
Digital Life and Cyber Security

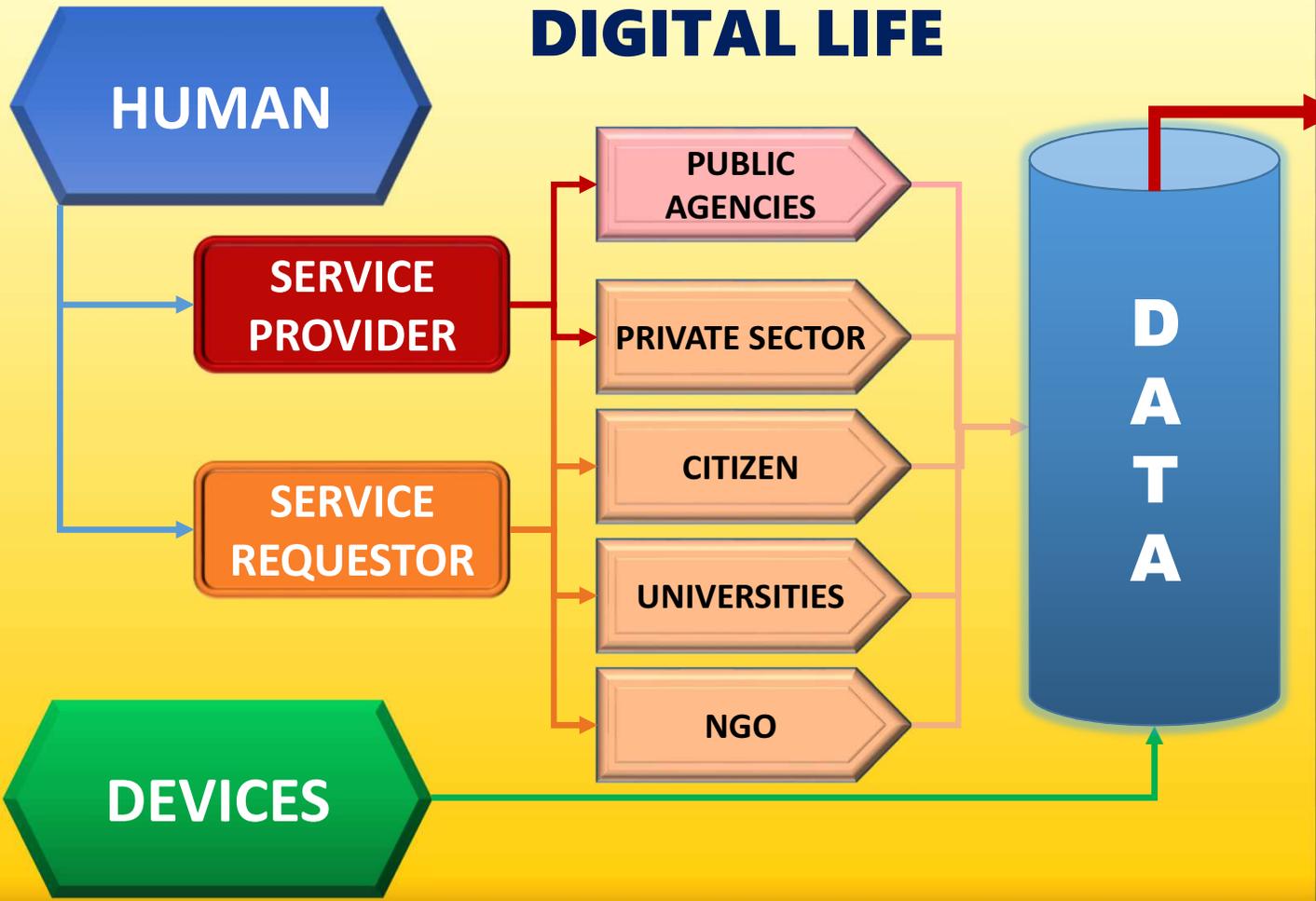
«Public-Private Governance»



Mustafa AFYONLUOGLU
Cyber Security & e-Governance Chief Expert

March 7th 2017

DIGITAL LIFE



SECURITY



POWER

ISAF *exclusive*

Digital Life & Cyber Security: «Public-Private Governance»

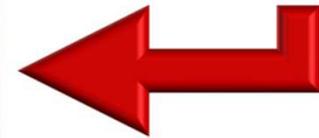
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SECURITY



POWER

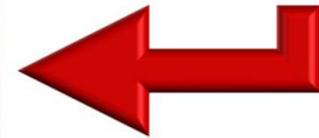




SECURITY



POWER



PUBLIC SECTOR & PRIVATE SECTOR
LIKE TWO WINGS OF A BIRD...
... IN HARMONY !



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07.03.2017

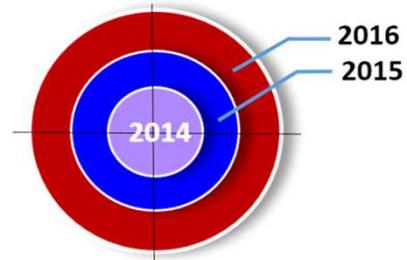
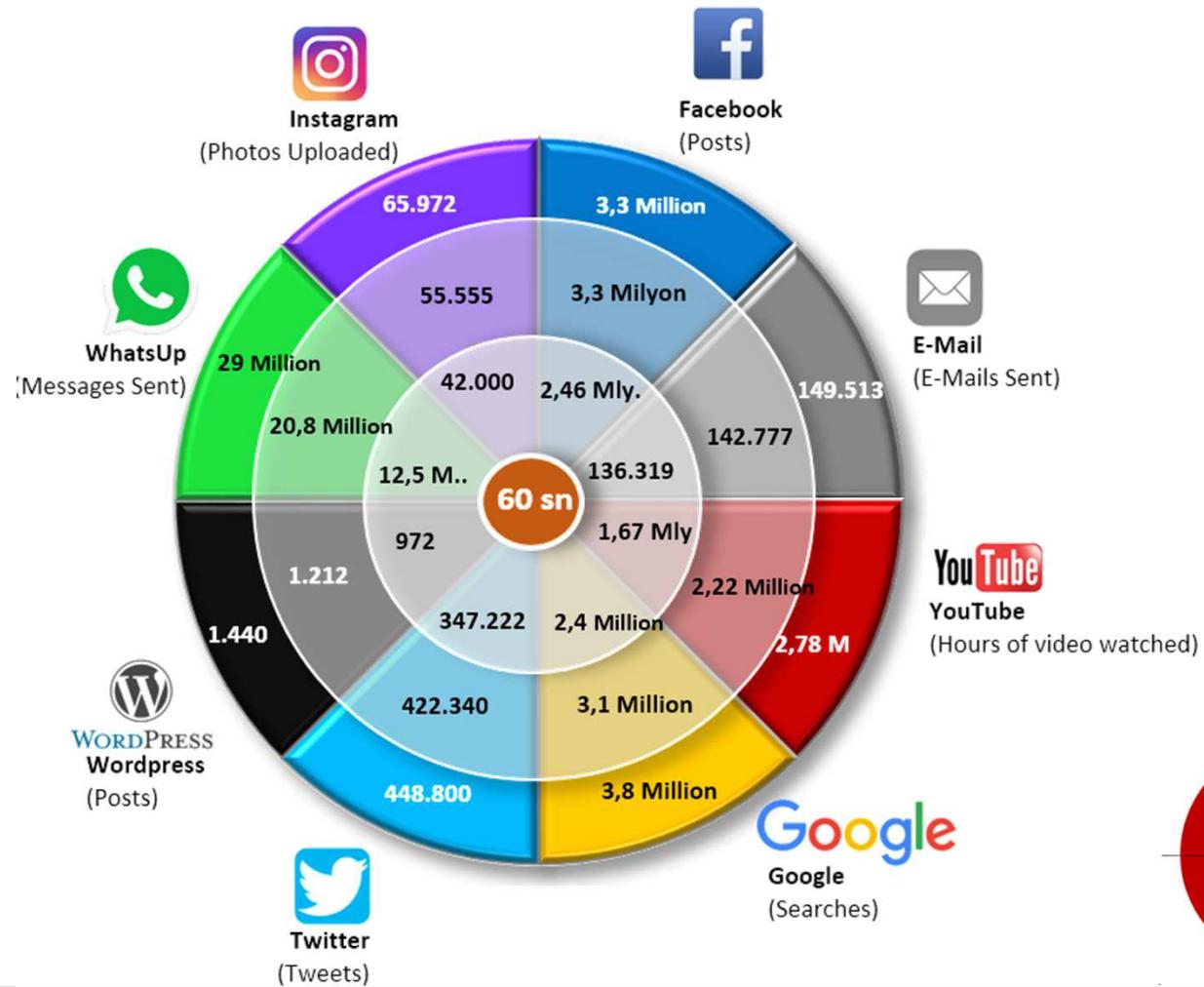
Mustafa AFYONLUOGLU (afyonluoglu [at] gmail.com)

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March 7th, 2017 - Ankara

What happens on the internet for 60 seconds?

(February 2017)



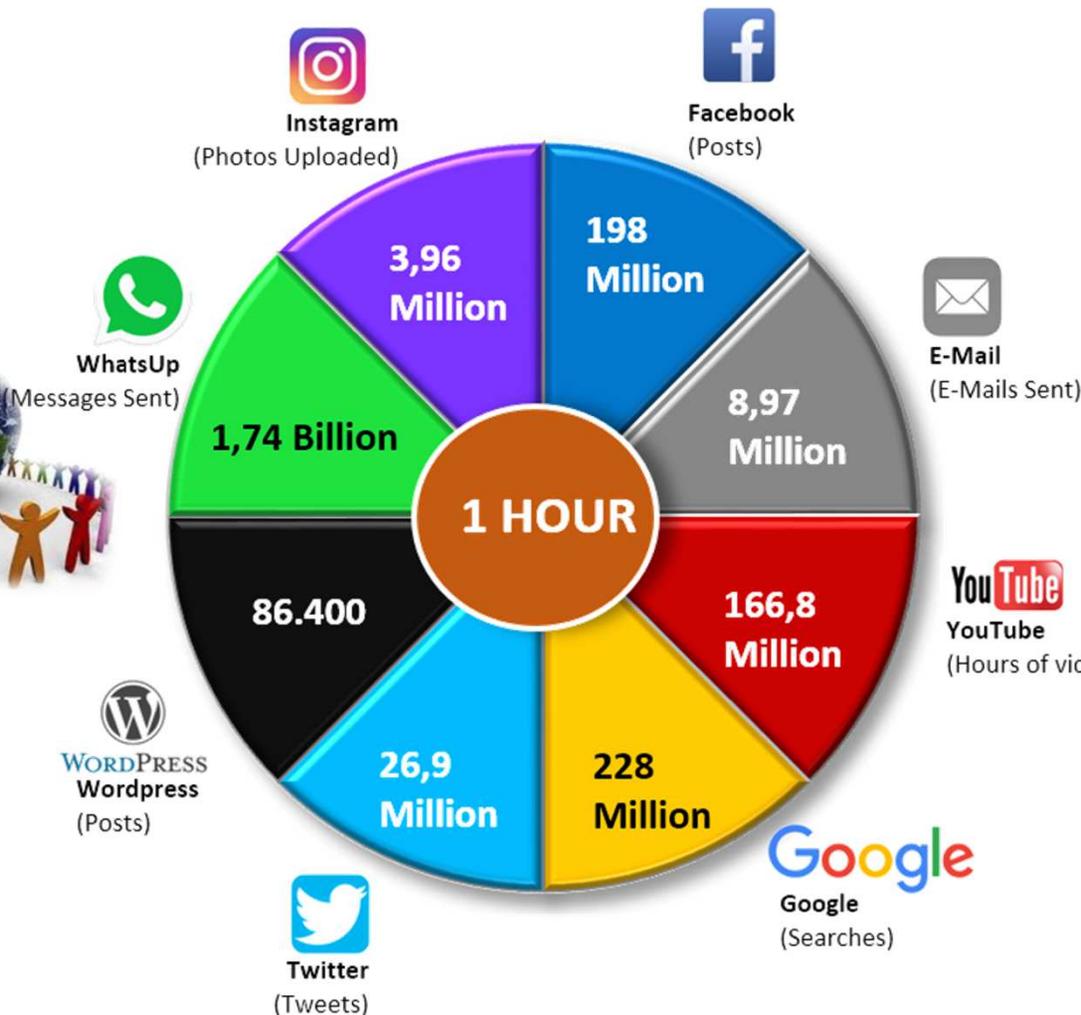
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<http://www.smartinsights.com/internet-marketing-statistics/happens-online-60-seconds/>

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What happens on the internet for 1 Hour ? (February 2017)



272



<http://www.smartinsights.com/internet-marketing-statistics/happens-online-60-seconds/>

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Internet Connected Devices

Internet of Things



2016 Symantec Internet Security Threat Report,, Gartner IoT Report 10 Kasim 2015

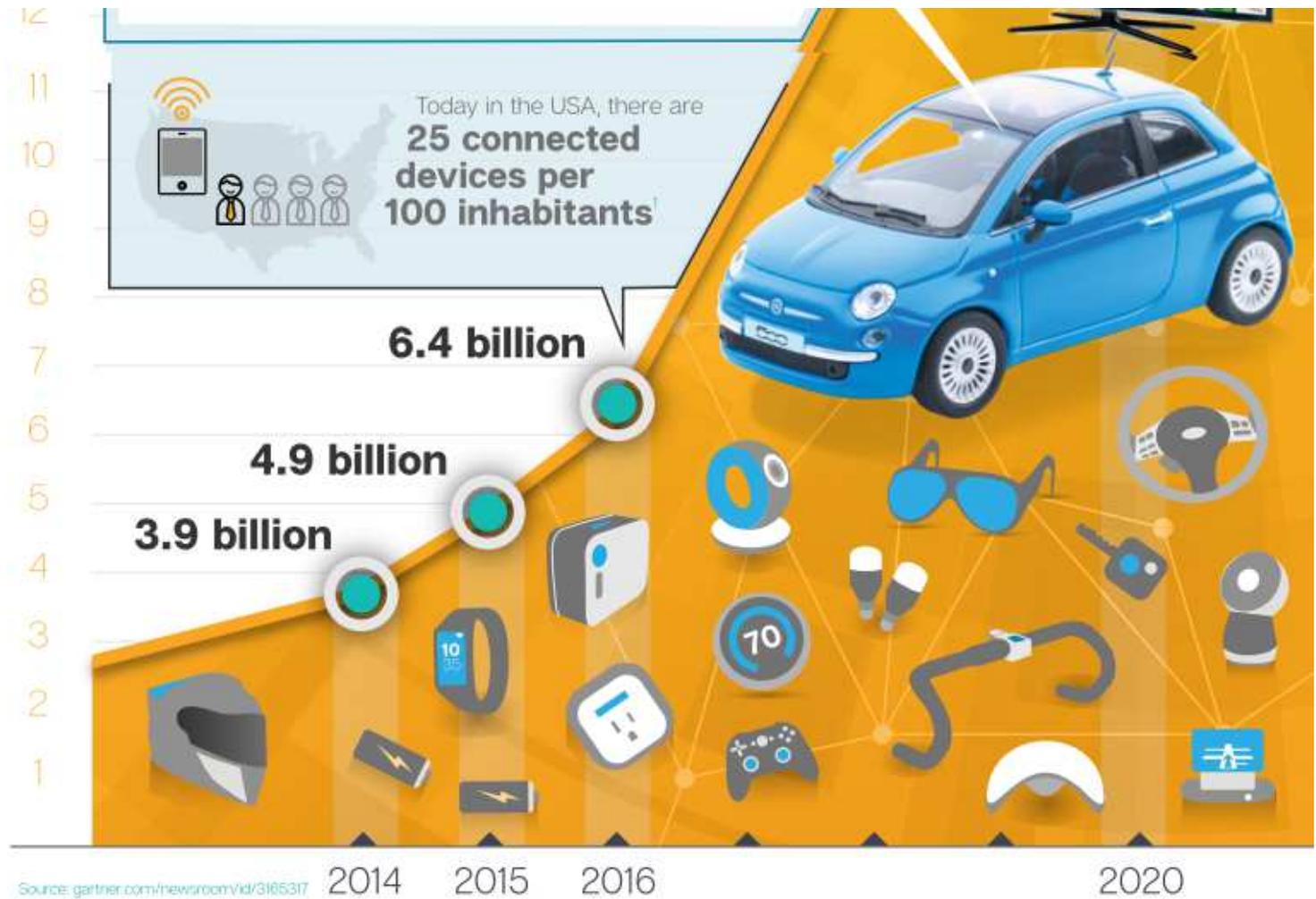


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Internet Connected Devices

Internet of Things



Source: gartner.com/newsroom/Vid/3185317

2016 Symantec Internet Security Threat Report, Gartner IoT Report 10 Kasım 2015



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Internet Connected Devices

Internet of Things



Expected Economical Size in IoT
2 Trillion Dollars

Source: gartner.com/newsroom/Vid/3185317 2014 2015 2016 2020

2016 Symantec Internet Security Threat Report, Gartner IoT Report 10 Kasım 2015

Internet Connected Devices

Internet of Things

Internet-connected things

20.8 billion¹
(predicted)

20 ◀ Numbers in billions

The insecurity of things

Medical devices. Researchers have found potentially deadly vulnerabilities in dozens of devices such as insulin pumps and implantable defibrillators.

Smart TVs. Hundreds of millions of Internet-connected TVs are potentially vulnerable to click fraud, botnets, data theft and even ransomware, according to Symantec research.

Cars. Fiat Chrysler recalled 1.4 million vehicles after researchers demonstrated a proof-of-concept attack where they managed to take control of the vehicle remotely. In the UK, thieves hacked keyless entry systems to steal cars.

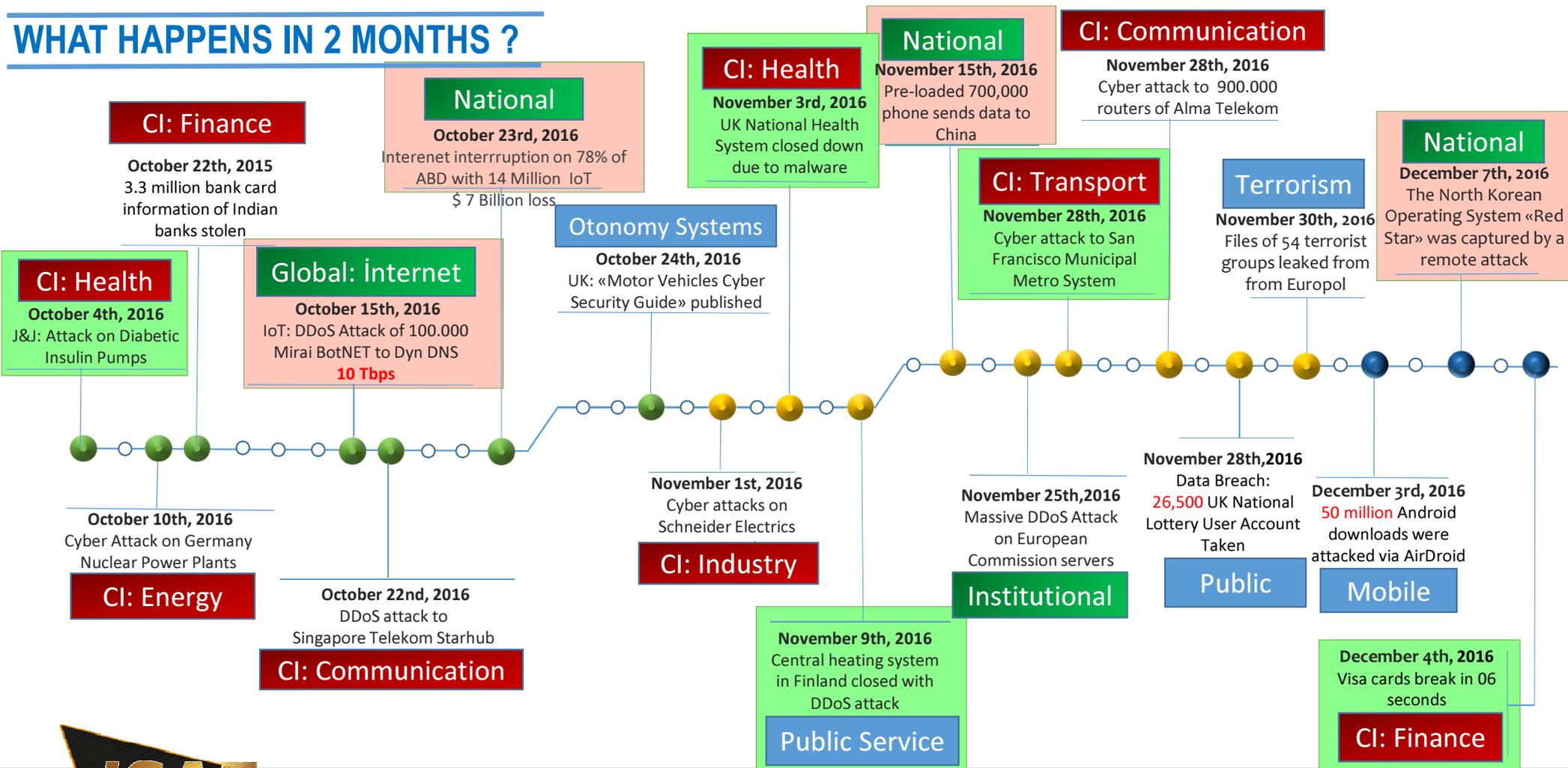
Today in the USA, there are
25 connected

ISAF exclus

2016 Symantec Internet Security Threat

nce»
kara

WHAT HAPPENS IN 2 MONTHS ?

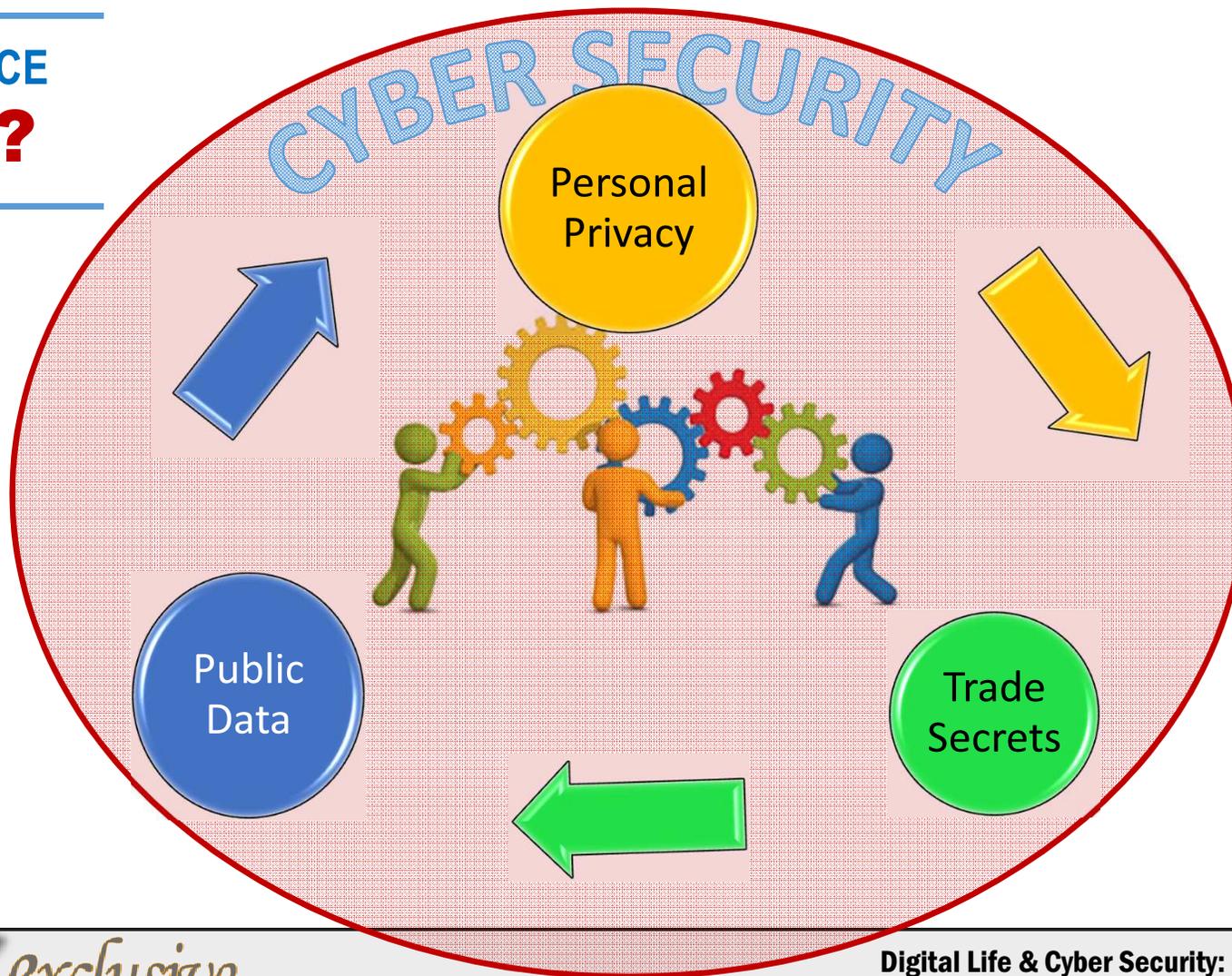




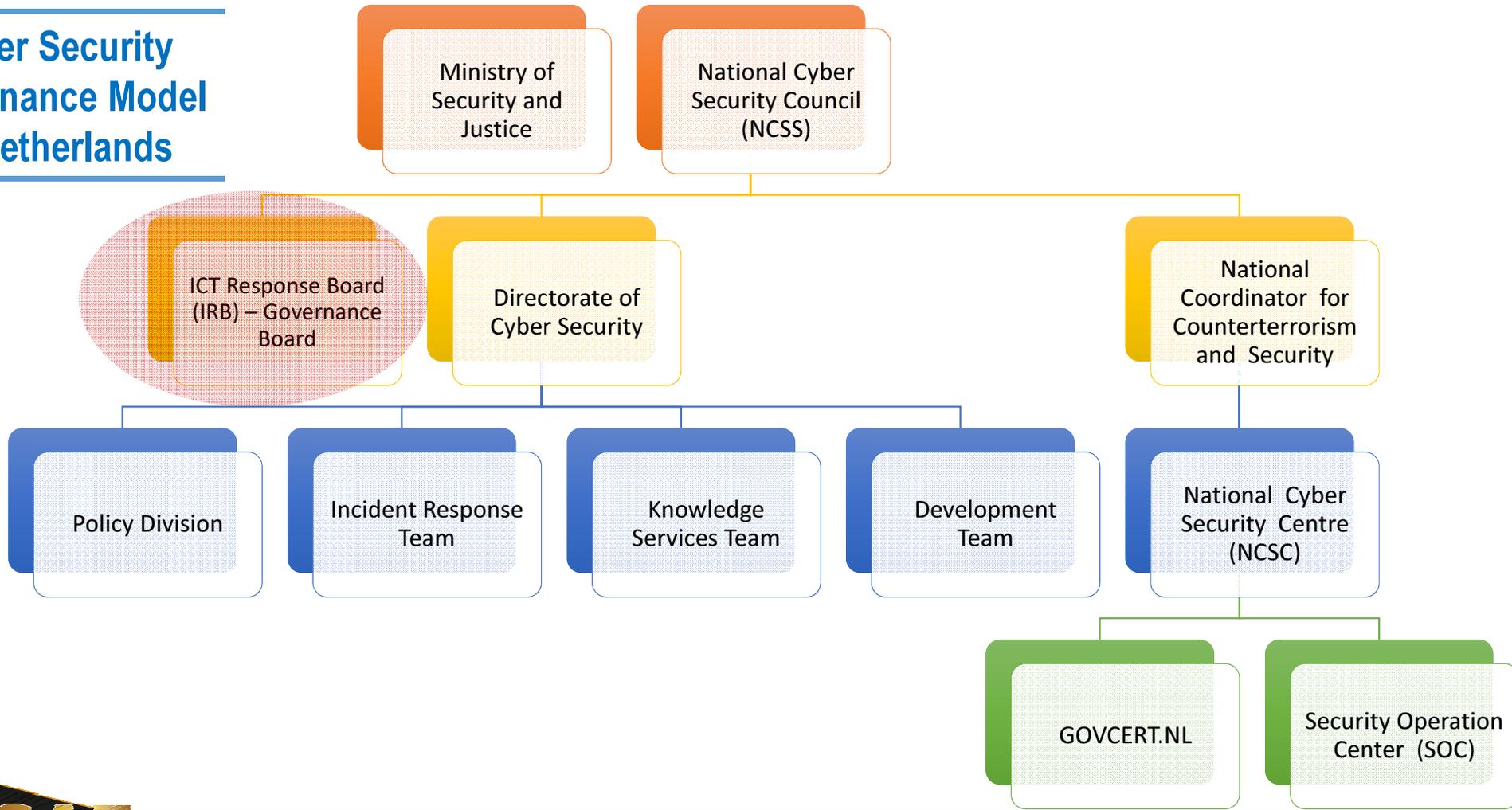
NORTH ATLANTIC TREATY ORGANIZATION

- **February 2016:** The Technical Arrangement on cooperation in cyber defense with the European Union was signed.
- **July 2016:** Cyber Space is the 5th operational area after Land, Air, Sea and Space.
- **December 2016:** Cyber defense is one of NATO's key tasks in the field of collective defense.
- International law should also be applied to the cyber field.
- NATO will develop cyber training and exercise skills.

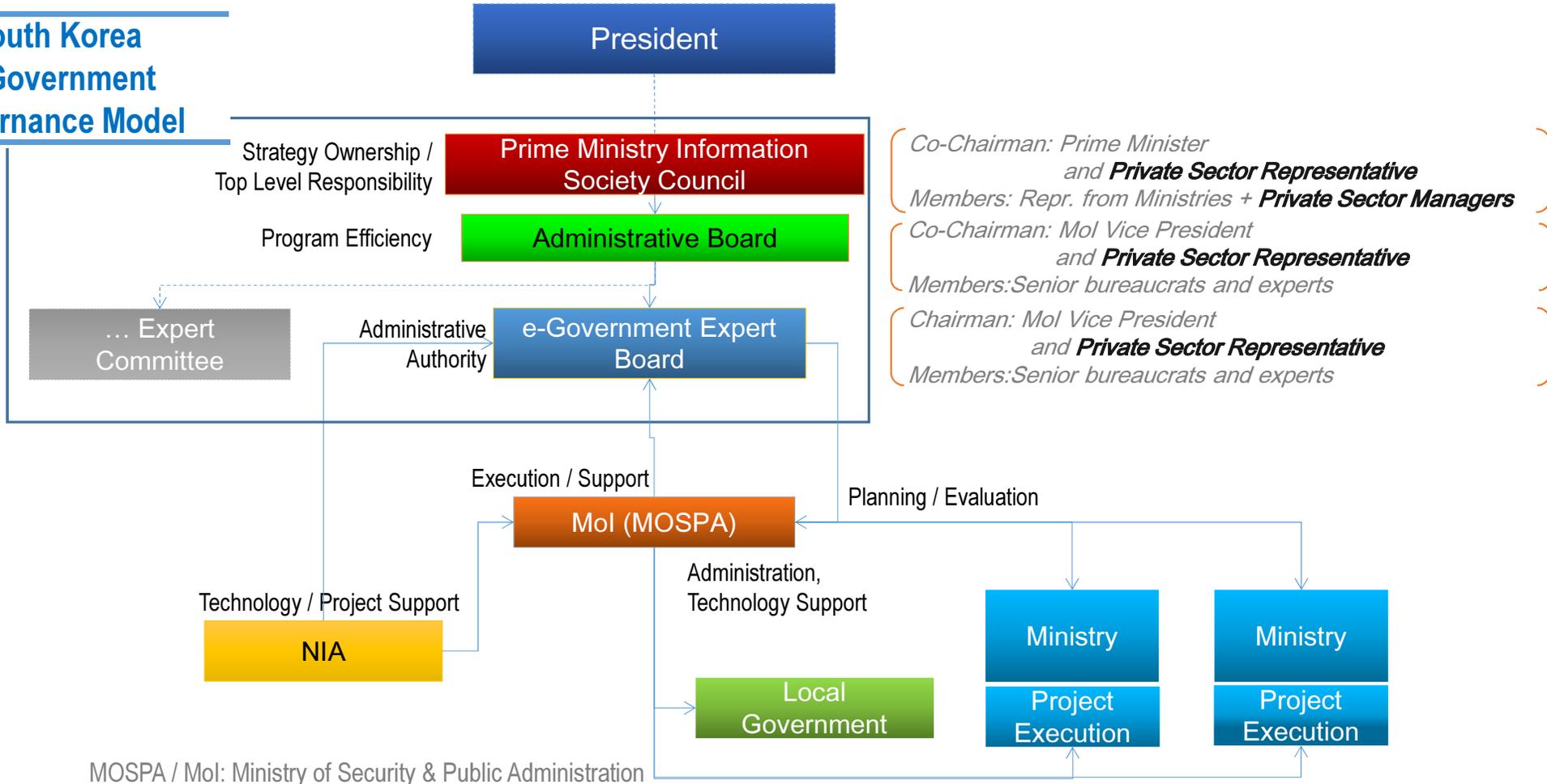
GOVERNANCE
HOW ?



Syber Security Governance Model of Netherlands



South Korea E-Government Governance Model



MOSPA / MoI: Ministry of Security & Public Administration
NIA: National Information Society Agency



South Korea E-Government Governance Model

President

Strategy Ownership /
Top Level Responsibility

Prime Ministry Information
Society Council

Co-Chairman: *Prime Minister*
and *Private Sector Representative*
Members: Repr. from Ministries + *Private Sector Managers*

Co-Chairman: *Mol Vice President*
and *Private Sector Representative*
Members: Senior bureaucrats and experts

Chairman: *Mol Vice President*
and *Private Sector Representative*
Members: Senior bureaucrats and experts

Program Efficiency

Administrative Board

Expert
Committee

Administrative
Authority

e-Government Expert
Board

Execution / Support

MoI (MOSPA)

Planning / Evaluation

Technology / Project Support

NIA

Administration,
Technology Support

Local
Government

Ministry

Project
Execution

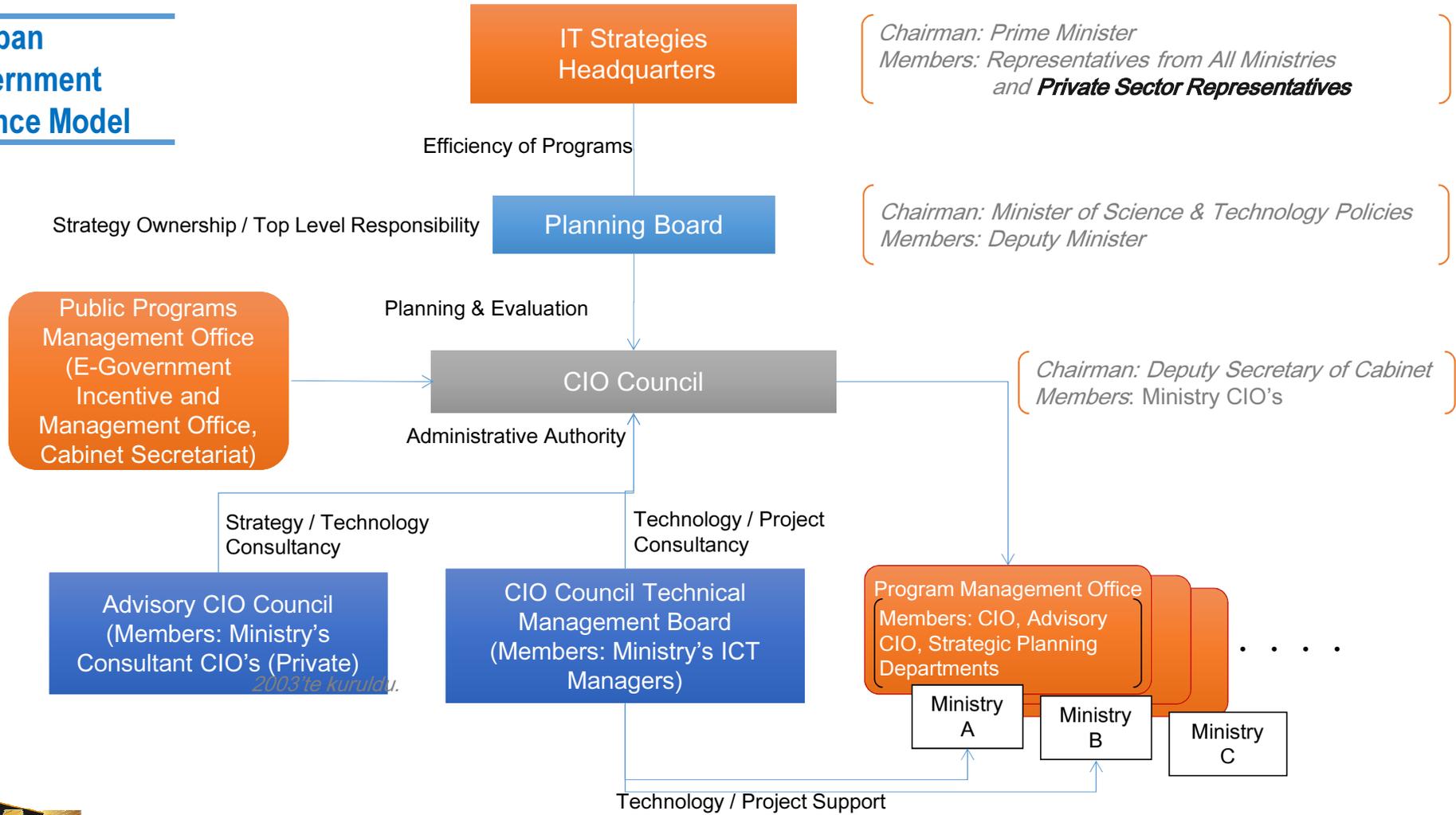
Ministry

Project
Execution

MOSPA / MoI: Ministry of Security & Public Administration
NIA: National Information Society Agency



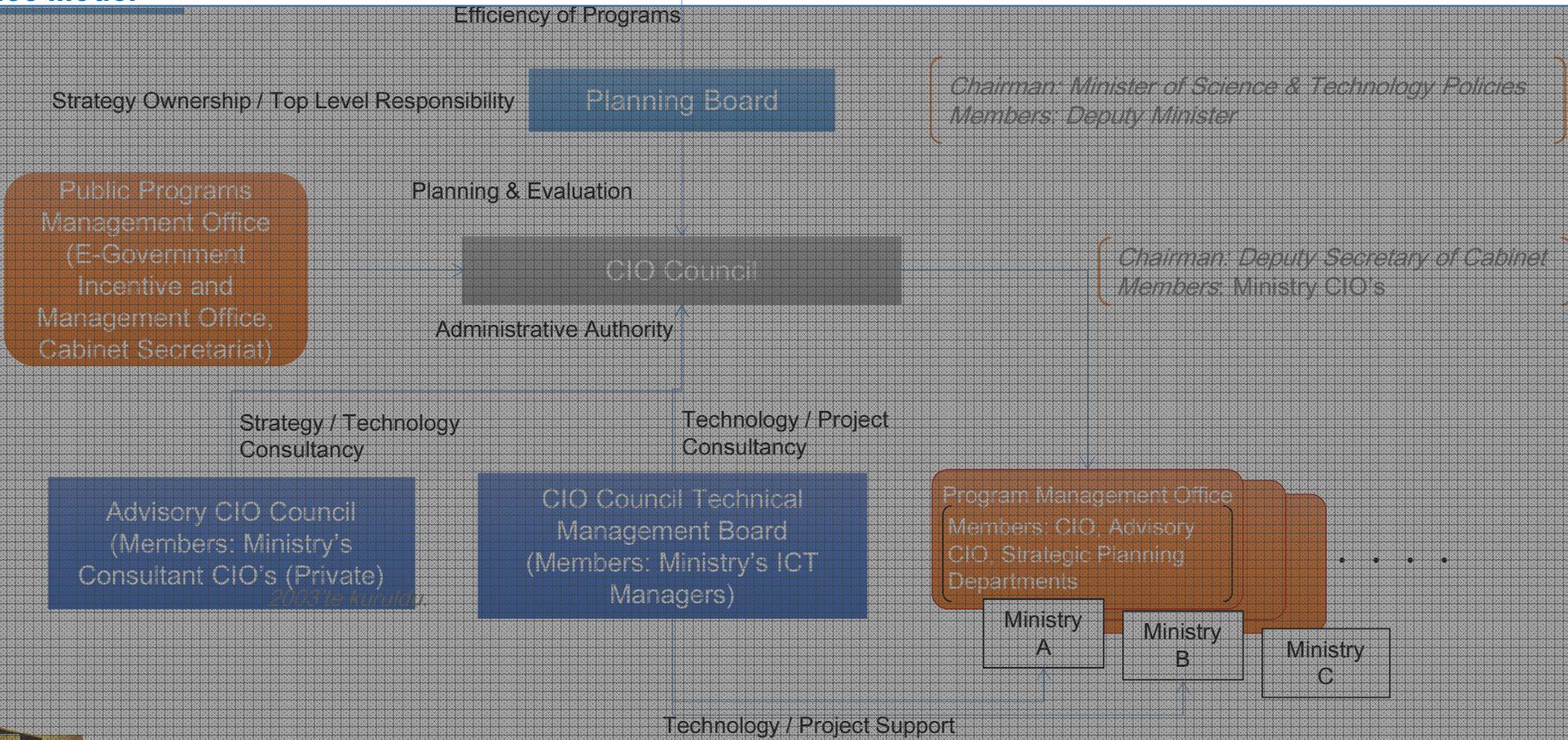
Japan E-Government Governance Model



Japan E-Government Governance Model

IT Strategies
Headquarters

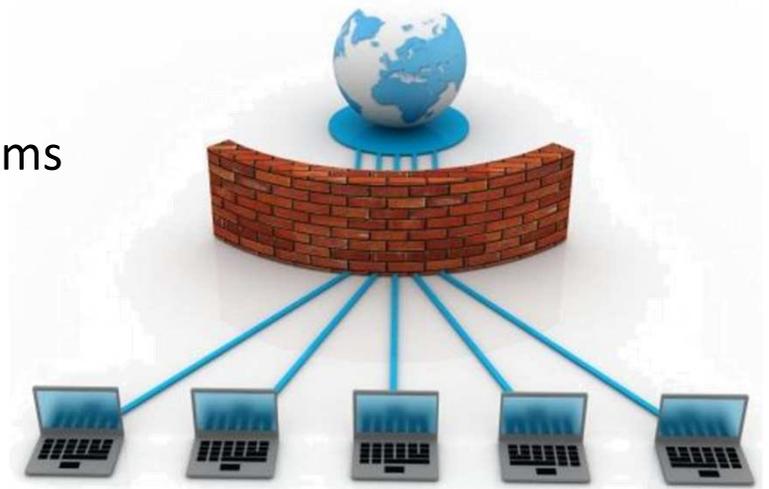
Chairman: *Prime Minister*
Members: *Representatives from All Ministries*
and *Private Sector Representatives*



SUGGESTIONS

1. **Cyber Security** and **e-government** should be coordinated from top level in **ONE CENTER**
2. In this Center, there should be **Public-Private Governance Board**
3. **National Cyber Security Policy** and **Prioritized Sectoral Areas** should be prepared
 - National Solutions in «Perimeter Security» Layer:
 - National Firewall
 - National Intrusion Detection & Prevention systems
 - National Web Filtering
 - National Anti-virus Solutions

National “Cyber Threat Intelligence” Bank



SUGGESTIONS

4. Government should Support private sector, while developing **Sectoral Capacity**
 - * Definitions of Cyber Security, Data Security and e-Government **Expertizes / Professions**
 - * **Software Development** and **Cyber Security** Education Programs from Primary School to Universities
 - * Preparation of **HR Capacity Developing Programs** for private sector
 - * **Innovation** Incentives in prioritized areas
5. The government should be beside the sector in creating the **regional and global power** of the sector
6. Special incentives for the sector targeted to **grow in the region** (financial and administrative)

SUGGESTIONS

7. Use of **NATIONAL PRODUCTS** without exception as a **National Policy** in the public sector

«WE WILL USE FIRST !»

Dissemination Policy in Public Sector:

- «**Company Rating**» in public procurement with accreditation and certification
- Promotion Model: **R&D** → For successful results «**Production Support**» → Pilot Applications → Support & Development Infrastructure → Positioning in Public
- Current products in the first layer, **National Products** in the second layer
- After transition and maturity, national products in all layers
- At least two **National Solution Policy** in each segment
- **Regional Dissemination**

Digital Life and Cyber Security

«Public-Private Governance»

THANK YOU

Days of harmony



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