



E-VOTING METHODS & ELECTRONIC ELECTION MANAGEMENT SYSTEMS

Fifth meeting to review developments in the field of e-voting since the adoption of Recommendation Rec(2004)11 on legal, operational and technical standards for e-voting
(Castle Hofen, Lochau/Bregenz, Austria 28 October 2014)



Supreme Election Council's Judicial Characteristic

In the period of electoral legislation stretching from Ottoman Empire to Republic of Turkey, standart electoral administration and audit model had been adopted. In addition to that, elections were being organised by Ministry of Interior and his related governors, and also objections to election certificate given to MP'S were being solved by the parliment.

In the context of the line stretching from auditor boards to electoral boards, the structure of electoral management bodies was altered and its authority was expanded. Especially the law, 9th of July 1948 dated and numbered 5258, which comprehensively amended the Law on Parliamentary Elections numbered 4918 increased significantly the weight of electoral boards and commission in electoral administration.

Supreme Election Council's Judicial Characteristic

In that context most important improvement taken into effect with relevant law was to give a membership to representative of professional organizations(NGO) and political parties in the district and provincial electoral boards.

The goal of this relevant regulation mentioned in the law was to provide neutrality in elections by building a type of internal balance in the structure of electoral management bodies.

However as a result of biased behaviours of political parties representatives and local administrators who were more prone to their parties interest, the regulation was insufficient in realizing the expected aim. Whereas the decisions taken by Parliament with regard to objections to election certificate given to MP led to questioning of Parliament authority in that issue.

Consequently the subject of handing administrative power of electoral processes to judiciary qualified organs was brought to agenda.

Supreme Election Council

Electoral Board had been established in provincials and districts through the Law on Parliamentary Elections, 16th of February 1950 dated and numbered 5258.

Supreme Election of Council conducts the elections' general management and supervision and is a top judiciary board.

- *From the beginning to end of elections, conducting the elections in order, doing all the workings and getting all the workings done related to fairness of election, inspecting and making the final decisions with regard to corruption allegations, objections and complaints during election and after the election are the duties of Council.*
- *Council has been comprised of seven regular and four substitute members whose six of them is elected by General Assembly of Court of Cassation and five of them is elected by General Assembly of Council of State .*

Against to decisions of Supreme Elections Board could not be appeal to another authority.

E-VOTING METHODS

- *In the course of a election life cycle, every activity related to election processes and operations, except for tallying and counting operations done by ballot box committee and also voters cast their votes on e-day, has been carried out successfully by district electoral councils by the means of SECSİS' application framework, which is proven to be unbiased, transparent, reliable and fast.*
- *Legal basis of SECSİS' application is the Law No. 298 'On Basic Provisions on Elections and Voter Registers' of 24 April 1961.*

E-VOTING METHODS

- *Amendment to Law on Basic Provisions for Elections and Voter Registers, which was published in Official Gazette dated 9/5/2012 has changed the article 94/a with the provision with regard to out of country voter can vote by using electronic voting methods.*
- *In the Law No. 298 ‘On Basic Provisions on Elections and Voter Registers’ (LBPEVR) of 24 April 1961, there are not any article with regard to domestic voters are able to vote by using any means via electronic voting methods.*

E-VOTING METHODS

- *In Presidential Election, successfully carried out 10th August 2014, Supreme Election Council has allowed to approx. 3.000.000 out of country voter to cast their vote in the polling stations situated at both consulates , chancellery and customs, tariffs.*
- *In that context 4.128 ballot box committee has been formed in regions served by 103 Turkish consulates and chancellery where the out country voter resided in 54 different country in the world.*
- *Ballot box committee members has been equipped with necessary device thereby using an application called online ballot box voter list which prevents repeated vote from being used repeatedly or more than one time.*

E-VOTING METHODS technical pre requisites

- *Voter Register in Turkey has been stored in a reliable manner to central voter register database by means of daily continuously updated web services activities integrated with National ADRESS DATABASE.*
- *Informations of Adresses and Identities of voters has been updated through this mechanism. Voters rolls has been purified from repeated use of data through a National ADRESS DATABASE and unique IDENTITY NUMBER OF REPUBLIC OF TURKEY.*

E-VOTING METHODS

- *In the course of electronic government projects carried out in recent decades, vital and crucial gains in area of information and communication technology has been possessed by building milestones of informatics infrastructure of which every e-project can benefit.*
- *In that context technical and legal of infrastructure of electronic identity verification based new generation citizen identity cards and mobile electronic signature, which are vital milestones technologies, has been regulated.*
- *In the light of information given, Election Informatic System together with electronic ID card and electronic signature are the facts and vital indicators that we are ready for e-election projects capable of using electronic voting methods.*

E-VOTING METHODS

- *On other hand, it has to be taken into account that the perception of public opinion, public and private institutions, academia over the usage of electronic voting methods is low as of today.*
- *Supreme Election Council has not issued a decision with regard to electronic voting method will be applied in elections in the course of out of country voters cast their votes.*
- *We believe that experiences gained and lesson learnt in the light of Rec(2004)11 throughout the 10 years will enable us to evaluate the hardships, hurdles and necessities of implementing e-voting methods in terms of technical ,legal , operational standards and social aspects.*

ELECTRONIC ELECTION MANAGEMENT SYSTEM

ELECTION INFORMATICS SYSTEM-SEÇSİS

SEÇSİS Application System

The application software which is used in SEÇSİS Application System has a software architecture which is appropriate to multilayer software architecture and is enhanced via java technology by Turkish software engineers.

This software architecture is used in software automation of works and operations which are carried out by Voter Roll General Directorate and district election councils during the election calendar and election minutes which are produced in this process.

ELECTRONIC ELECTION MANAGEMENT SYSTEM

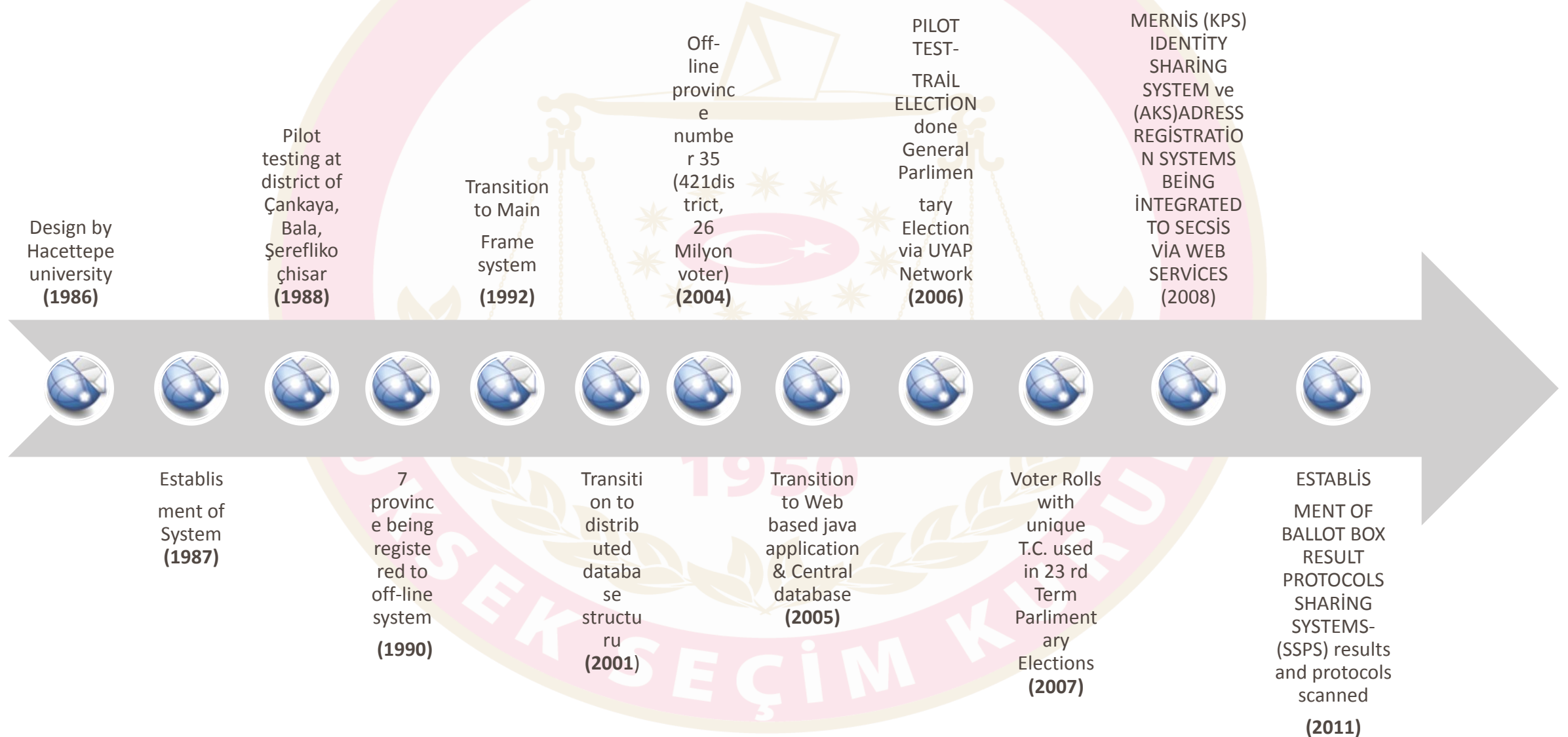
ELECTION INFORMATICS SYSTEM-SEÇSİS

SEÇSİS Portal

The official internet web site of Presidency of Supreme Election Council has been developed in the aim of enabling voter to monitor the information registered systems such as identity ,addresses, polling station. On the other hand political parties, media and citizen has been able to gain the opportunity to monitor and to audit the elections results through web site .

THESE TWO SYSTEMS ARE OPERATING ON TWO DIFFERENT DOMAINS FROM EACH OTHER IN TERMS OF Physical NETWORK CONNECTION.

SEÇSİS PROJECT TIMELINE



SEÇSİS



YÜKSEK SEÇİM KURULU

1950

SEÇSİS

Appeals to election results,
*Election Certificate given to
winner candidate,
Publishing the official
election results*

**Announcing the voter lists
in the neighborhoods**

Candidate List

Ballot Box Voter List

Voters assignment to Ballot BOX

Assigning disabled and old (over 75) voters to the ballot
boxes situated on ground floor of POLLINGS

Voters Information Sheet reports

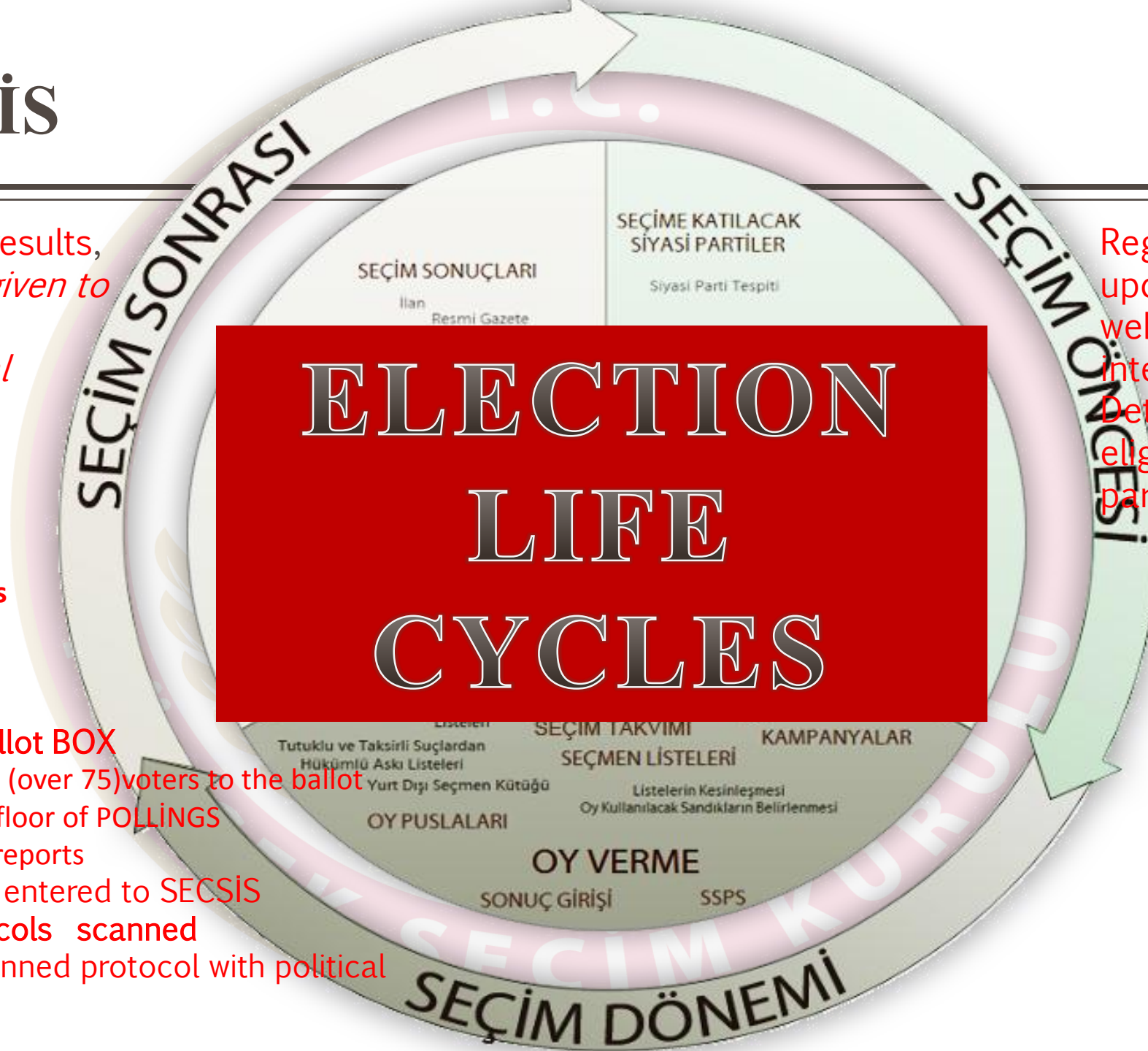
Ballot Box Result being entered to SECSİS

Ballot Box Result Protocols scanned

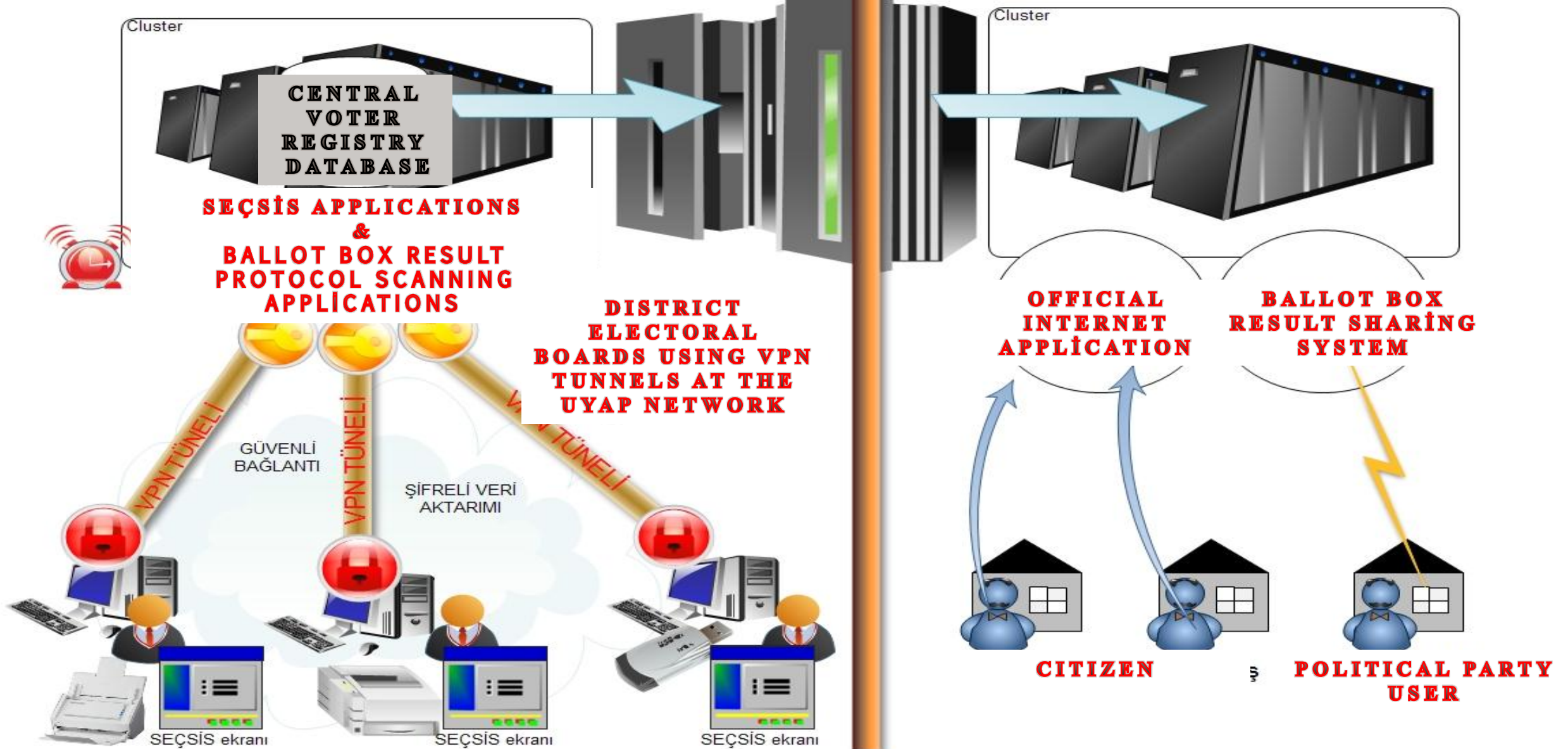
Sharing results and scanned protocol with political
parties at E-DAY

Registry Rolls continuous
updated activities via
web servise
integrations,
Determining of the
eligibility of political
parties to the election,

ELECTION LIFE CYCLES



SEÇSİS'S APPLICATION FLOW SCHEME



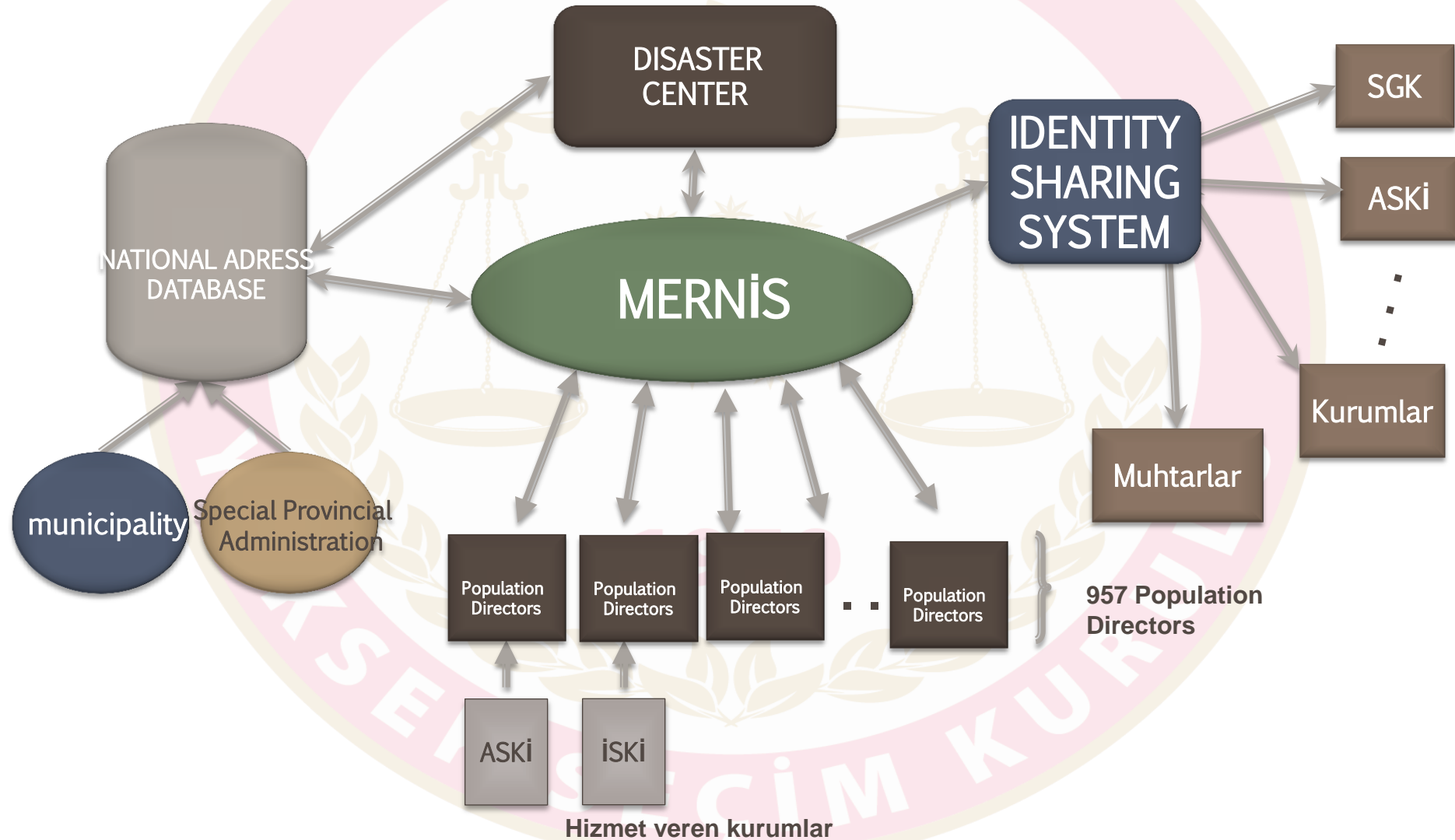
APPLICATION SECURITY

This original application of software architecture has software security components such as,

- access control,*
- identity authentication,*
- integrity,*
- confidentiality and*
- registerability .*

Software architecture enables development of web based applications and maintenance of developed application interface and reports.

ADDRESS REGISTRATION- SYSTEM TOPOLOGY



ADDRESS REGISTRATION SYSTEM

- *General Directorate of Population and Citizenship has realized the system as of 15th of August 2007 Since then ;*
 - *All the workings with regard to adress registration systems accomplished.*
 - *The system took over the datas collected by Turkish Statistical Institute;*
 - *The system has been opened to sharing of*
 - *Institutions serving based on adresses*
 - ***Mukhtar***
 - *Municipal, Provincial Administration*
 - *District Population Directord,*
 - *Public and private institutions*
 - *Turkish Citizen,*
 - *Foreign who has At Least Six Months Residence Permit in Turkey*
 - *Citizen of Republic of Northern Cyprus, Turkey*

INTEGRATION WITH MERNIS

- In accordance with the amendment to the law enacted on 22.03.2008 and numbered as 5749 and the law numbered as 298 regarding Basic Provisions of the Elections and Voter Roll, a protocol has been signed between our Chairmanship and the Interior Ministry General Directorate of Population and Citizenship Affairs in 2008. In the context of the protocol; With the Centralized Population Administration System (MERNIS) the address structure of National Address Data Base is transformed to ELECTION INFORMATİC System(SEÇSİS).

Information of Registry rolls consists of identity and permanent residence address information.

Residence address information,

Province,

district,

the work of a mukhtar and main street/street/cluster names are kept coded
- The address and identity information of voters are updated through MERNIS System. With MERNIS Identity Sharing System, using web services is achieved.

Election Works and Procedures Using External Source Data

Integration Without Web Service;

*Determination of candidates and un-candidates in the elections – General Directorate of Judicial Registration and Statistics/**Political Parties***

*Determination of Non-voters – Ministry of National Defence Department of Recruitment (**ASAL**)*

Determination of participation of political parties in the elections-Supreme Court Of Appeals

Determination of disabled – Republic of Turkey Ministry of Family and Social Policy-General Directorate of the Services for Persons with Disabilities and Elderly

President Election

The date of president election was determined by Supreme Election Council. Voter who reside inside the country can vote in 10th of August 2014 for first tour and provided that second tour occurs, can vote in 24th of August 2014. Out of country voter can vote their vote in the country where they reside in in dates between 31st July - 3rd August 2014, provided that second tour occurs, out of country voter can vote in dates between 17th and 20th August 2014

If Voters registered to the roll of out of country voters have been in Turkey during election period. They can cast their votes in the polling stations situated at specified customs in the dates between 26th July and 10th August.

With the decision of Council, dated 10.12.2013 and numbered 581, voter number has determined in one country as 500, the number of voter to vote in one ballot box has been determined as 700.

The ballot box committee is comprised from 5 person. 3 of them are from political parties. Total number of officials involved in committees are 5885

In the President Election

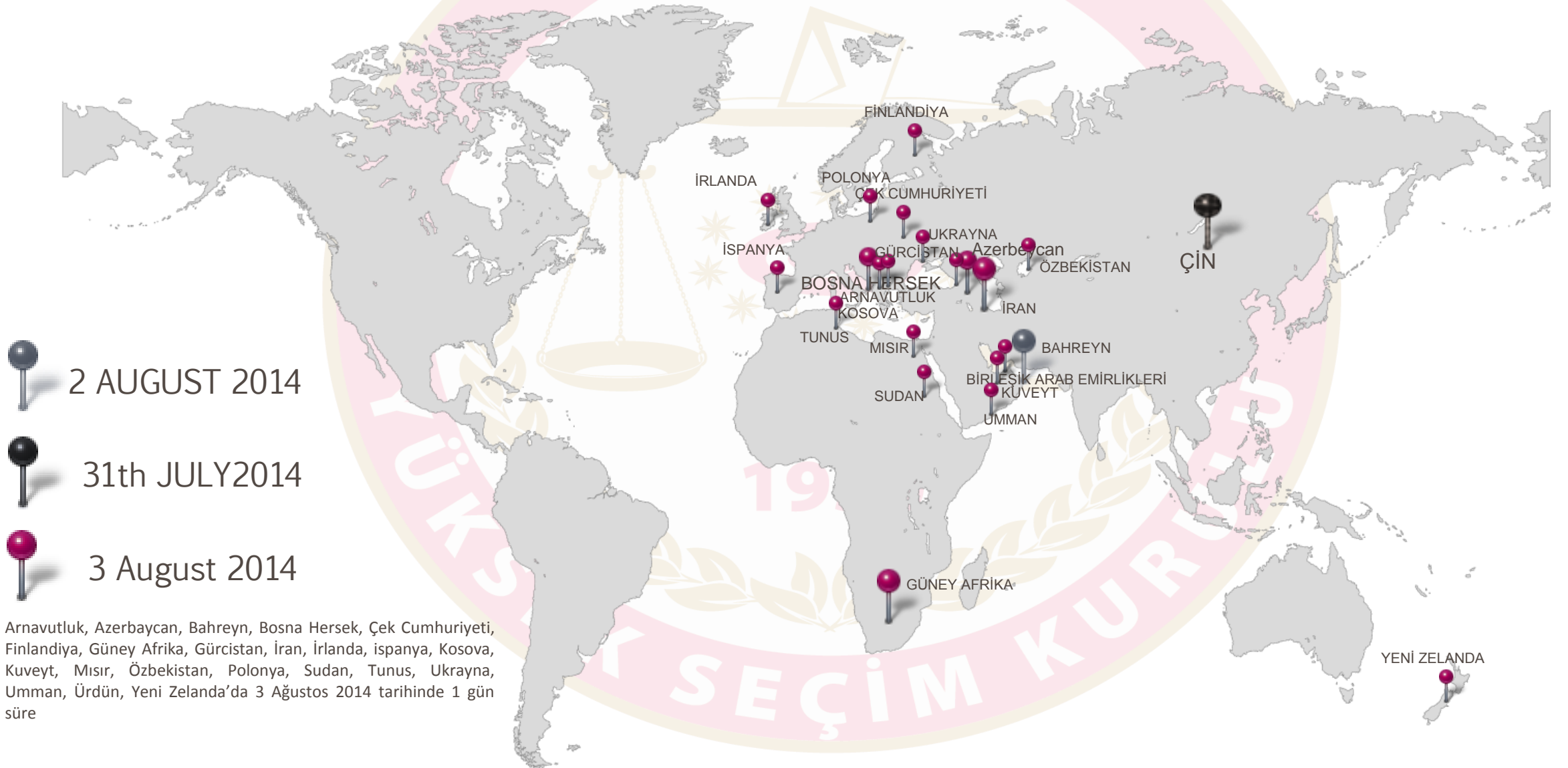
the Countries where ballot box committees placed and interval of voting days

4 DAY

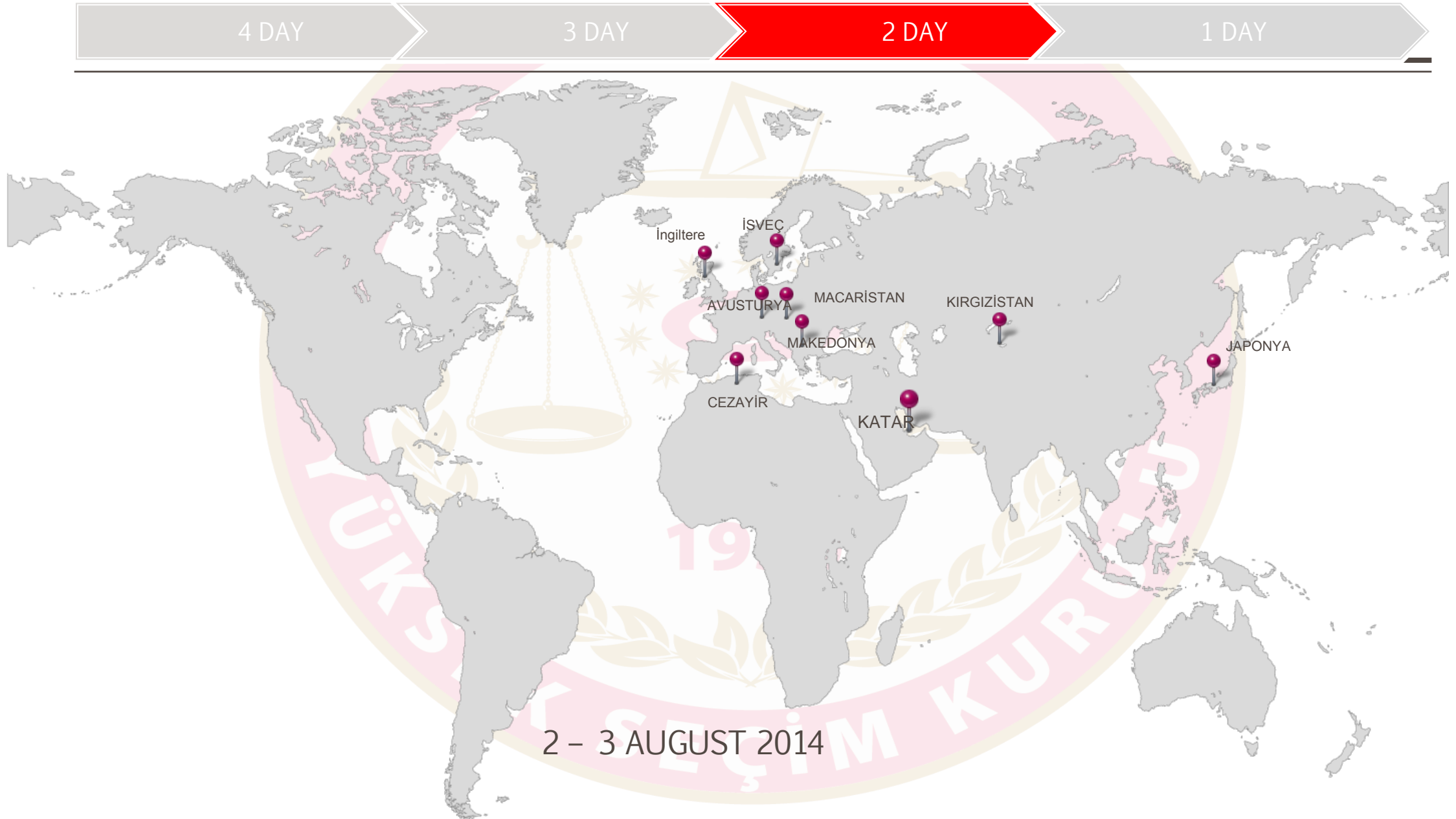
3 DAY

2 DAY

1 DAY



In the President Election the Countries where ballot box committees placed and interval of voting days



In the President Election

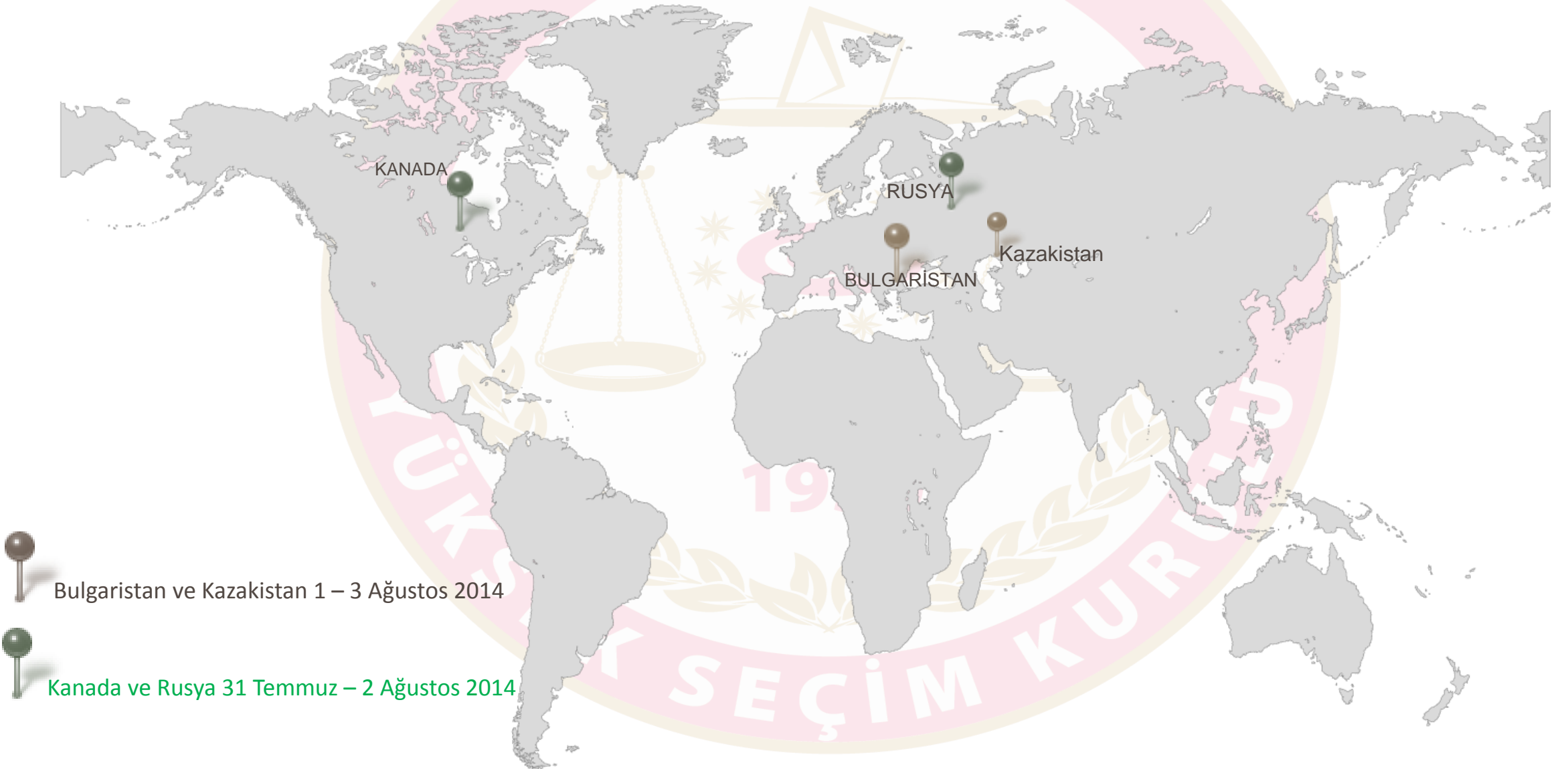
the Countries where ballot box committees placed and interval of voting days

4 DAY

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2 DAY

1 DAY



In the President Election

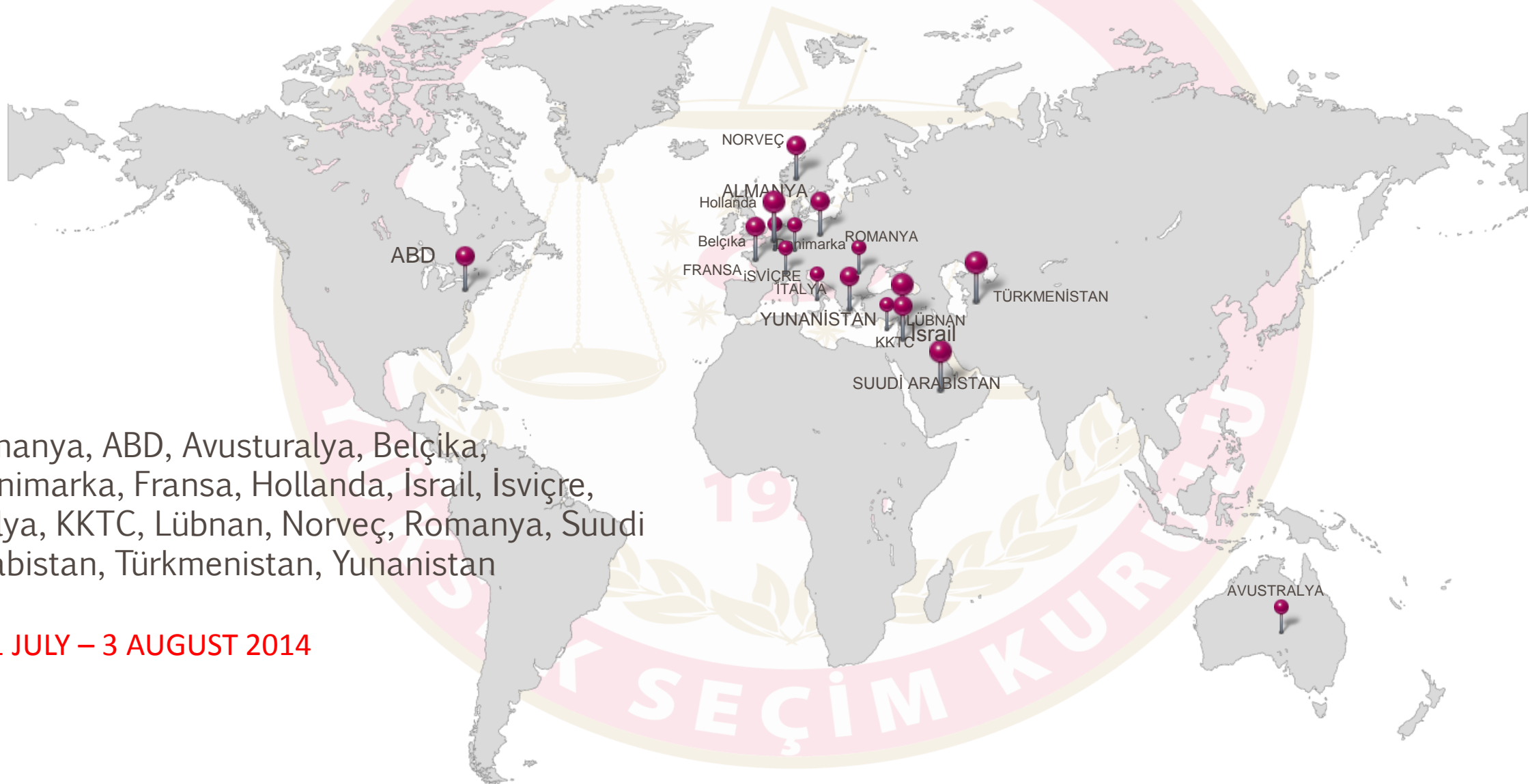
the Countries where ballot box committees placed and interval of voting days

4 DAY

3 DAY

2 DAY

1 DAY



Almanya, ABD, Avusturalya, Belçika, Danimarka, Fransa, Hollanda, İsrail, İsviçre, İtalya, KKTC, Lübnan, Norveç, Romanya, Suudi Arabistan, Türkmenistan, Yunanistan

31 JULY – 3 AUGUST 2014

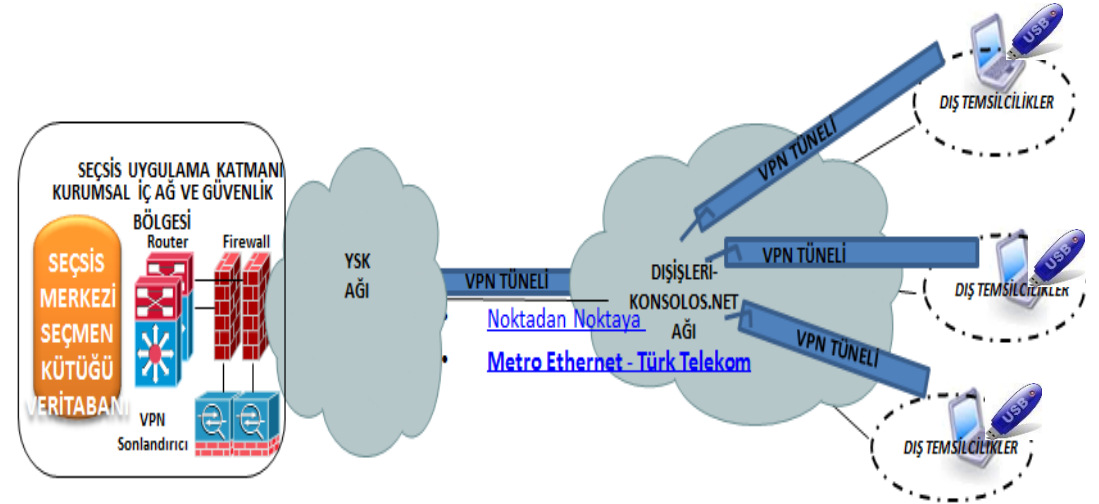
PRESIDENT ELECTION

VOTE CASTED INFORMATION SYSTEM

Supreme Election Council has taken a decision to establish 1886 ballot box committee in 103 consulates at 54 different country.

In that context **Vote Casted Information System** project has been initiated to prevent the use of knowingly repeated voting as a result of joint workings of Presidency of Council and Ministry of Affairs. The system has been used by ballot box committee situated at consulates.

NETWORK TOPOLOGY



The Ballot Box Result Protocol project has been initiated with the aim of making comparison between ballot box results entered to SEÇSIS and ballot box result protocols signed by each member of ballot box in 2013 .

Total number of scanner bought is 840.

In the 30 March Local Authorities General Election, Approx 400.00 ballot box result protocols has been scanned and transferred to SECSIS by the district election council committee members

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BALLOT BOX RESULT SCANNING SYSTEM

Each ballot box result protocol has got unique barcode. The barcode has been generated only for one ballot box via SEÇSİS application.

After Ballot Box Result Potocol printed from SEÇSİS, it has been delivered to ballot box committe by *district election council staff*.

District election council staff has been able to scan Ballot Box Result Potocol protocols by means of SEÇSİS's scanning applications interfaces

BARKOD KODLAMASI

Kanun:298/105

BELEDİYE BAŞKANI VE BELEDİYE MECLİSİ ÜYELİĞİ SEÇİMİ SANDIK SONUÇ TUTANAĞI

Örnek: 54

İl Adı : BİNGÖL

İlçe Adı : ADAKLİ

Seçim Çevresi : ADAKLİ

Seçim Bölgesi (Mahalle/Köy Muhtarlığı Adı) : ARICA MAH.

Sandık Numarası : 1001

Sandık Saat 11:00'de Açılmış İse Sebebi :

Oy Verme Saati Bilinmede İyiraza Bekleyen ve

Oy Kullandırılan Seçmen Sayısı :

Birden Fazla Sayım ve Döküm Yapılmış İse Sayısı :

Oy Vermenin Yapıldığı Tarih : 28/12/2013

Gün : Pazar

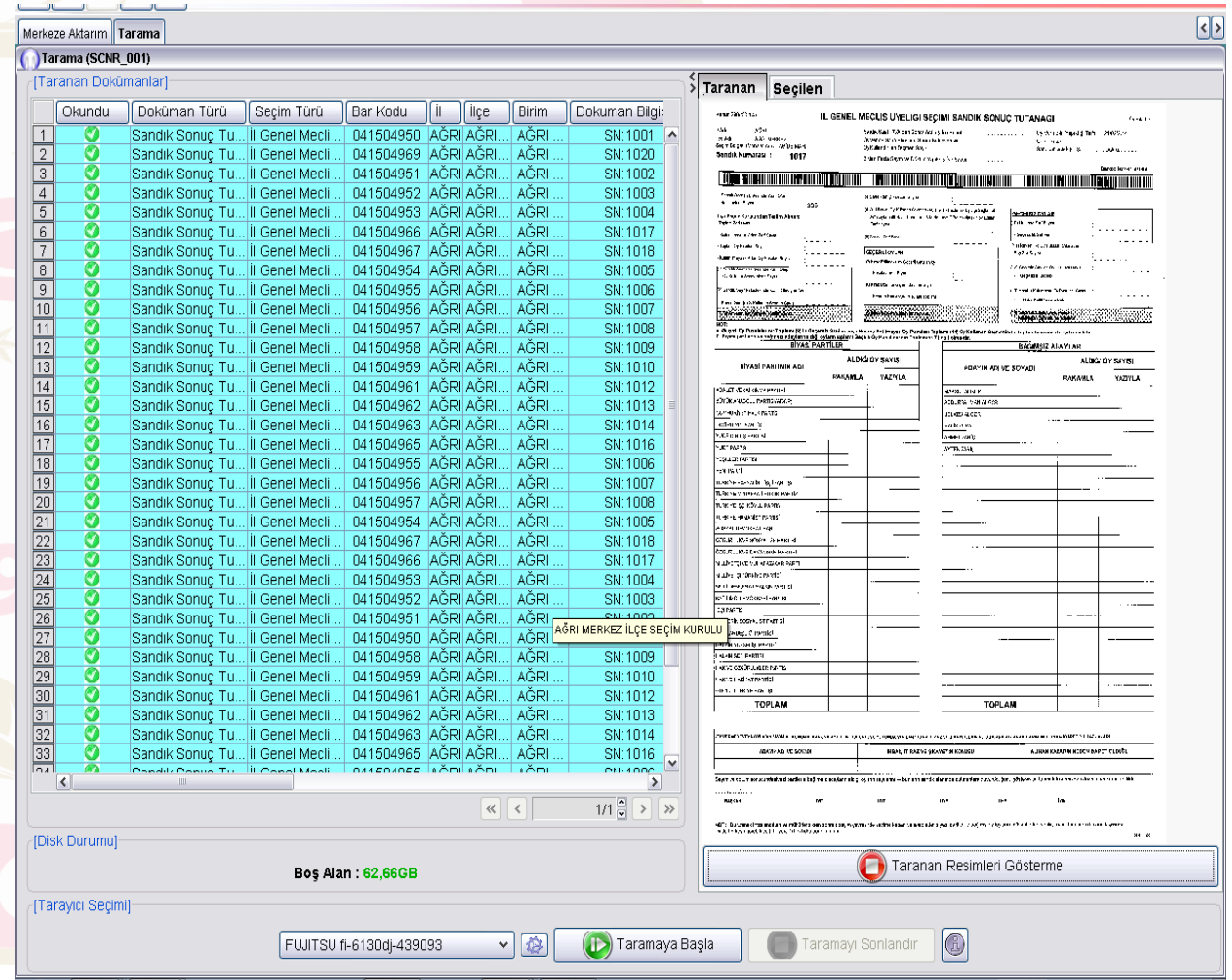
Sandığın Açıldığı Saat : 17 Dakika : 00

Barkod No: 02959296

BELEDİYE BAŞKANI İLİ BELEDİYE BAŞKANI

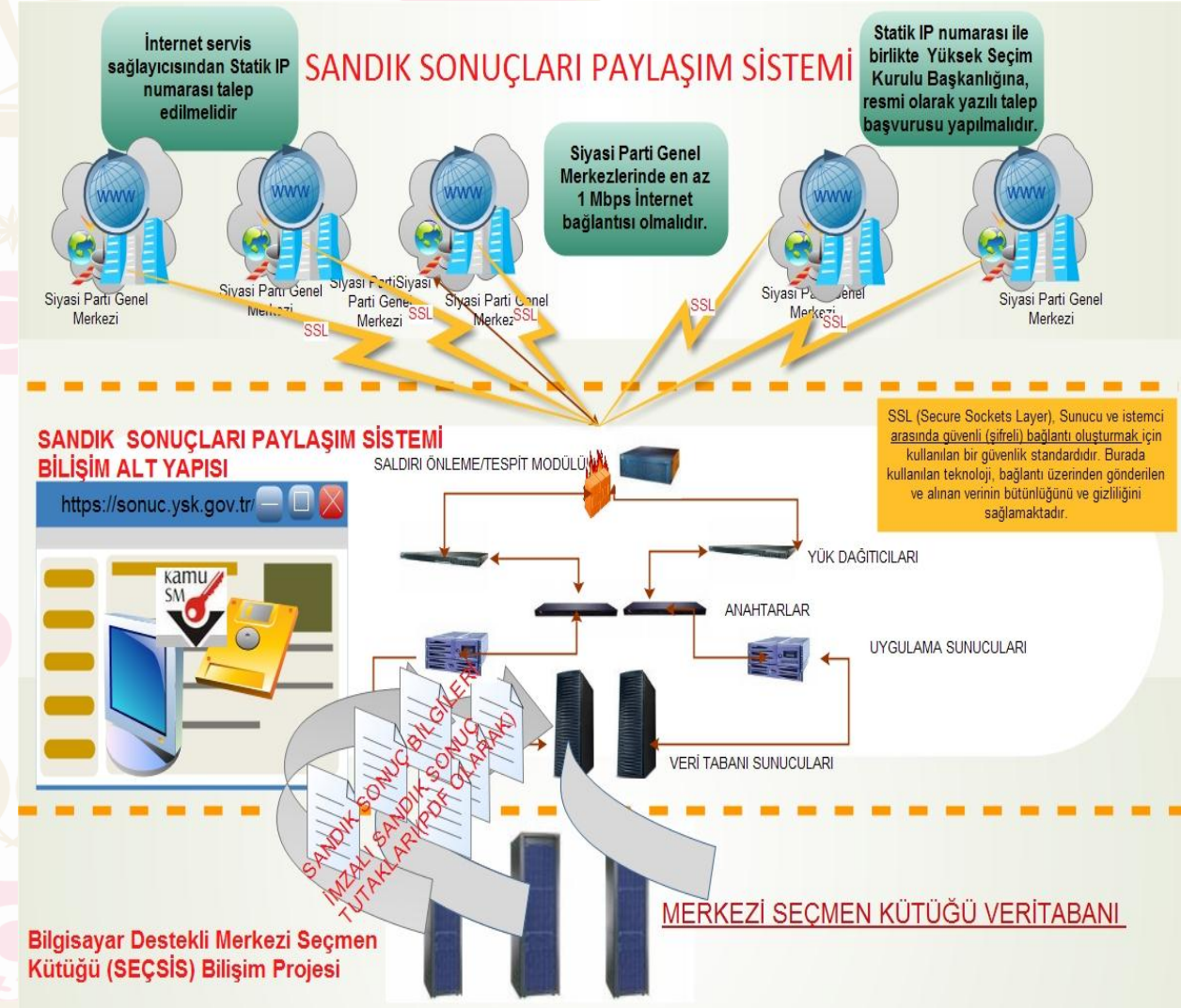
BELEDİYE MECLİSİ ÜYELİĞİ BELEDİYE MECLİSİ ÜYELİĞİ

SCANNING APPLICATION INTERFACES



BALLOT BOX RESULT SHARING SYSTEM

- In accordance with amendment to Law on Basic Provisions for Elections and Voter Registers, 26th of April 1961, numbered 298, Supreme Election Council has taken a decision to initiate a project with the aim of giving ballot box result entered to SEÇSİS to political parties simultaneously as soon as ballot box results being entered to SEÇSİS. Initial implementation has been realized in 2011.
- Since then it is being used successfully to as a tool enhance the transparency of elections
- Ballot Box Result Protocols scanned has been also shared with political parties through this system.
- Parties has been using this system in appeal time of 2 day effectively. The system has increased level of trust and reliability to SEÇSİS





* Şifre

[Şifremi Unuttum](#)



[SANDIK SONUÇLARI](#) | [Yardım](#) | [Hesabım](#)

SEÇSİS - Sandık Sonuçları Paylaşım Sistemi

[SANDIK SONUÇLARI](#) | [Yardım](#) | [Hesaplar](#)

Farenizi 'Sıra No' Kolonunun Üstüne Getirerek Sandık Bazında Ayrıntılı Bilgi Alabilirsiniz.

Tabloyu Kaydet (Excel)

Tabloyu Kaydet (Csv)

2014 YSK. Tüm Hakları Saklıdır.

Kapat

Son Güncellenme Saati: 16:57

86

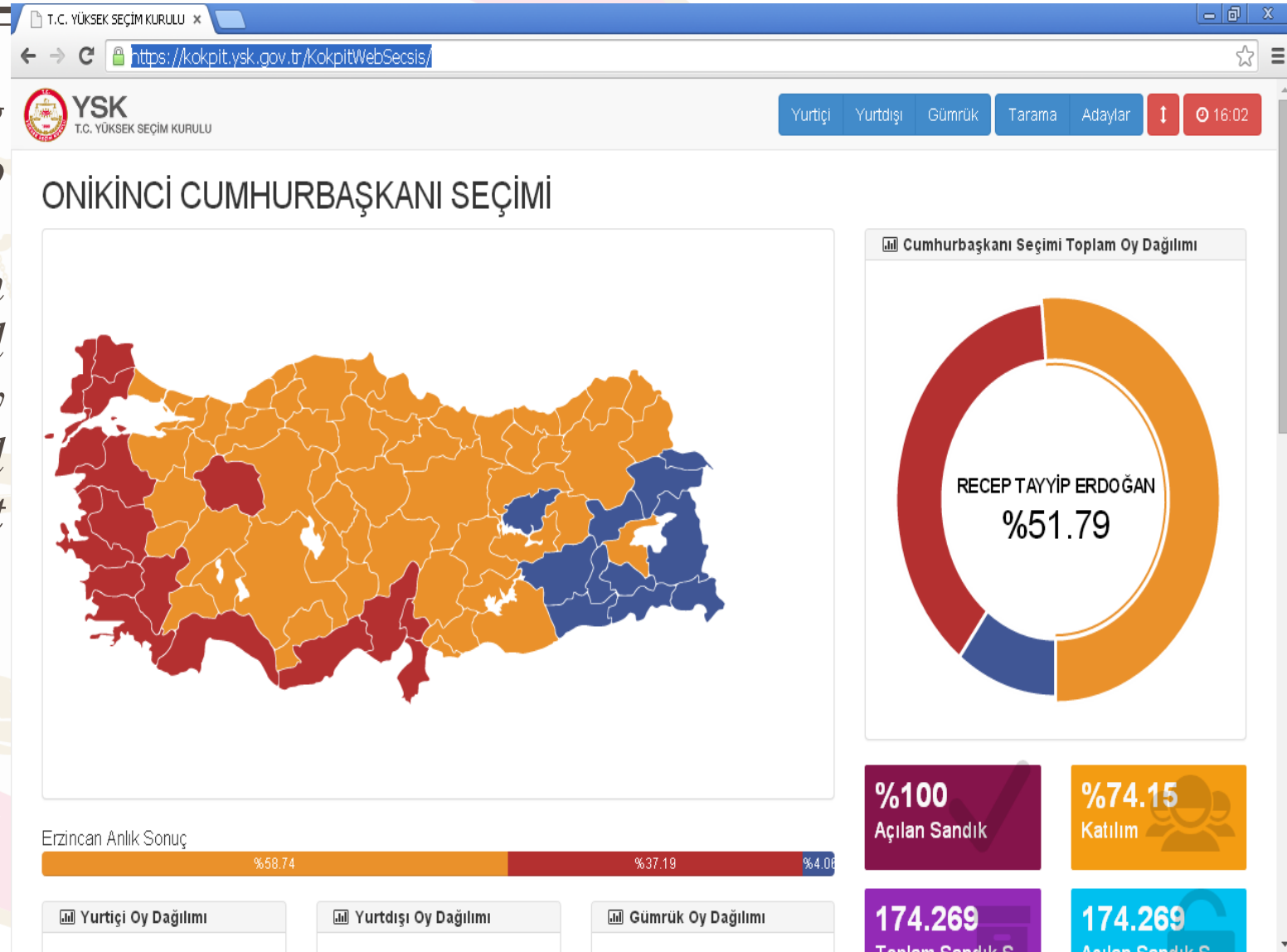
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yu Nayuel (CSV)

ELECTION NIGHT RESULTS REPORTING SYSTEM

- *On the election date, after entering ballot box results information to SEÇSİS, Supreme Election Council, Chairmen of the district election Council, Chairmen of the political parties can easily view temporary results on the basis of electoral region via election night result reporting system*



PORTAL

www.ysk.gov.tr

SEÇSİS Internet Portal is an excellent example of information portal.

The official internet web site of presidency of Supreme Election Council has been developed in the aim of enabling voter to monitor the information registered systems such as identity ,adresses, polling station.On the other hand political parties, media and citizen has been able to gain the oppurtunity to monitor and to audit the elections results through web site



YSK Decision,
Circular,Announcement ,News



Voter and Ballot QUERY



OCV QUERY



Ballot Box Result Sharing
System

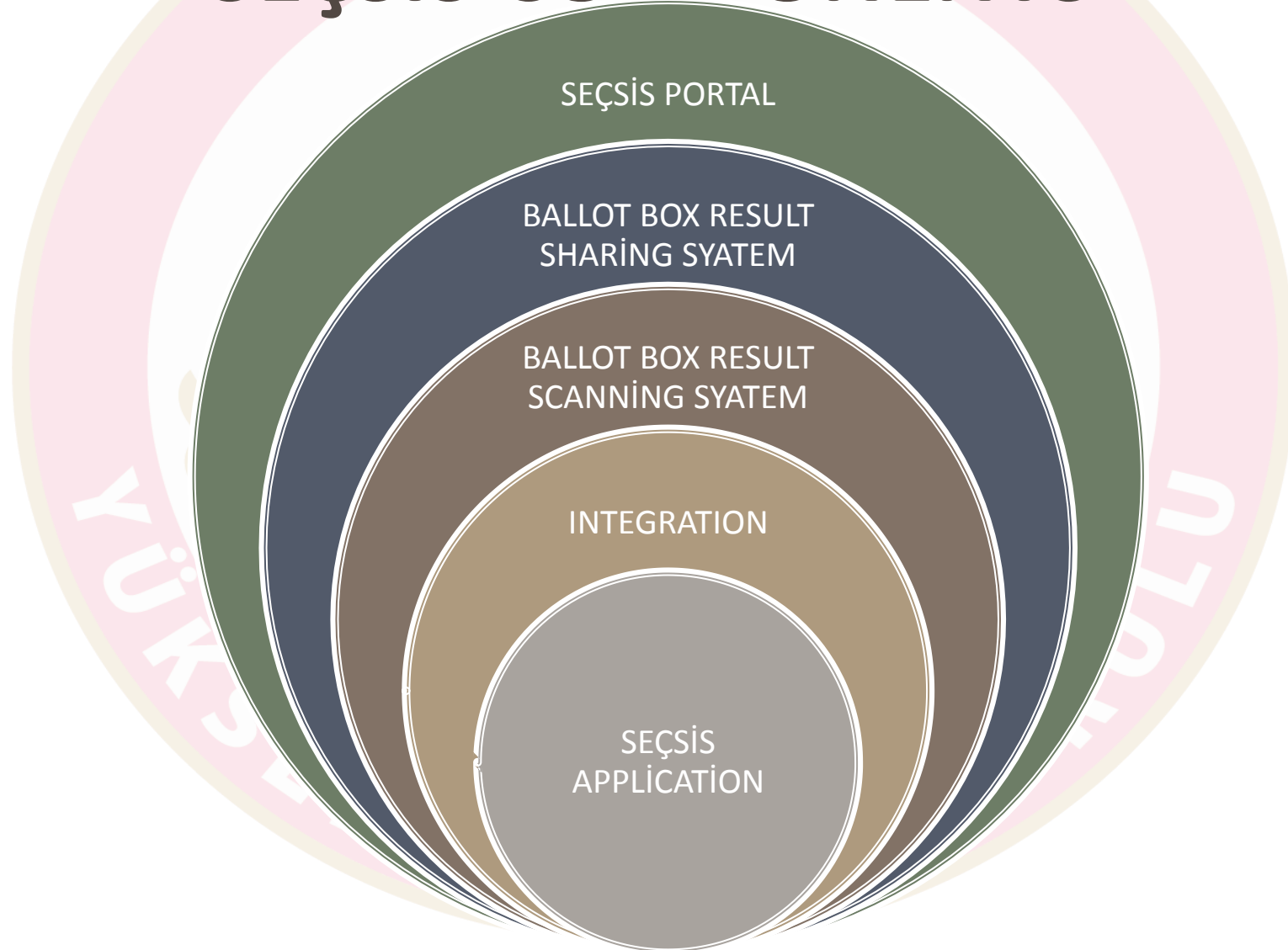


ELECTION



ONLINE INFORMATION

SEÇSİS COMPONENTS



SEÇSİS STATISTIC IN ELECTION

VOTER NUMBER	52.695.832
OUT OF COUNTY VOTER	2.788,831
75 YEARS OLD AND PLUS VOTER	2.506.208
BALLOT BOX COMMITTEE (EXCLUDE PRISON)	194.304
BALLOT BOX COMMITTEE OUT OF COUNTRY	1.177
DISABLED VOTER	540.669
VOTER detainee in prison	33.786
PROVINCE	81
DISTRICT	970
BELDE	394
NEIGHBORHOOD	49.776

SEÇİSİS-STATİSTİC

30 MARCH 2014 LOCAL AUTHORITIES GENERAL ELECTION

TEMPORARY ELECTORAL OFFICER	209.328
DİSTRİCT OR PROVİCİAL COUNCIL CIVIL SERVANT	10.613
BALLOT BOX COMMİTTEE OFFICER	1.107.408
BALLOT BOX OTHER OFFICER-	78.309

ELECTION OFFICIALS

TEMPERORY OFFICIAL ENTERİNG BALLOT BOX RESULT TO SECSİS	2.917
OFFICIAL ENTERİNG BALLOT BOX RESULT TO SECSİS	4.186
OFFICIAL ENTERİNG BALLOT BOX TO SECSİS	102
OFFICIALS WORKİNG ON E-PERIOD	9.490
TEMPORARY DRIVER	16.505
OFFICIALS TO BE	74.054
DRIVER	7.709
Voters Information Cards Deliveryman	47.176
POLLİNG STATION SERVANT	32.684
OFFICIALS WORKİNG ON E-DAY	14.505
	209.328

Main Benefits of the System

- *The use of knowingly repeated voting has been prevented by means of registering the voters with unique Republic of Turkey Identification Number.*
- *Finger painting was abolished.*
- *Reports regarding neighbourhood unit hanging lists, finalized voters lists, ballot box voters lists, voters information cards and ballot box council assignment documents during the preparation period before the election day are received and are used in 30 seconds.*
- *Except for Ballot paper, All documents related to election has been generated by SECSİS*
- *Log records of all activities done by the temporary election staffs during the election calendar are kept.*
- *Electoral District Council Staff member are able to operate according to their duty and operational hierarchical title.*
- *Ballot box assignments on the basis of all district election boards are done automatically by the Supreme Election Council*
- *On the election date, after entering ballot box results information to SEÇSİS, chairmen of the district election council can easily view temporary results on the basis of electoral region. Nationwide temporary results results are also shared with political parties and public in manner of transparent, unbiased, reliable and fast way .*

eTR 2007 REWARD

**The first prize was awarded at the
"Public Citizen of eServices" category in
5. eTR Türkiye Awards organized by
TÜSİAD and Turkey Informatics
Foundation (TBV)
TÜSİAD ve Türkiye Bilişim Vakfı (TBV)**



INTERNATIONAL ELECTION REWARD

2013

Due to establishing a transparent and peaceful election environment and providing suitable election environment in complying with international standards, Supreme Election Council , one of oldest independent of election councils, has taken the reward "ICPS Award for Managing Transition“ in the meeting arranged at Kuala Lumpur in 4 th of December 2013.

