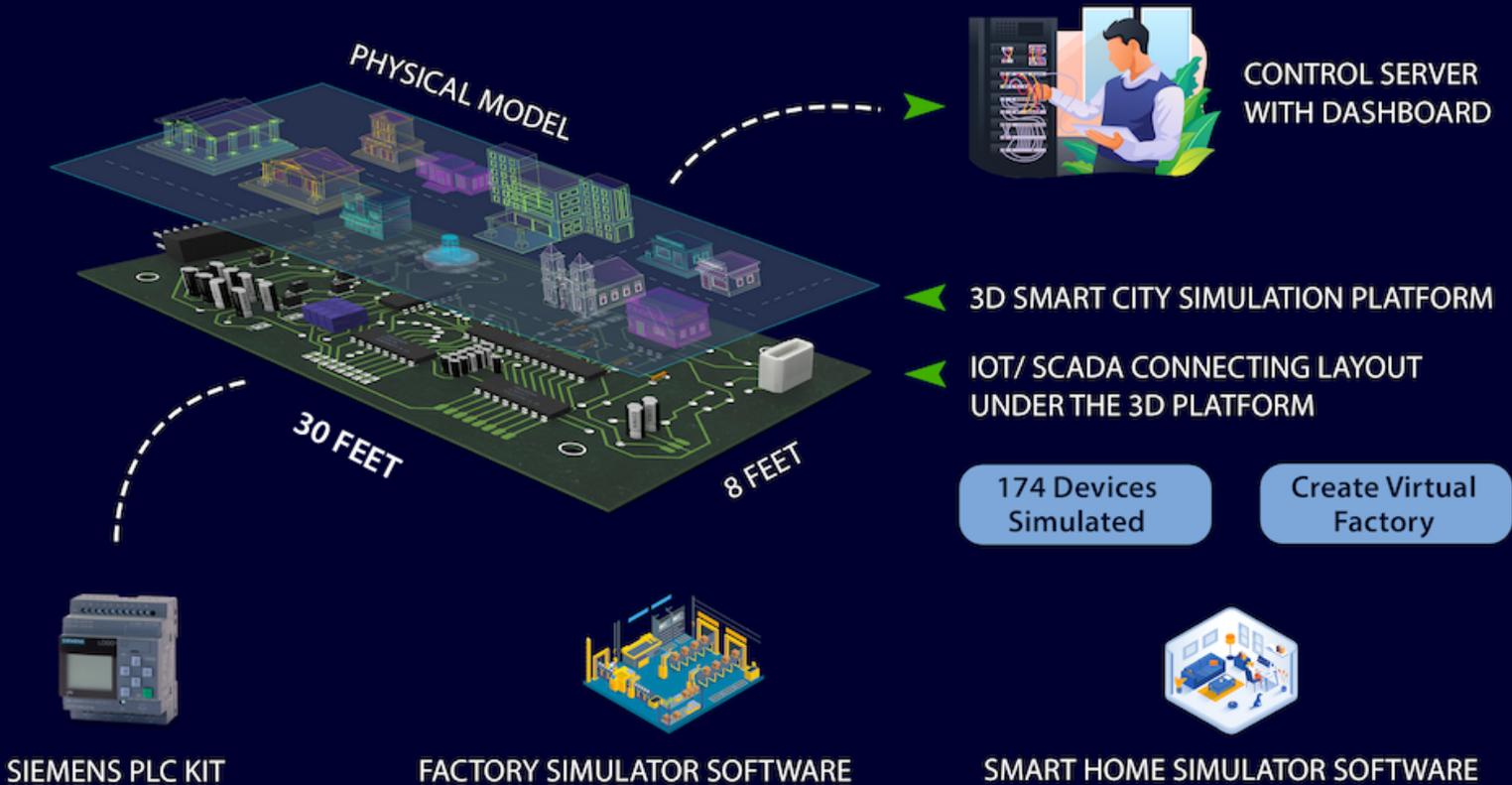**cyberange**

Cyberange ® Smart City Simulator

30 Feet x 8 Feet CPS for Cyber Security

With smart cities emerging rapidly across the globe, there is a massive digital transformation happening within each country. There is an urgency to improve protection profile, posture, robustness and resilience of Critical Information Infrastructure (CII) assets against any Cyber-attacks and incidents by both state and non-state actors.

**Smart City Simulator
Cyber Physical System
IoT and SCADA Simulation**

The Internet of Things (IoT) is a term used to describe the continually growing network of internet connected electronic devices that are in operation around the world today. Tens of billions of these IoT connected devices already exist around the world and this number will only grow as internet connectivity begins to become a standard feature for a great number of electronics devices. The Smart City Simulator (focused on IoT/SCADA) is a unique next generation simulation platform based on gamification and virtualization for cyber security.

![cyberange logo]

Massive 30 Feet by 8 Feet Model
- Table top of smart-city with pre-built scenarios of cyber security
- Integrates Siemens SCADA PLC
- Multiple IoT Sensors

Virtual Factory Software
- Create a virtual factory using a palette of industrial parts, including sensors, conveyors, elevators, stations, and many others.
- Work with most common Industrial applications and automation technologies including Modbus, OPC and other top PLCs.

Ready Simulations out of the box
- With 40+ ready-to-use scenarios inspired by typical industrial applications to practice real world control tasks.

Smart Home Simulation
- The smart home security simulation has everything you need to create and monitor a real-time smart home simulation.
- With a built-in home console, you can monitor, control and secure a virtual home by creating smart home scenarios.
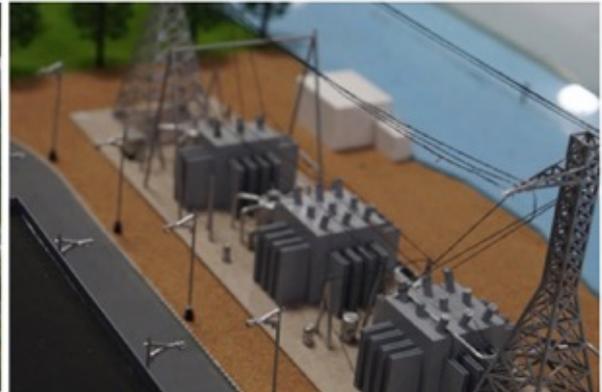
Real-world attack scenarios
- Includes real world attack scenarios on Traffic Lights, Hospitals, RFID Hacking, Toll Booth, Water Treatment Plant, HVAC attack, Transport Security, Smart Meter Security and more

Train 20 participants Concurrently
- Independent control of scenarios allows you to train 20 participants concurrently, allowing each delegate to focus on simulation of their choice.

DEPLOYMENT

SPECIFICATIONS

Component	Smart City Simulator
Custom fabricated Smart City Simulator size	30 Feet by 8 Feet
Security Smart City Security Scenarios	30
Aviation Sector Cyber Security Scenarios	26
Virtual Factory Tool	Yes
Facility to connect real PLCs to the virtual factory to program and control	Yes
Virtual Smart Home simulation	Yes
Electrical outlet for laptops	20
Concurrent sessions supported	20
LED TV (4 Units)	55 Inch wall-mount
Glass shield separator	0.5 cm plus
Laptop Placeholder	Laminated Wood with White leatherite cover
Scale for 3D Models	HO Scale
Demo Controller System	Processor: 2.6 GHz Memory: 8 GB Storage: 256 GB SSD storage Display: IPS Display screen Operating System: Microsoft Windows 10 - Home Graphics: AMD Radeon Graphics Keyboard & Mouse
PLC Devices	I/O Capacity 48, Comm RS232, Serial RS422/485, Ethernet, Display 128x64 px, MODBUS RTU Master/Slave, Data logging support (up to 32 GB)
IOT Sensors	Yes
IOT Devices	Yes
Dashboard Control System	Yes

Detailed IOT Specifications available on request.

www.cyberange.io