

AIT Cyber Range

Next-level cybersecurity

In an increasingly digital world, it takes more than just one functional cybersecurity system – particularly with regard to organizations that regularly deal with sensitive data. To ensure employees and security personnel are always up-to-date on the latest systems and ready to take on an ever-changing landscape of virtual threats, the right training – and expertise – is essential. AIT Cyber Range provides organizations with an innovative training platform using realistic, state-of-the-art scenarios and simulations to effectively train both individuals and the systems they work with, and fully prepare them for future cyber attacks – an important step towards increasing the cyber resilience of Austrian organizations as a whole.

How it works

The AIT Cyber Range is a dynamic, scalable virtual training and learning platform based largely on open-sourced technology for simulating a range of different IT/OT threat scenarios in all areas of public administration and business. While specifically developed for organizations dealing with sensitive data, e.g. public authorities or critical infrastructure, it is suitable for any industry and hierarchy level, from IT professionals to executive level. The system is built on four main pillars (computing platform, infrastructure provision, software provision, scenario engine) to enable comprehensive, 360-degree-simulations and realistic scenarios. The goal: Increasing risk awareness, training personnel in a highly targeted way – and contributing to the cyber resilience of Austrian companies, resulting in safer and more secure digital services for Austrian citizens.

The Big Picture

The number of potential virtual threats is growing every day – which makes it more important than ever for organizations to be prepared for emergencies. With the AIT Cyber Range – Training Center, this goal can be achieved in a needs-based and targeted way. By using realistic and individually configurable training scenarios, the Cyber Range equips IT/OT experts with comprehensive skills, knowledge, and strategies to counter a wide range of threats safely and effectively. In addition, it helps them practice effective measures and recovery steps after cyberattacks and other crises in organizations, companies, and even entire states. And since the AIT Cyber Range is largely based on open-source technologies, it enables continuous further development and opens the door to a variety of follow-up innovations as new types of threats emerge.

Quick Facts

- Solution area: **Organisations, Processes, Technological innovation**
- Administrative level: **State, Federation**
- Solution process: **Digitization and technology, Public service, Science and research, Security and defense**
- Technology: **Digital twin, Information technology, Internet of Things, Networks**