CERT.LV
Information Technologies
Security Incident
Response Institution

CERT.LV activities, role in Latvia and globally

Baiba Kaskina, CERT.LV

30.11.2016., Sofia, Bulgaria

CERT.LV Overview

CERT.LV

CERT.LV
Information Technologies
Security Incident
Response Institution

- Information Technology Security Incident Response Institution of the Republic of Latvia
- Operates on basis of IT Security Law
- Overseen by Ministry of Defense
- State funded
- All services are free of charge
- Mission – to improve IT Security in Latvia

IT Security Law

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- In force since 1 February 2011
- Established CERT.LV with rights and duties
- Sets duties for:
  - State institutions and local authorities
  - IT Critical Infrastructure
  - Internet Service Providers

IT Security Law – more on that

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- **CERT.LV can request disconnect of an end user (up to 24h)**
- **Additional legislation on**
  - **Minimal security requirements for IT systems**
  - **Requirements for ISPs**
  - **Requirements for Critical Infrastructure**

CERT.LV history

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- LATNET CERT – established on 1 August 2006
- Since 2008 – CERT NIC.LV
- Since 2008 Accredited @ Trusted Introducer
- Since 2009 FIRST full member
- 2011 – merger of CERT NIC.LV & DDIRV = CERT.LV
- Since 2016 Certified @ Trusted Introducer

CERT.LV organization

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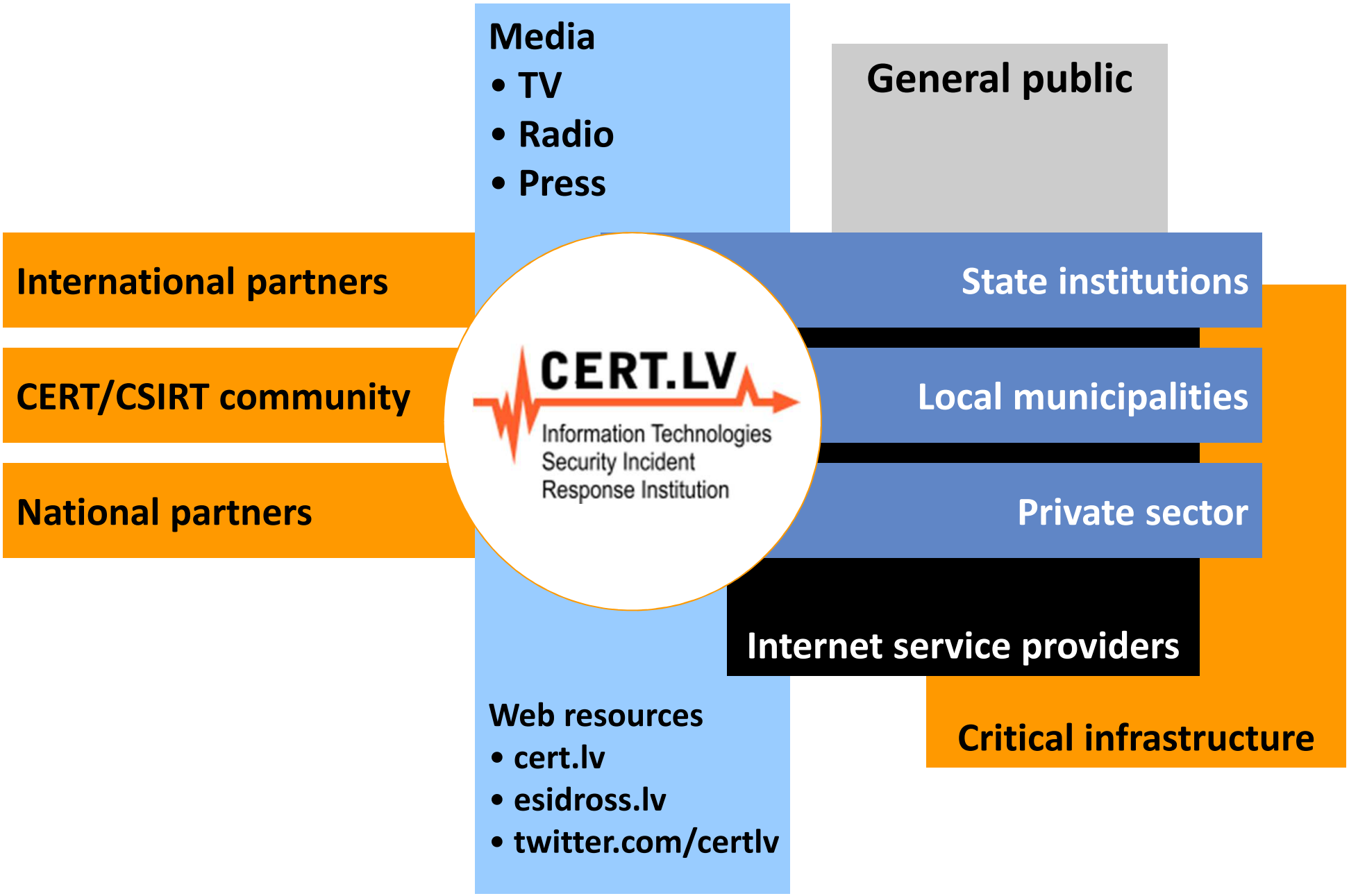
Flat structure	• Manager • Deputy manager • One team
Low administrative overhead	• Part of Institute of Mathematics and Computer Science • Centralized procurement, accounting, HR • Short «chain of command» • Easy escalation/ de-escalation process
Technical part	• Incident handling • Monitoring • Testing • Technical exercises
Partner engagement part	• National cooperation • International cooperation • Public relations • Awareness raising


Media
• TV
• Radio
• Press
General public
International partners
CERT/CSIRT community
National partners
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Information Technologies
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State institutions
Local municipalities
Private sector
Internet service providers
Critical infrastructure
Web resources
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CERT.LV timeline

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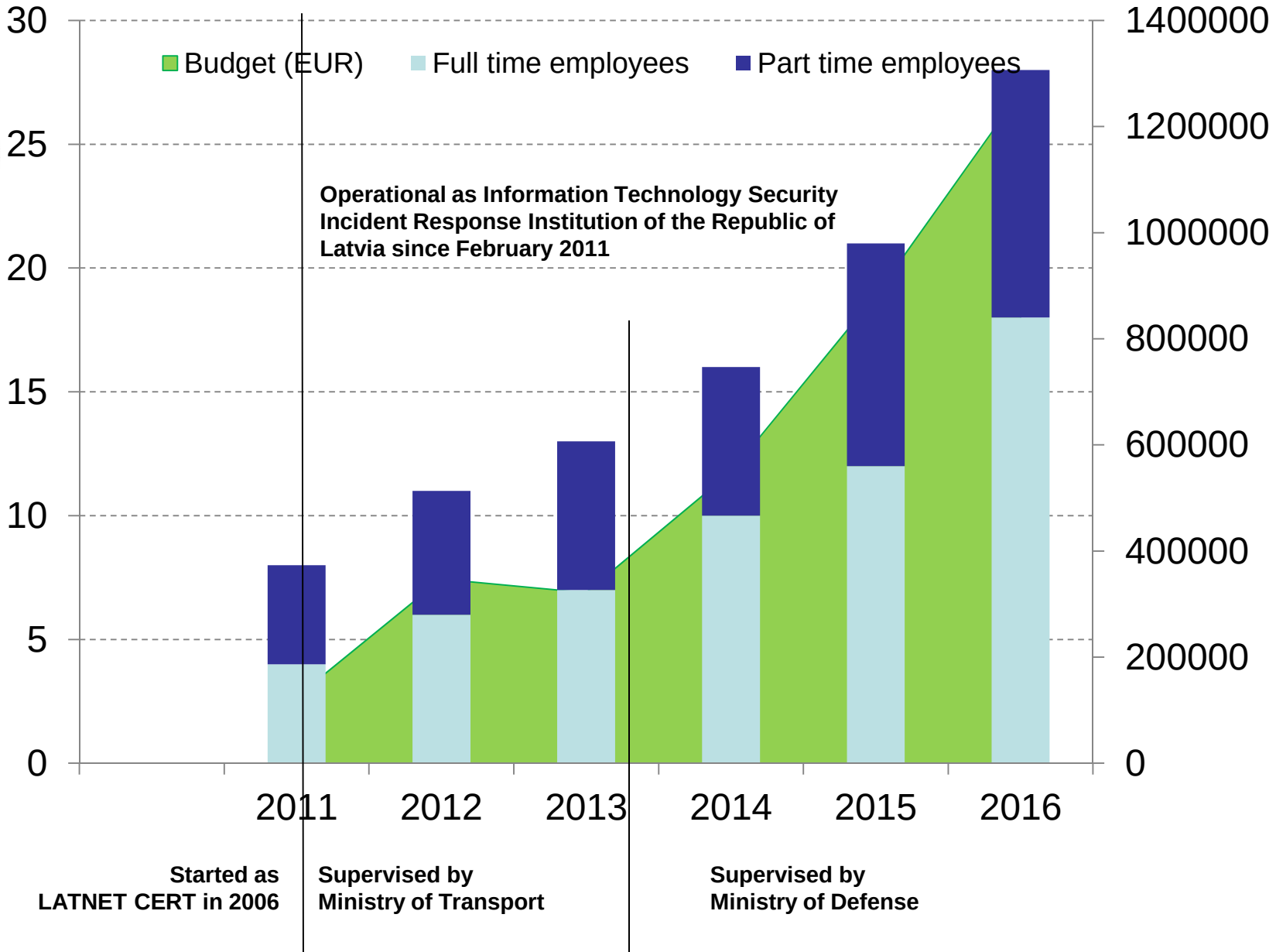
Memberships:

TF-CSIRT Trusted Introducer

Certified team since 1 September 2016

FIRST Improving Security Together

Member since 08 April 2009



High priority incidents

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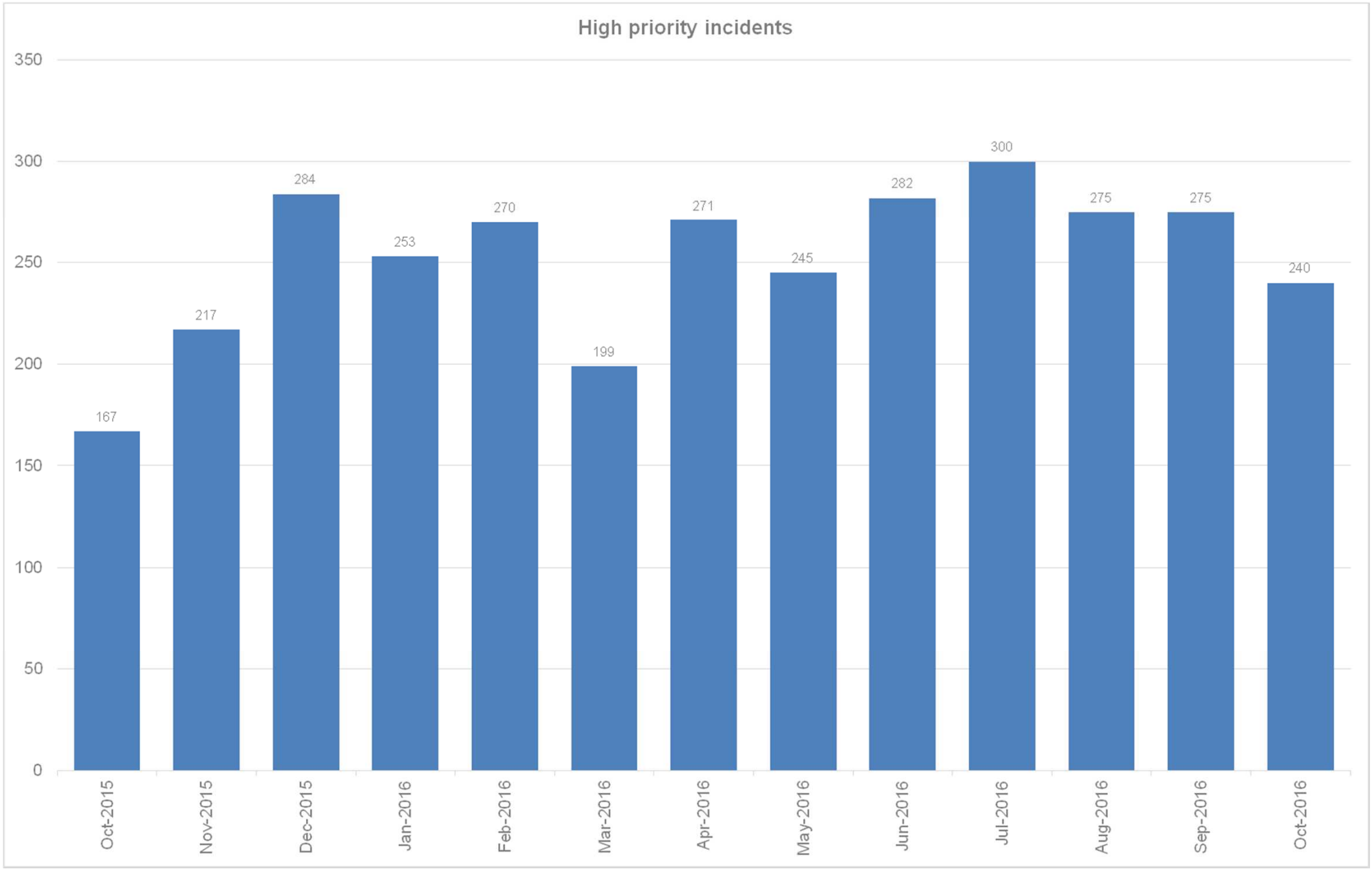

Low priority incidents

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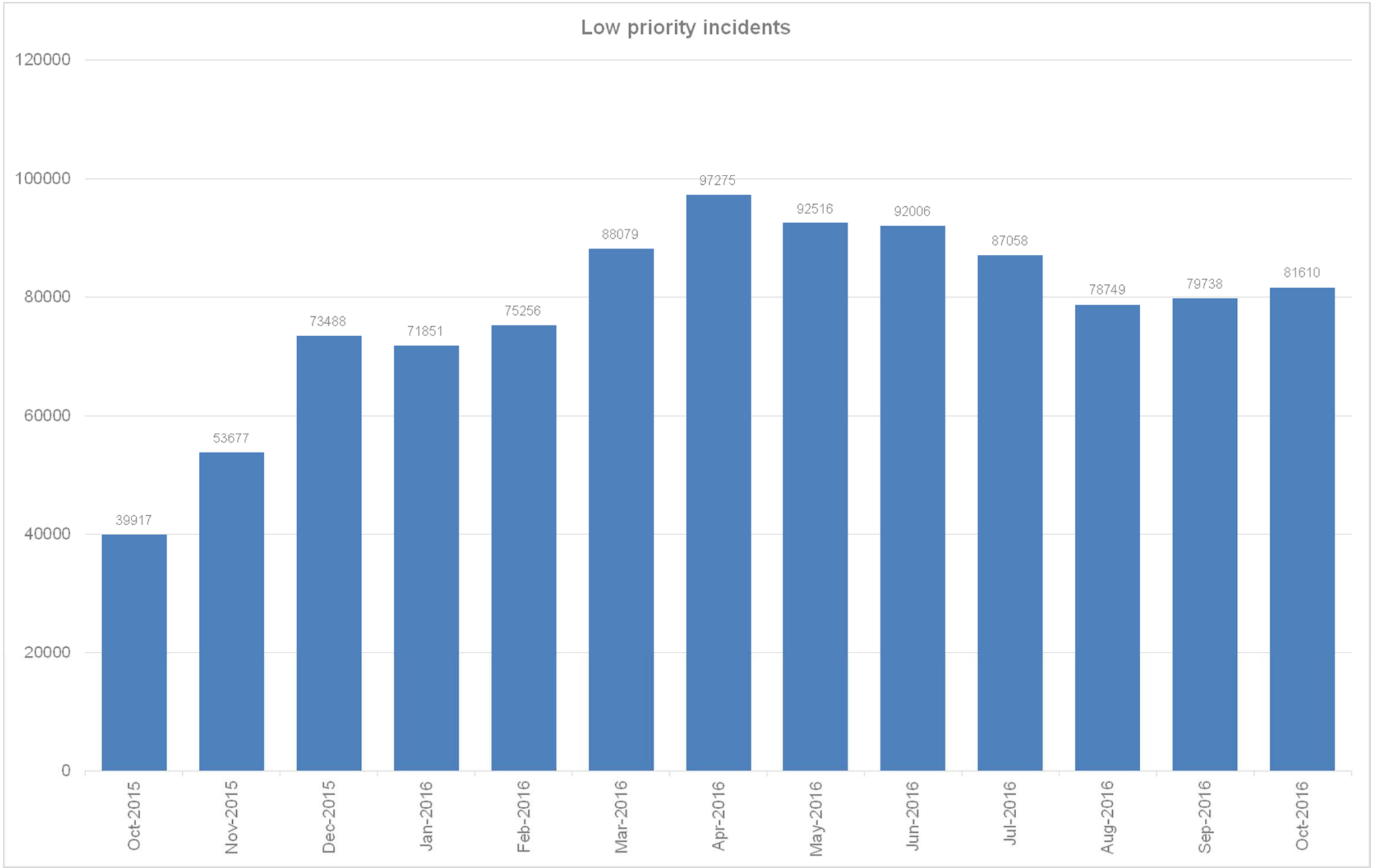

Awareness raising

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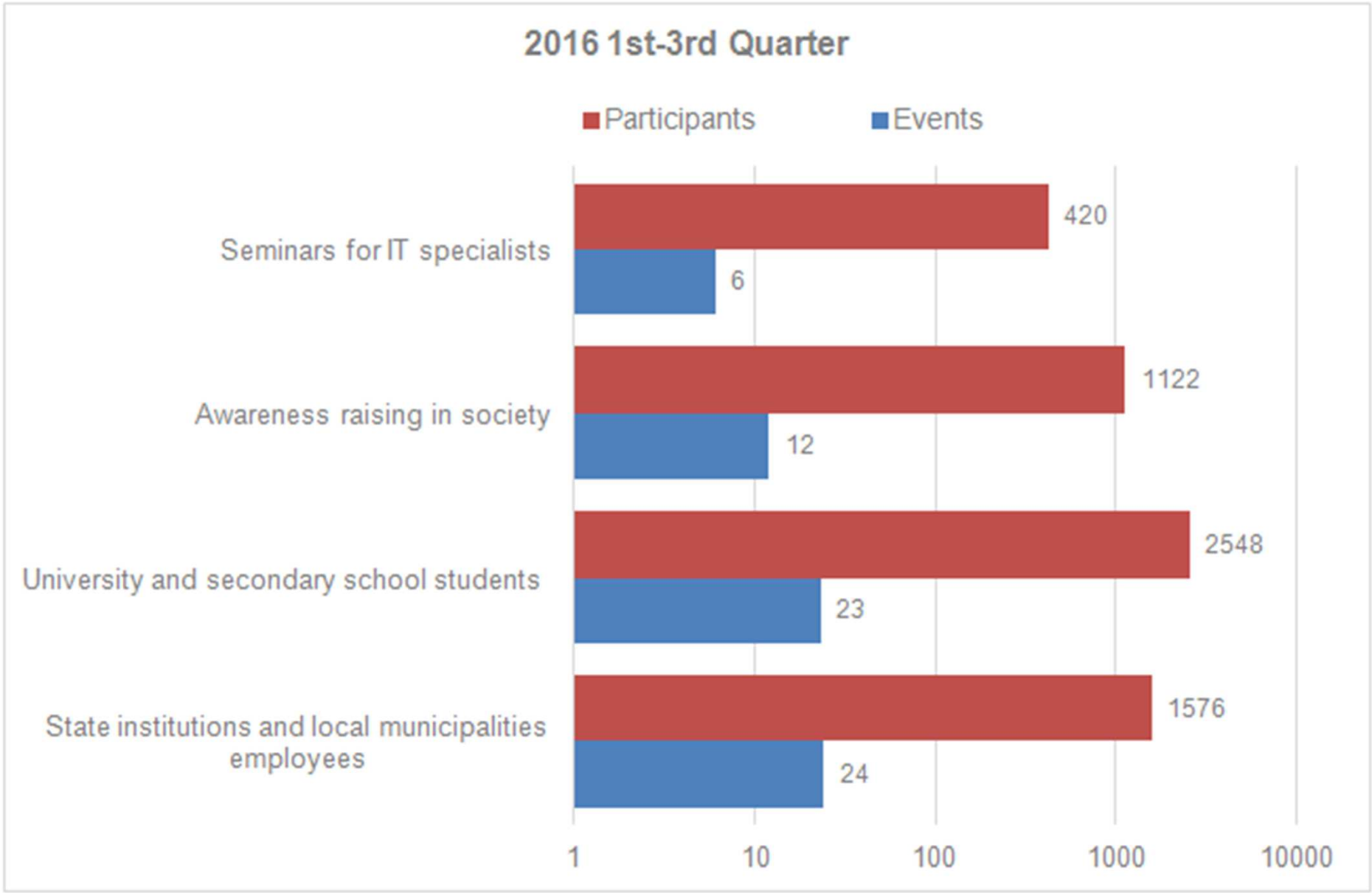

Awareness raising programs

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- **5 different presentations (regularly updated)**
  - **Tailored to different audiences**
  - **Available for free**
- **Seminar «ESI DROŠS» – twice a year**
- **Annual conference in cooperation with ISACA Latvia**

Exercises

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- CERT.LV regularly participates:
  - Cyber Europe
  - Locked Shields
  - NATO exercises
  - Self organised - "March mist", "Cyber mill"
- International and local
- From table top to Full Live
- Different training audiences
- CERT.LV role – organizer, participant, monitoring

Educational web site esidross.lv

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- Information for general public
- Best practices, suggestions
- Information if IP is reported malicious
- Contributors – CERT.LV, security experts
- SANS OUCH!

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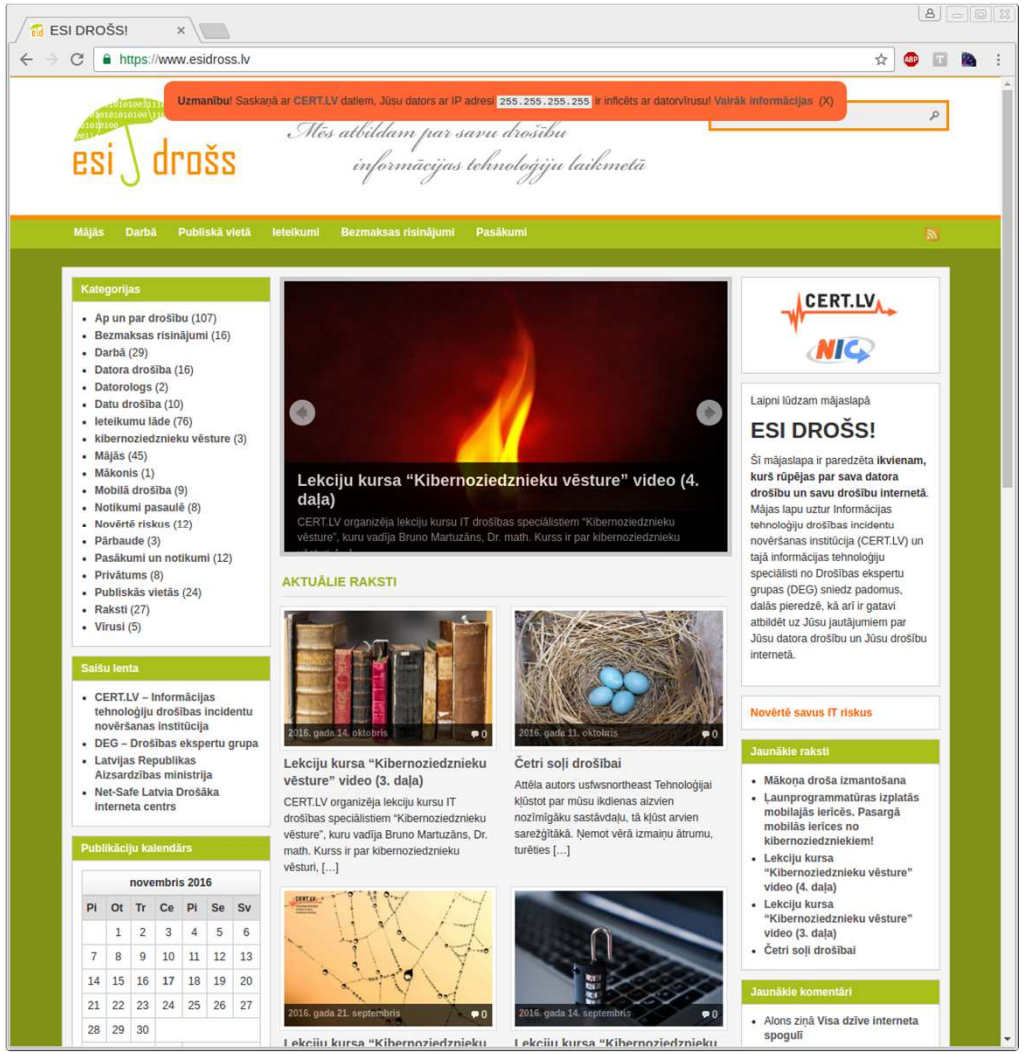

CERT.LV role in Latvia

CERT.LV role in Latvia

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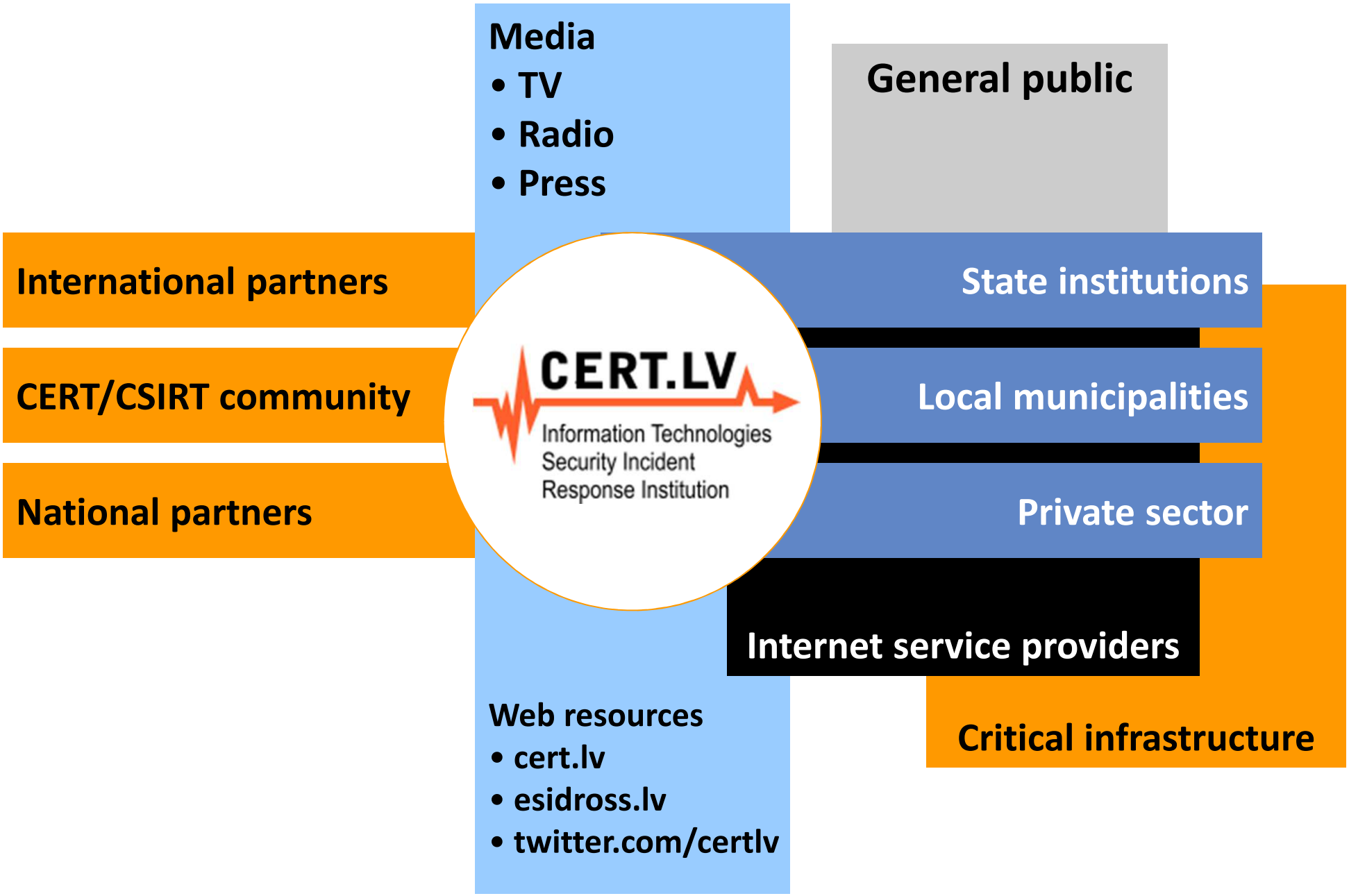
- **The only state institution with expertise in cyber security**
  - **Involved in many non-CSIRT activities**
  - **Additional tasks**
- **Central role in bringing together all stakeholders**
- **Strong cooperation with Ministry of Defence**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Cooperation with public sector & CI

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- Defined in the law
- Direct constituency of persons responsible for IT security in their institutions (~ 1200 people)
- Collaboration on incident response, sensor network
- Education & awareness raising
  - Seminars at the institutions
- Support with documentation
- General consultancy

Responsible ISP

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- Symbol of quality, received by ISP that:
  - Cooperates with CERT.LV and provides incident information to end users
  - Cooperates with Net-Safe Latvia for illegal material takedown off the Internet
  - Provides free Internet content filter customers request
- Memorandum of Understanding

Security expert group

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- Group of IT security professionals
- Meetings once a month
- Statutes and code of conduct
- Discussions on current topics
- Presentations/Events

Cyber defence unit

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- Established in 2013
- Cyber security centre in 2015
- Unit operational within National Guard
- Main task - to provide support for CERT.LV and National Armed Forces in responding to the IT security incidents and mitigation of the consequences
- Cooperation with CERT.LV – trainings and exercises

Cooperation globally

International cooperation

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- CSIRTs community (FIRST, TF-CSIRT)
- ENISA, EU
- NATO
- FI-ISAC (Financial Institutes - Information Sharing and Analysis Centre)
- Bilateral cooperation, MoUs

European CSIRT community

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- **TF-CSIRT community – all inclusive**
- **Trusted Introducer community – listed (278), accredited (142) and certified teams (19)**
- **European Government CERT group – limited**
- **NIS directive CSIRT cooperation group**

Certification

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- **TF-CSIRT Trusted Introducer service**
- **Evaluation of CSIRT based on SIM3 model**
- **Looks at**
  - Organisation parameters
  - Human parameters
  - Tools parameters
  - Processes parameters

Reasons

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- International recognition
- Outside look
- Team inventory
- Process update and improvement
- Way to increase teams' maturity

Thank you!

https://www.cert.lv/

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