



SISEKAITSEAKADEEMIA  
ESTONIAN ACADEMY OF SECURITY SCIENCES

In 2025 the EASS will be the best education and science center for internal security in Europe.

Our mission is to teach students to provide internal security and to lead safe lives.

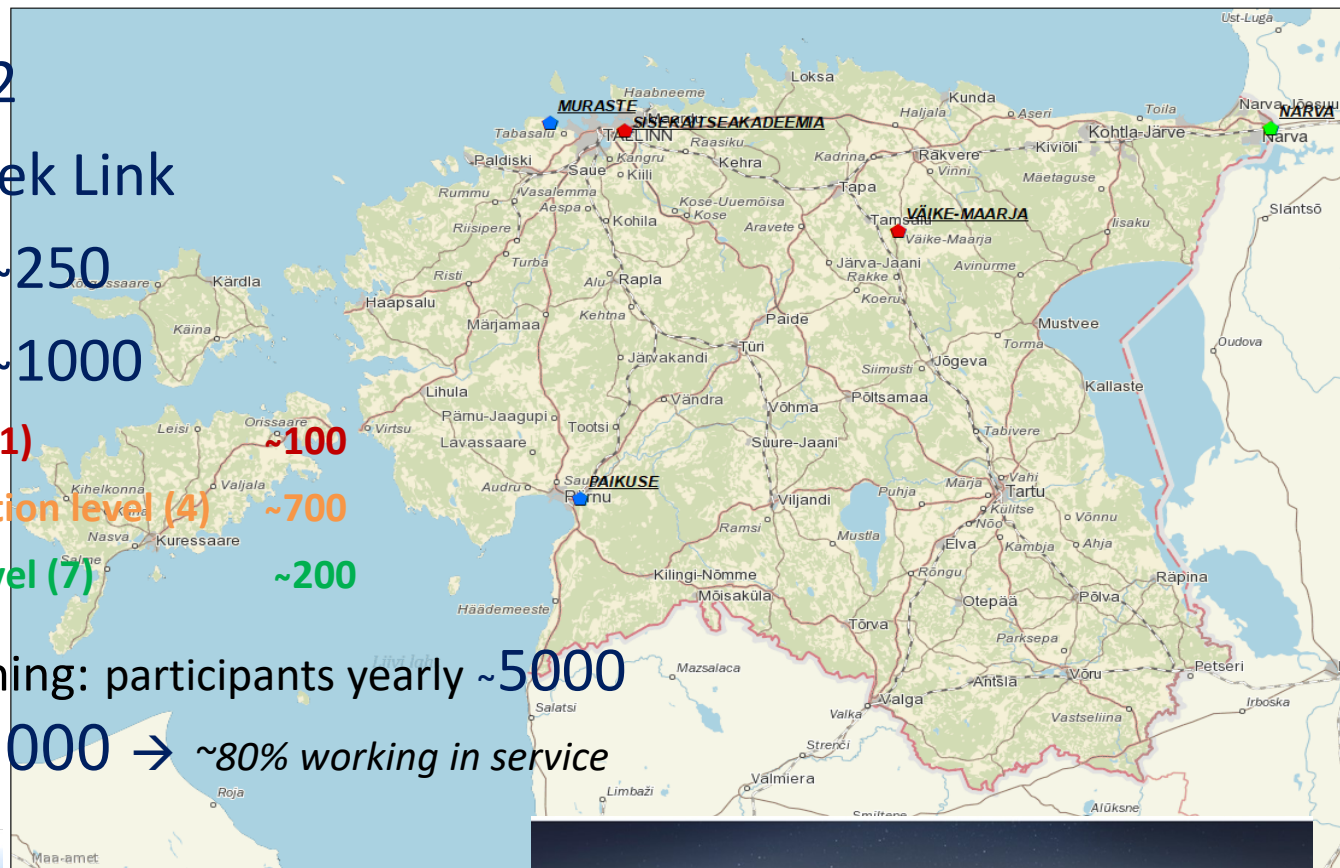
Professionalism  
Respect  
Integrity  
Openness  
Development

**ESTONIAN ACADEMY OF SECURITY SCIENCES**

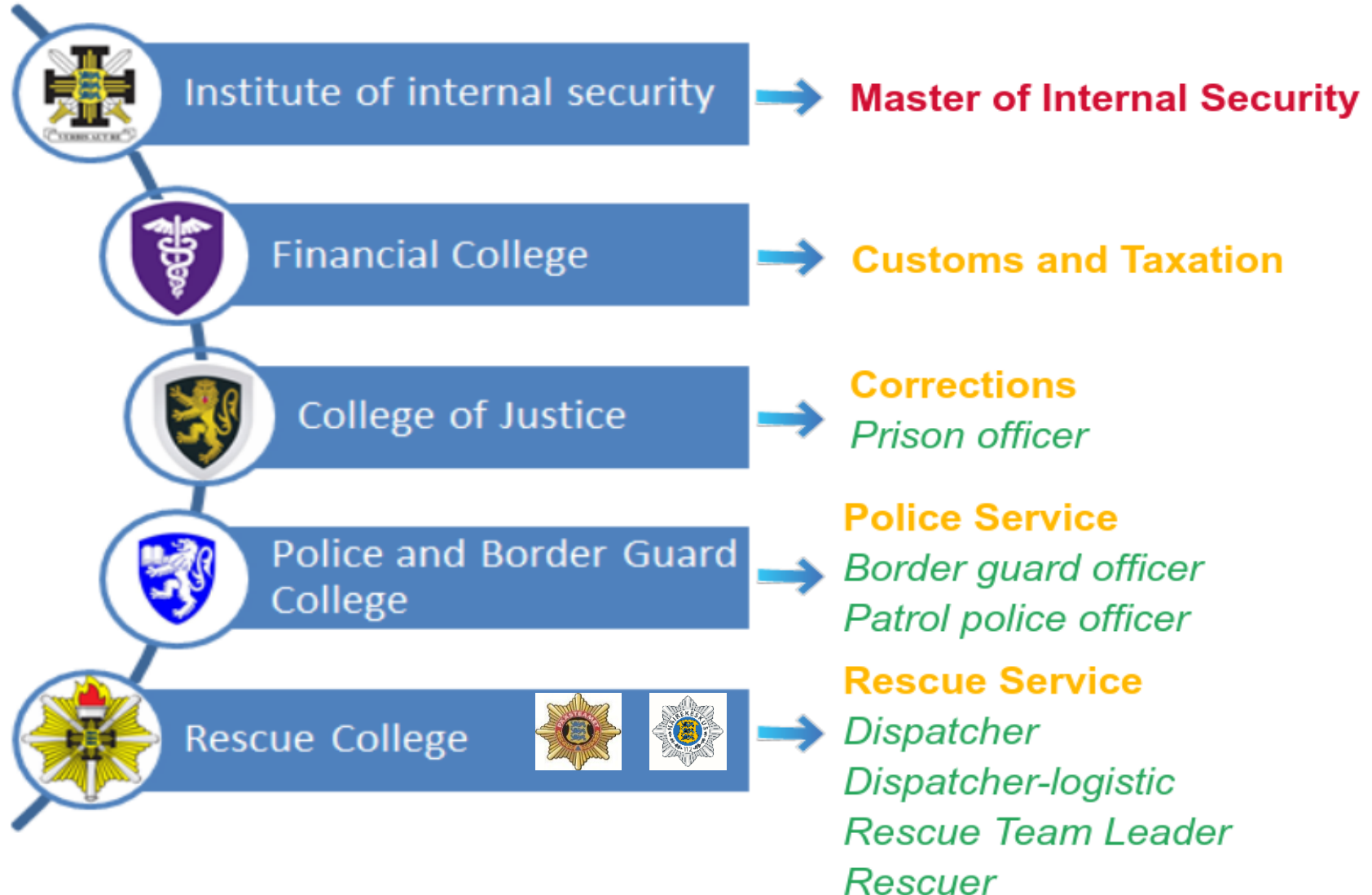


# ESTONIAN ACADEMY OF SECURITY SCIENCES

- ✓ Founded: 1992
- ✓ Rector: Marek Link
- ✓ Employees: ~250
- ✓ Students: ~1000
  - ✓ Master level (1) ~100
  - ✓ Higher education level (4) ~700
  - ✓ Vocational level (7) ~200
- ✓ Additional training: participants yearly ~5000
- ✓ Alumni: ~ 11 000 → ~80% working in service



# EASS is unique institution under the Mol, but also regulated by MoE&R



# Learning environment....



In progress....



Ideas?

# RESCUE COLLEGE

2 locations  
and training fields

Staff → 40

Students:

- Higher education (3 years) → 75
- Vocational education (1 or 0,5 years)  
→ 95

Additional trainings:

- 51 training programs
- ~4500 trainees
- ~200 trainings per year

International cooperation:

- Research development and innovation
- Training
- Projects





# Internal Security Institute

- Launched in 2009
- Unique - covers the field of internal security
- Cost-effective
- Stakeholders interests considered



Master of Arts in Social Sciences



Master's program

Research

Centre for Legal and  
Social Sciences

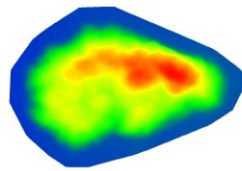
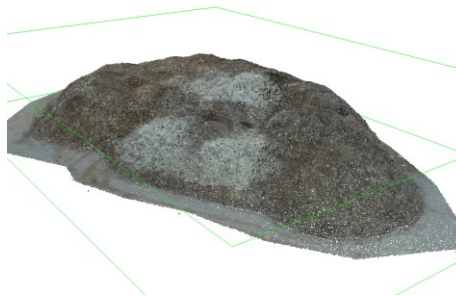
Terrorism and  
radicalization

Cyber threats  
and big data

Hybrid threats and  
strategic communication

Support for other  
researchers

# Center of drones and remote sensing



Hunnik 1:  
Volume: 4,359.9  
Surface: 1,377.6

Added volume: (+)4,359.9  
Removed volume: (-)0.0

Matching cells: 68.8%  
Non-matching cells:  
ground = 31.2%  
cell = 0.0%

Average neighbors per cell: 8.0 / 8.0

## Determining neighborhood-level socio-economical risks for residential fire prediction in Tallinn

Tallinn is a very segregated environment based on the relationship between residential fire occurrence and neighborhood socio-economical status. There was established 7 segregated areas in Tallinn based on these abovementioned factors

Relationship between neighborhood level residential fire occurrence and below mentioned socio-economical determinants

- Deprived socio-economical status of residents
- Elderly residents who are lonely and/or on social benefits
- Russian speaking residents
- Renters (only in midtown area)



## Developing the methodology of risk assessment and home visit questionnaire for dwellings

*Kadi Luht, Ants Tammepuu, Helmo Käerdi, Tarmo Kull, Alar Valge*

### Theoretical overview

- fire risk factors
- Index method

### Statistical overview in Estonia

- Estonian Rescue Board
- database of health statistics and studies

### Delphi method

- 28 members 3 steps:
- parameters of the dwellings and users as the factors
- evaluate the weights
- assess the weights

### Risk index 100 point scale 3 grgup:

- “green” - very good
- good, “yellow” - moderate
- “red” – unsafe

## Developing the methodology to assess the value of real estate property saved in rescue operations in Estonia

*Kadi Luht, Helmo Käerdi, Feliks Angelstok, Indrek Saar, Alar Valge, Andres Mumma*



- Object of origin (10 m<sup>2</sup>) ; Room of origin; Building / section of origin; Beyond the building / section

$$SP = SP_k + SP_r + SP_h + SP_v$$

- Building year, status, type, rebuilding cost.

$$RV_{ijmn} = EJV_{ij} \cdot BM_m \cdot MT_n$$

# LATEST PUBLISHED ARTICLES

- 2018. Luht, Kadi; Eensoo, Diva; Tooding, Liina-Mai; Harro, Jaanus . **The association of measures of the serotonin system, personality, alcohol use, and smoking with risk-taking traffic behavior in adolescents in a longitudinal study.** Nordic Journal of Psychiatry, 72 (1), 9–16.10.1080/08039488.2017.1368702 .
- 2018. Luht, Kadi; Klaos, Margo; Konstabel, Margo; Eensoo, Diva . **Personality, personal related factors and health related behaviour as predictors of pre-injury risk-taking behaviour in schoolchildren.** Proceedings Estonian Academy of Security Sciences, 7–26.
- 2018. Saar, Indrek. **The effects of the lower ignition propensity cigarettes standard in Estonia: time-series analysis.** Injury Prevention, 24 (1), 29–34.10.1136/injuryprev-2016-042187.

- Polikarpus, S., Bøhm, M., and Ley, T., **“Training Incident Commanders ’ Situational Awareness – A Discussion of How Simulation Software Facilitates Learning”** in Digital Turn in Schools—Research, Policy, Practice: Proceedings of ICEM 2018 Conference, 2019.  
<https://www.springer.com/gp/book/9789811373602>
- Polikarpus, S. and Tammik, A et al **„The effects of dynamic problem-solving training on motivation and engagement for incident commanders in the Estonian Rescue Board“** Sisekaitseakadeemia Proceedings to be published in november 2019



Cooperation?



Terrorism and  
radicalization

Cyber threats  
and big data

Hybrid threats and  
strategic  
communication



Thank you!

Do you have  
questions?



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