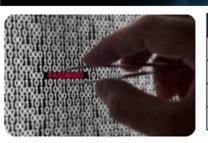


## Cyber World on 2017



DATA BREACHES	2014	2015	2016
TOTAL BREACHES	1,523	1,211	1,209
AVERAGE IDENTITIES EXPOSED PER BREACH	805	466	927
TOTAL IDENTITIES EXPOSED	1,200,000,000	564,0 <mark>00,000</mark>	1,100,000,000
BREACHES WITH 10 MILLION+ IDENTITIES EXPOSED	11	13	15

In the last 8 years more than 7.1 BILLION identities have been exposed in data breaches



RANSOMWARE	2014	2015	2016
NUMBER OF DETECTIONS	0	340,665	463,841
RANSOMWARE FAMILIES	30	30	101
AVERAGE RANSOM AMOUNT (US Dollar)	373	294	1,077



PHISHING RATE by INDUSTRY	2016		
Agriculture, Forestry & Fishing	1 for each 1815 e-mails		
Finance, Insurance & Real Estate	1 for each 1918 e-mails		
Mining	1 for each 2254 e-mails		
Public Administration	1 for each 2329 e-mails		
Minimum: Transportation & Public Utilities	1 for each 6176 e-mails		

April 27th, 2017 Symantec Corp. Internet Security Thread Report, Vol. 22

5<sup>th</sup> – 7<sup>th</sup> September, 2017 – Bucharest, Romania

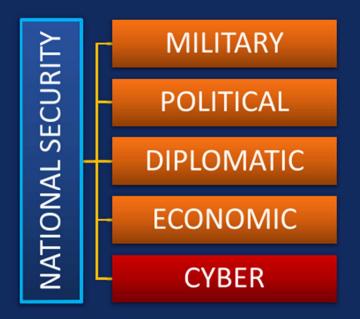
# Cyber World on 2017

Attack Groups	Aliases	Country	Start Year	Motivation	Target Categories & Regions
Sandworm	Quedagh, BE2 APT	Russia	2014	Espionage, Sabotage	Governments, International Organizations, Europe, US, Energy
Fritillary	Cozy Bear, APT29, Office Monkeys	Russia	2010	Espionage, subversion	Governments, Think Tanks, Media, Europe, US
Swallowtail	Fancy Bear, APT28, Sednit	Russia	2007	Espionage, subversion	Governments, Europe, US
Cadelle	/None/	Iran	2012	Espionage	Airlines, telecommunications, Iranian Citizens, Governments, NGO's
Appleworm	Lazarus	North Korea	2012	Espionage, Sabotage, subversion	Financial, Military, Governments, Entertainment, Electronics
Housefly	Equation	US	2001	Espionage	Targets of interest to nation-state attackers
Strider	Remsec	Western	2011	Espionage	Embassies, airlines, Russia, China, Sweden, Belgium
Suckfly	/None/	China	2014	Espionage	e-Commerce, Governments, Technology, healthcare, Financial, shipping
Buckeye	APT3, UPS, Gothic Panda	China	2009	Espionage	Military, defense industry , Media, Education, US, UK, Hong Kong
Tick	/None/	China	2006	Espionage	Technology, broadcasting, Japan, aquatic engineering

Notable Targeted Attack Groups that have been publicly connected to nation states

### Cyber Security & National Security

National Security: Identification of threats and opportunities by monitoring the regional and global environment in order to take measures against the threats to the national state and security, and the processes to determine the politics appropriate to these issues and to implement the most appropriate policies (National Security Committee)\*





<sup>\*</sup> http://www.mgk.gov.tr/index.php/milli-guvenlik-kurulu/genel-bilgi

<sup>\*\*</sup> http://www.nato.int/docu/review/2017/Also-in-2017/nato-priority-spending-success-cyber-defence/EN/index.htm

## Current Threads in Cyber Life of Turkey

DATA BREACH - 05.12.2016





#### **Berat's Box**

Today, Monday 5 December 2016, WikiLeaks publishes an authoritative, searchable archive of 57,934 emails from the personal email address of Berat Albayrak, who is

> 57.934 e-mails of **Minister of Energy**

> > 5 December 2016



#### **AKP Email Archive**

The AKP, or the Justice & Development Party, is the ruling party of Turkey and is the political force behind the country's president, Recep Tayyip Erdoğan. Part one of the series covers 762 mail boxes beginning with 'A' through to

> 407.910 e-mails of **J&D Party**

> > 19 July 2016

**DATA BREACH - 08.04.2016** 

President of High Electoral Board: «The identities that leaked into the internet matches the data we shared with political parties in 2008»

08 Nisan 2016 - 16:43 | Son Güncelleme : 08 Nisan 2016 - 17:19

YSK Başkanı Sadi Güven, internette yayınlanan kimlik bilgileri ile ilgili olarak inceleme yaptıklarını belirterek, "İnternet sitelerinde yaptığımız araştırma sonucunda elde ettiğimiz bilgiler, siyasi partilere verdiğimiz veri tabanıyla uyuşmaktadır. Mühendislerimiz incelemeleri yaptılar, bizdeki kayıtlarla bire bir uyumlu olmasına rağmen bizim sistemimizden herhangi bir sızma yoktur" dedi. Güven, "Verilerin 2008 tarihinde paylaşılan dosyalarla uyumlu olduğu görülmüştür" diye konuştu.



https://wikileaks.org/berats-box/

## Current Threads in Cyber Life of Turkey

Critical Infrastructures: Health Sector 18.05.2016

Cyber attack to public hospitals: «Health records of thousands of patients leaked»

Ana Sayfa > Haberler > Türkiye > Gündem - 18 Mayıs 2016, 17:48'de eklendi











13b

Sağlık Bakanlığı'na bağlı 33 devlet hastanesine sabah saatlerinde siber saldırı düzenlendi. Binlerce hastanın kayıtlarının ele geçirildiği ve internette paylaşıldığı öne sürüldü. Youtube üzerinden eylemin duyurulduğu açıklamada da saldırının Anonymous grubu tarafından gerçekleştirildiği iddia edildi. Ancak akşam saatlerinde Anonymous grubunun Twitter hesabından yapılan açıklamada bu iddialar reddedildi...

Sağlık Bakanlığı'ndan yapılan açıklamada da saldırıdan sadece Diyarbakır'daki hastanelerin 'kısmen' etkilendiği belirtildi.

> **Health Data Breach** from 33 Hospitals

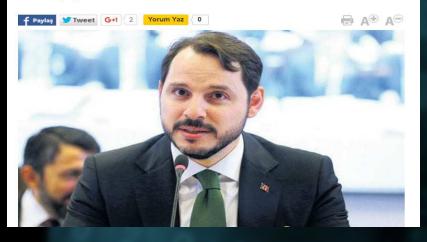
Critical Infrastructures: Energy Sector 30.12.2016

Minister of Energy, Mr Albayrak: «We have faced

US based cyber attack»

06 Ocak 2017 Cuma - 11:36 | Son Güncelleme : 06 01 2017 - 12:55

Enerji ve Tabii Kaynaklar Bakanı Berat Albayrak, elektrik ve doğal gaza bu yıl zam öngörmediklerini söyleyerek, geçtiğimiz hafta yaşanan elektrik kesintileriyle ilgili ise "ABD merkezli siber saldırı yapıldı" dedi.

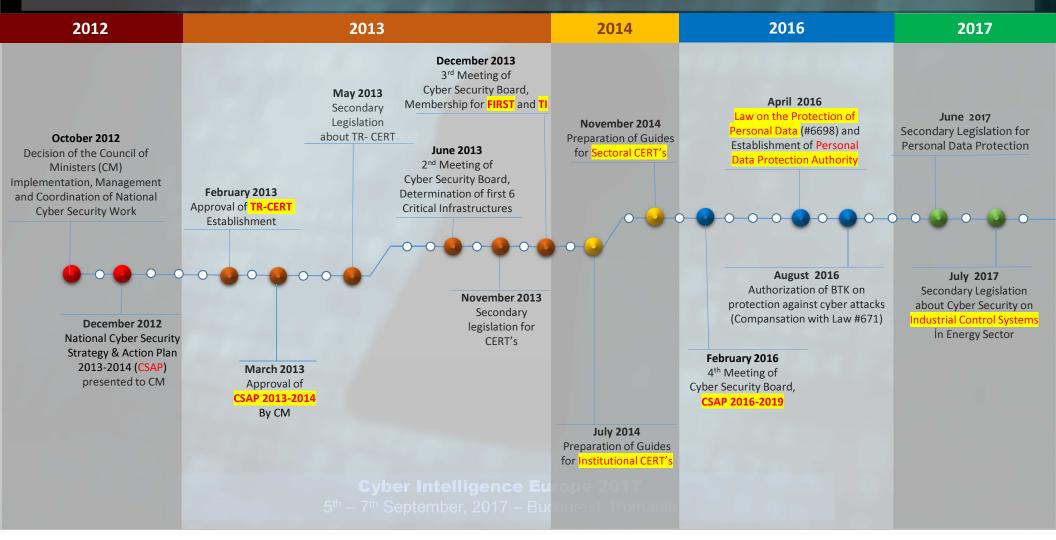


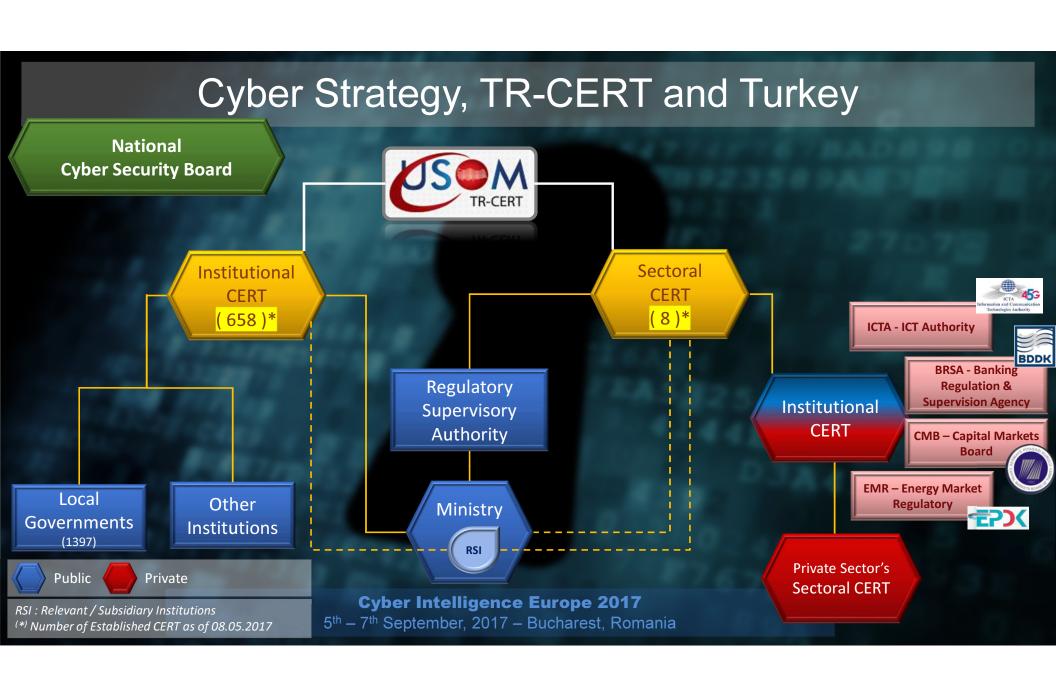
Electricity shortage across the country during 5 days 300 Million Euro loss

Europe 2017 https://onedio.com/haber/devlet-hastanelerine-siber-saldiri-binlerce-hastanin-kayitlari-sizdi=711565 http://www.gazetevatan.com/elektrik-hatlarina-sabotaj-var-mi-bakan-albayrak-vanitladi-1025710-gundem/ https://indigodergisi.com/2017/01/elektrik-kesintileri-sanayi-zarar/

Bucharest, Romania

## Cyber Strategy, TR-CERT and Turkey





## Future Plans on National Cyber Security Super Structure

General

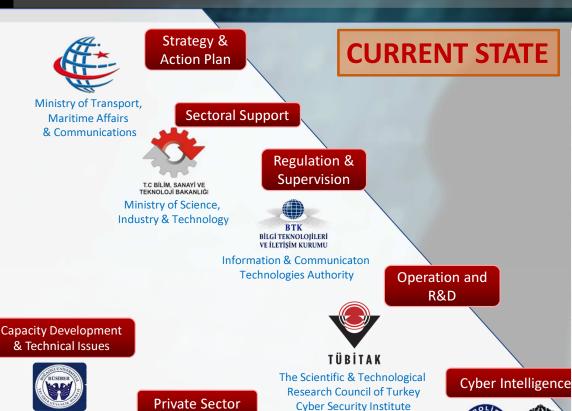
Directorate

of Security

National

Intelligence

Agency



**Bogazici University** 

Cyber Security Center

aselsan

**Electronic Industry** 

Air Electronic Industry

### **Single Center in Cyber Security**

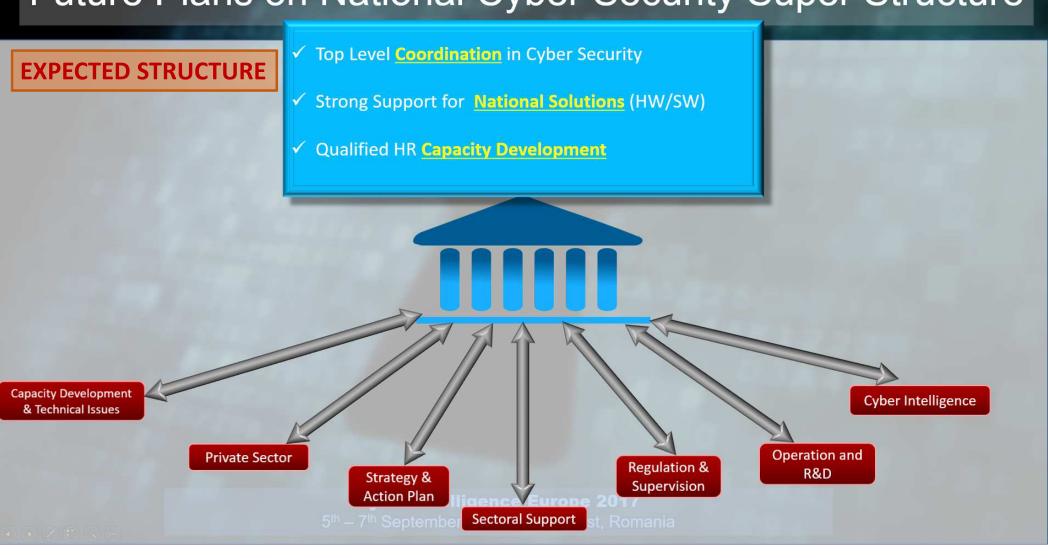
16 Şubat 2017 - 22:49 | Son Güncelleme : 17 Şubat 2017 - 10:3

Presidency initiated a work to combine the work carried out in different institutions in the field of cyber security under single center.



Cumhurbaşkanı Tayyip Erdoğan'ın talimatıyla başlatılan çalışmalar kapsamında, siber güvenlik altyapısının yerlileştirilmesi, durum analizi yapılması ve alınması gereken tedbirler ortaya konulacak. Cumhurbaşkanı Erdoğan, FETÖ'nün 15 Temmuz darbe girişiminin ardından kurmaylarına siber güvenlik altyapısının incelenmesi için talimat verdi. Devlet Denetleme Kurulu ve Erdoğan'ın teknoloji kurmaylarının yer aldığı çalışma kapsamında Bilim, Sanayi ve Teknoloji Bakanlığı, Ulaştırma, Denizcilik ve Haberleşme Bakanlığı, Bilgi Teknolojileri ve İletişim Kurumu ile TÜBİTAK gibi kurumlarda ayrı ayrı yapılan siber güvenlik çalışmalarının tek çatı altında birleştirilmesi planlanıyor.

# Future Plans on National Cyber Security Super Structure



### Latest Actions in Turkey

Establishment of Personal Data Protection Authority January 30<sup>th</sup>, 2017





National E-Mail System August 07<sup>th</sup>, 2017

### **Gov.NET Government Secure Network**

Legislation: June 21<sup>st</sup>, 2017 Included Institutions: 23%





### **E-Government & Cyber Security CIO**

Chairman: Prime Minister UnderSecretary Participants: Undersecretary of each Ministry

Period: Each Month, regularly (Since March 2017)
Purpose: High Level Monitoring & Coordination

http://www.hurriyet.com.tr/milli-e-posta-sistemi-geliyor-40542359 Cyber Intelligence Europe 2017

http://www.edevlet.gov.tr/wp-content/uploads/2017/08/03.08.2017-e-Devlet-Koordinasyon.pd 2017 — Bucharest, Romania http://www.edevlet.gov.tr/2017/08/04/agustos-ayi-e-devlet-koordinasyon-toplantisi-gerceklestirildi/

### Latest Actions in Turkey

**Government Integrated Data Center** 

State: Feasibility Analysis



Cyber Defence Technology Center
(SiSATEM)

23rd March 2016





STM Cyber Fusion Center 17<sup>th</sup> May 2016

Turkish Armed Forces (TAF) - Cyber Defence Command
Cyber Defence Operation Center
11th July 2017



HAVELSAN Inc. is an affiliated company of Turkish Armed Forces Foundation

**Cyber Intelligence Europe 2017**5th – 7th September, 2017 – Bucharest, Romania

STM Defense Technologies Engineering and Trade Inc. is for support services for Turkish Armed Forces (TAF) and Undersecretariat for Defence Industries (SSM)

### Latest Actions in Turkey

**Government-Wide ISO 27001 Certification** 

Target: December 31st, 2018





**HR Capacity Development as Cyber Security Expert** 

Target: December 31st, 2018

**Government-Wide Cyber Security Tests** 

Target: December 31st, 2017

**Scope**: System & Network Penetration Test Source Code Analysis, DDoS, Social Engineering ...



**Cyber Intelligence Europe 2017** 

5<sup>th</sup> – 7<sup>th</sup> September, 2017 – Bucharest, Romania



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### **Cyber Intelligence Europe 2017**

5<sup>th</sup> – 7<sup>th</sup> September, 2017 – Bucharest, Romania

#### **ESTEEMED INVITED SPEAKERS**

- Ambassador Sorin Ducaru, Assistant Secretary General, Emerging Security Challenges, NATO
- Brigadier General Hermann Kaponig, Commander, ICT & Cyber Defence Command, Ministry of Defence and Sports, Austria
- Anton Rog, Head, National Cyberint Center, Romania
- Natalia Spinu, Head, Cyber Security Center (CERT-GOV-MD), Moldova
- Arman Grigoryan, Head of National Cyber Security Center, Institute for National Strategic Studies (INSS),
   Ministry of Defence, Armenia
- Hans Oude Alink, Senior Advisor, Crisis Management, National Cyber Security Centre (NCSC), Netherlands
- Eirik Troones Hansen, Prosecutor, Cybercrime section, National Criminal Investigation Service, Norway
- Toma Cimpeanu, CEO, National Association for Information Systems Security (ANSSI), Romania
- Salvador Llopis Sanchez, Project Officer, Cyber Defence Technology, European Defence Agency (EDA)
- Mustafa Afyonluoglu, Cyber Security and e-Government Chief Expert, Turkey
- Rami Efrati, Former Head of the Private and Civilian Sector, Israeli National Cyber Directorate (INCD)
- Professor Dr. Mitko Stoykov, Military-Political Problems of Security, Defence Advanced Research Institute,
   Ministry of Defence, Bulgaria

https://goo.gl/WDut53

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