

AGENDA

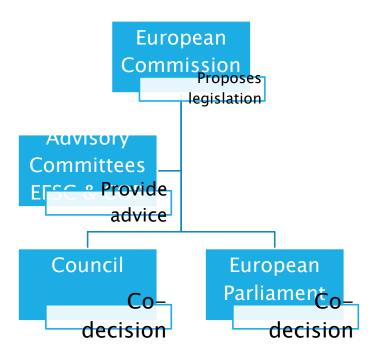
- Background
- 2. IT and Digital Strategy
- 3. Cybersecurity and the Threat Landscape
- 4. Conclusions and Bibliography

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BACKGROUND

- "The European Parliament, the Council and the Commission shall be assisted by an Economic and Social Committee and a Committee of the Regions acting in an advisory capacity." Treaty on European Union, Article 13
- 2. The European Economic and Social Committee (EESC) ensures that civil society organisations have a say in Europe's development
- 3. The European Committee of the Regions (CoR) represents local and regional authorities across the European Union and advises on new laws that have an impact on regions and cities (70% of all EU legislation).



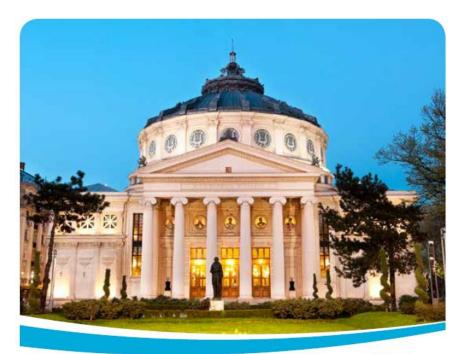
Decisions



Opinions









Activitățile **CESE** în timpul **Președinției române**

lanuarie – iunie 2019









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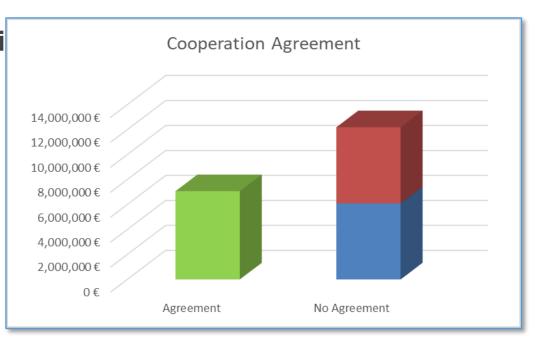
IT AT THE COMMITTEES

- 1. IT is a service shared by the EESC and the COR
- 2. Governed by a Cooperation Agreement
- 3. Common objectives and challenges:
 - ✓ High quality of service
 - ✓ Fair & balanced approach
 - Proactive
 - √ Financial efficiency
 - ✓ Sustainable
 - Accountability & transparency
 - ✓ Well being at work



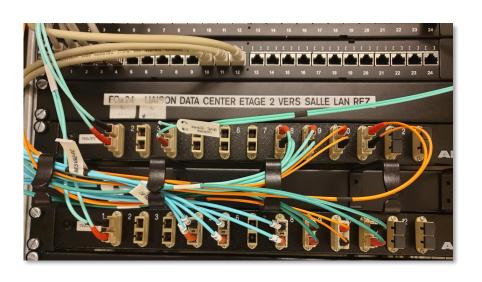
IT SYNERGIES

- ✓ Annual IT budget of some 7M€ = 3% of total budget
- Estimated annual savings of some 40% percent
- ✓ In addition to savings due to general interinstitutional cooperation including IT securi



IN PRACTICE

- 1. In practical terms, IT:
 - ✓ Develops & maintains information systems
 - ✓ Runs the data centre
 - ✓ Operates the data & voice network
 - Manages IT security
 - ✓ Supports users & solves their problems



DIGITAL STRATEGY

- 1. General Framework
 - Principles behind the vision (digital by default, security & privacy ...)
 - > **Digital workplace** (devices, office automation, mail and calendars)
 - Strengthening Cybersecurity
- 2. Strategic projects
 - Focus on filling gaps in the political domain
- 3. Enablers
 - Governance, Budget & Digital Skills

DIGITAL STRATEGY PRINCIPLES

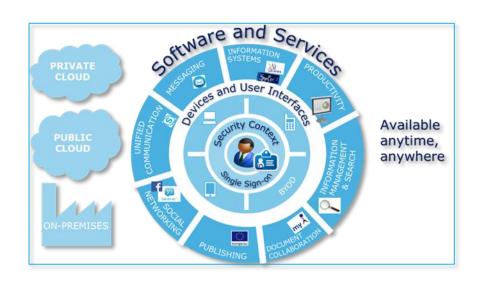
The underlying principles supporting the Digital Strategies of the European Institutions are based on those of the EU e-Government Action Plan, the European Interoperability Framework (EIF) and the Tallinn Declaration:

- a. Digital by Default & Once Only
- b. Openness & Transparency
- c. Interoperability & Cross-border
- d. Security & Privacy
- e. User-driven, Data-centric and Agile design

DIGITAL WORKPLACE PRINCIPLES

Digital Workplace

... Deploy a 'Secure-By-Design' infrastructure ... advanced security measures will be embedded within the design of the Digital Workplace components, achieving a quantum leap in our security posture ...



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STRENGTHENING CYBERSECURITY

IT Security deliverables within the Digital Strategy:

- Establish a very solid security baseline
- ✓ Increase detection and response capabilities
- ✓ Adopt a risk-based approach
- ✓ Keep IT Security within the scope of IT Governance
- ✓ Increase endpoint security
- ✓ Train and raise awareness among users
- ✓ Pursue cooperation with CERT-EU (*)
- ✓ Maintain, and regularly test, the recovery plan



SECURITY BASELINE

- Constant attention to maintain the security baseline at a high level
- √ The objective is to prevent a high percentage of cyber attacks

ADIVII N

Manage administrato r privileges

IST

Application Whitelisting

APPS

Patch Applications

OIOIL

M

Patch Systems

OLOIVIL

NT

Network
Segmentatio
n &
Segregation

MORE

Testing, secure development

e-mail, web traffic ...

MITIGATION BASIC CYBER HYGIENE "US-CERT Top 5"



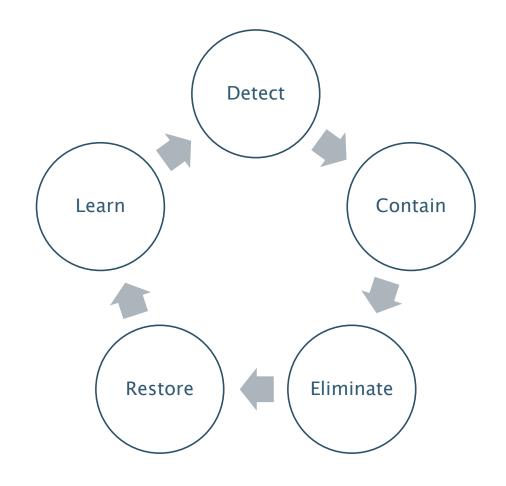
Basic cyber hygiene would prevent approximately 85% of the security breaches security practitioners deal with today.



From "Best Practices & Common Missteps in Responding to Major Incidents",

INCREASE DETECTION AND RESPONSE CAP

- ✓ Use a wide range of tools for detection including actionable alerts from CERT-EU,
- Centralised security log-file management & incident management procedure,
- ✓ The objective is to be able to detect advanced cyberattacks in a timely manner.



ADOPT A RISK BASED APPROACH

- ✓ Annual risk assessment + continuous reporting prepared by IT Security Officer,
- Security plans prepared with Business Owners,
- ✓ Need to prepare for cloud deployments (later GovSec Cloud),

✓ The objective is the ongoing adoption of Risk Management best

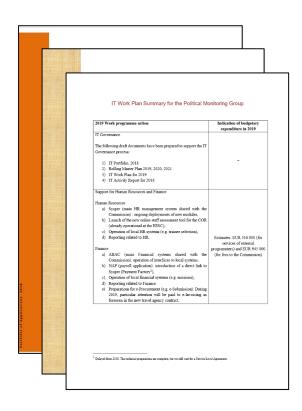
IT Risk Table 2019

practices.

#	IT Asset	Threat-Source	Impact	Existing controls	Probability	Risk	Further
						Level	Controls/Comments
1	Workstations (Browsers, Office Software etc)	Unauthorized external users (e.g. ,hackers) get access to user's workstation and install malicious software	Medium	Browser security settings, Antivirus, Antispyware, Workstation patching	Medium	Low	

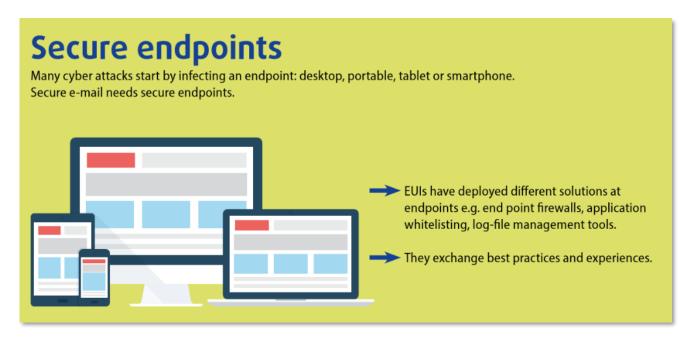
GOVERNANCE

- ✓ IT Steering Committees decide on planning, resources & priorities
- ✓ IT Security is part of this process (assessment of the threat landscape, follow-up of previous work plan and adoption of the current work plan)
- ✓ The objective is to leverage the existing structure and to keep IT Security within the scope of IT Governance



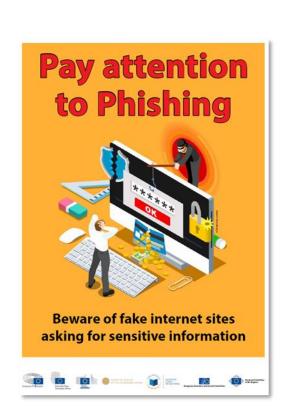
IMPROVE ENDPOINT SECURITY

- ✓ Ongoing rollout of new security features as part of the "one PC" programme
- ✓ VPN with one-time passwords for remote connections
- ✓ Advanced threat protection and MFA depending on the risk



AWARENESS RAISING

- ✓ Communicate regularly on IT security topics
- ✓ Organise practical events and exercises
- ✓ Good cooperation in this domain based on:
 - Content (benchmarking, coordinating campaigns) &
 - Channels(sharing, speaker panels and joint activities)
- ✓ The objective is to be practical & to measure progress.





COOPERATION

The Committees benefit from the services of CERT–EU:

- ✓ Value-added services e.g. external vulnerability scanning and penetration testing,
- ✓ Opportunity to participate in innovative projects e.g. threat hunting project,
- ✓ Broader cooperation horizons e.g. participation in cyber exercises and coordinated response to major incidents,
- ✓ The objective is to maintain & deepen this cooperation.

computer emergency SERT-EU for the EU institutions, bodies and agencies

Services

- 1. Announcements & advisories
- 2. Alerts & warnings
- 3. Incident response support & coordination
- 4. Cyber threat intelligence
- 5. Incident response & analysis on site
- 6. Artefact analysis & actions
- 7. Development of security tools
- 8. Intrusion detection & log management
- 9. Vulnerability assessment & pen testing

RECOVERY PLAN

The Committees have an established Business Continuity Plan:

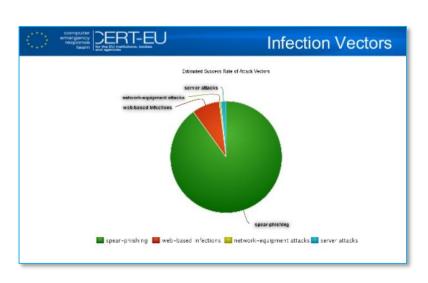
- ✓ To ensure "critical and essential functions" during crises,
- ✓ To return to "business as usual" as quickly as possible,
- Under the responsibility of a Crisis Management Team,
- ✓ The objective is to work closely with the Crisis Management Team.



THREAT LANDSCAPE

The Committees use the threat awareness material from CERT-EU:

- ✓ Operational (e.g. Incident Reports, Advisories, Feeds)
- ✓ Tactical (e.g. TTPs, Ongoing campaigns, Whitepapers based on incidents)
- ✓ Strategic (e.g. Security Brief, Threat Landscape),
- ✓ Including early warning capacities.



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CONCLUSIONS

Digital Strategies reinforce cybersecurity by:

- Setting objectives to continuously improve security position while,
- ✓ Taking into account the **Threat Landscape** &
- ✓ Fostering a **Shared Responsibility** approach.

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