



Turvallisuuskomitea  
Säkerhetskommittén  
The Security Committee

## Finnish Cyber Security Strategy

Permanent Secretary, LTG Arto Rätty  
Chairman of the Security Committee  
15.1.2015, Geneva

# Changing threat landscape



**Natural resources**  
**Climate change**  
**Interdependence**  
**Terrorism**  
**Population growth**  
**Technology**  
**Global economy**  
**Non-governmental actors**

**Annual losses caused by cybercrime over \$400 billion** (McAfee)

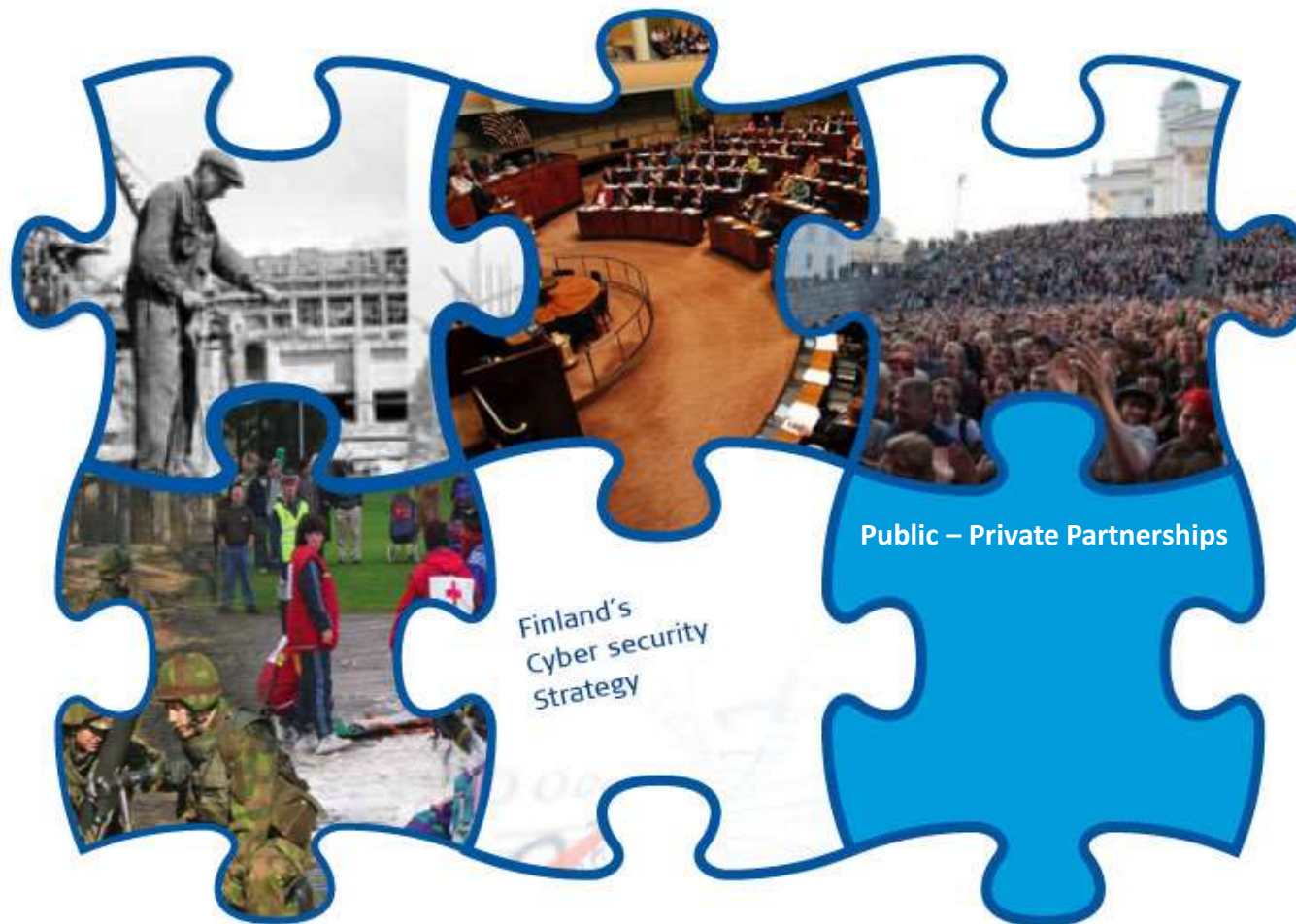
**Cyber espionage on the rise** (McAfee, Verizon)

**Governments as the most important target** (Symantec)

Finland cannot be a successful and  
competitive welfare state  
without a safe cyber domain



# Comprehensive approach



# Principles of Crisis Management



# Tasks of the Security Committee

**To contribute** to the preparedness of comprehensive security and its coordination

**To monitor and evaluate** Finland's security and defence policy environment and societal changes and their impacts on comprehensive security arrangements

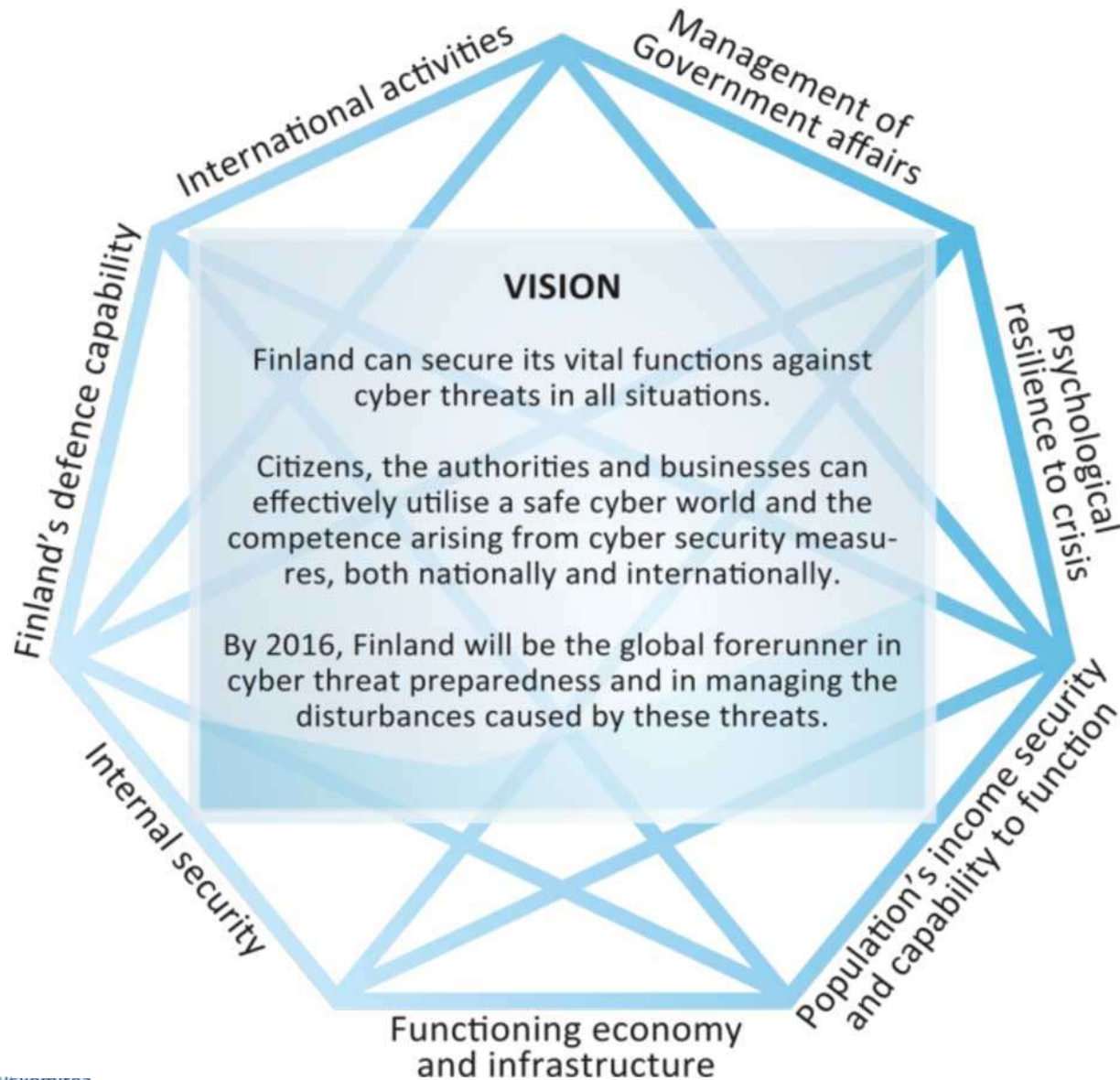


**To monitor the activities** of different administrative sectors and levels to maintain and develop comprehensive security arrangements



**To coordinate**, if necessary, large and significant preparedness-related issues, such as national coordination of preparedness, development of forms of cooperation, operational models, research and training

# Cyber Security Strategy Vision





# 10 Cyber Security Guidelines



1. Collaboration model



2. Situational awareness



3. Continuity of preparedness



4. Capacities of the police



5. Cyber defence



6. Enhanced international co-operation



7. Education and training = knowledge



8. Legislation

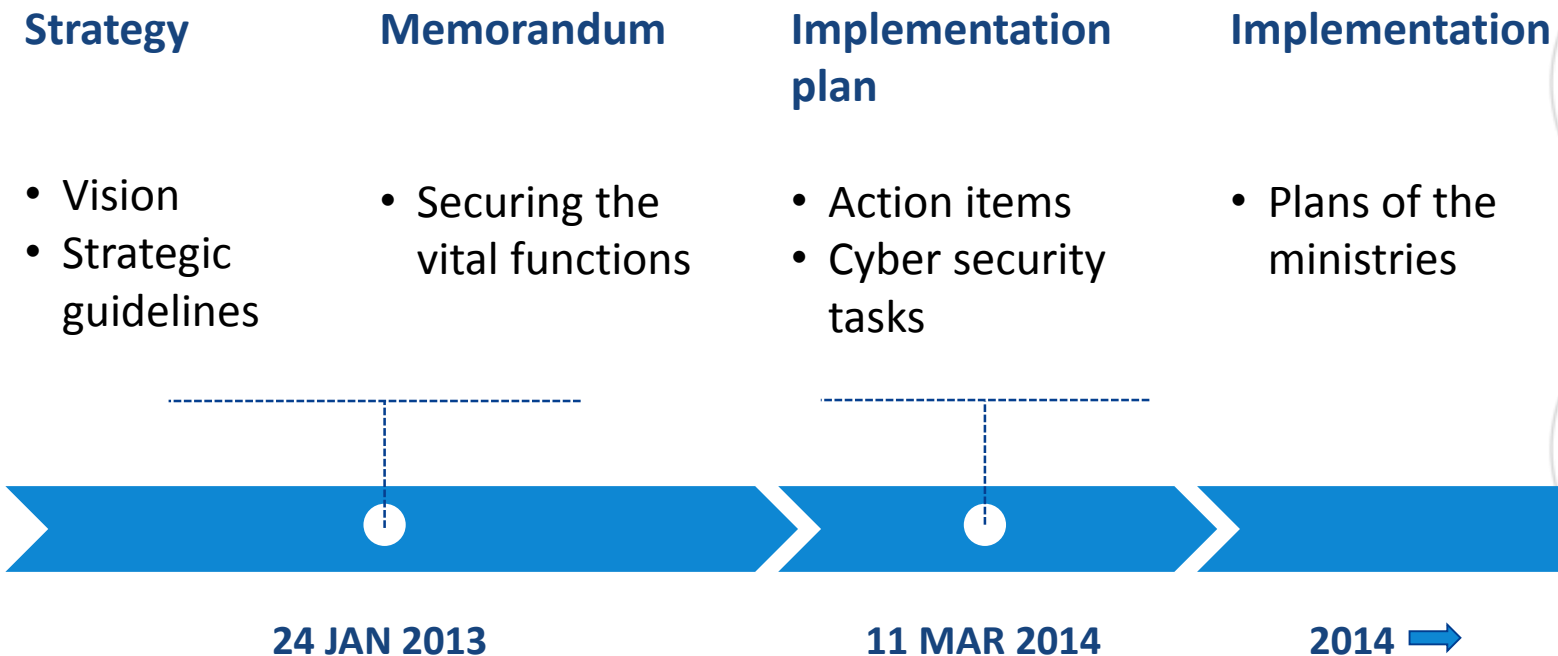


9. Tasks, requirements and service models



10. Monitoring the implementation

# Roadmap



**The strategy is a living document !**

# Implementation program



## Main focus areas

- Cyber Security Center
- 24/7 Information Security Operations of the Government
- Security network for encrypted data transfer and administration
- Police's responding capabilities to cybercrime
- Research and education programs, and improvement of other competences
- Changes in legislation
  - and if → development of capabilities

# Major Challenges

- Resources
- Full implementation of the National Security Network
- Roll-out of Government 24/7 Information Security Operations
- Legislation
- Responsibilities and coordination in some areas
- Some organisations are lagging behind in their implementation of the Information Society Code (eralier Information Security Law)



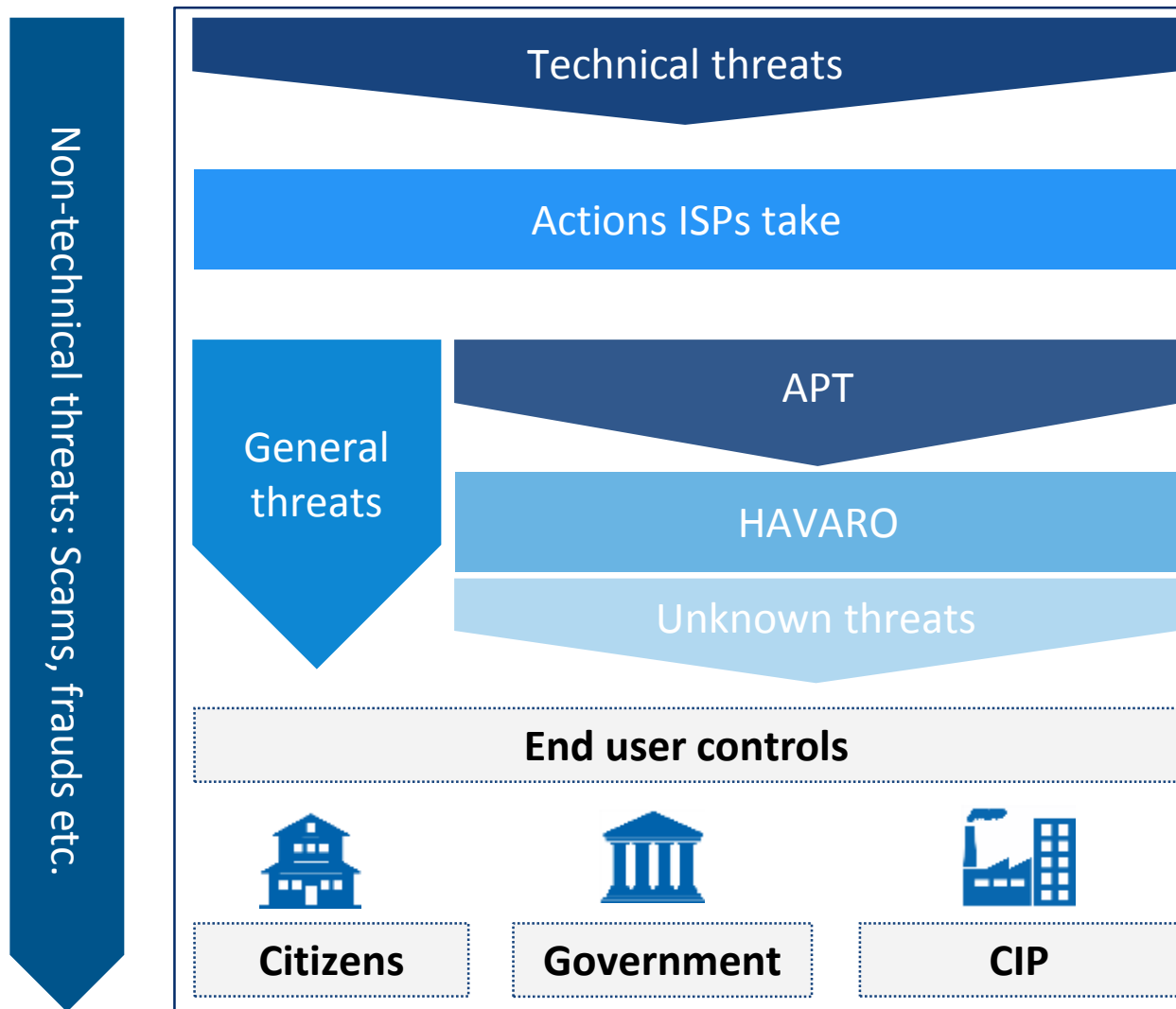


# Implementation - where have we succeeded?

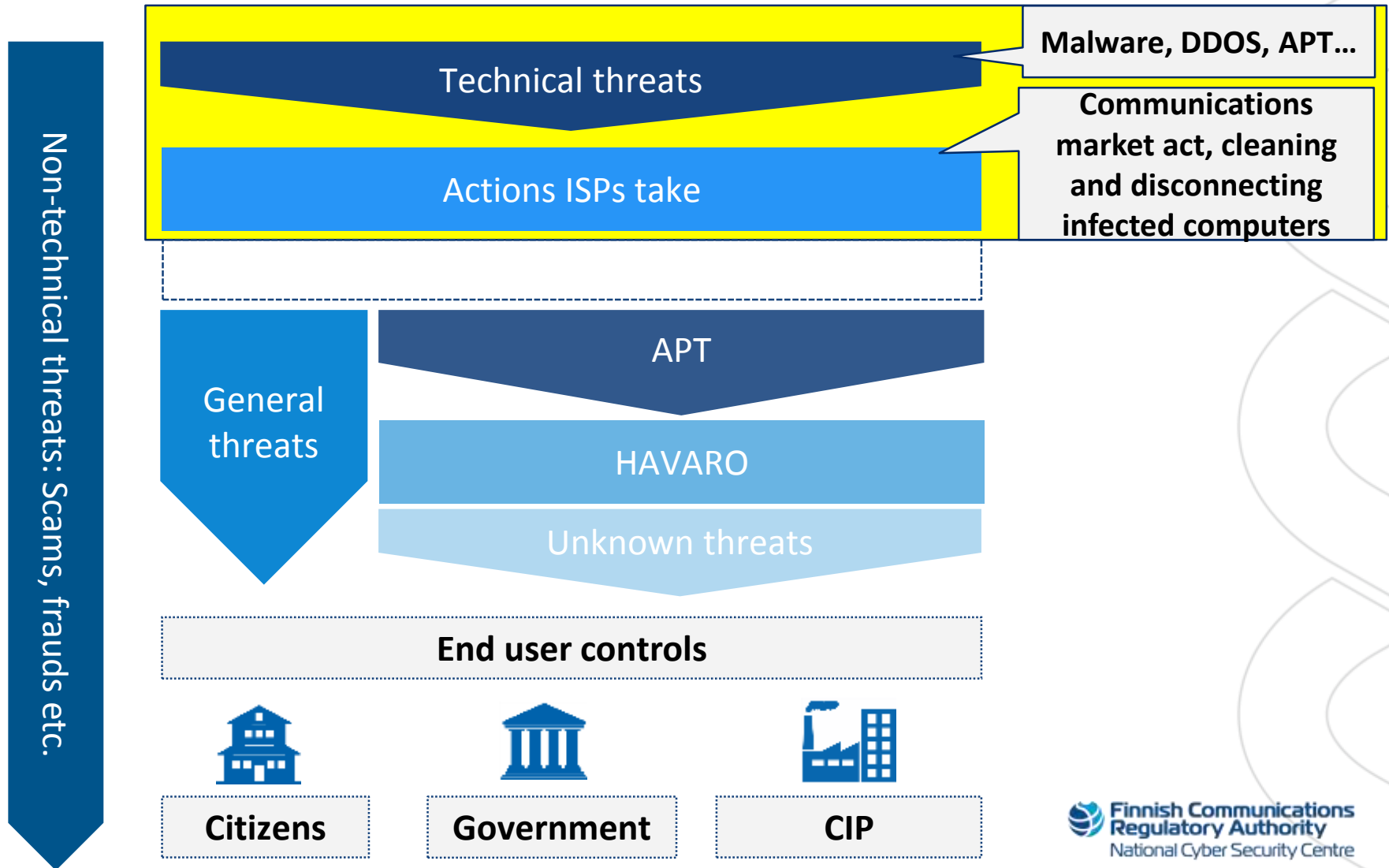


- **Cyber Security Strategy and the implementation plan**
- **Cyber Security Center** and development of the **CERT**
- Research, training and education programmes
- Innovation Centre in Jyväskylä
- **Business Cyber Cluster (FISC)**
- Working group on intelligence gathering
  - Report 14 Jan 2015
- Improved incident response procedures
- Cooperation between different actors
- Public-Private-Partnership
- International cooperation
- General knowledge and awareness

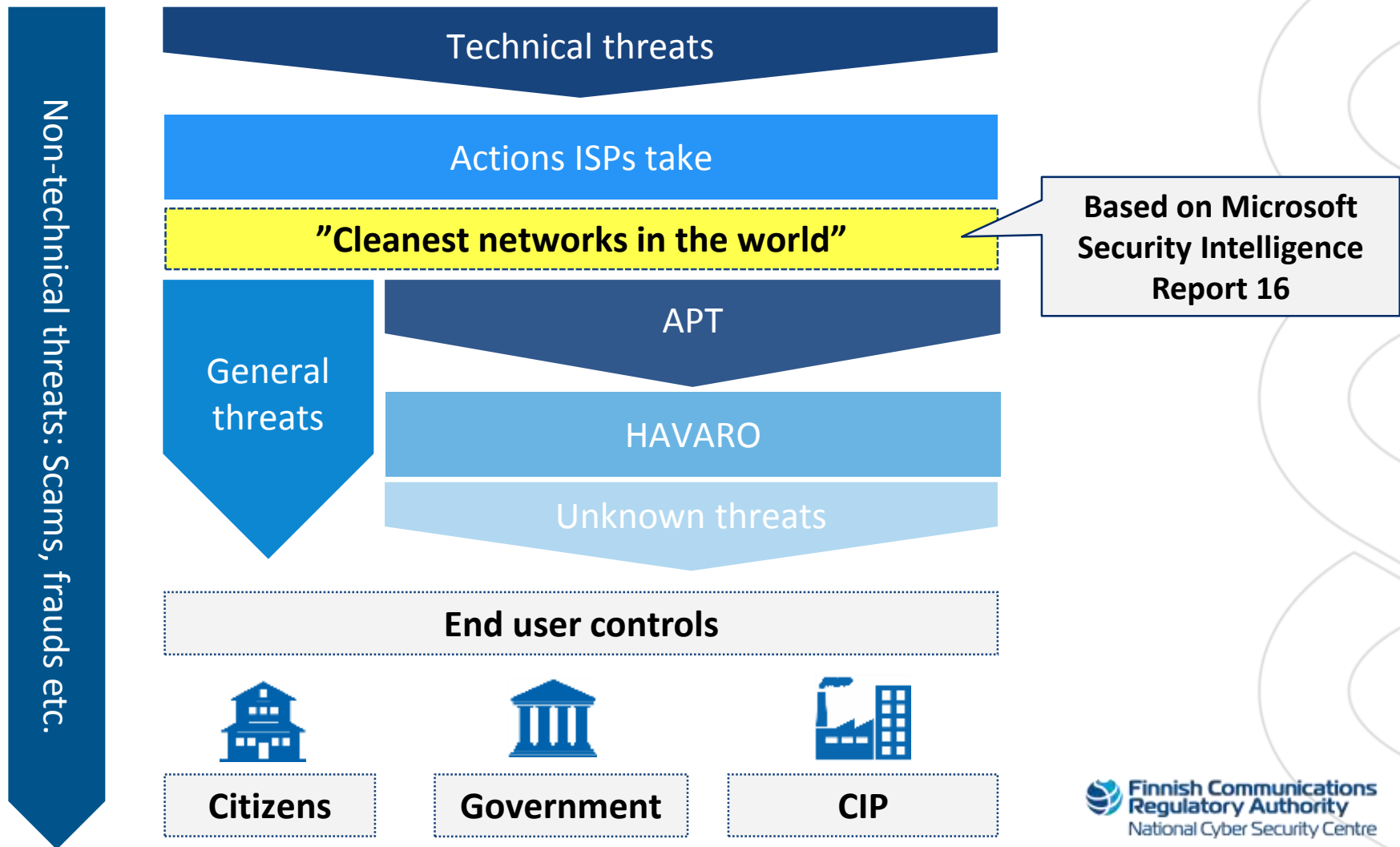
# NCSC-FI's role



# First line – ISPs

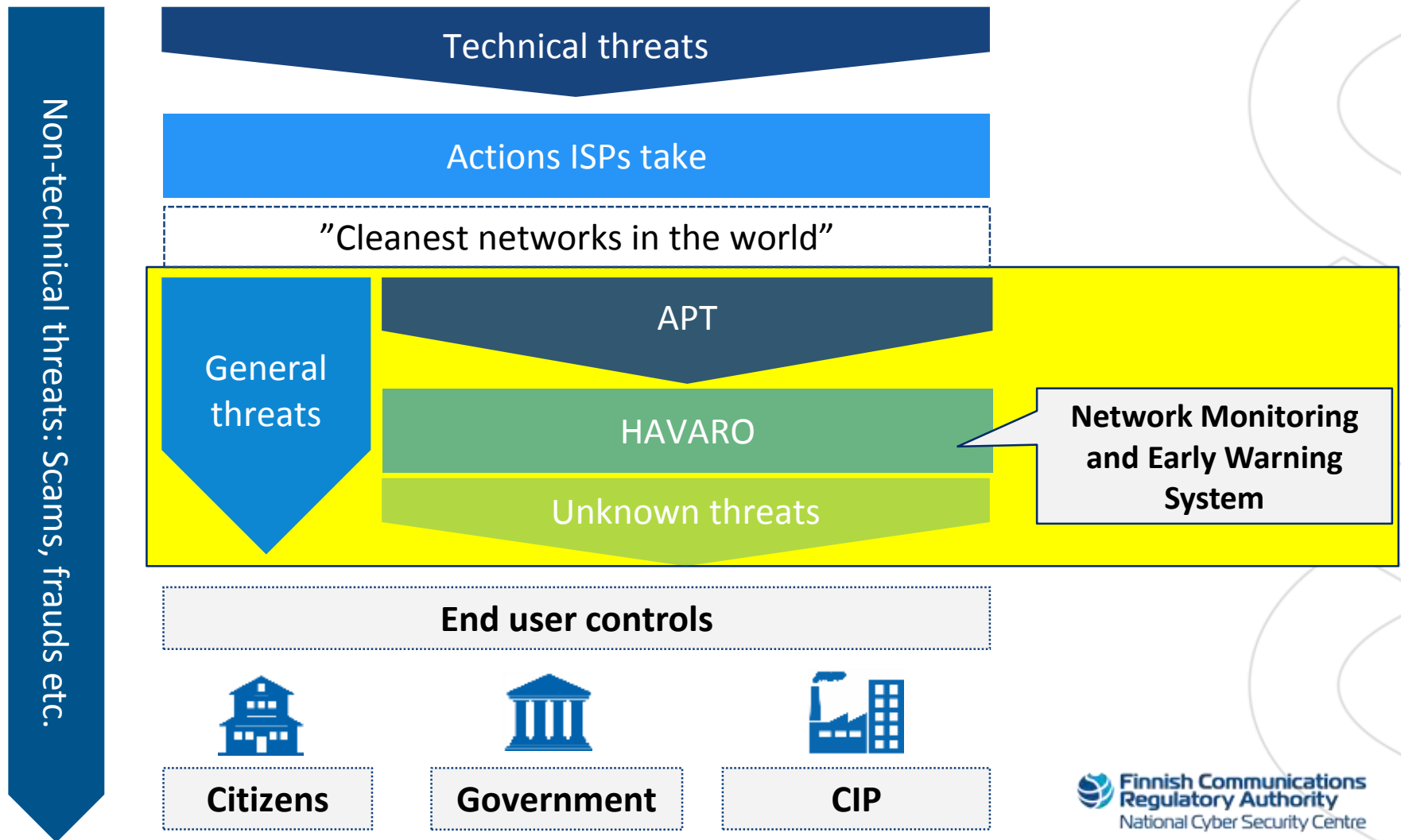


# Result

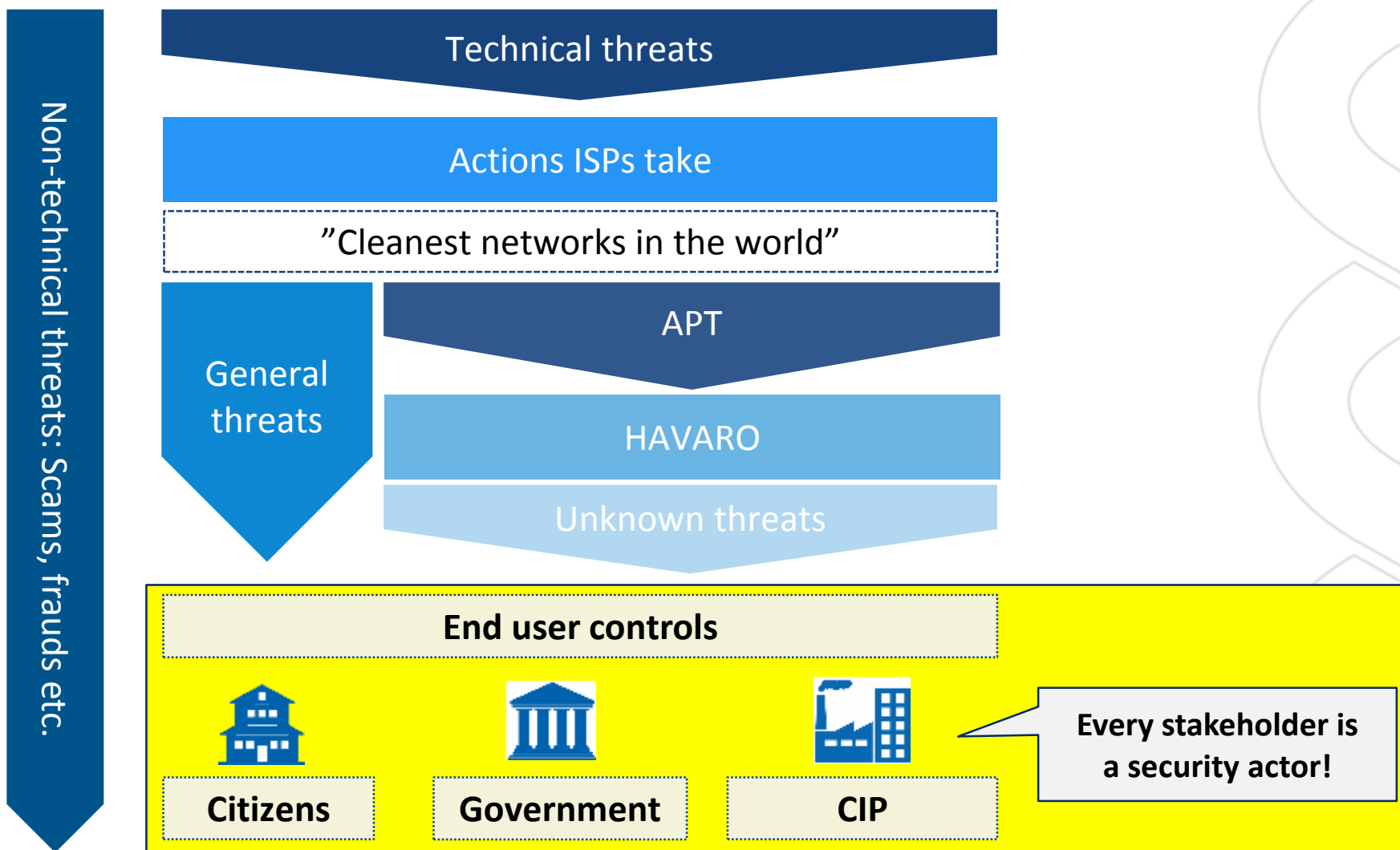




## Second line – HAVARO



# Third line



# Finnish success factors

- Comprehensive concept
- Co-operation among authorities, businesses, and NGO's
  - possibility to utilize existing knowledge and capabilities in Finland
    - Cost-effectiveness!
- Shared awareness on the importance of cyber security
- Technology skills and knowledge





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