SecureGas

Securing the European Gas Network

SecureGas project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 833017

SecureGas extended components

SecureGas Components

- **Technologies for situational Awareness and Decision Support for Cyber-Physical Threats**
  - Safety and Security platform for Gas CI (LDO)
  - Autonomous docking station and UAV based asset management (ADPM)
  - Onshore Landslide Susceptibility and Alert/Monitoring System (RINA-C)
- **Technologies for information processing and management**
  - Cyber physical correlator (WINGS)
  - Blockchain for data transmission and integrity verification (GT)
  - Cyber Security for IT and OT networks weakness (ELBIT)
  - WINGS Platform (WINGS)
- **Technologies for detection, identification and early warning**
  - Distributed Acoustic Sensing (DAS) for monitoring of leakages and third party intrusion in Oil & Gas pipelines (RINA-C)
  - Cognitive framework for biometrics and video analytics (IDMG)
  - Combined analytics for biometrics and video analytics (INNOV)
  - Sensors for detection, identification and early warnings (WINGS)
- **Technologies for Joint Cyber-Physical Security Risk Management and Resilience Modelling**
  - Cyber-Physical Security Risk and Resilience Modelling and management (EXUS, GAP)
  - Gas Network Advanced Modelling and Fast-Dynamics Simulation (FHG, JRC)
  - Risk-Aware Information to the population (INNOV)

Risk-Aware Information to the Population (RAW component)

DESCRIPTION

The main goal of the RAW component is to establish a reliable, accurate and efficient means of communication and information exchange between the operator (O&G organization) and the competent public authorities, first responders and even the general public with regard to emergency incidents.

The component captures raw data from the various sensors installed in the operator's premises, and after a combined risk analysis, creates alerts for the operator to be viewed via a specifically-designed dashboard. The RAW component offers the operator the chance to address incident reports to the coordination center of the public authority in charge, i.e. Civil Protection or equivalent, while it be easily integrated to any kind of third-party. In this way, it can allow competent users to securely communicate confidential information about incidents occurring within the operator's Critical Infrastructure installation to the designated public authorities or bodies, which will make sure that the concerned population will be informed about the incidents that may affect them in an efficient and secured way.

The RAW component aims at providing decision-support mechanisms and facilitating the communication of appropriate information to the public authorities within minimal time after an important security incident.

Risk-Aware Information to the Population (RAW component)

BENEFITS

The **MAIN BENEFITS** are:

(a) FAST INFORMATION SHARING between site operators and competent public authorities

(b) ACCURATE COMMUNICATION to timely tackle incidents and alerts

(c) COORDINATION among organizations for efficient incident response

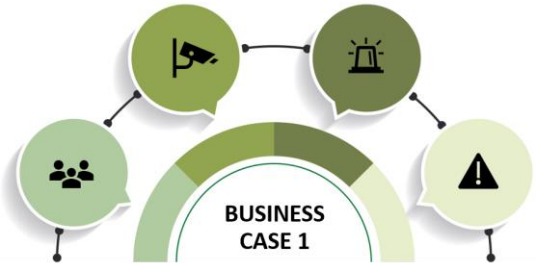
(d) LOGGING MECHANISM to securely keep all incident details for referencing purposes

(e) MESSAGE BROADCASTING to the genral public or other affected entities

Risk-Aware Information to the Population (RAW component)

APPLICATION CASE

- **Business Case 1**



TARGETS

- **Target End Users:**
  1) Critical infrastructure operators
  2) Public authorities, e.g. Civil Protection, Emergency Cooridnation Centre
  3) First responders, e.g. fire brigade service, police, ambulance service
- **Target Assets:**
  1) Energy plants and distribution networks
  2) Logistics, transportation and telecommunications sites

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