



ENERGY SHIELD

CYBERWATCHING.EU – ENERGY WEBINAR

Assessing, Enhancing and Cultivating a Cyber-Security Culture in the EPES Sector

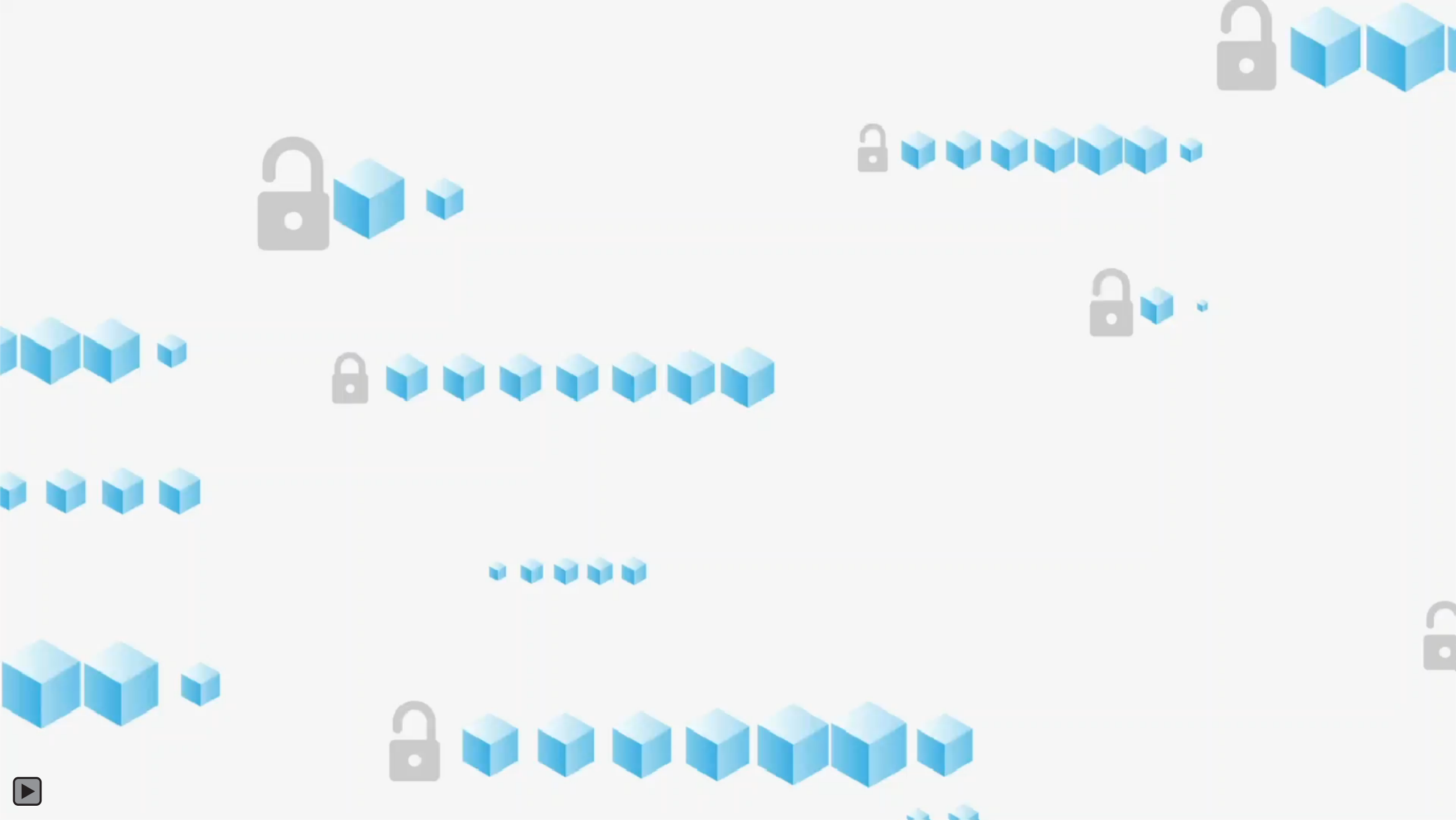
Facilitator: Anna Georgiadou (DSS Lab, NTUA)





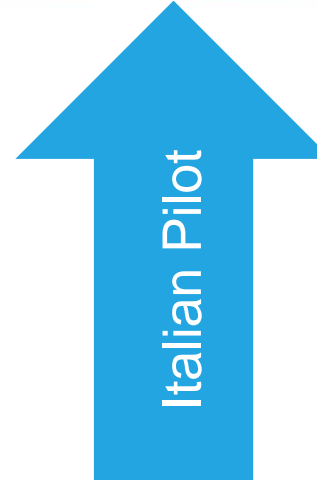
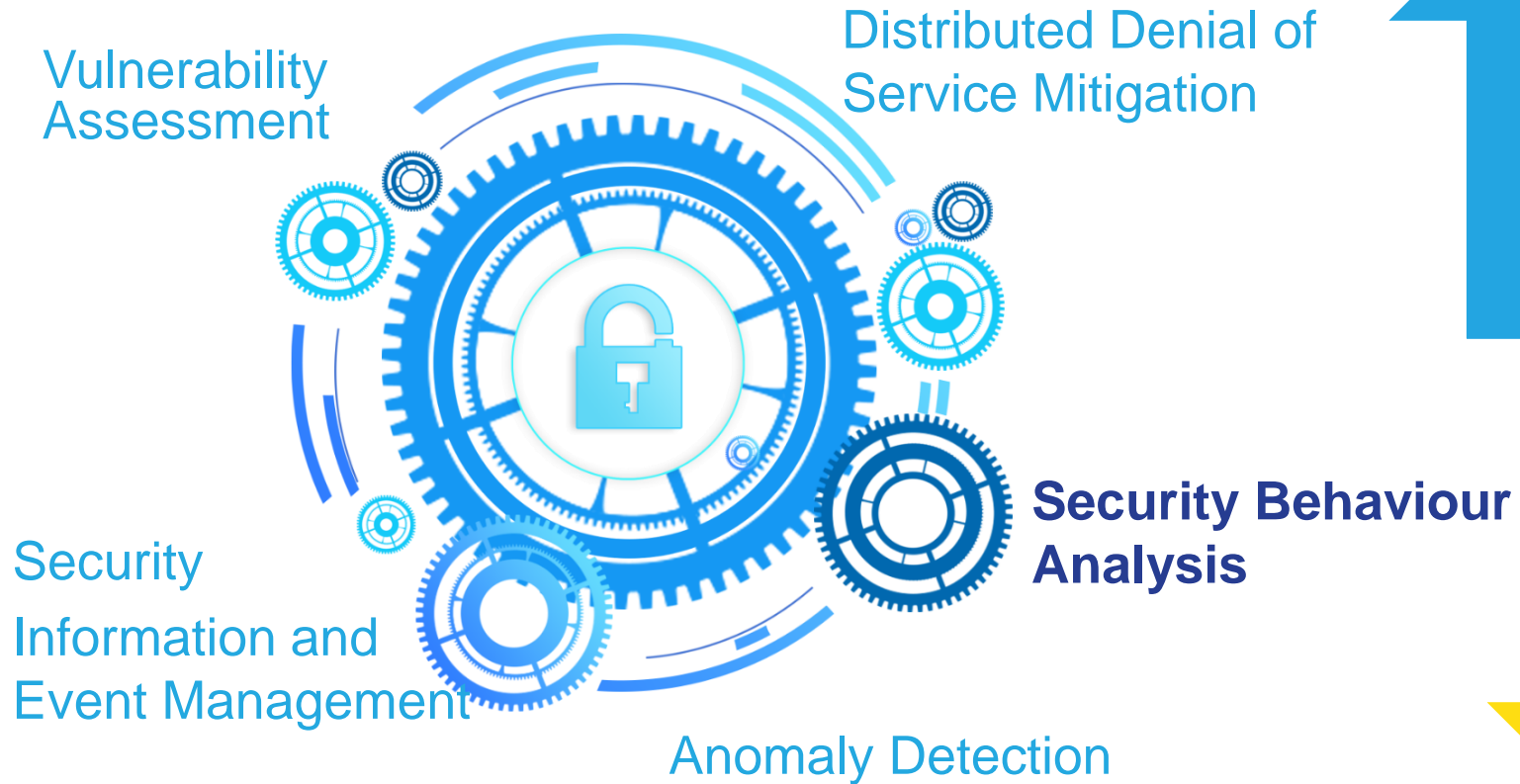
ENERGYSHIELD PROJECT IN A NUTSHELL

- **Title:** Integrated Cybersecurity Solution for the Vulnerability Assessment, Monitoring and Protection of Critical Energy Infrastructures
- **Type of Action:** Innovation Action
- **Topic:** SU-DS04-2018-2020
 - Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches
- **Goal**
 - EnergyShield captures the needs of Electrical Power and Energy System (EPES) operators and combines the latest technologies for vulnerability assessment, supervision and protection to draft a defensive toolkit.
- **Start date:** 1st of July 2019
- **Duration:** 36 months
- **Grant:** € 7,421,437.38





ENERGYSHIELD TOOLKIT



Small scale attacks

- Targeting specific organization
- Meant to prevent them from conducting business normally
- e.g. *Distributed Denial of Service, ransomware*

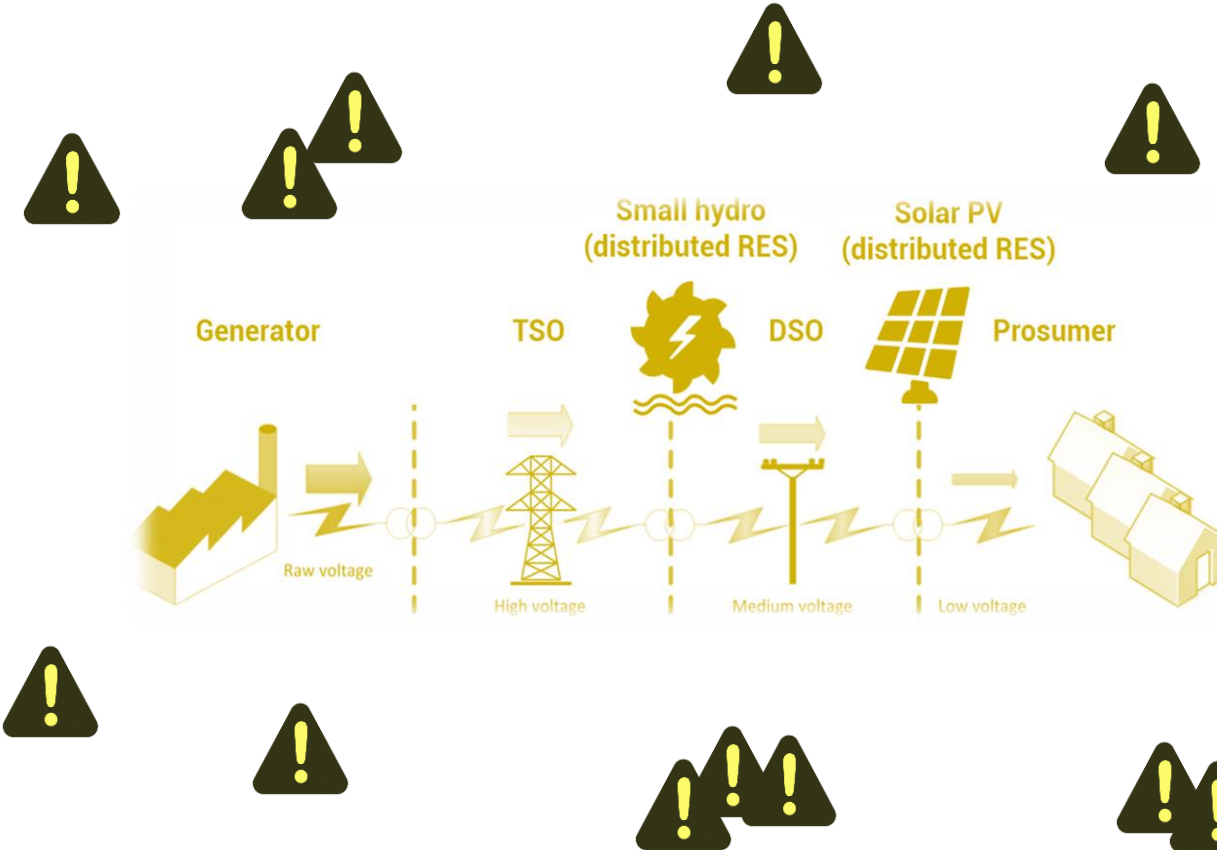
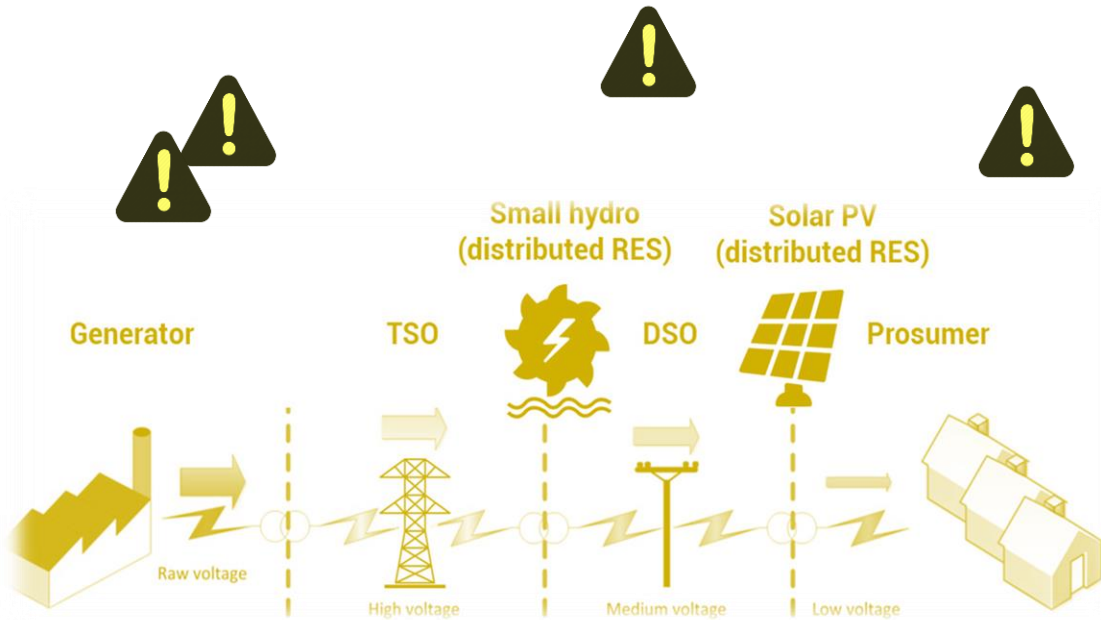


Large scale attacks

- Targeting the entire EPES value chain
- Meant to take down the energy supply services at regional or country level
- e.g. *malware deployment, man-in-the-middle*



THE NEED: INSIDER THREAT

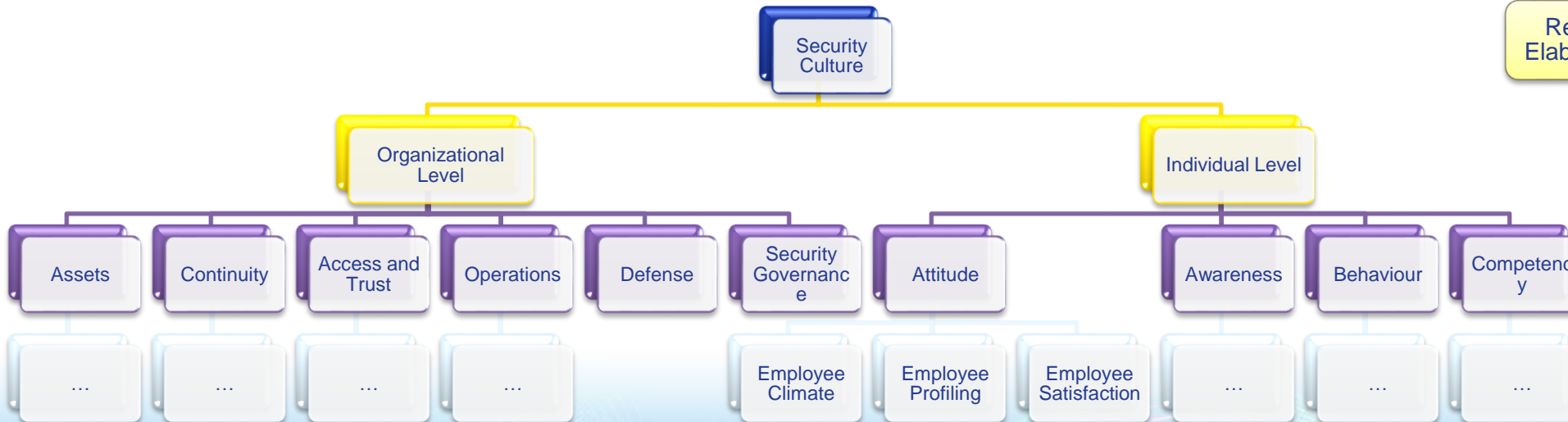




THE SOLUTION: SECURITY BEHAVIOR ANALYSIS TOOL

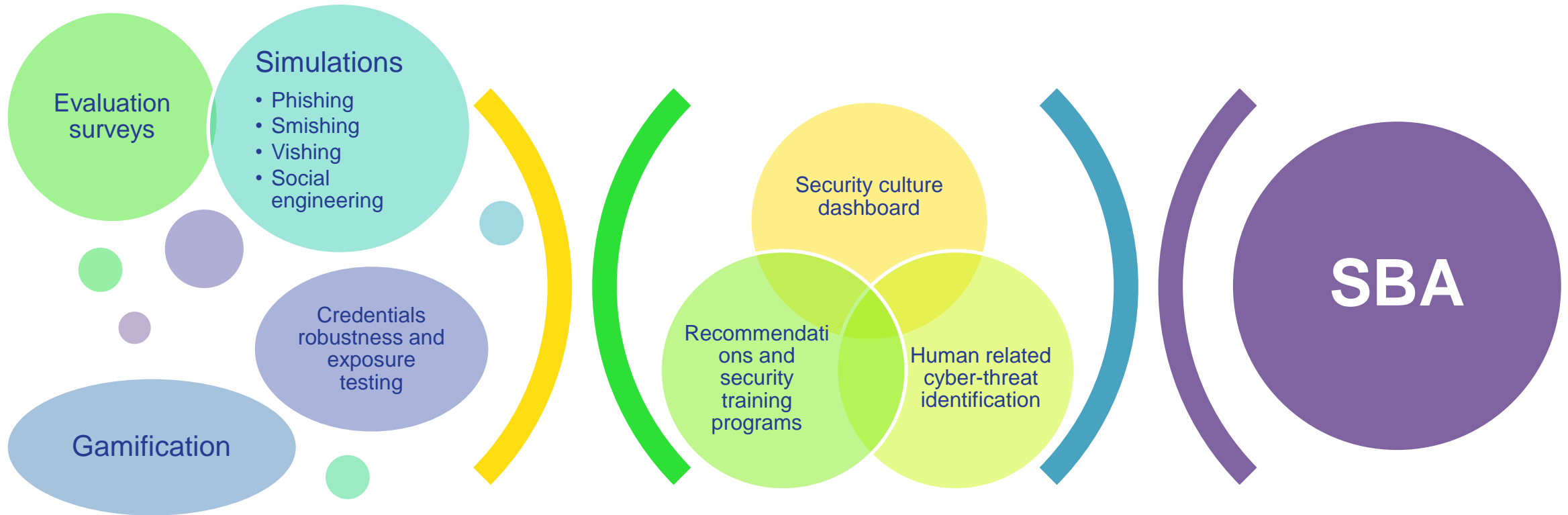
Tool features:

- Founded on a cyber-security culture model: **levels, dimensions and domains**
- Evaluation methodology: **campaigns and self-assessment** possibilities
- Socio-cultural behaviour mapping to specific **cyber-threats**
- Decision-making insights and **recommendations** towards security culture improvement
- Assistance into planning and implementing **security culture training programs**
- Open, highly **customizable** and **interoperable** with third-party components





SECURITY BEHAVIOR ANALYSIS TOOL





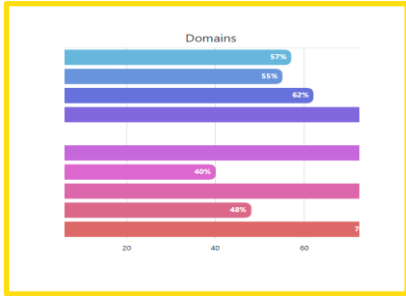
CHALLENGES

- Security framework verification
- Security controls adjustment
- Weighting system definition and calibration
- Exploitation of evaluation results to identify:
 - further assessment needs
 - unexploited evaluation techniques
 - underestimated security facets.





SBA – DEMO



Dashboard

Active assignments: Cybersecurity Awareness I (Due: June 20, 2020), Cybersecurity Awareness II (Due: June 18, 2020), General Security Quiz Advanced (Due: June 20, 2020), General Security Quiz Starter.

Active Campaigns

- Access and Trust Campaign
- Operations Campaign
- Individuals campaign

Organisation Status

Organisational Dimensions: Access and Trust, Operations, Defense, Continuity, Assets, Security Score.

Individual Dimensions: Awareness, Behaviour, Attitude, Competency.

Profile: Anna Georgiadou

Department: Information & Security
Company: HELLASPAK

Status	Assignment	Score	Completion Date	Expiration Date
Completed	Equip yourself with...	100%	May 12, 2020	May 15, 2020
Completed	Personal Data Protection Management	100%	May 12, 2020	May 15, 2020
Not Started	Security Questionnaire			May 20, 2020
Completed	Security Agent Survey	100%	May 12, 2020	May 15, 2020
Completed	Big Five Personality Test	100%	May 12, 2020	May 20, 2020
Completed	Overall	100%	May 12, 2020	May 15, 2020

Assignment	Score
Equip yourself with...	100%
Personal Data Protection Management	100%
Security Questionnaire	
Security Agent Survey	100%
Big Five Personality Test	100%
Overall	100%

My Self Evaluation History

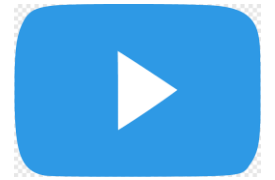
Title	Domain	Dimension	No. Questions	Score
Security Agent Survey	Security Agent Persona	Behaviour	5	100%
Security Agent Survey	Security Agent Persona	Behaviour	5	100%
Big Five Personality Test	Security Agent Persona	Behaviour	5	100%
Big Five Personality Test	Security Agent Persona	Behaviour	5	100%





ENERGYSHIELD CONTACT DETAILS

- Find us: www.energy-shield.eu
- Subscribe for our Newsletter
- Follow us: @EnergyShield_
- Join our LinkedIn group: EnergyShield
- Contact us: EnergyShield@siveco.ro
- Video presentation: <https://www.youtube.com/watch?v=AtSUMkrp1Dw>





ENERGY SHIELD

THANK YOU | QUESTIONS

DEVELOPING THE CYBER-TOOLKIT THAT PROTECTS YOUR ENERGY GRID



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