

# Project Overview

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2<sup>nd</sup> Info Day & Open Call Launch Event

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This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No 101120779 .

## Project Full Title

**An innovative VR-based intrusion detection, incident investigation and response approach for enhancing the resilience, security, privacy and accountability of complex and heterogeneous digital systems and infrastructures**

# Project ID



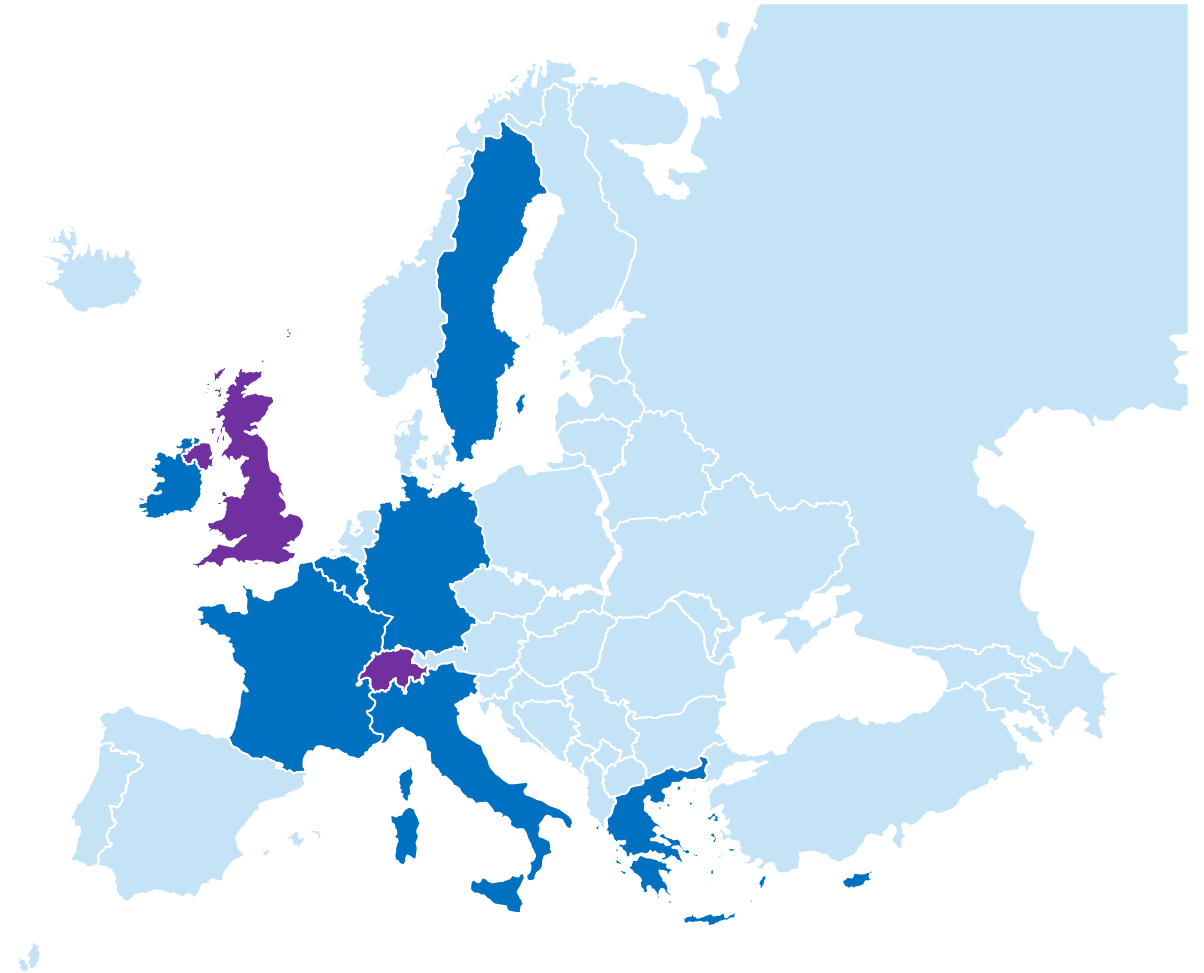
**Call:** HORIZON-CL3-2022-CS-01

**Reference No:** 101120779

**Type of Action:** Innovation Action (IA)

**Total budget:** 6,992,875.00 €

**EU funding:** 5,749,637.50 €



# Consortium



Industry



University



SMEs



Association



# The Vision



- To democratize and combine **Artificial Intelligence-enabled** tools to provide a better prediction of cybersecurity threats and related risks and an efficient and dynamic selection of incident response against cybersecurity attacks that may target the digital infrastructure.
- To professionally integrate **Virtual Reality (VR)** to provide situational awareness for the detected incidents, risks, and responses in real-time.
- To optimise the **collaborative response** among the stakeholders within the Digital Infrastructure ecosystem by developing privacy-aware information and knowledge-sharing mechanisms

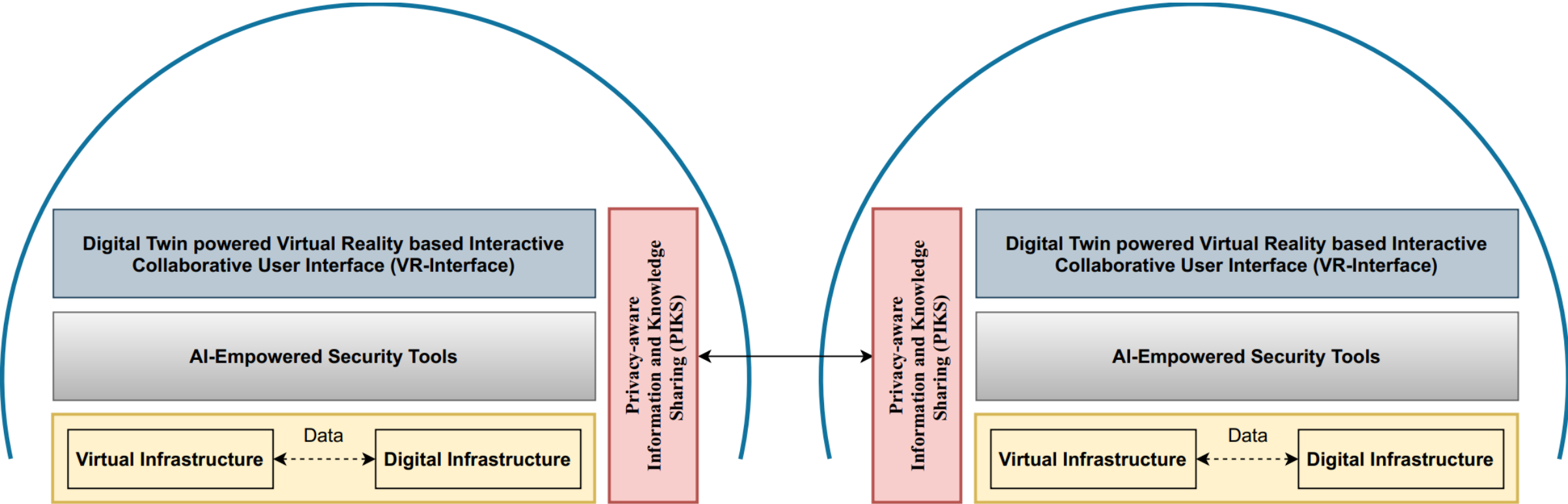


# Objectives

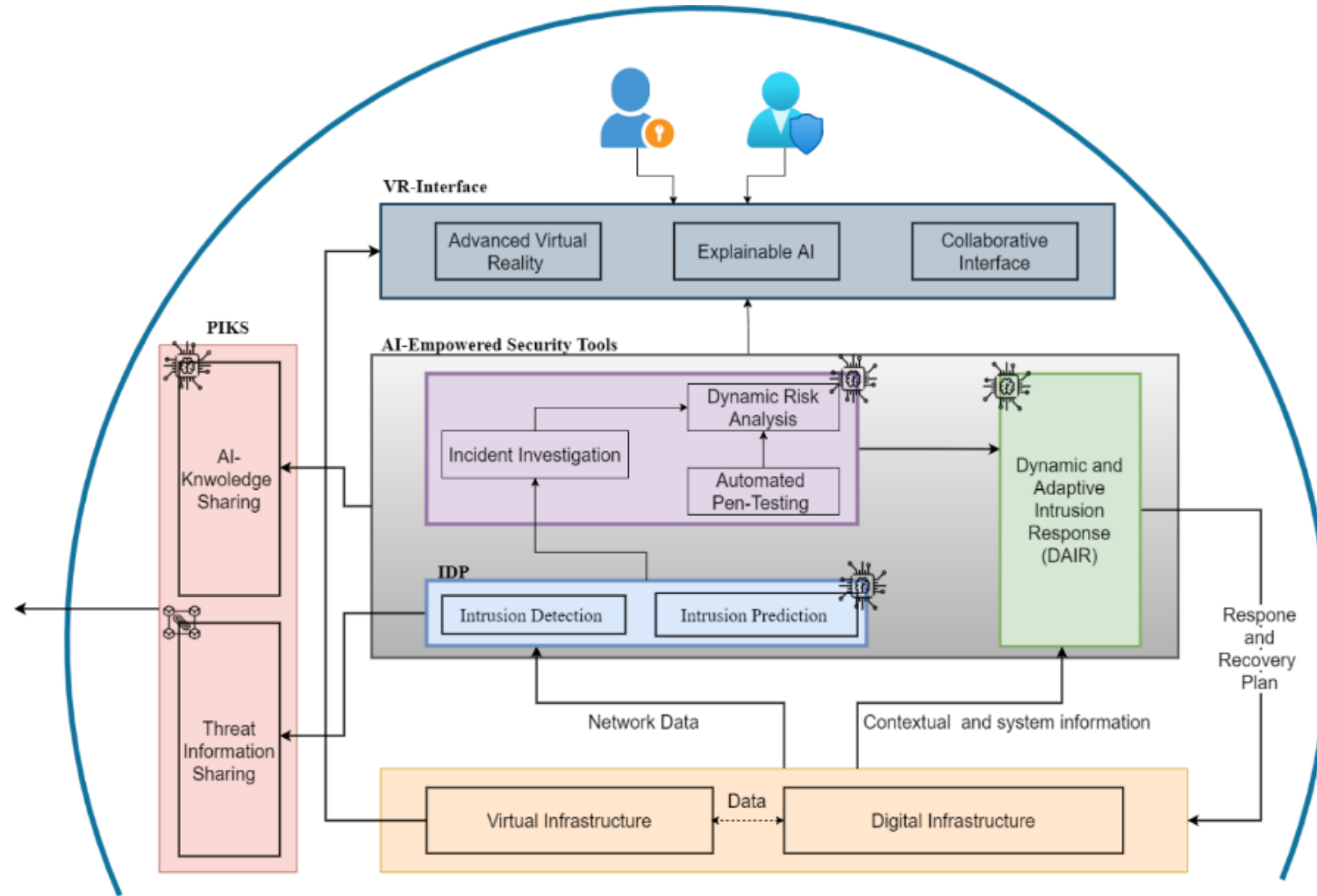


- **Obj. 1:** Increase the **disruption preparedness** and **resilience** of digital infrastructure
- **Obj. 2:** Provide **dynamic cyber-incident response capability** for digital systems and infrastructures
- **Obj. 3:** Enhance **coordinated cyber-incident response** among different digital infrastructures and systems at the national and European levels
- **Obj. 4:** Provide **high cybersecurity levels** via a set of policies and **AI-based methods** for effective and **real-time management** in a proactive way of all the security issues.
- **Obj. 5:** Provide **better interfaces** between humans and cybersecurity algorithms
- **Obj. 6:** Develop solutions to **automate penetration testing** for proactive security using data-driven AI
- **Obj. 7:** Achieve **pilot-driven prototypes** of CyberSecDome security services ready for internal and external (Open Call) **deployment and validation**

# CyberSecDome – The Big Picture

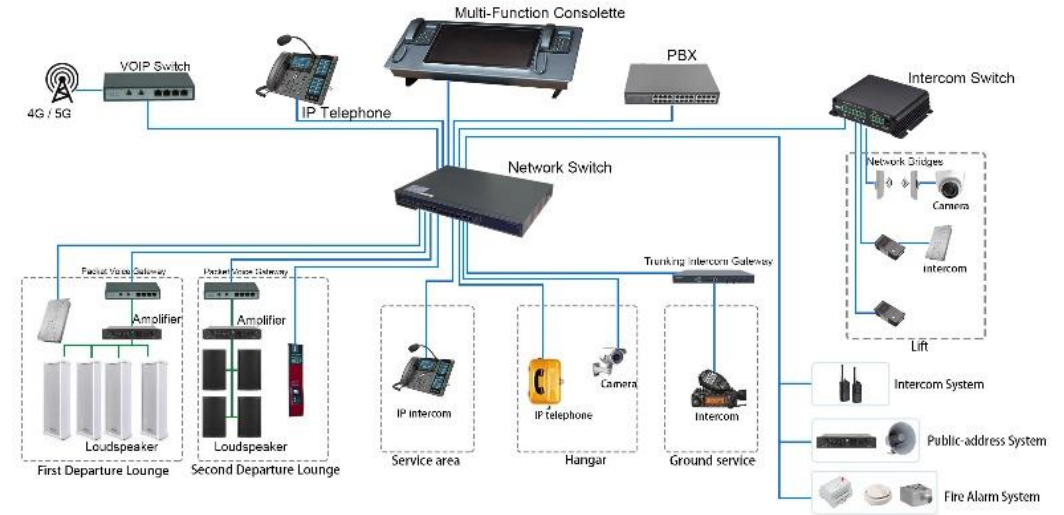
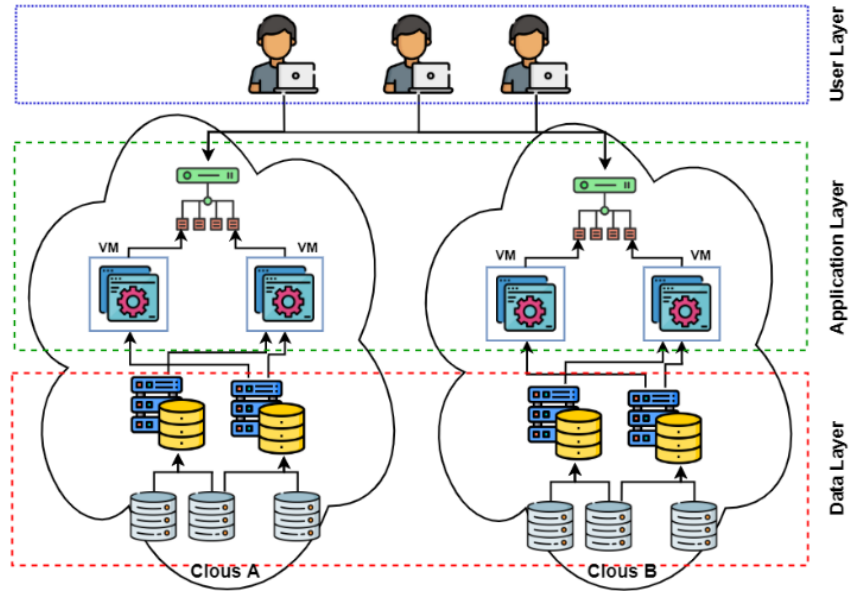


# CyberSecDome – The Detailed Picture





# Pilots



## Telecommunication



## Airport

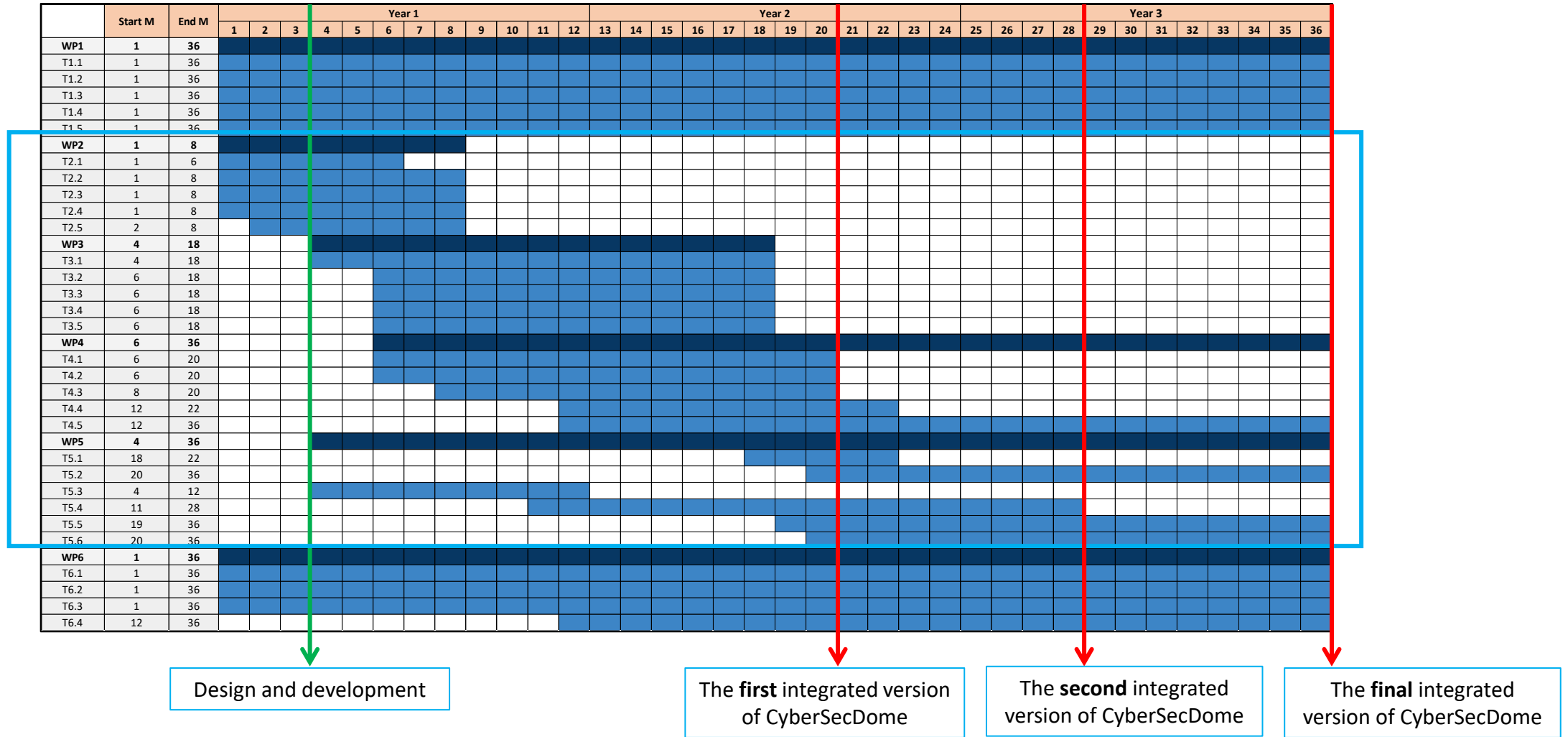


# Innovation and Key Results



- **KER 1:** Dynamic and Adaptive Incident Response (DAIR)
- **KER 2:** Privacy-aware Information and Knowledge Sharing (PIKS)
  - Module 1: Cyber Threat Intelligence
  - Module 2: AI Knowledge
- **KER 3:** Intrusion Detection and Prediction (IDP)
- **KER 4:** Incident Investigation (II)
- **KER 5:** Dynamic Risk Assessment (DRA)
- **KER 6:** Automatic Pen-Testing (APT)
- **KER 7:** VR-based Collaborative Interface (VR Interface)
- **KER 8:** CyberSecDome Integrated Platform

# Work plan



## Contact



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Thank you

Any question? !!?