

**Summer School of Applied Informatics
(Lasaris), Blansko 2020**

Concept of Junior Center of Excellence (Information Security)

**Masaryk University/NC3
Network Security Monitoring Cluster (NSMC)**

What is a junior center of excellence (JCE)?

JCE (Junior Center of Excellence) is a unique high school with some specialization

JCE IS is a high school with unique approach to information security

- **Implementation of information security in school itself**
 - organizational measures
 - technical measures
- **Motivation for the creation of the JCE IS concept:**
 - National Cybersecurity Strategy of the CR 2015-2020
 - Action Plan
- **Education**
 - information security syllabus
 - Concept of JCE IS (based on regional principle)
 - goals
 - principles
 - information security education program
 - measures for JCE
 - cyber laboratory



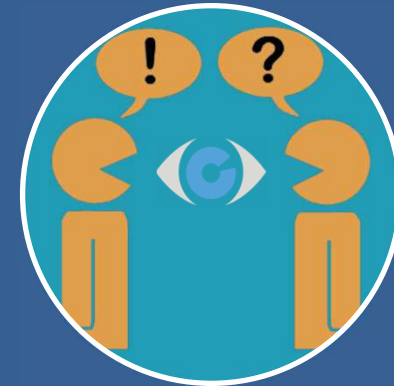
Why we need cybersecurity education?



Cyberspace



CS legislation,
standards



Clear communication
and a common
understanding
of cybersecurity defini-
tions



What can JCE provide in its region?



Methodics for
implementation information
security in high schools



Education and evangelization
in information security for
students and public



Cyber laboratory with remote
access for other high schools
in region



Conferences and
videoconferences



Cyber security competitions
and exercises

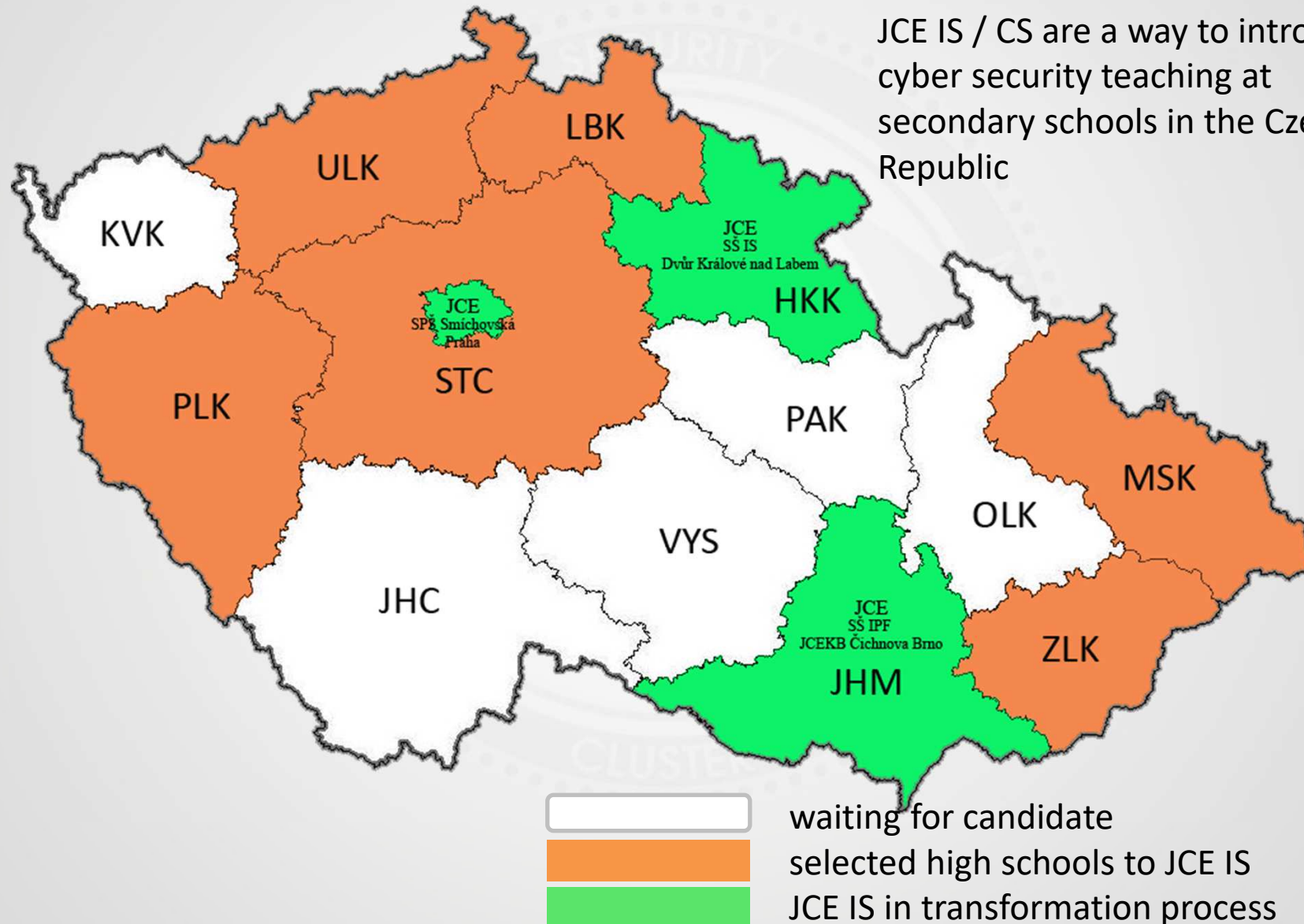
What each JCE needs?



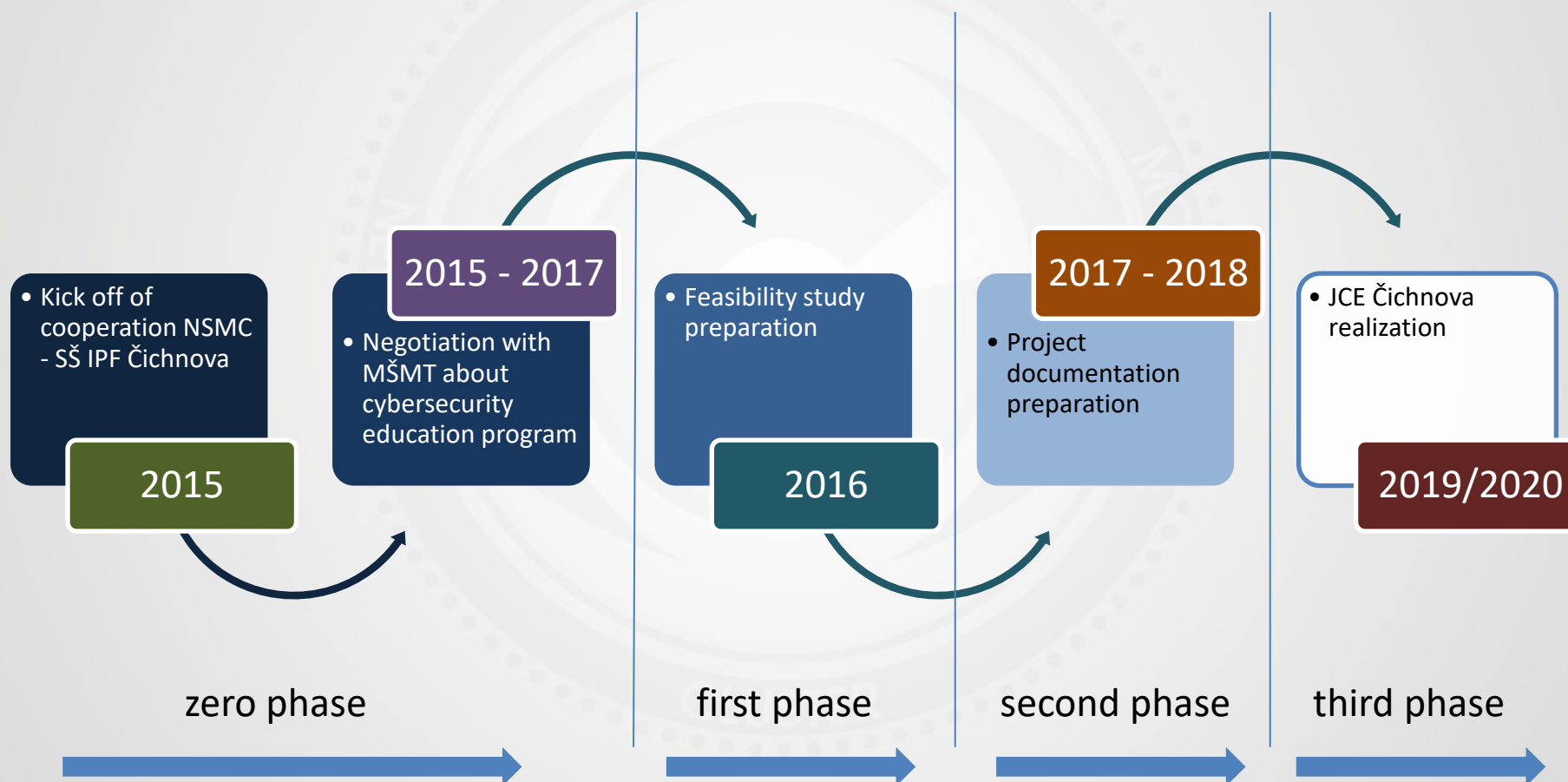
- 1 National cybersecurity authority support (NÚKIB)
- 2 Educated teachers and management
- 3 Modernized ICT and built cybersecurity laboratory
- 4 Finance from region/government
- 5 Cooperating academia (MU)
- 6 Cooperating clusters (NSMC, i4.0)

JCE IS – implementation status in CR

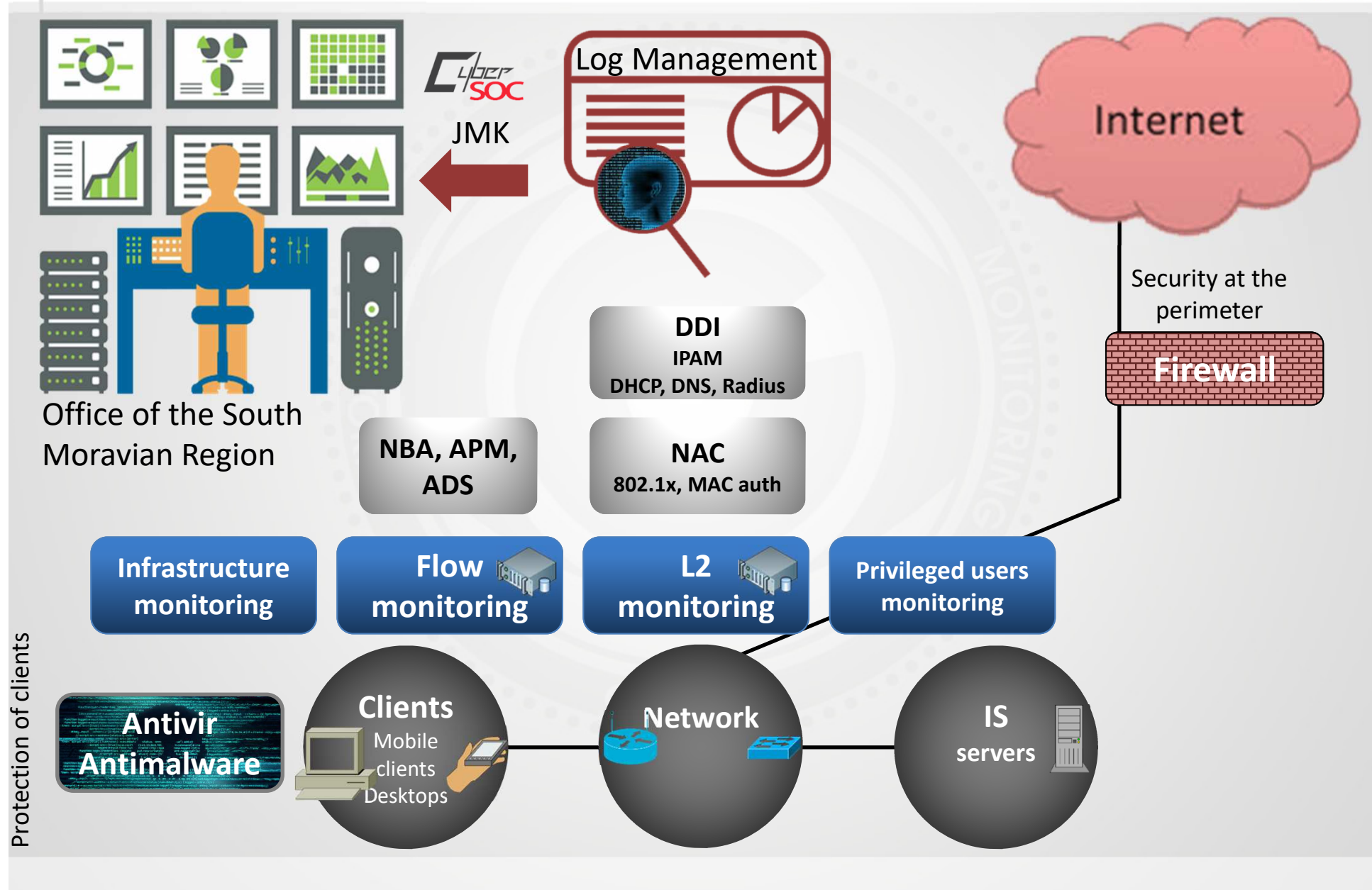
JCE IS / CS are a way to introduce cyber security teaching at secondary schools in the Czech Republic



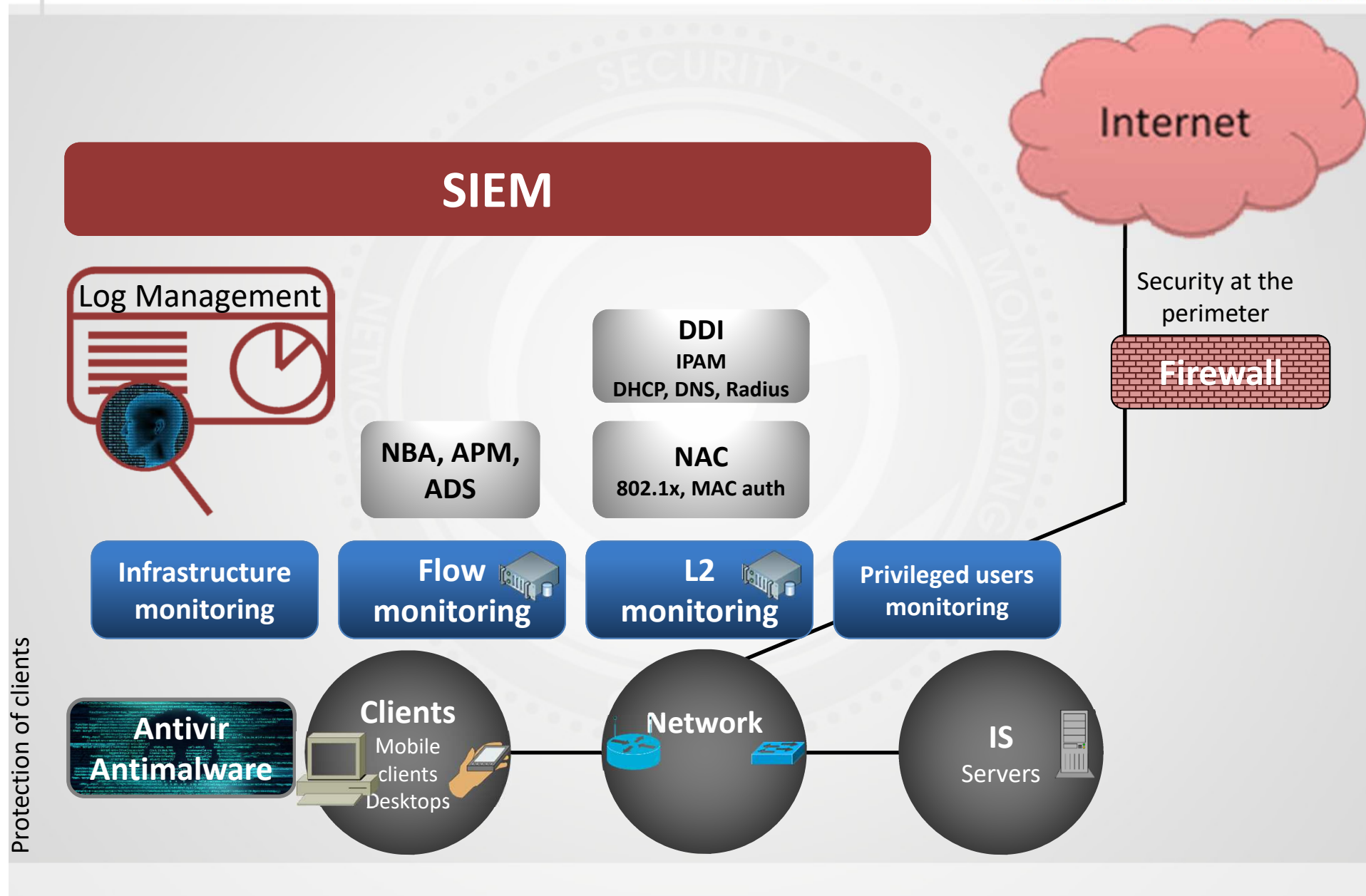
JCE Čichnova – first JCE IS in CR



CYBER SECURITY CONCEPT IN Čichnova school (operating environment)



CYBER SECURITY CONCEPT IN Čichnova LAB



Thank you for your attention

