

## Secure OPen source softwarE & hardwaRe Adaptable framework

SecOPERA will provide a one-stop hub for complex open-source software and open-source hardware (OSS/OSH) solutions delivering to system designers and operators and OSS/OSH developers and testers the means to analyse, assess, secure/harden, and share open-source solutions. The SecOPERA hub will offer an open-source framework supporting the DevSecOps lifecycle and generate solutions along with appropriate, verifiable security guarantees.

SecOPERA introduces an innovative security-assurance approach based on the decomposition of functionally similar layers (device, network, application, cognitive). The SecOPERA hub will generate a secure flow comprising a sequence of security credentials derived from security audit/testing of open-source components, each belonging to one of the aforementioned layers.



## **Objectives**

Provide a complete security auditing-testing toolbox

Research and develop security hardening and enhancement of open-source solutions

Deliver adaptable security solutions for the open-source community

Establish the SecOPERA hub with a pool of open-source solutions

Develop the SecOPERA framework with tools to support the secure development lifecycle

Validate SecOPERA solution in two industrial pilots across several use cases

Provide a viable, open-source compliant exploitation and business model



### **Impact**

### Scientific

Secure disruptive technologies

#### Societal

Strengthened digital infrastructures, systems, and processes Enhanced EU cybersecurity capacity and sovereignty in digital technologies Reinforced awareness and fostering cybersecurity culture

### Techno-Economic

Increased software, hardware, and supply chain security Smart and quantifiable security assurance and certification across the EU

### **Pilots**

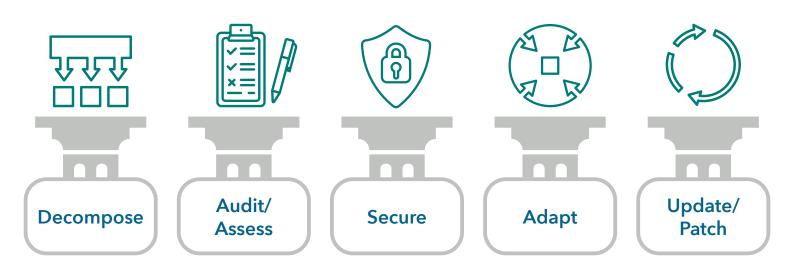
# Secure Supply Chain in Automotive Industry

Establish a highly secure operation between Pierer Innovation (OEM) and VoXel (Tier 1) that safeguards customer privacy and ensures adherence to current cybersecurity standards throughout the entire development pipeline.

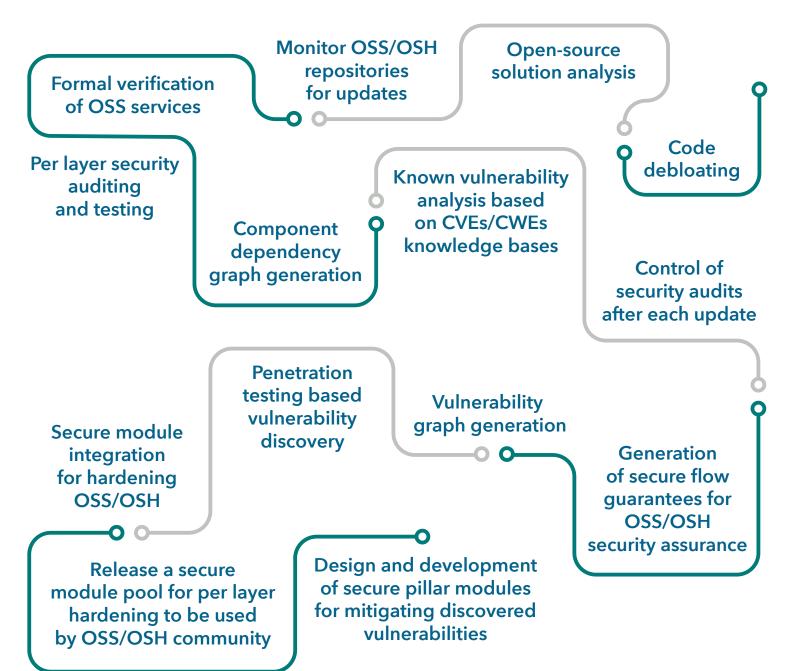
## Water Management IoT Critical Infrastructure

Construct high-standard security solutions for the Greencityzen's IoT water-management environment in line with the EU Cybersecurity Act.

### **Pillars**



### **Functionalities**



### Consortium



























#### **Project Coordinator**

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Call: HORIZON-CL3-2021-CS-01 **EU Contribution:** € 4,581,135.00







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