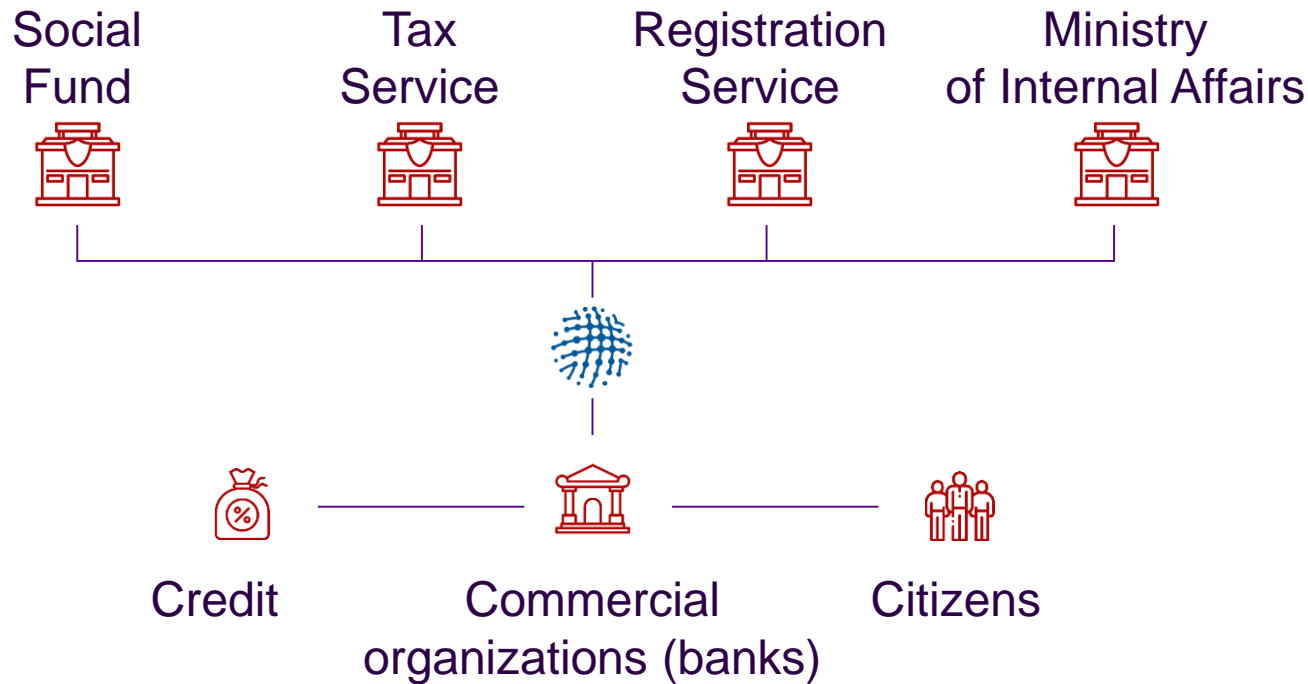
## Roksnet

X-Road instance identifiers: roksnet, roksnet-dev

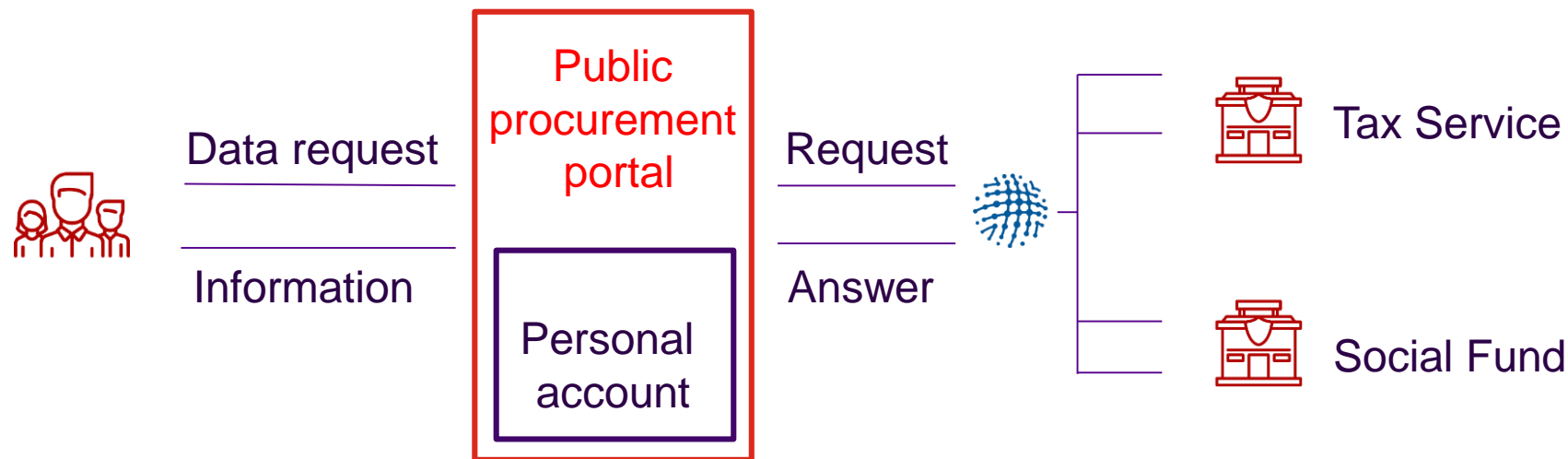
# TUNDUK SYSTEM WORK PROCESS



# INTEROPERABILITY WITH COMMERCIAL ORGANIZATIONS

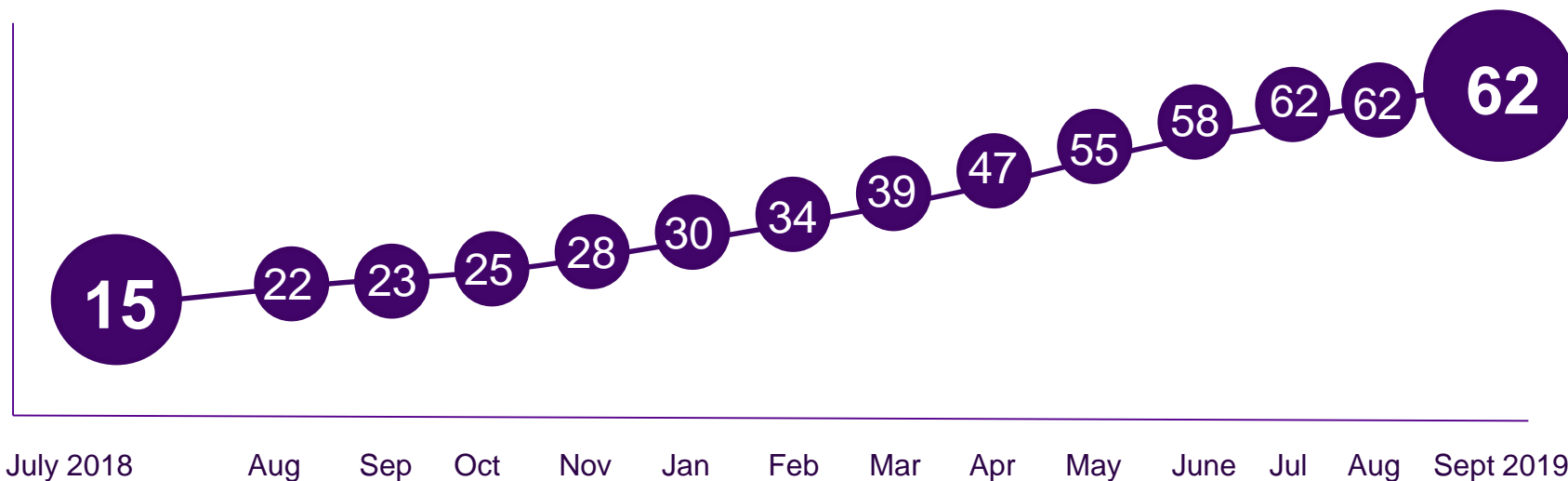


# AUTOMATIC RECEIPT OF INFORMATION ON THE ABSENCE OF TAX DEBTS AND DEBTS TO THE SOCIAL FUND



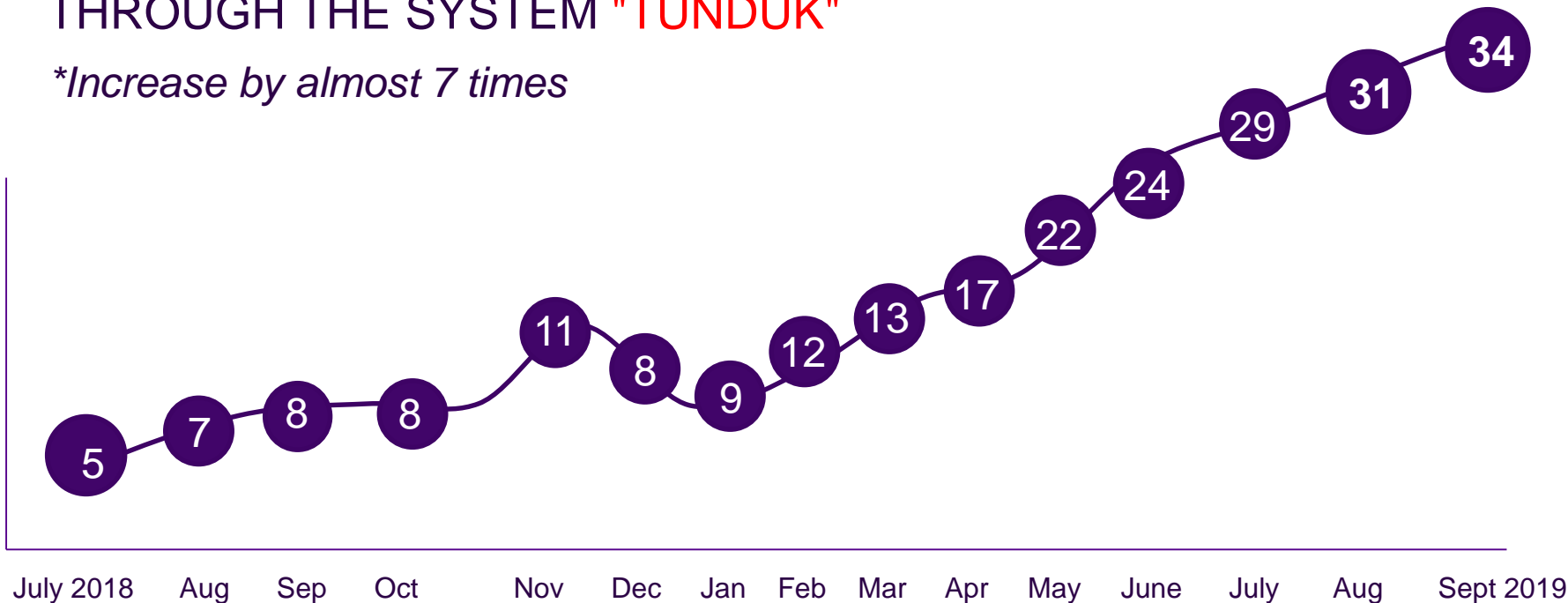
## CONNECTION OF STATE BODIES TO THE "TUNDUK" SYSTEM»

*\*Increase in 4 times*



# STATE PARTICIPANTS THAT EXCHANGE DATA AMONG THEMSELVES THROUGH THE SYSTEM "TUNDUK"

*\*Increase by almost 7 times*





## Quantity of electronic interactions

### Between state agencies



In 2018-2019 - **9,6 mln** transactions

In 2019 - **9,2 mln** transactions

### Between commercial organizations

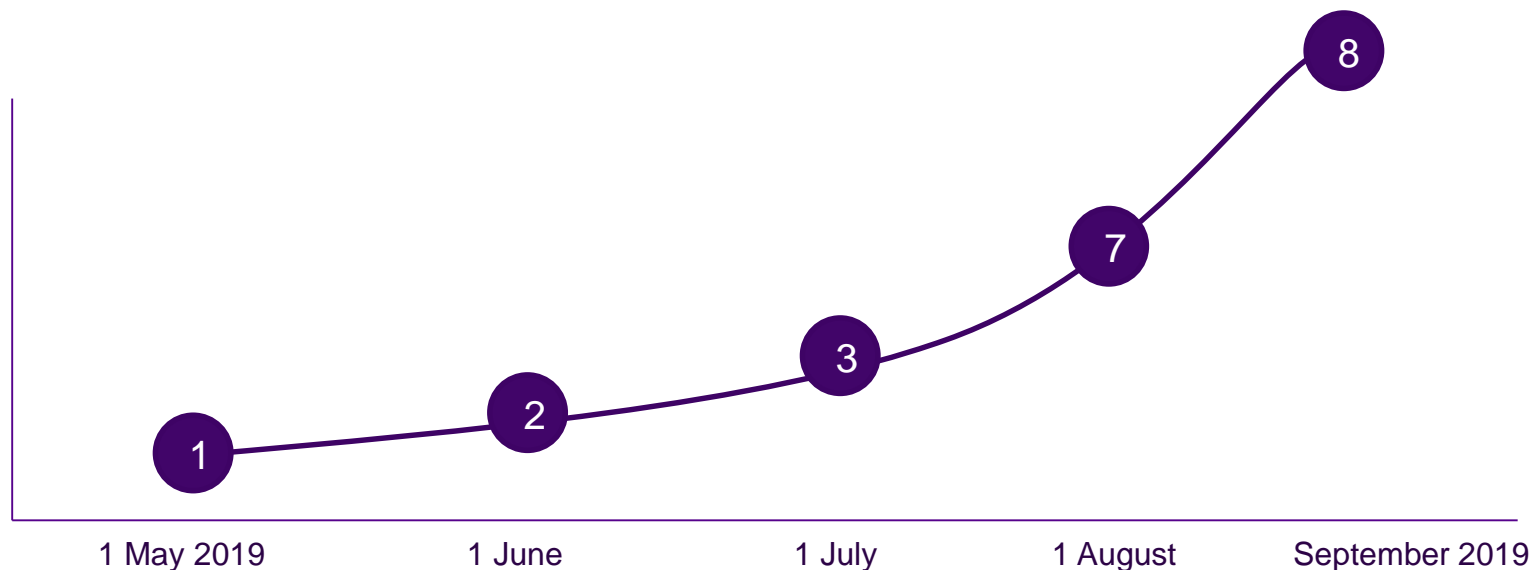


**3,2 mln** times

**110** information systems (subsystems) through Tunduk System

• *until the end of 2019 – additional **43** data bases*

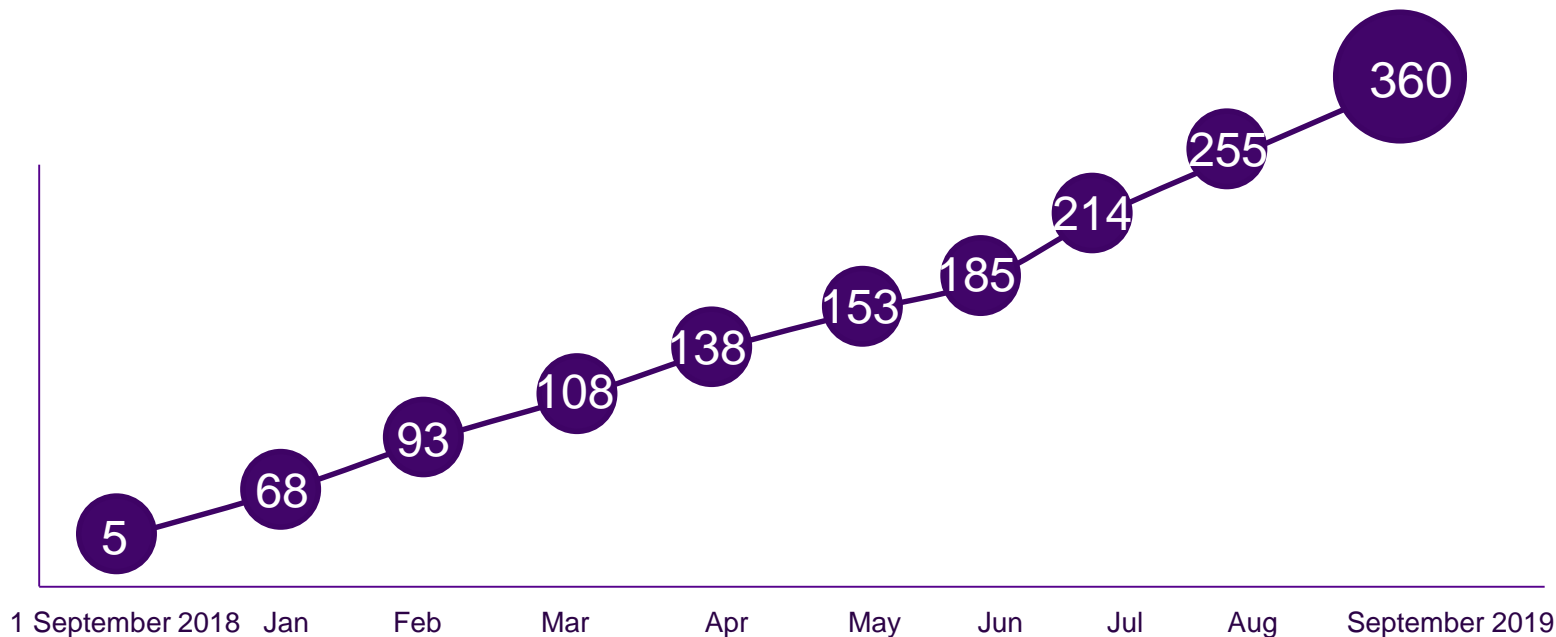
## COMMERCIAL PARTICIPANTS WHO EXCHANGE DATA THROUGH THE "TUNDUK" SYSTEM



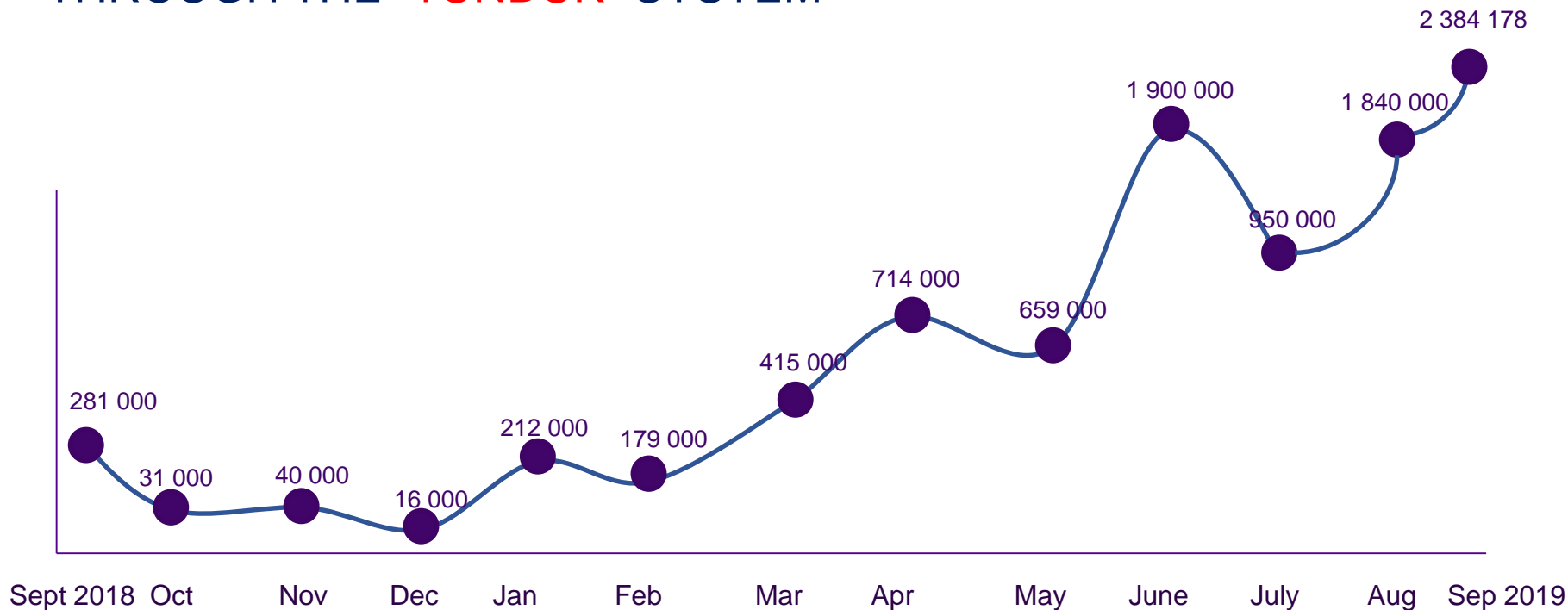
## IMPLEMENTED SERVICES

*\*Increase in 72 times*

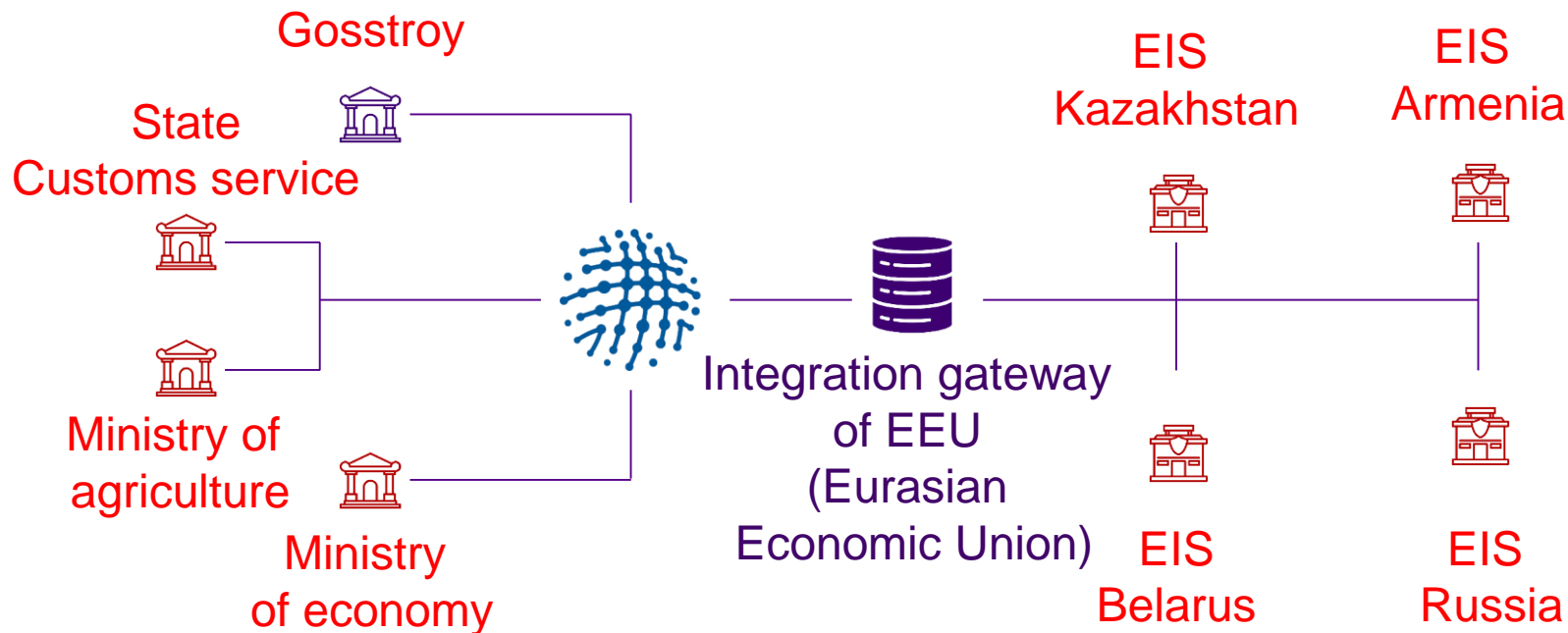
*Service is a tool through which government agencies exchange data*



## NUMBER OF DATA EXCHANGES BETWEEN STATE BODIES THROUGH THE "TUNDUK" SYSTEM



## EIS of Kyrgyz Republic



# PLAN FOR AUTOMATING OF PAPER CONFIRMATION DOCUMENTS

**Until the end of 2019  
should be automated**

**18** paper

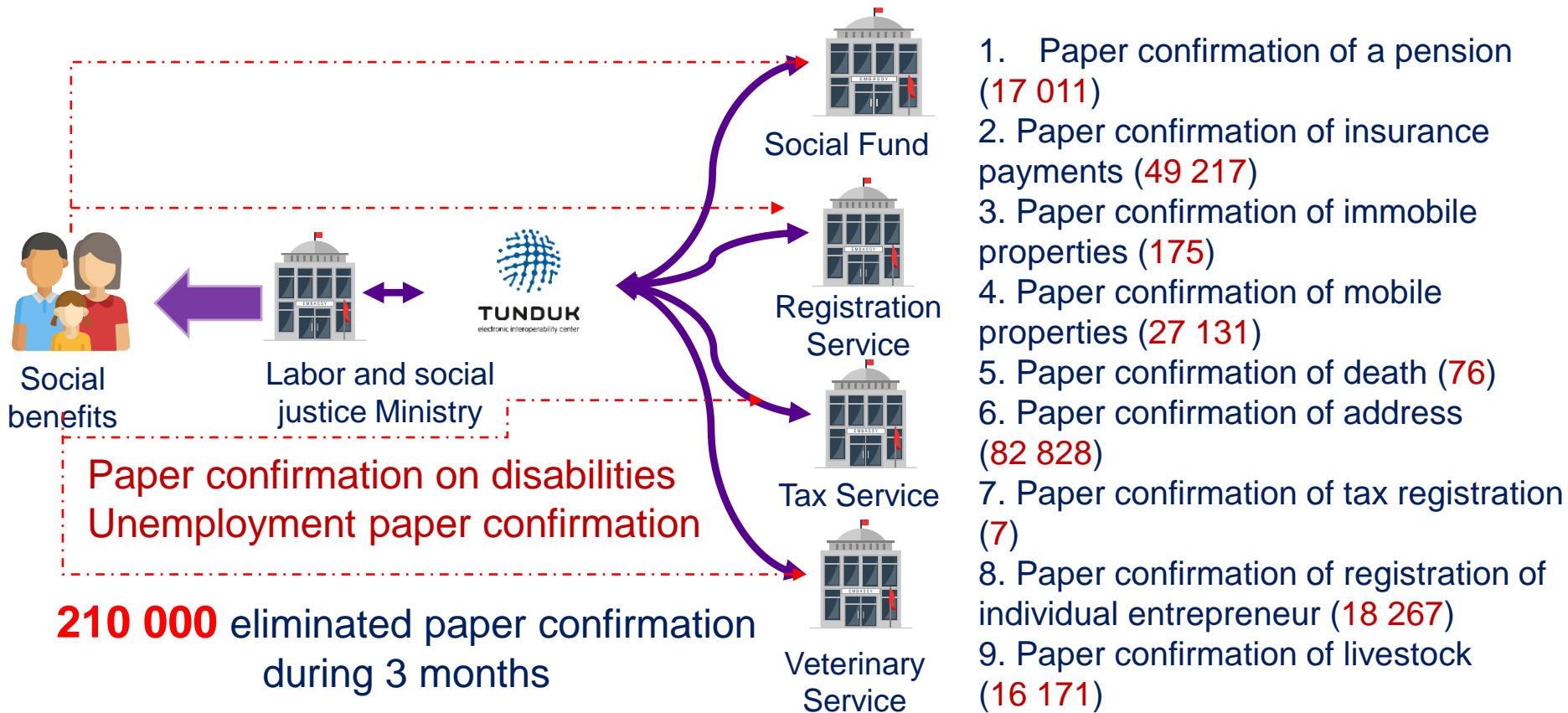
confirmation documents

**At the moment automation is in  
progress**

**11** paper

confirmation documents

# ELIMINATION OF PAPER DOCUMENTAL CONFIRMATIONS



## COST CALCULATIONS FOR OBTAINING 1 UNIT OF PAPER DOCUMENTAL CONFIRMATIONS

**To obtain a paper document of absence of tax arrears one must:**

- go through 16 stages of the process
- spend 120 minutes of time
- additional cost of 40 soms (minimum)

**=> Automation saves time and money**

**=> Saving 18 000 000 kgs**



# INTERNATIONAL AWARD



## THE WORK PLAN OF THE SE «TUNDUK»



Connection of the databases of government bodies to the “Tunduk” system



Modernization of electronic government services



The connection of commercial organizations to the “Tunduk” system



Monitoring Plans (primary databases and exclusion paper documents)



Conducting awareness-raising activities

# INITIATIVES

1. Unified standards for personal data protection
2. Integration of information systems for cross-border interaction
3. Experience exchange in the sphere of digitalization
4. Cybersecurity exchange information

# 1. UNIFIED STANDARDS FOR PERSONAL DATA PROTECTION

- Integrity and confidentiality / security of personal data
- Legality, fairness and transparency of personal data use
- Responsibility for the use of personal data

## 2. INTEGRATION OF INFORMATION SYSTEMS FOR CROSS-BORDER INTERACTION

- Traceability of goods (including information on taxation of imports and exports of goods)
- Implementation of weight-dimensional control
- Integration for the exchange of data on legal entities

## 4. CYBERSECURITY EXCHANGE INFORMATION

- Basic privacy principles
- The procedure of cross-border transmission of confidential information
- Protection of confidential information

## 4. EXPERIENCE EXCHANGE IN THE SPHERE OF DIGITALIZATION

E-GOVERNMENT

EDUCATION



**TUNDUK**  
electronic interoperability system

[tunduk.gov.kg](http://tunduk.gov.kg)

**(0312) 61-01-39**