

# Cybersecurity education at secondary schools in the Czech Republic

Network Security Monitoring Cluster  
Masaryk University

# Who is NSMC?

2010



MU  
VUT  
T-SOFT



TECH

Flowmon  
Networks  
Novicom  
AXENTA



Sova Net  
AGORA  
Unis Computers

MKT

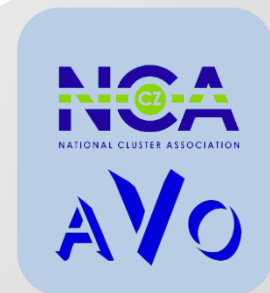


GDPR

25th of May

2018

AXENTA  
ELAT  
SODAT SW  
MU



## IMPLEMENTATION

- ANALYSIS
- FEASIBILITY STUDIES
- RISK ANALYSIS
- IMPLEMENTATION POLICIES AND PRINCIPLES BASED ON ISO 27k
  - ORGANIZATIONAL AND TECHNICAL MEASURES
- PENETRATION TESTING



## EDUCATION

- CYBERSECURITY EDUCATIONS PROGRAMS FOR IT AND OTHERS
- SPECIAL COURSE FOR SECONDARY SCHOOLS (HEADMASTERS AND TEACHERS)
- CYBERSECURITY EDUCATION PROGRAM FOR SECONDARY SCHOOLS (PILOT PROJECT)

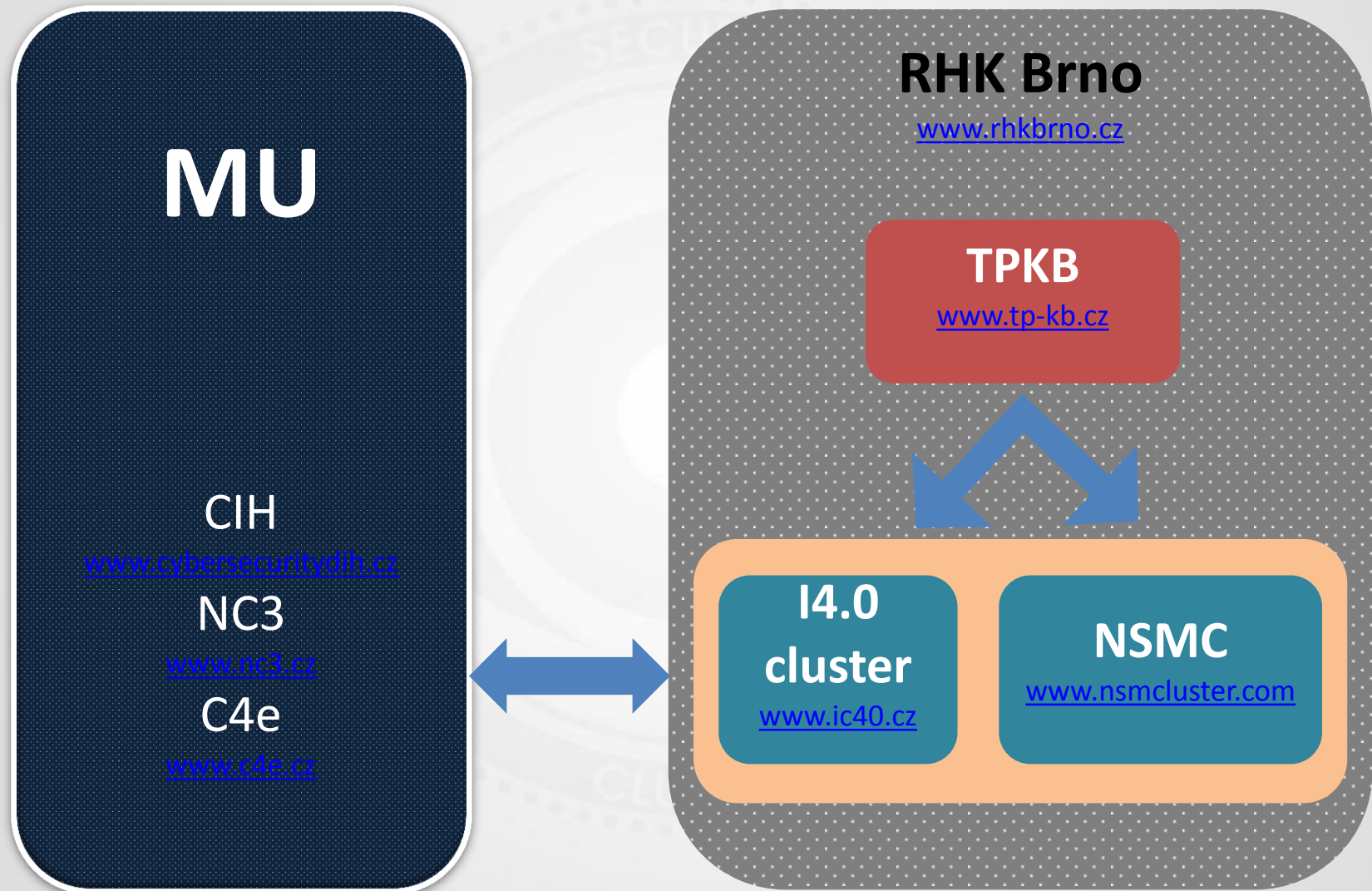


## ADVISORY SERVICES

- FOR COMPANIES AND GOVERNMENT INSTITUTIONS



# NSMC and it's role



# Why cybersecurity education?



Cyberspace



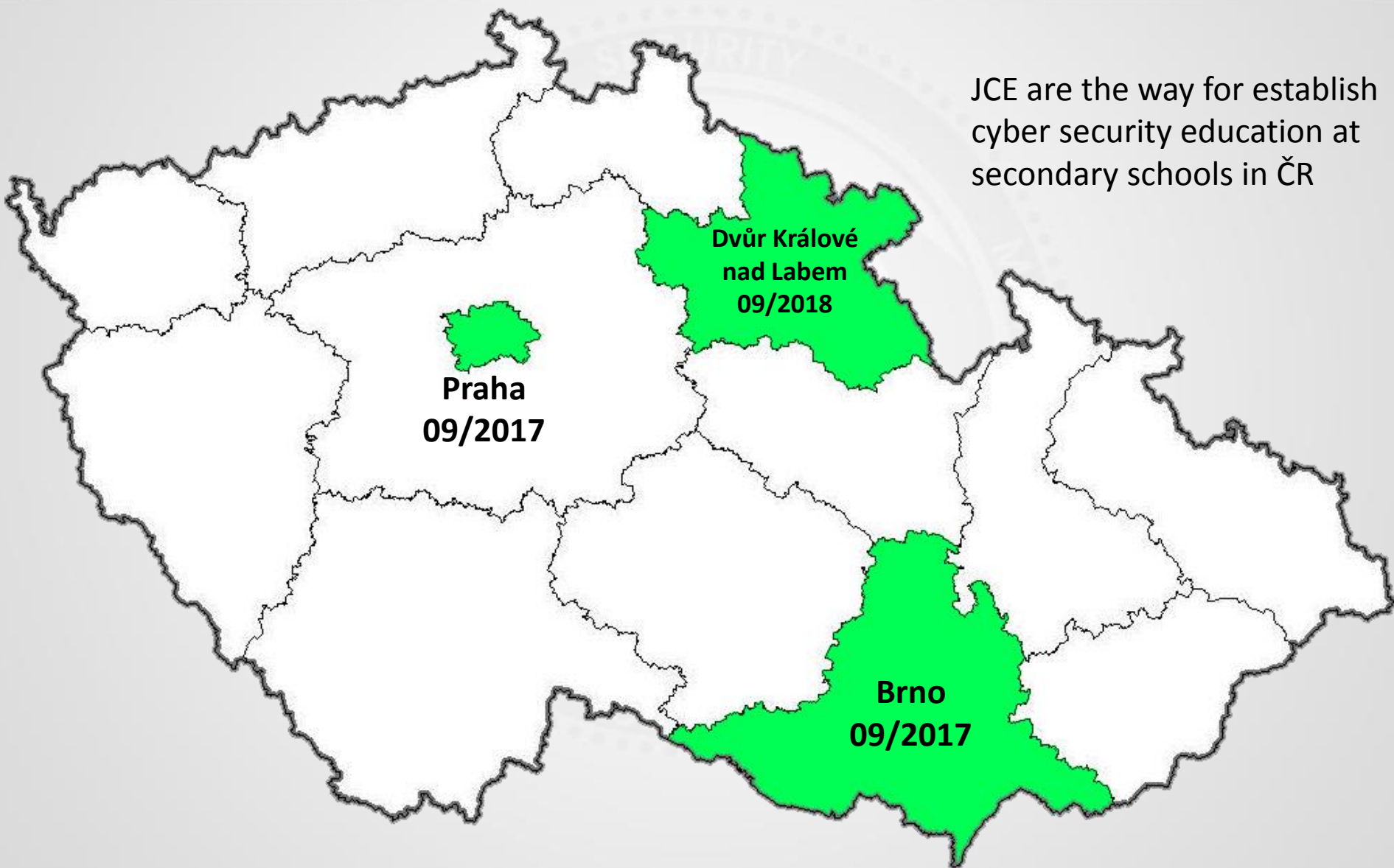
Legislation,  
standards




Clear communication  
and a common  
understanding  
of cybersecurity defini-  
tions




JCE are the way for establish  
cyber security education at  
secondary schools in ČR



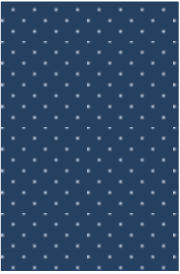
# What can JCE provide in its region?




Methodics for implementation  
cybersecurity in secondary  
schools




Education and evangelization  
in cyber security for pupils and  
public



Cyber laboratory



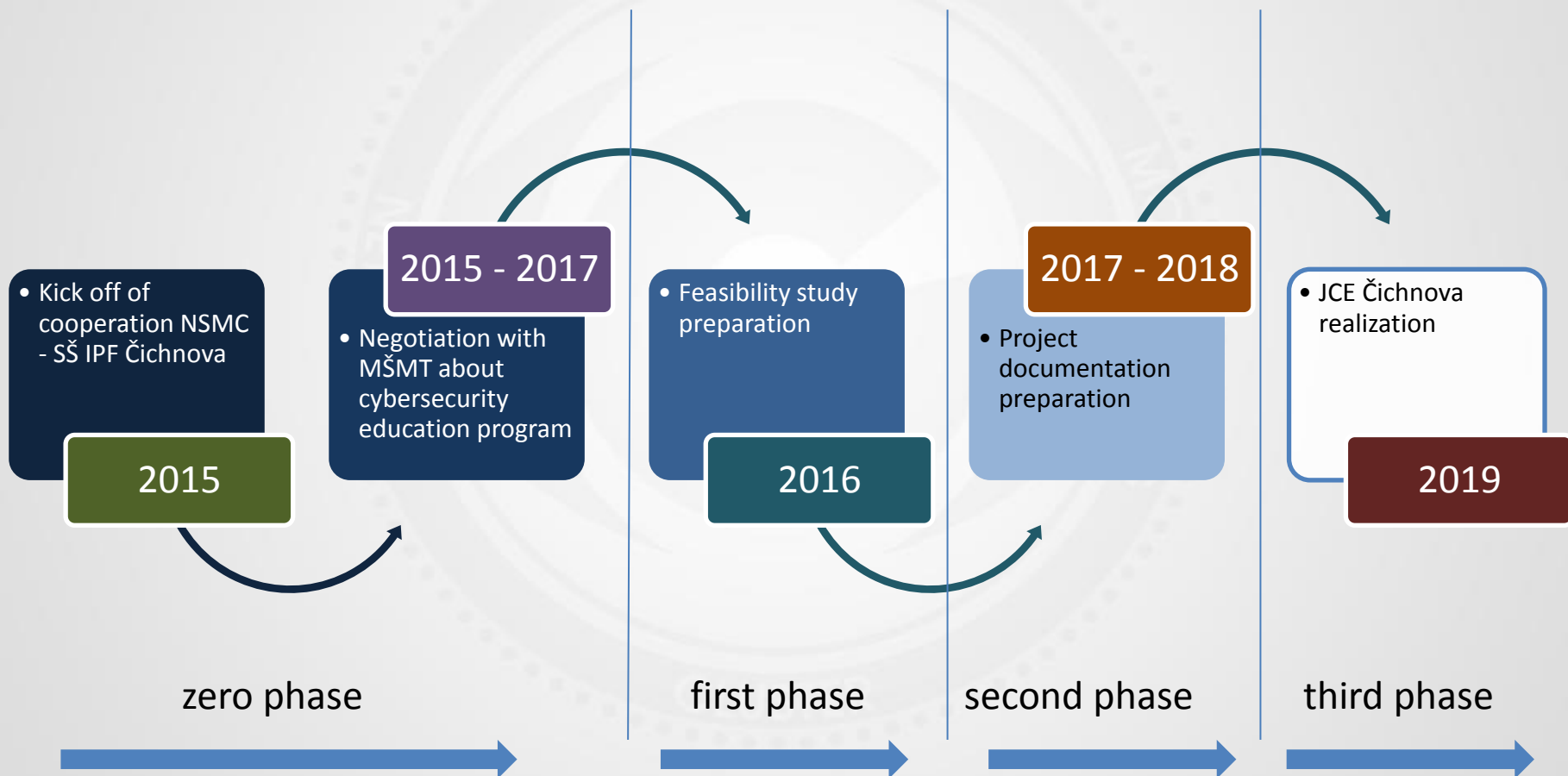
Conferences and  
videoconferences



Cyber security competitions  
and exercises



# JCE Čichnova - standard



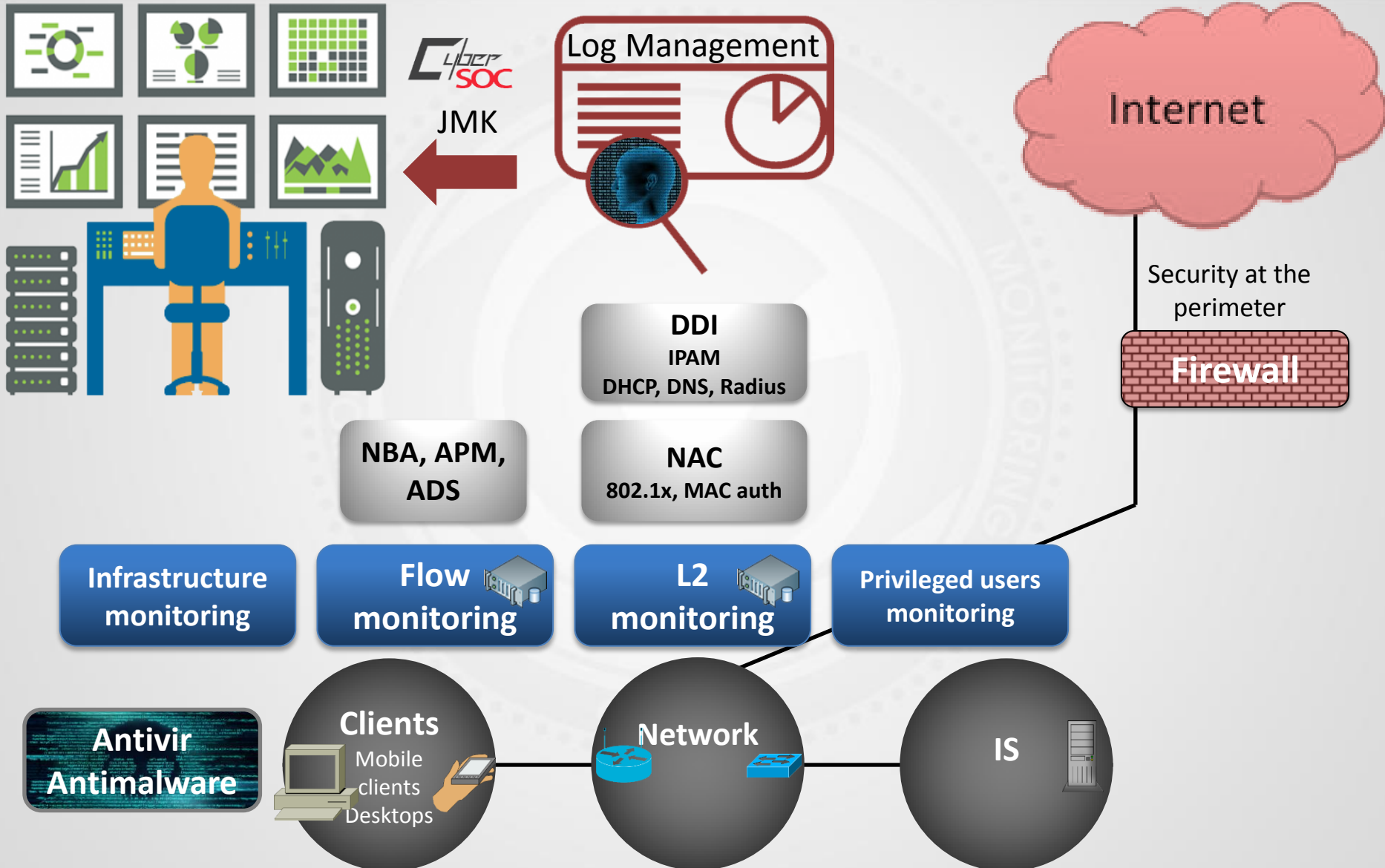


# What each JCE needs?



- 1 National cybersecurity authority support
- 2 Educated teachers and management
- 3 Modernized ICT and built cybersecurity laboratory
- 4 Finance from region/government
- 5 Cooperating academia
- 6 Cooperating clusters

# CYBERSECURITY CONCEPT IN Čichnova school



# CYBERSECURITY CONCEPT IN Čichnova LAB

## SIEM

Log Management

**DDI**  
IPAM  
DHCP, DNS, Radius

**NBA, APM,  
ADS**

**NAC**  
802.1x, MAC auth

Internet

Security at the  
perimeter

Firewall

Infrastructure  
monitoring

Flow  
monitoring 

L2  
monitoring 

Privileged users  
monitoring

Antivir  
Antimalware

**Clients**  
Mobile  
clients  
Desktops

**Network**

**IS**  
Servers

Thank you for your attention



**Network Security Monitoring Cluster**

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