



# CybExer Technologies

Your Cyber Range Partner

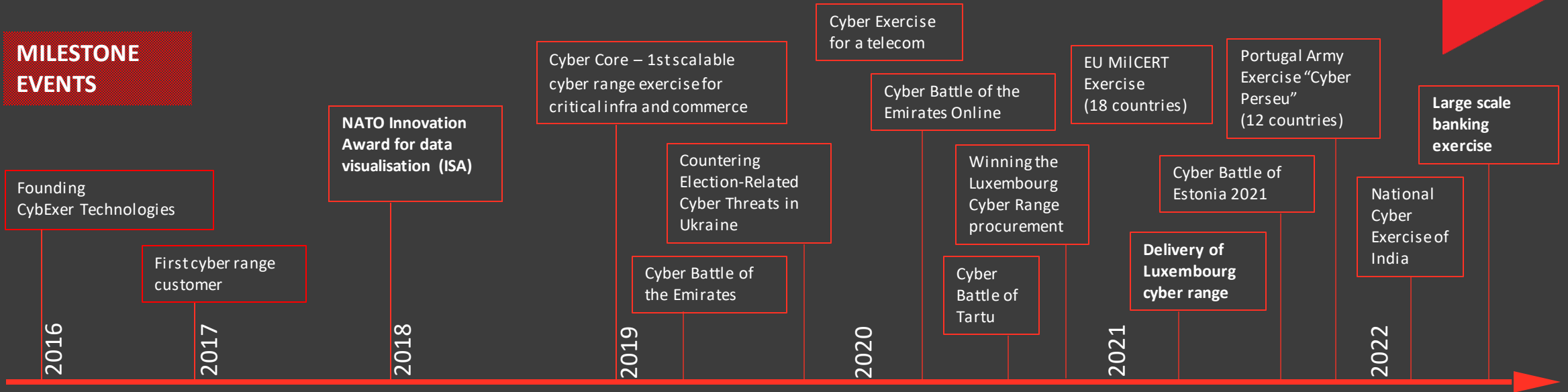


## Our mission and vision

Building technology  
to address cyber skills gap

# The Story of CybExer

## MILESTONE EVENTS



Start productization

Move to Cloud

Towards SAAS

## TECHNOLOGY DEVELOPMENT

# What is a Cyber Range?

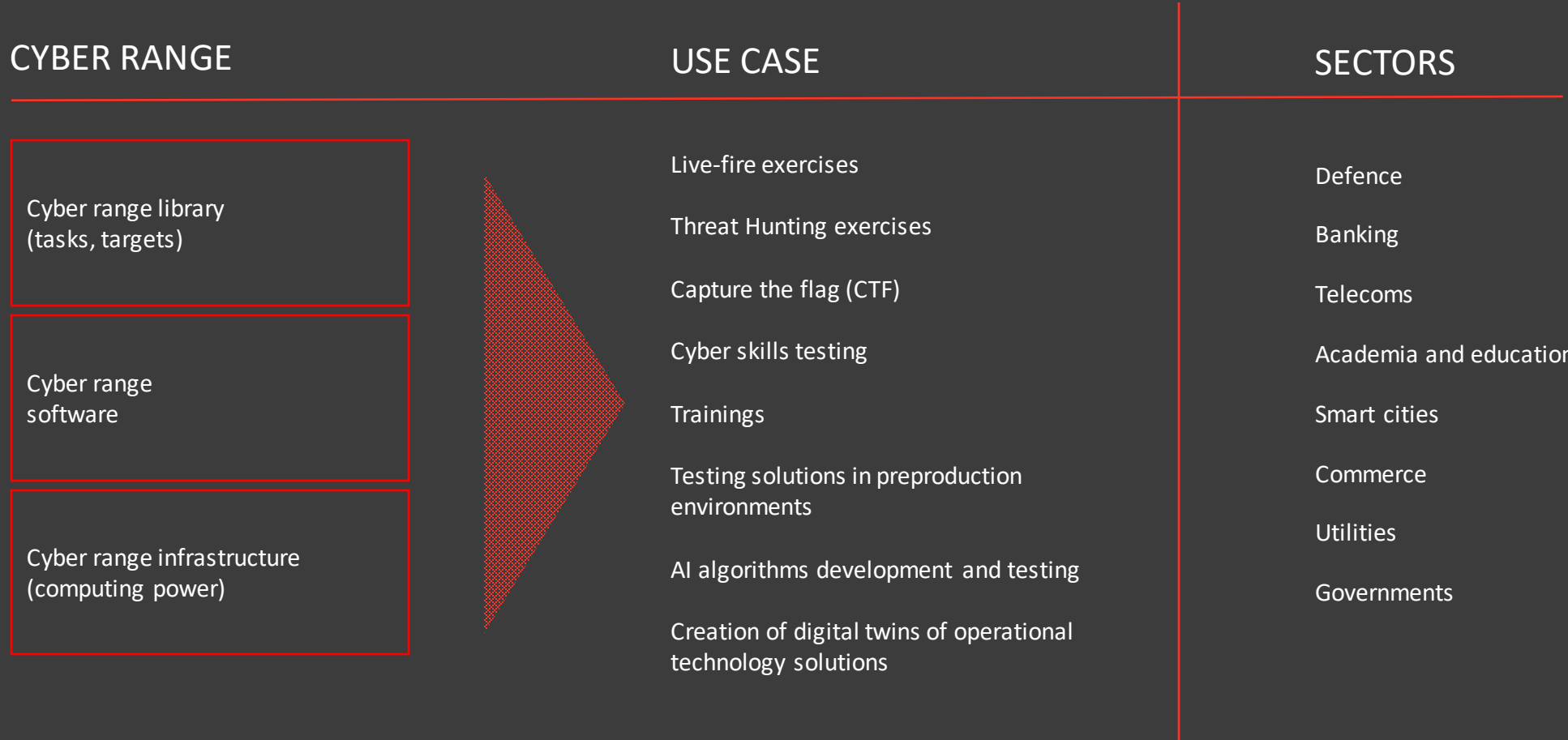
A cyber range is a place, both virtual and physical, designed for cyberwarfare training. It can be used by companies to assess

- readiness for an attack,
- or as a practice field for people looking to get into the cybersecurity field.

This virtual environment allows you to practice your skills and simulate attacks on how to best detect, respond, and prevent cyber incidents in a safe environment without making any real-life damage.

A cyber range not only provides the means for simulating real-life scenarios, but can be used as a tool for security/technology testing and research & development activities as well.

# Cyber Range as Part of Cyber Security Toolbox



# Technical Exercises – Live-fire

**Live-fire exercise** is designed to practice response to a cyber crisis according to a realistic pre-defined scenario, which gives a realistic training experience in defending IT-systems under intense cyber-attacks mapped to MITRE ATT&CK.

## Learning Objectives

- Fostering cooperation between defence actors
- Rehearse specific defensive measures
- Live reaction, planning of defence and enhancement of the environment
- Monitoring and analysis of attacks
- Generalisation and synthesis of information
- Discovery and understanding of sophisticated attack patterns and vectors against the targets
- Stress handling and decision making under multiple bad choices.



# Technical Exercises – Threat Hunting

**Threat Hunting** is a task-driven live-fire exercise with a focus on response and investigation activities. Defenders must monitor the environment for detecting offensive actions and perform post attack investigations.

## Learning Objectives

- Fostering cooperation between blue teams
- Monitoring and analysis of attacks
- Generalization and synthesis of information on the attacks.
- Discovery and understanding of sophisticated attack patterns and vectors against the targets.
- Improving teamwork: delegation, dividing and assigning roles, leadership.

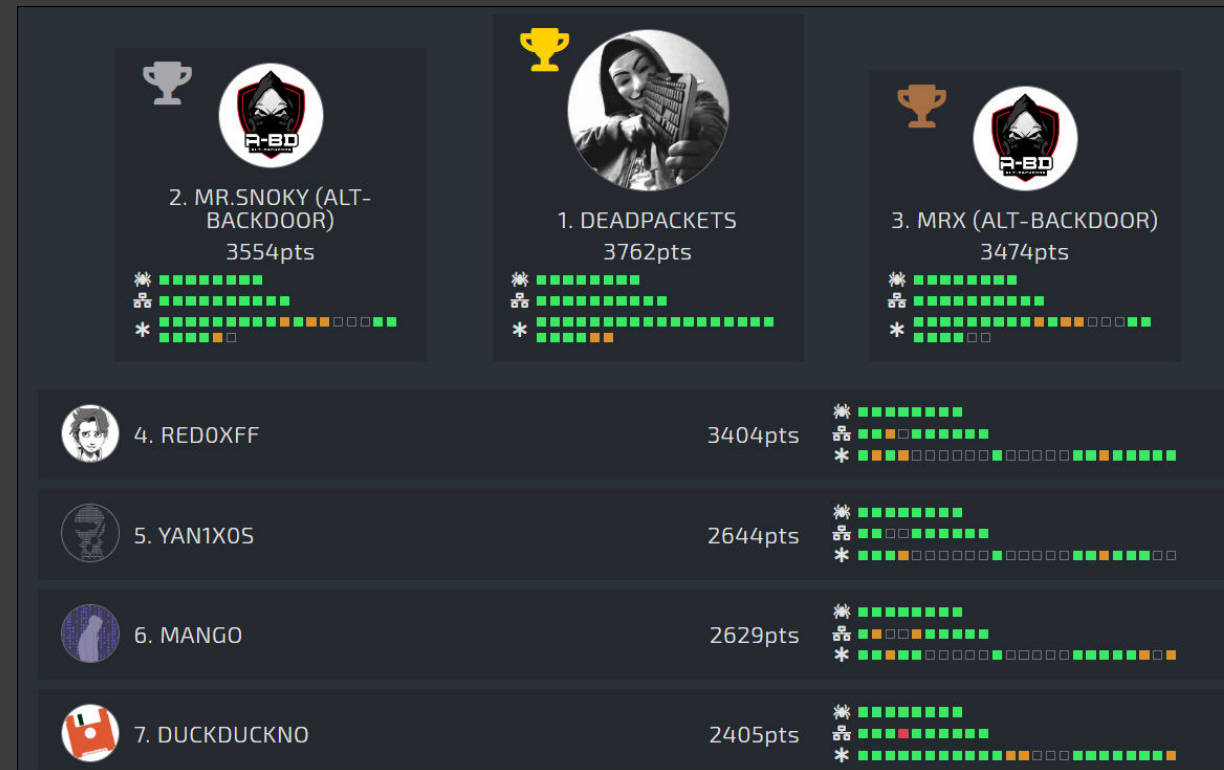


# Technical Exercises – Capture The Flag (CTF)

**CTF trainings and competitions** are Jeopardy-style events where participants must find clearly defined answers to series of questions and provide a “flag” as a response.

## Learning Objectives

- Mastering hacking techniques to understand how bugs in software can be exploited
- Mastering skills to quickly find answers or tools from open sources
- Improve creative thinking skills
- Raise awareness of state-of-the-art exploits and latest vulnerabilities.



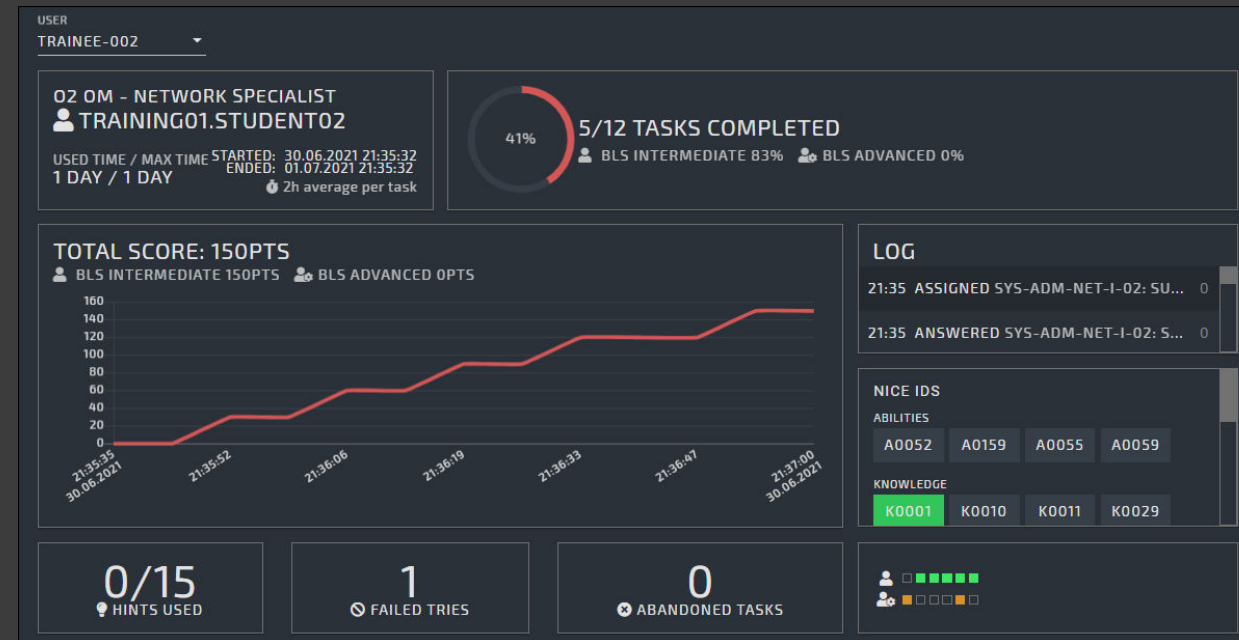


# Technical Exercises – Cyber Skills Testing

**Cyber Skills Testing Range (CSTR)** provides training, education, and internal certification services for cyber security professionals.

The participant performs **tasks in a real-world environment** with objectives, automatic scoring, and results are focused within a Professional Development Plan (PDP) so that participants have clear objectives and a pathway forward for career progression.

CSTR is based on the United States National Initiative for Cybersecurity Education (**NICE**) – the most prominent cyber workforce standard in the world.



# Research and development

CybExer is participating in several R&D projects.

We constantly evolve and integrate new systems to our cyber range to stay ahead of the curve.

- Satellites and Satellite Operation Systems
- 5G
- Drones and Counterdrones
- Smart City Sensors
- SCADA
- HVAC
- Power Grid
- Unmanned Aircraft Systems
- Oil and Gas



# Partners and clients



University of Tartu, Army of Portugal, UK Strategic Command, TalTech, Marduk, Threod Systems, Thinnect, Student Satellite ESTCube-2, Estonian Ministry of Foreign Affairs, CR14, CGI, e-Government Academy, +undisclosed clients

Thank you

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TECHNOLOGIES

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