



# PUZZLE

**SAFER TOOLS. BETTER PERFORMANCE.**

Towards a Sophisticated SIEM Marketplace for Blockchain-based Threat Intelligence & Security-as-a-Service

## Vision

PUZZLE aims to enhance the **security & operational** assurance of even the smallest enterprises which constitute the backbone of today's digital economy. By offering a collection of novel security services through a marketplace, which is easy to adopt & deploy within SMEs business ecosystem, PUZZLE enables the **provision & orchestration of network security management and edge trust assurance services** capable of protecting against a wide range of attack vectors.

## Challenges

SMEs & MEs suffer from:

- ✓ limited capabilities that can be allocated towards the instantiation of cybersecurity best practices;
- ✓ no systematic approach for ensuring cybersecurity & resilience;
- ✓ cyber attacks from which they can not recover end-to-end digital services with high exposure front & strict security & privacy concerns;
- ✓ end-to-end digital services with high exposure front & strict security & privacy concerns
- ✓ limited hands-on experience & resources to tackle cybersecurity threats.

## Main goals

The PUZZLE framework envisions to offer the following value propositions:

- ✓ Develop a cybersecurity, privacy & data protection management framework;
- ✓ Facilitate the collection, processing & exchange of data & knowledge sharing among SMEs respecting cyber threats & vulnerabilities;
- ✓ Provide a set of network & edge cybersecurity functional primitives as a service;
- ✓ Suggest optimal mitigation strategies and policies & support their enforcement;
- ✓ Increase cybersecurity situational awareness & preparedness of SMEs and MEs, through an innovative set of monitoring tools.

## Approach

The key technologies applied in PUZZLE to enhance the security & privacy posture of SMEs are:

- ✓ Marketplace for cybersecurity solutions & services;
- ✓ Programmable Network Security Mechanisms;
- ✓ Advanced Cybersecurity Analytics
- ✓ Dynamic Real-time Risk Assessment;
- ✓ Edge Trust Assurance Services based on the use of trusted computing technologies;
- ✓ Blockchains for enhanced threat intelligence knowledge sharing;
- ✓ Deployment of Optimal & Adaptable Security Policies.

## Use cases



Solve security & privacy preservation issues on a cloud-based network media infrastructure & management platform for multimedia services.



Guarantee the safekeeping of cloud-based activity tracking Infrastructure & personal data monitoring services.



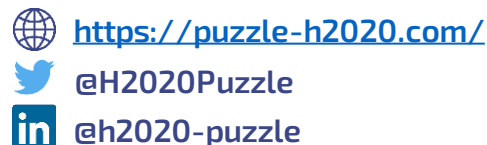
## Validation contest

Open testing & evaluation of PUZZLE innovations by SMEs through Validation Contracts.

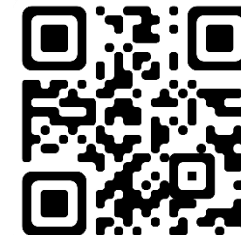
## Partners



## Contact information



SCAN ME 



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883540. The sole responsibility for the content of this site lies with the author and in no way reflects the views of the European Union.