#### kaspersky

Kaspersky Industrial Cybersecurity Conference 2021

#### Can Demirel

Industrial Cyber Security Services Team Lead, Cyberwise, Turkey

#KasperskyICS Чат конференции: https://kas.pr/kicscon

**BİZNET - SECURRENT - SECURRENT ME - PENETRA** 



Current Status of Industrial Cyber Security Regulations in Turkey in the light of Geopolitics and Strategy

Kaspersky Industrial Cybersecurity Conference'21

▶ in ♥ / cyberwise.com.tr



- Geopolitics & Strategy & Cybersecurity
- Current Industrial Cyber Security Regulations in Turkey
- Future expectations
- Q&A





• Electrical & Electronics Engineer

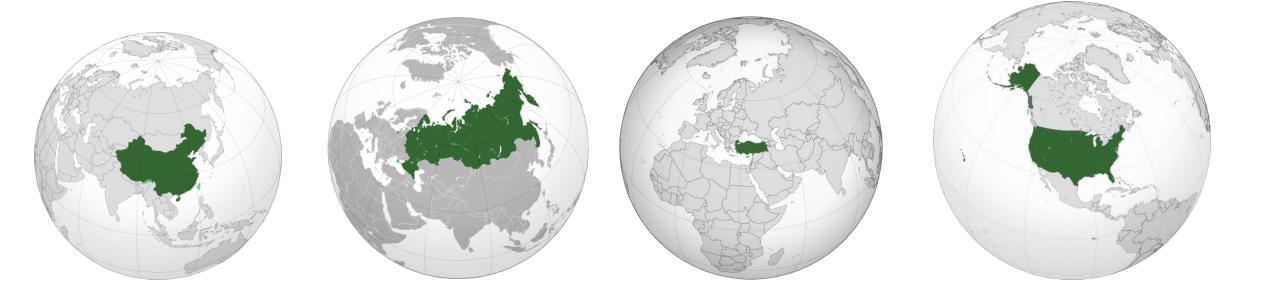
• 9+ Cyber Security Experience

• 5+ ICS/SCADA Cyber Security

- Volunteer @ BootCamp & EKSKonferans
- CCI Turkey Co-Coordinator
- Project Member @issvs

Can Demirel (@secandit) Team Lead @Cyberwise (Formerly Biznet)





Source: https://en.wikipedia.org/





**Garry Kasparov** 

Becoming energy hub for the region

Becoming transportation hub for the region Increasing trade volume

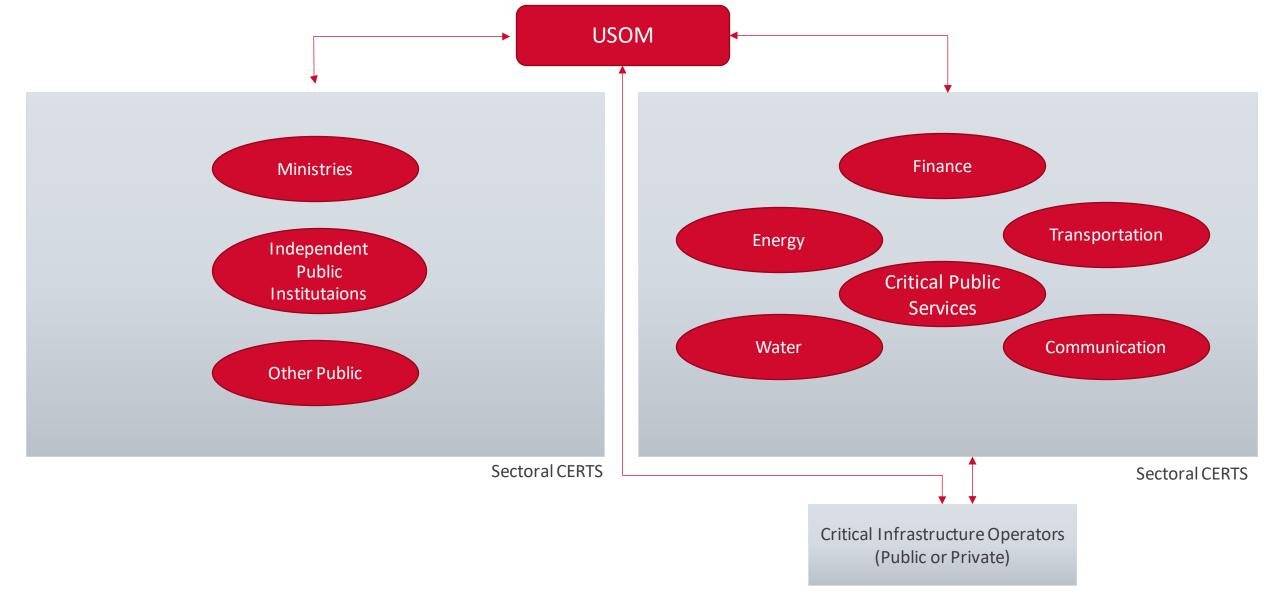
Developing own defense technology

https://www.idefix.com/

## National Cyber Security Strategy & ICS

Period	Focus	Industries	Critical Infrastructure Definition
2013-2014	IT Security	Governmental Agencies, Energy, water, health, transportation, communication, finance, etc	Governmental Agencies, Energy, water, transportation, communication, finance
2016-2019	IT & OT Security	Increased scope regarding industries	Governmental Agencies, Energy, water, transportation, communication, finance
2020-2023	IT & OT Security	Increased scope regarding industries	Governmental Agencies, Energy, water, transportation, communication, finance

#### General Cyber Security Structure in Turkey



### Current ICS Related Regulations

EPDK/EMRA - Energy Market Regulatory Authority- Establishment and Management Corporate CERT

- EPDK/EMRA Energy Market Regulatory Authority- ISO 27001 & 27019 Compliance
- > EPDK/EMRA Energy Market Regulatory Authority- Asset and Risk Management
- EPDK/EMRA Energy Market Regulatory Authority- Penetration Testing and Security Audits
- Presidency of the Republic of Turkey- Information and Communication Security Act
- Presidency of the Republic of Turkey-Digital Transformation Office- Information and Communication Security Guideline

#### EPDK/EMRA – Corporate CERT

- Since 2013
- Defines mostly IT infrastructure
- Setting up a team
- Setting up and Running SOC
- Assessments
- Trainings
- Incident Handling & Response
- Annual Activity Report

#### EPDK/EMRA- Standard Compliance

- Since 2013, Updated 2016
- Started with IT, moved to OT
- Includes ISO 27001 compliance, ISO 27019 Guidance

### EPDK/EMRA- Asset and Risk Inventory

- Since 2017
- IT and OT Focus (Mostly OT)
- Annual inventory activity
- Regulation defines a specific form to complete inventory
- Each company stores its own inventory

#### EPDK/EMRA- Penetration Testing and Security Audits

- Since 2019
- OT focus security assessments
- Regulation defines;
  - Architecture and configuration analysis
  - Social engineering
  - Vulnerability Detection & Exploitation
  - Wireless Assessment (ICS)
  - Malware and Anomaly Detection
- Company and personnel competence
- 3 year time period or after change tests should be done

#### Digital Transformation Office Guideline

- Since July 2020
- 2 years period to be compliant
- IT + OT Security Controls (Mostly IT)
- Critical Public Services and Critical Infrastructure Operators
- Critical Infrastructure: Energy + Communication



### **Other Developments**

### Critical Infrastructures National Testbed Center















https://center.sakarya.edu.tr/

# Critical Infrastructures National Testbed Center



https://center.sakarya.edu.tr/

### Turkish Cyber Security Cluster

- Since 2017
- Supported by Presidency of Defense Industries
- Public, private companies and academia
- International ve national events & coordination
- 200+ Member

https://siberkume.org.tr/

#### Ecosystem and Community Activities

- ICS Cybersecurity Conference
- ICS & IoT Student BootCamp
- CENTER SAU Internship Program
- HackZeugma (ICS CTF)
- Online/Inperson Meetups





### R&D Activities in ICS Security

- Several programs to support individuals and corporate companies
  - Presidency of Defense Industries
  - The Scientific and Technological Research Council of Turkey
  - And more
- Cybersecurity and ICS Cybersecurity (priority)
- R&D activities encouraged by National Cybersecurity strategy



- Cybersecurity is a major concern for all level of interested parties
- Cybersecurity and industrial cybersecurity regulations increasing in Turkey
- Expected to see;
  - more CIs will be regulated
  - ICS Cybersecurity maturity model
  - ICS focus national exercices



#### **THANK YOU**

#### **İSTANBUL**

Nida Kule Plaza, Kozyatağı Mah. Değirmen Sok. No:18 Kat:19 34742 Kozyatağı, Kadıköy, İstanbul +90 216 688 8182

#### ANKARA

ODTÜ Teknokent İkizler Binası Üniversiteler Mah. İhsan Doğramacı Bulvarı No:35 B Blok Kat:106800 Çankaya / Ankara +90 312 210 1177

#### DUBAI

SECURRENT ME FZ LLC 214, Building 12, DIC 502318, UAE - Dubai +9 9714 390 16 46-49

#### AMSTERDAM

Penetra Cyber Security Strawinskylaan 411 1077XX Amsterdam The Netherlands +31(0)70-2045180