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S2_02_SaraVinklatova_Leitat.pdf

S2_03_GiraySadik_Ankara Yildirim Beyazit University.pdf

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S2_05_MichalPilc_PoznaS Supercomputing and Networking Center.pdf

S2_06_CsabaKrasznay_National University of Public Service.pdf

S2_07_NizarTouleimat_CEAtech.pdf

S2_08_TolgaSönmez_Havelsan.pdf



PITCH SESSION

- Pilot4resilience
- Pascaline Gaborit (Pilot4dev)

Our project idea : **Pilot4resilience**

1. To study **human factors** in the resilience to disasters (including the role of social media)
2. To develop **early warning tools**
3. To focus on **new threats** (Climate, cybersecurity) and on the SENDAI disaster framework
4. To **enhance first aid Responders**



Topic

- **UPEM (University of East of Paris) and Pilot4dev** have joined forces for the project “**Pilot4resilience**” to support **resilience to disasters (especially resilience to climate related disasters)**
- **We have 10 partners** : social sciences, engineering schools, technical universities, cities and ministries
- **We look for first aid responders as additional partners (in the EU)**
- **Keywords: Human factors, resilience, climate, disasters, tools**



Contact us!

Pilot4dev www.pilot4dev.com

Think-Tank

Pascaline Gaborit

0032 497578270

Pascaline.gaborit@pilot4dev.com



Pilot4DEV



Co-funded by the Horizon 2020
Framework Programme of the European Union

Thank you for your attention





PITCH SESSION

- Novel Smart City platform and tools for crowd protection
- Jordi Arias
- ETRA Research and Development



Company Overview

Industrial group forming part of ACS (4th largest Construction Corporation in the World)

1.800 employees and a turnover of 190M€, ETRA is market leader in the fields of technology, security, mobility, energy and public services. ETRA's activities include:

- **Security Management Systems** in the fields of mobility, public lighting, smart buildings, etc.
- **Intelligent Transportation Systems (ITS)**
- **Energy Management Systems**
- And in general, **real-time control and information management systems** aimed at improving the security and efficiency of organizations, increasing the safety, security and quality of life of people.

Ongoing Security Research Projects



LETS-CROWD. SEC-07-2016.

Coordinated by ETRA. LEAs tools for mass gatherings and human factors.

SAURON. CIP-01-2016 Transportation.

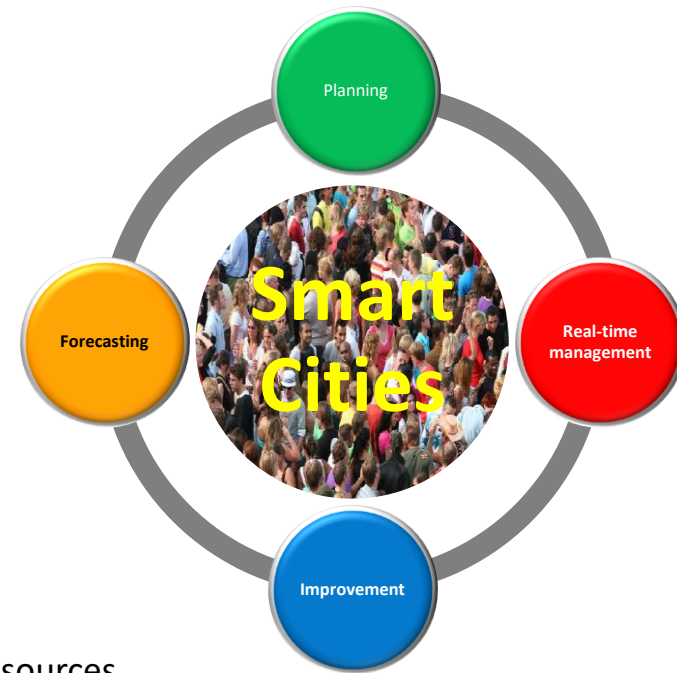
Situational Awareness Platform.
Vicinity interfaces, and connection to Smart City platforms.



Topic

SU-INFRA02-2019:: Security for smart and safe cities, including for public spaces

- To develop and integrate an open platform for:
 1. Forecasting,
 2. Planning,
 3. Real-time management and
 4. Improvement
- To *develop a system for smart cities* for the *protection of crowds* in urban areas against criminal and terrorist acts in EU.
- Main outcomes:
 1. Capability of **integrating and fusing information** from multiple sources
 2. Common **approaches for assessing risks/threats** and identifying relevant risk-based security measures
 3. **Framework for security practitioners**
 4. To create a platform, composed by a Command and Control Centre and a set of distributed sensors, on the one hand, **to collect information and manage a large crowd**, and on the other, to **react efficiently against any crime or terrorist attack**



Contact us!

- Proposed coordinator: *ETRA I+D (Large Company)*
- Looking for partners with the following expertise/ technology/ application field:
 - *City Manager operators*
 - *Security practitioners*
 - *Human factors / Crowd behavior*
 - *Big data with focus on social networks*
 - *Other complementary profiles...*



Jordi Arias

jarias.etraid@grupoetra.com

+34 96 313 40 82

ETRA Research and Development



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Thank you for your attention





PITCH SESSION

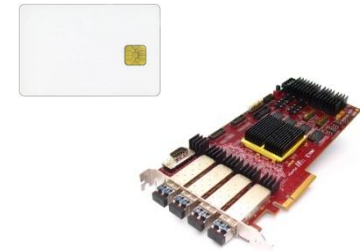
- Secure and Privacy-Preserving ID Cards
- Lukas Malina
- Brno University of Technology

Our project idea

Secure and Privacy-Preserving ID Cards

- Suitable calls: SU-DS03-2019-2020, SU-DS05-2018-2019
- Project objectives:
 - Preserving the **privacy protection of citizens**.
 - Enhancing the range of applications within ID cards (**e-government, e-voting**,...).
 - Employing **strong cryptography** based on attribute based credentials.
 - Advanced security in ID and access control systems.
- The requirements for additional partner(s):
 - institutions, SMEs and large companies focused on R&D of cryptographic systems and smart card based solutions,
 - governmental organizations for integration results.





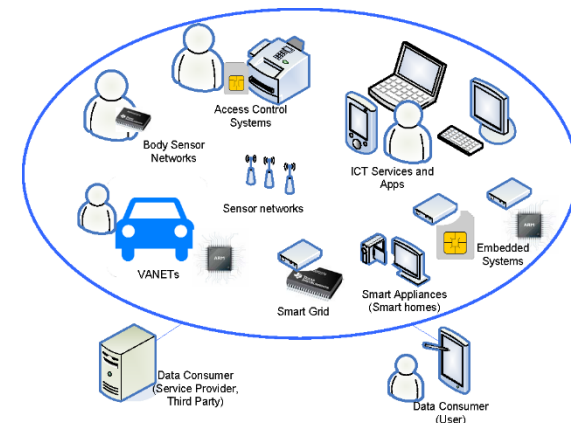
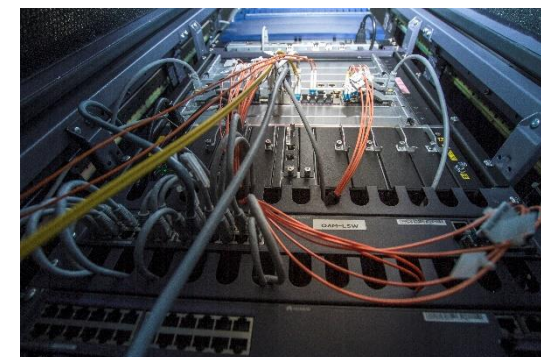
Our expertise

- Our expertise in R&D:
 - Design of cryptographic systems and schemes:
 - Attribute authentication schemes.
 - **Privacy-preserving** cryptographic protocols.
 - Applied Cryptography - development on various platforms such as **smart cards**, smartphones, **FPGA**, wearables ...
 - Cybersecurity, network security, cryptoanalysis,...
 - Bc/MSc/Ph.D study programs focused on cybersecurity.
- Ongoing projects: **H2020 SPARTA** (as a WP leader in cybersecurity awareness and training, as a Task leader in privacy-preserving technologies), H2020 A-WEAR (Marie Skłodowska-Curie Innovative Training Network).



Topics

- We are interested in topics in digital security:
 - **Privacy-preserving** technologies.
 - **High-speed secure** communication (**FPGA** acceleration).
 - **Smart cards** and **wearables** in security solutions.
 - **Cybersecurity** in smart cities, smart grids, IoT, Intelligent Infrastructures.
 - Applied **cryptography** in modern ICT.
 - **Post-quantum** security.



Contact us!

- **Lukas Malina**
- **Email:** malina@feec.vutbr.cz
- **Brno University of Technology**
- **Academic institution**
- **Czech Republic**
- **Websites:** <http://crypto.utko.feec.vutbr.cz/>



Thank you for your attention





PITCH SESSION

- Robots 4 Security
- Trijntje van Dijk
- Saxion: University of Applied Sciences
- Robotics / Forensics / Safety / Security –Research
- Representing regional, national and European consortia incl. SMEs, first responders, safety regions.

Our project idea: R4S (Robotics 4 Security)

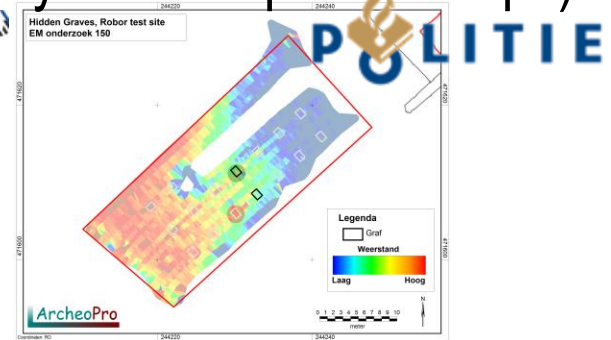
Expertise: “Autonomous systems in unstructured environments for First Responders & disaster control” (available systems & partnerships):



[Rescue Drone @ SME Boessenkool](#)



[Automatic disaster response drone @ Safety Region](#)



[Detecting hidden graves @ SME & Police](#)



[Fire Extinguish Robots @ Dutch Fire Brigades & academy](#)



[Indoor mobile sensing for safety @ FireBrigade](#)



[Multi-sensor drone \('multi sensors in the air'\)](#)

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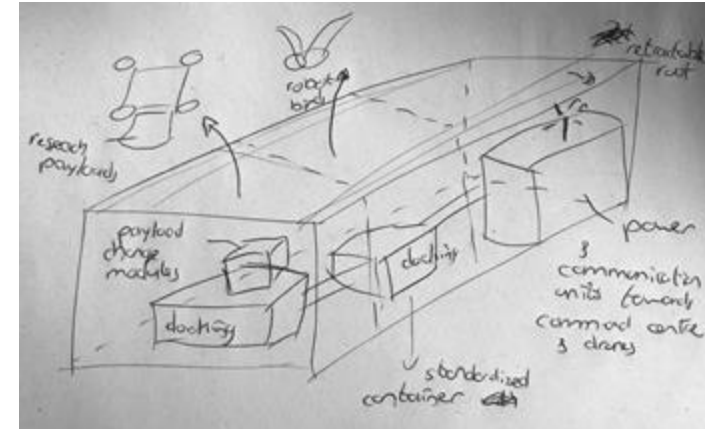
Our project idea: R4S (Robotics 4 Security)

Project objective: “An affordable mobile intelligence unit for situational awareness & risk mitigations for first responders.

Topics: Disaster Resilience SU-DRS02-2018-2019-2020

Deliverable: Mobile Disaster Investigation Unit (‘self sustaining container with autonomous robots 4 security’) consisting of :

- A) Crime & Border Patrol by **Autonomous** Area Monitoring System using VTLOT or bird-drones (non-visible systems)
- B) Nature & Crowd control UAV **Autonomous** systems (visible systems)
- C) Command centre with Telepresence & Human-Robot-Teaming technologies



Our project idea: R4S (Robotics 4 Security)

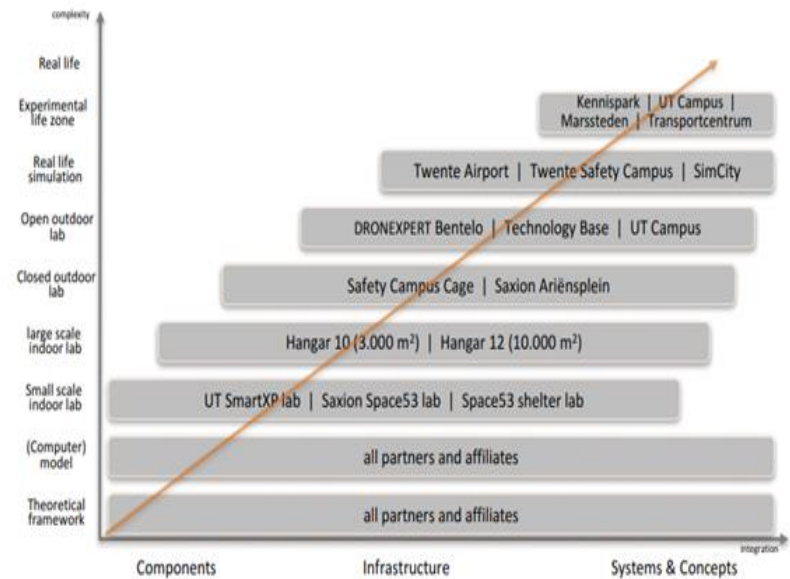
Interested as participant in Topics:

- Disaster Resilient Societies: SU-DRS02-2018-2019-2020
- General Matters: SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security

Facilities:

- Twente Safety Campus, national experience and testing site for a.o. safety, security, and forensics:
<http://www.twentesafetycampus.nl/en/homepage/>
- Space53 consortium of test & training facilities for UAVs from theoretical framework to real life:
<http://www.space53.eu/>

Supporting the full innovation cycle



Contact us!



Trijntje van Dijk

Saxion University of Applied Sciences

Robotics, Forensics, Safety, Security

Postbus 70.000, 7500 KB Enschede

M.H. Tromplaan 28

7513AB Enschede

t.vandijk@saxion.nl



Thank you for your attention





SU-INFRA02-2019

Security for smart and safe cities, including for public spaces

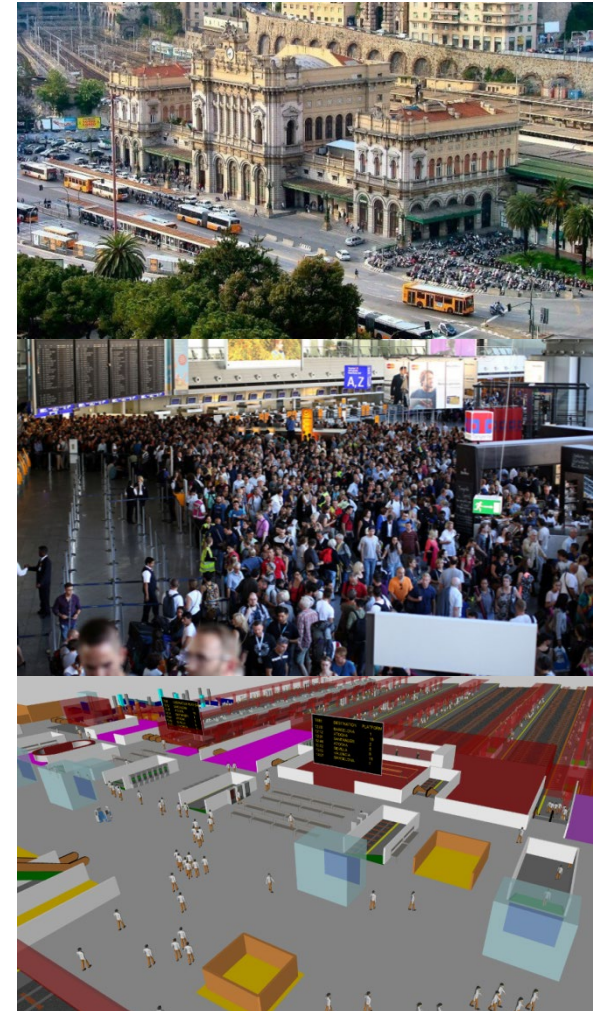
Umberto Battista

Area Manager, Stam S.r.l.

u.battista@stamtech.com

+39 345 6589384

- Italian engineering SME
- 20+ years of experience in R&D
- 40+ successful EU R&D projects since FP4
- Security Area
 - Quantitative risk-assessment of threats against critical infrastructures
 - Cost-benefit analysis of security measures
 - Decision-support systems for prevention and reduction of attacks to critical infrastructures
 - Agent-based modelling and simulation of threat scenarios in public places and infrastructures
 - Analysis and simulation of blast effects and consequences to structures and vehicles
 - Drones capturing system based on nets
 - AI, machine learning and robotics
 - Member of the Italian CBRN-P3 cluster
 - We can involve use-cases and operators



DG Research

- TERA EYE (2007)

www.teraeye.com

- SECUREMETRO (2010)

securemetro.inrets.fr

- InfraStress (2019)

DG Home Affairs

- DAISY (2014)*

www.daisy-project.eu

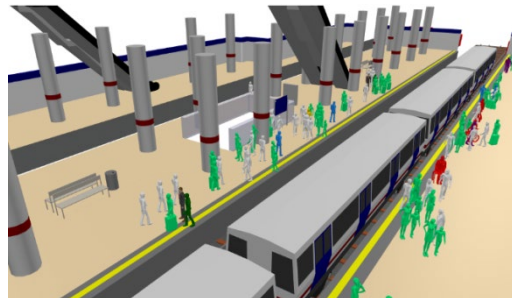
- RAMPART (2014)

www.rampart-project.eu

Shift2Rail JU

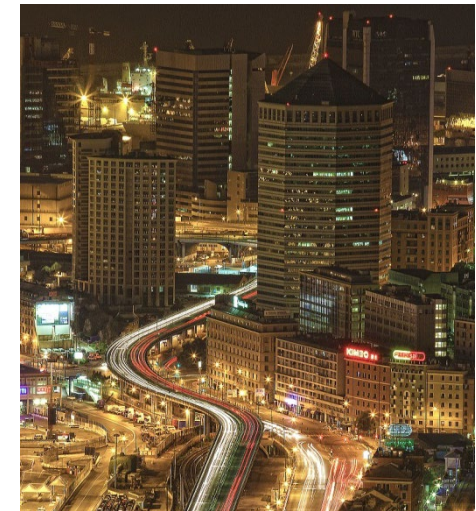
- FAIR Stations (2017)*

www.fairstations.eu



Industry

- Karma (Oil&gas) (2016)
- RASSS (Shipping) (2018)
- Semantic (Smart-city) (2018)
- Genova Sicura (Smart-city) (2018)



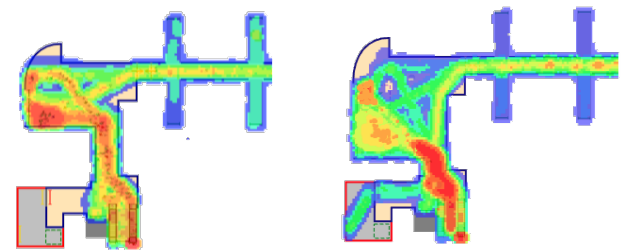
**Stam Coordinator*



Security for smart and safe cities, including for public spaces

Offer:

- Modelling of public places and infrastructures, potential targets of terrorist attacks.
- Agent-based modelling and simulation of different categories of citizens.
- Simulation of attack scenarios, emergencies and evacuation procedures.
- Virtual assessment of different protection measures and procedures.
- Identification of weak points and improvements to security operations and public space design.
- Design of solutions to reduce vulnerability of public spaces and increase the security level for citizens.



- **SU-INFRA01-2019:** Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe
- **SU-DRS04-2019:** Chemical, biological, radiological and nuclear (CBRN) cluster
- **SU-DRS01-2019:** Human factors, and social, societal, and organisational aspects for disaster-resilient societies
- **SU-DRS03-2019:** Pre-normative research and demonstration for disaster resilient societies
- **SU-DRS02-2019:** Technologies for first responders



Contact us!



Umberto Battista
Stam S.r.l.

Area Manager

+39 345 6589384

u.battista@stamtech.com

www.stamtech.com





- **MEDIA CAMPAIGNS FOR DISASTER PUBLIC AWARENESS**
- **FERIYA AKCAY**
- **TURKISH RED CRESCENT SOCIETY**
- **SU-DRS01-2018-2019-2020**

- **broadcasts of «public service announcements and instructive videos» ➔ building the resilience of society and citizens**

Objectives:

- *Design and induce behavioural changes for citizens individually and collectively for mitigating risks, preparing for, reacting to, overcoming, and learning from disasters and emergencies*
- *Implementation of novel communication and large-scaled broadcast technologies and media tools*
- *Building a culture of risks and and disaster prevention awareness*
- *Dissemination of these media tools internationally on (incrementally different languages)*
 - **TV and Radio Broadcasting**
 - *Public service announcements and instructive videos*

Expected Results:

- *Mitigating the impacts of disasters and emergencies*
- *Achieving disaster-resilient societies that cope with disasters*



MEDIA AND BROADCAST

Looking for partners/other participants with the following expertise/ technology/ application field:

- *Media and Communication Research Institutes*
- *Media and Communication Training Centers / Universities*
- *Media & Video Production Companies*
 - *Small or Medium Size Enterprises / Private for Profit Organizations*
- *Broadcast Media Organs (local, regional, domestic and foreign TV & Radio Channels)*
 - *Small or Medium Size Enterprises / Private for Profit Organizations*
- *Dissemination & Broadcast*



Contact us!



- **FERIYA AKCAY: Disaster Preparation and Planning Specialist**
feriya.ozturk@kizilay.org.tr

- **TURKISH RED CRESCENT SOCIETY**

- *Disaster Management Directorate*

- *Turkish Red Crescent is a National Society / NGO based in Ankara / Turkey*

• *TRC provided humanitarian assistance to 137 countries from its establishment until present day. In the last decade, TRC has been delivering assistance in 78 different countries during natural and human related disasters. TRC currently has 11 delegations around the world.*



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- **CHEMICAL EARLY WARNING SYSTEMS**
- **FERIYA AKCAY**
- **TURKISH RED CRESCENT SOCIETY**
- **SU-DRS04-2019-2020**

EARLY WARNING SYSTEMS AND TEMPORARY PROTECTION INFRASTRUCTURE AGAINST CHEMICAL ATTACKS

Objectives:

- Propose novel solutions improving the protection of the total population living in frontier cities of **Southeastern and Mediterranean parts of Turkey** (*Total Intended Polulation: approx. 7.016.000 Turkish citizens, 3 million refugees taking shelter in the area*) against chemical hazards arising from chemical stocks in the Syrian countercyclical environment, warfare conditions as a whole
- Enable efficient **Early Warning Systems** leading to higher chances of saving lives and reducing injuries

Expected results:

- Novel tools and technologies for «**Long Distance Early Warning, Protective and Vehicle Systems**» to be established
- **Mobile and Stationary Shelter (Collective Protection), Decontamination and Software Infrastructures** to be founded
- Trainings for **Beneficiaries and Practitioners**



CHEMICAL EARLY WARNING SYSTEMS

Looking for partners/other participants with the following expertise/ technology/ application field:

- **CBRN Researches / Security Technology Institutes***
- **Novel CBRN Technology Producers / Small or Medium Size Enterprises / Private for Profit Organizations**
- **(Producers of protective border control, detection, identification, software and monitoring technologies of CBRN agents, early warning systems modelling Technologies)**
- **Novel CBRN Equipment Producers / Small or Medium Size Enterprises / Private for Profit Organizations**



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Contact us!

- **FERIYA AKCAY: Disaster Preparation and Planning Specialist**
feriya.ozturk@kizilay.org.tr

- **TURKISH RED CRESCENT SOCIETY**

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PITCH SESSION



Project Proposal for Topic SU DRS03
Alberto Pasquini
Deep Blue (Italy)

- Proposal for Topic SU DRS03 2019
- Development and consolidation of standards for civil protection in crisis management including CBRN-E
- Intensive involvement of user organizations in validating and exploiting proposed standards
- Extensive re-use of results from past projects (DARWIN)



- Looking for (and only for, sorry):
 - Coordinators of past relevant DRS projects with results at TRL7
 - Organisations with mature and established products
 - Well established standardisation organisations
 - Experts in CBRN-E with projects sponsored by EDA
 - Selected first responder organisations
- Deep Blue with experience in:
 - Italian SME with the largest number of H2020 projects
 - Human factor and safety/security (risk and safety assessment)
 - Human and organisational factor in cybersecurity

Contact us!



Alberto Pasquini

Deep Blue, Italy

Italian SME with the largest number of H2020 projects

alberto.pasquini@dblue.it



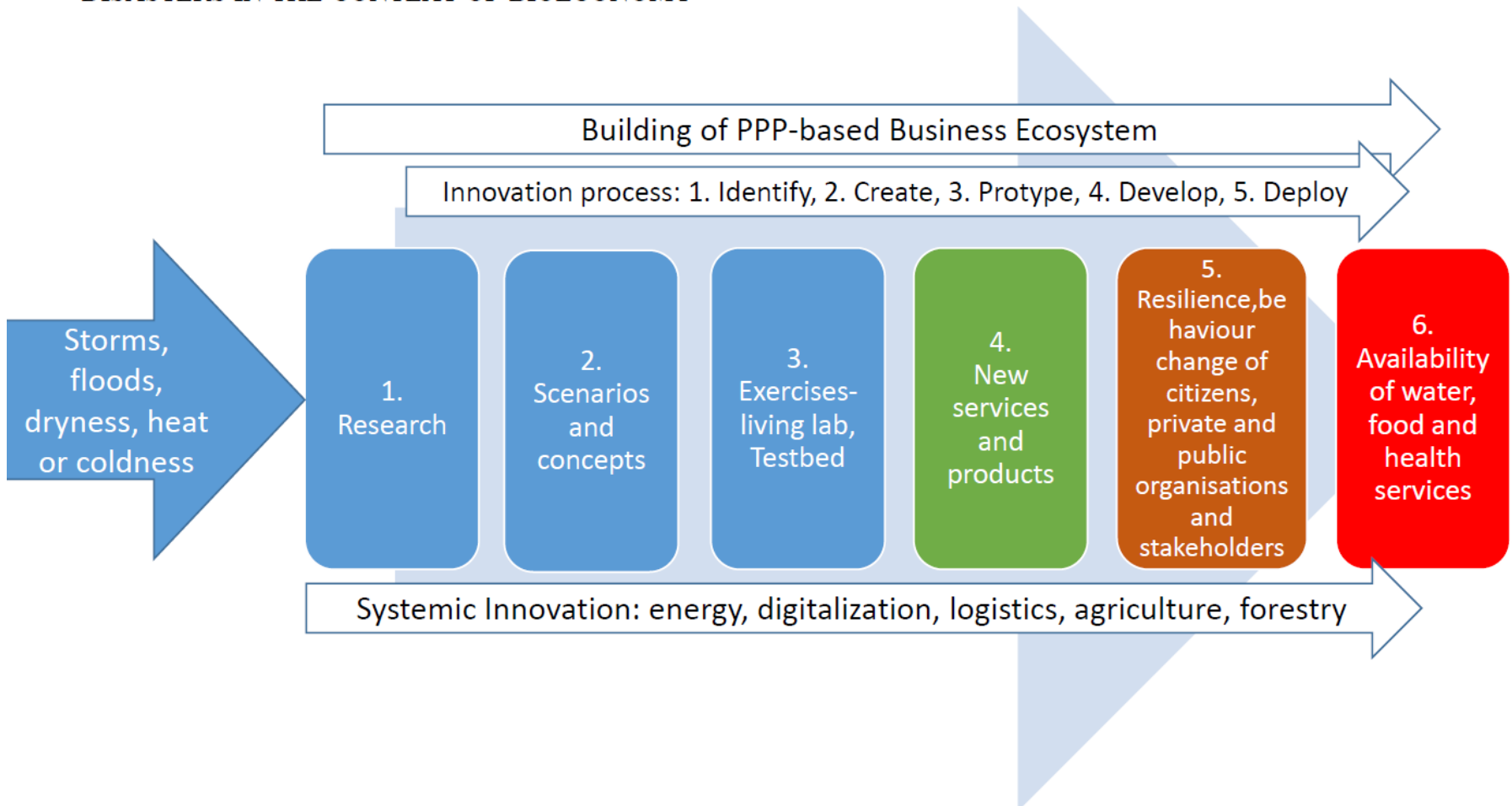


PITCH SESSION

- Human Security Europe –
Disaster resilience
- Miika Kajanus
- Savonia UAS

Our project idea

DISASTER: PREPAREDNESS FOR BETTER ACCESS TO WATER, FOOD AND HEALTH SERVICES RELATED TO NATURAL DISASTERS IN THE CONTEXT OF BIOECONOMY



List of the complementary skills we need for our consortium

1. Scenario development on climate based disasters
2. Organize disaster exercises with local and national actors, like first respondents
3. Establish local public-private partnerships for deployment



Call for partners: SU-DRS01-2019

Human factors, and social, societal, and organisational aspects for disaster-resilient societies

Citizen behavior, cross-fertilization, field-validation



Human Security Finland

- **Location:** Finland, City of Kuopio
- **Human Security Finland** as a part of Savonia University of Applied Sciences is an international development and crisis management business network. It facilitates the formation of business partnerships between Finnish companies and experts to assist developing countries and crisis-hit regions with solutions to support sustainable development.
- **Experience:** Human Security Finland won EEPA (European Enterprise Promotion Award) prize 2016. Now we are looking for new partnerships, and will create Human Security Europe network



Contact us!

Contact:

Miika Kajanus

RDI-liaison

miika.kajanus@savonia.fi

+358 44 785 6812

hsf.savonia.fi/



Thank you for your attention





PITCH SESSION

- **FIGARO- Citizens First**
- Cinzia Pasquale
- Founder of 4SUCCESS2EU

FIGARO-Project-Citizens first

- **Background:** In Italy we have about 340,000 private associations, sensible to GDPR, personal data protection, and right to privacy for the associates in the meanwhile. **THEREFORE:**
- To make the user archive **more structured and legitimized**
- To develop the **extension to Blockchain, A.I.** etc, the current IT system is based on a scalable and virtualized implementation of services exposed to users, in a centralized Single Sign On concept, which allows users to access innovative services of participatory and digital democracy ,with e-voting system.
- **It is a technical service** for territorial, corporate,cultural and social forces, because it allows users to interpret the rights of associates using blockchain technology, and protecting secrecy-privacy in the meanwhile.



FIGARO- Apply for SU-DS03-2019-2020

- Our organization **4SUCCESS2EU** and Partners is the **Project Initiator** named **FIGARO**-First Innovative Grid Awareness Ready Open Society
- We are active in finalizing the **Conceptual Summary of Project, Consortium builder** and implementation management overall.
- We are **looking for Partners (SMEs)**, would like to test and be part of our European Platform with the core “**citizens first**”.
- Our Scientific Coordinator(Norway),our Technical Coordinator (The Netherlands, Italy)
- Partners: UA, Malta, Belgium, Switzerland, Romania, Slovenia, France.....just looking for you!



Always people make the difference

4SUCCESS2EU and Partners

FIGARO-Project Initiator

Cinzia Pasquale

www.4SUCCESS2EU.com

info@4success2eu.com

Brussels-Belgium





PITCH SESSION

- New Platform for Cert's
- Sergey Abrahamyan
 - Institute for informatics and Automation Problems

The Institute for Informatics and Automation Problems founded in 1957 is the leading research and technology development institute of the National Academy of Sciences of Armenia in the sphere of applied mathematics and informatics, as well as application domain of computing technologies in various fields of science and technology.

Staff groups:

- Scientific Researchers
- Software Engineers
- Support staff
- Service staff
- PhD Students



IIAP structure

Departments

- Models of Computations and Logical Reasoning
- Coding and Signal Processing
- Discrete Mathematics
- Computational and Cognitive Networks
- Information Theory and Statistical Models
- Applied Programming Systems

Centers

- Center for Scientific Computing
- ICT Innovation and Business Center
- Center of Scientific Information Analysis and Monitoring



IIAP structure

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IIAP structure

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Centers

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- ICT Innovation and Business Center
- Center of Scientific Information Analysis and Monitoring



Our Strong Sides

Strong Cryptographic background

- SAFER+ ; SAFER++
- New Public Key cryptosystems based on Permutation polynomials
- Fast multiplication algorithms
- White-Box cryptosystem based on SAFER+
- More than 8 cryptographic projects with Samsung and other industrial partners: (Searchable encryption, Encrypted database...)
- **Strong Cryptographic background**
- Finite fields theory
- Number theory



IIAP Cyber-security actions

- Establishing CERT
- Annually CTF competition
- Cyber Security trainings for IT community
- Penetration testing for “Asnet.am” NREN



Our project idea

Establish knowledge-based platform for European CERTs(CSIRTs) which will provide the following opportunities.

- 1. Real time interactions and information sharing mechanism**
- 2. Knowledge sharing mechanisms**
- 3. Accelerate research and innovation joint projects between CERT teams**
- 4. Develop new benchmarks and standards for CERT teams based on ISO-2700**
- 5. Develop new open-source security tools for CERT teams**

The excellence of this project will be provided by developing and application of a unique approach

of establishing specific, wide-ranged, interactive, comprehensive connection between CERT teams.

The Topics We are Interested in

- Cybersecurity, Digital Privacy and data protection for citizens and Small and Medium Enterprises and Micro Enterprises
- Digital security, privacy, data protection and accountability in critical sectors
- Management of cyber-attacks and other risks



Contacts

- Sergey Abrahamyan
- Institute for Informatics and Automation Problems
- Academic Institute
- www.iiap.sci.am , iiap@sci.am , sabrahamyan@sci.am
- Yerevan Armenia





www.seren-project.eu

Thank you for your attention



PITCH SESSION

Holistic security management in Critical Infrastructure Protection

Dr. Salih BİCAKCI Kadir Has University ISTANBUL

Description of the Organization



- Founded in 1997 as a private non-profit institution, Kadir Has University (KHAS) is one of the leading mid-size universities in Turkey,
- Graduate education through around 1,000 students in its twenty-six Master's and nine Doctoral degree programs,
- More than half of these externally funded projects were initiated in the last four years. To add this, in 2018 alone 90+ projects were submitted for funding.

Project in Numbers:

Number of the Application (Partner): 24

Number of the Application (Coordinator): 25

Number of the Projects funded (Partner): 21

Number of the Projects funded (Coordinator): 8

Recently Funded Projects of the University:

- **H2020-LC-SC3-RES-12-2018** – BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY (IA) GeoSmart – Technologies for geothermal to enhance competitiveness in smart and flexible operation
- **H2020-LC-SC3-2018-NZE-CC** Open ENergy TRAnsition ANalyses for a low-carbon Economy
- **FP7-ICT ICT-2007** – The network of the future – ‘Worldwide Interoperability Microwave Broadband Access System for Next Generation Wireless Communications’, WIMAGIC (3 M EUR, 2008 – 2010)



Co-funded by the Horizon 2020
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Our project idea: Holistic Security Management in Critical Infrastructure Protection



- Increasing number of hybrid threats
- Rapid digitalization of physical and perimeter security tools
- Limited communication/cooperation between physical and cyber security units.
- **Problem:** Having limited cooperation between physical security and cyber security units, the existence of various perceptions of threat and coming from two different school of thoughts are some of the significant indicators of a need for an action further than quick merge of the two units. This project aims to develop the first integrated conceptual model that builds a common threat perception for both units, creates common control lists and focus on the human-centered interaction techniques.



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Holistic Security Management in Critical Infrastructure Protection



- **Our project aimed** to develop the first integrated conceptual model that builds a common threat perception for both units, creates common control lists and focus on the human-centered interaction techniques, as well as building a new mutual security culture.
- Our project team includes expertise on various domains such as, **data science, social network analysis, physical security, terrorism, hybrid threats and psychology** to build a holistic model security management and mutual security culture for CIP



Co-funded by the Horizon 2020
Framework Programme of the European Union

SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe



- **List of complementary skills we are looking for:**
 - Ability to understand new technologies of Physical and Perimeter security
 - Expertise on scenario planning
 - SCADA and PLC expertise
 - Expertise on HVAC and third party support systems
 - Cyber security on SCADA systems
- **Keywords:** *critical infrastructure protection, perimeter security, physical security, cyber security, security management*



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Contact us!

Dr. Salih BİCAKCI

Researcher in CCSCIP and Assoc. Prof. of International Relations

asbicakci@khas.edu.tr

+90-536-3840683



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SECURE SOCIETIES

Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



DELLEMC

Ilan Golberg

Israel

Who we are?

Dell Technologies is a **unique family of businesses** that provides the essential infrastructure for organizations to build their digital future, transform IT and protect their most important asset, information.

Dell Technologies consists of 7 brands:



DELL EMC

Pivotal

RSA

Secureworks

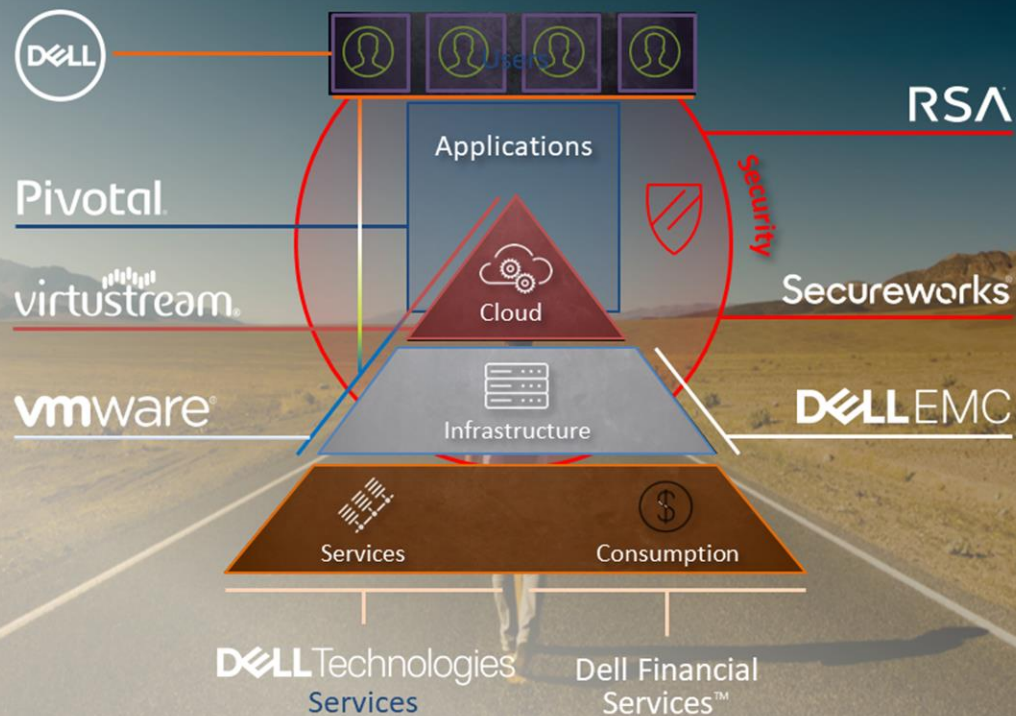
virtustream

vmware

DELL Technologies



DELL Technologies



DELL Technologies



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STARTUP ECOSYSTEM

ISRAEL



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SECURITY PARTNERSHIPS

400+ COMPANIES, 1000+ SOLUTIONS



Leader in the following Gartner's Magic Quadrants:

- Magic Quadrant for Security Information and Event Management
- Magic Quadrant for Managed Security Services, Worldwide
- Magic Quadrant for Security Information and Event Security
- Magic Quadrant for Integrated Risk Management Solutions
- Magic Quadrant for IT Risk Management
- Magic Quadrant for Business Continuity Management Program Solutions



Strong European Involvement

- ✓ **RSA's Fraud Detection technologies** are implemented in Europe's leading financial institutes and defending all from large enterprises to small retailers from fraud transactions & activities.
- ✓ **Dell EMC's Isolated Recovery Solution** is perhaps one of the single enterprise-grade solutions for enabling complete Malware protection, data loss prevention, and Ransomware recovery against a cyber-attacks. It is installed in many European customers.
- ✓ Homegrown Israeli-Storage technologies, such as **XtremIO's all flash arrays** are enabling High-Performance infrastructure for European Finest institutes.



Relevant topics in Secure Societies call 2019

➤ **PROTECTING THE INFRASTRUCTURE OF EUROPE**

- Security for smart and safe cities, including for public spaces
- Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

➤ **FIGHT AGAINST CRIME AND TERRORISM**

- Information and data stream management to fight against (cyber)crime and terrorism
- Technologies to enhance the fight against crime and terrorism

➤ **CYBER SECURITY, DIGITAL PRIVACY AND DATA PROTECTION**

- Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises
- Digital security, privacy, data protection and accountability in critical sectors



Relevant on-going EU and national projects

H2020 Projects:

1. “ATMOSPHERE” - Adaptive, Trustworthy, Manageable, Orchestrated, Secure Privacy-assuring Hybrid, Ecosystem for REsilient Cloud Computing.
2. “TAKEMI5” - next-gen high performance computing technologies for the semiconductor industry. Security solutions will be also tested among the WP.

National projects:

1. CERT-IL (Establishing the National CERT)
2. NRG-CERT (Establishing the Energy Department Cyber Protection Platform)
3. Developing next-gen Cyber Consolidated Platform for enterprises



Ilan Golberg
DELL EMC Israel
Ilan.Golberg@Dell.com





INFRA Protection
Serhat DEMİRAL
TUR-GEN (Turkish Gendarmerie General Command)

INFRA Protection

TUR-GEN (Turkish Gendarmerie General Command) is a law enforcement organization, which maintains security and public order and executes the duties given by laws and decrees. TUR-GEN is subordinated to the Ministry of Interior. TUR-GEN carries out a wide variety of law enforcement tasks, and in particular;

- provides public order, security of persons and properties,
- detects, arrests and transfers both offenders and case evidence to the appropriate bodies,
- performs judicial duties,

Central Organisation consist of 19 main departments:

Public Security, Intelligence, Counter terrorism , Narcotics, Cyber-Crimes, Smuggling, Organized Crime, Migrant Smuggling, Human trafficking ...

Provincial Organization consists of:

- 6 Regional Gendarmerie Commands,
- 81 Provincial Gendarmerie Commands ,
- (941) District Gendarmerie Commands,
- (2.089) Gendarmerie Stations ,

Special Purpose Units (Forensic Units, Penitentiary Units, Facility Guard Units, Gendarmerie Commando and Special Operations Units, Aviation Units etc.).

Responsibility:

With **220.000 personnel**, TUR-GEN maintains security service in the areas of responsibility, which equals to **% 93 of Turkey's surface area** and **% 20 of its population** in TR.

Membership to the International Organizations:

- TUR-GEN is the **full member** of the **International Association of Gendarmeries and Police Forces with Military Status (FIEP)** since 1998.
- TUR-GEN is an observer member of **European Gendarmerie Force (EUROGENDFOR)** since 2010.
- TUR-GEN is the member of the **European Network of Forensic Scientific Institutes** since 1998.

IPA Projects:

- From 2004 to 2019, TUR-GEN concluded **12 IPA Projects** which cost **60 M EUR**.
- TUR-GEN has **4 ongoing IPA Projects** on the topics of **forensic, juvenile and women protection and riot control** that cost **14 M EUR**.



Interested to **INFRA01/INFRA02**

TUR-GEN wants to collaborate in the projects aiming to;

- Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure,
- Security for smart and safe cities, including public spaces,
- Assessing bombing, sabotage and attacks with a variety of weapons against installations, buildings, plane or drone overflights and crashes, combined threats, etc.
- Providing security management of physical and cyber threats,
- Providing scenarios and recommendations to identify, and neutralize crime perpetrators whilst minimizing intrusion into crowded areas.

TUR-GEN contributes to the projects by :

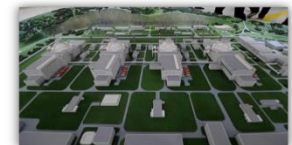
- Being responsible to demonstrate a simulation or a case study in the desired critical infrastructures and/or public spaces **in Ankara, and many other cities of TR** (airports, pipelines, power plants etc.)
 - * Being responsible for a work package and/or task,
 - * Being a partner,
- Providing near real time data sets,
- Providing subject matter knowledge and experience,
- Providing knowledge about current systems used.



(8) Airports



(18) Dams and Power Plants



Nuclear Power Plant



Historic buildings



8.962 kilometres
Pipelines



313 External security
of the penitentiaries



Interested to **INFRA01/INFRA02**

TUR-GEN (Turkish Gendarmerie General Command) is looking for:

- Already built consortium to contribute,
- Law Enforcement Agencies (LEAs),
- Universities,
- AR (Augmented reality), Simulation, AI (Artificial intelligence) solution providers,

Desired expertise/ technology/ application field:

- AR/AI solution providers,
- Excellence in AI,
- Drone & unmanned air vehicle operators /controllers /experts,

Expertise already available:

- International proposal preparation/project management,
- Innovation and R&D project expertise at national and international level,

- Simulation, detection and analysis of the additional security threats and risks,
- Prevention, detection, response and mitigation expertise for many different situations of combined physical and cyber threats,
- Security services for the benefit of the society in many ways.



Thank you for listening!

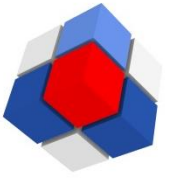
Serhat DEMİRAL
Turkish Gendarmerie
(serhatdemiral@jandarma.gov.tr)



PITCH SESSION

- ACROSYS - Security & Sites management system
- Tzachi Itzhak Zohar (COO)
- Aplicatzia Software Development Studio

ACROSYS - Security & Sites Management System

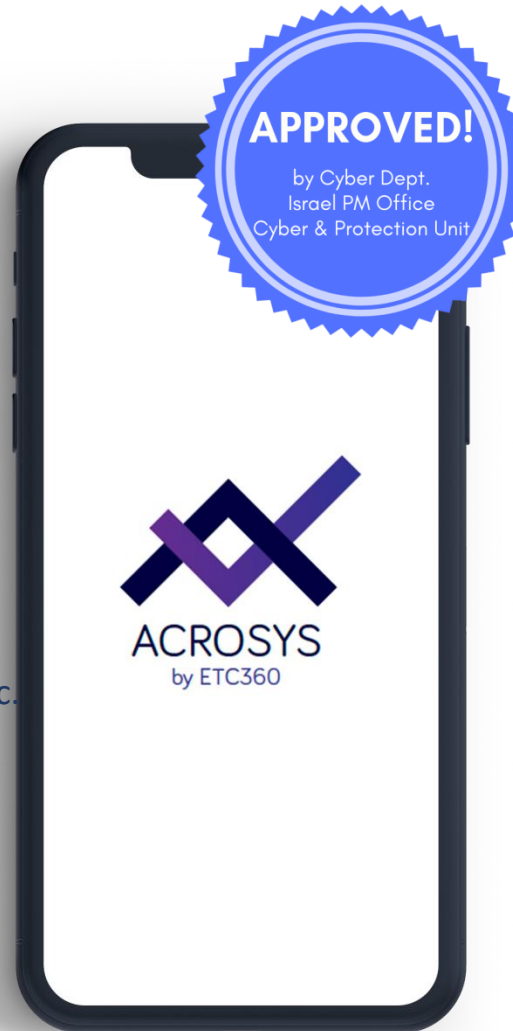


- ✓ Won and executed successful H2020 Project
- ✓ “STOP-IT”, Hybrid cyber protecting of physical water infrastructures
- ✓ Product Based on cloud.
- ✓ Integrate with new and existing systems.
- ✓ Secure Access Control via personal smartphones.
- ✓ Integrate with external Access Control System.
- ✓ Navigate to the sites directly using Google maps and etc.
- ✓ Connection to SCADA systems.

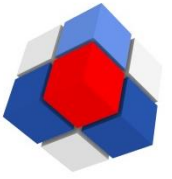
8,500/13,000
Sites are
Connected

3,000
Active Users

10,000
Transactions
each Day



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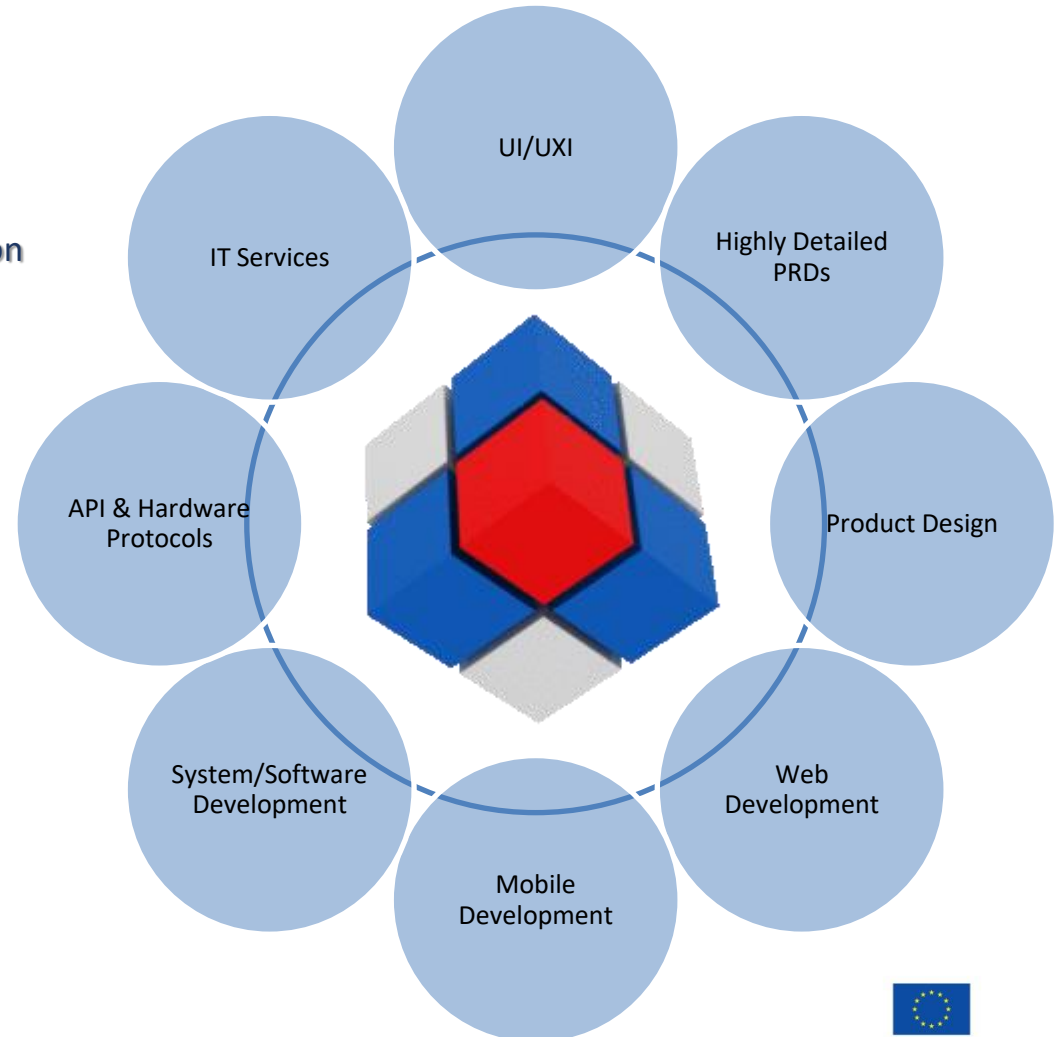


Aplicatzia Software Development Studio Services

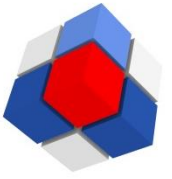
Aplicatzia offers a complete solution from one single point (i.e. a One Stop Shop), from the characterization phase to full implementation on the client's site.

So what we're looking for?

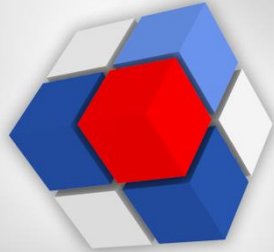
- ✓ Join partners and consortium
- ✓ Collaboration in Horizon projects
- ✓ Application and Software development
- ✓ Improve and Maintain active systems



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Contact us to learn more...



Aplicatzia Software LTD

- ✓ Headquarter in Israel
- ✓ Corporation

Tzachi Itzhak Zohar
COO

*Aplicatzia, software
development studio*

T + 972 58 6001 001
M tzachi@aplicatzia.com

ASAF SHATZMAN
CO-FOUNDER | CEO

*Aplicatzia, software
development studio*

T + 972 54 657 1571
M asaf@aplicatzia.com



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PITCH SESSION

- TWINRISK
- Erkin TEKIN
- Samsun AFAD

Our project idea

TWINRISK

“Tranfering potential risks to the cloud, instead of carrying the risks of the cloud!”

- **Hybridized Technologies to overcome single/hybrid threats**

- Augmented Reality (AR)
- Virtual Reality (VR)
- Application/Games (DEV)
- Refined Social Media
- **Artificial Intelligence (AI)** “SIMULATING SOCIETY”
- **Cloud computing** “MAIN HOST”

- **Citizen-oriented** approach for “**Risk awareness researches**”:

- Blending no-name datas of the citizens
- Exploring the priorities and behaviors of the community during the disasters
- Reporting the vulnerabilities of the society facing disasters
- Providing pre-disaster communication between first responders and the citizens
- Simulating numerous disaster exercises on **Digital Twins**
- Turning the social media effect into the advantage instead of chaos



Consortium Structure/Required Partnerships

| No | Partner Name | Type | Country | Role in the Project |
|----|--------------|---------|---------|--------------------------------------|
| 01 | | RTD | | Coordinator/ Tech Leader |
| 02 | | RTD | | Work Package Leader/Risk Analysis |
| 03 | | RTD | | Work Package Leader/ Cloud Computing |
| 04 | | RTD/IND | | Work Package Leader/ AR-VR |
| 05 | | RTD/IND | | Work Package Leader/AI |
| 06 | | RTD/NGO | | Task Leader/Human Factors |
| 07 | | SME | | Task Leader/ Developer |
| 08 | | SME | | Task Leader/Media |



PRE-DISASTER

- Risk Assessment
- Mitigation/Prevention
- Preparedness

DURING DISASTER

- Warning/Evacuation
- Saving People
- Providing Immediate Assistance

- Assessing Damage

POST-DISASTER

- Ongoing Assistance
- Restoration of Infrastructural Services
- Reconstruction
- Economic & Social Recovery
- Ongoing Development Activities
- Risk Assessment
- Mitigation/Prevention



Contact us!

Erkin TEKIN

Samsun AFAD

*Provincial Directorate for Disaster and Emergency
Management*

Governmental Organization

TURKEY

+90 541 774 46 11

erkin.tekin@afad.gov.tr

<https://samsun.afad.gov.tr>





POLITECNICO
MILANO 1863
SCHOOL OF MANAGEMENT



PITCH SESSION

Building Hospital Security for European Resilient Health Services

Boris Petrenj

Politecnico di Milano, School of Management

Risk & Resilience Management of Complex Socio-Technical Systems

Our project idea - SU-INFRA01-2018-2019-2020

Building Hospital Security for European Resilient Health Services

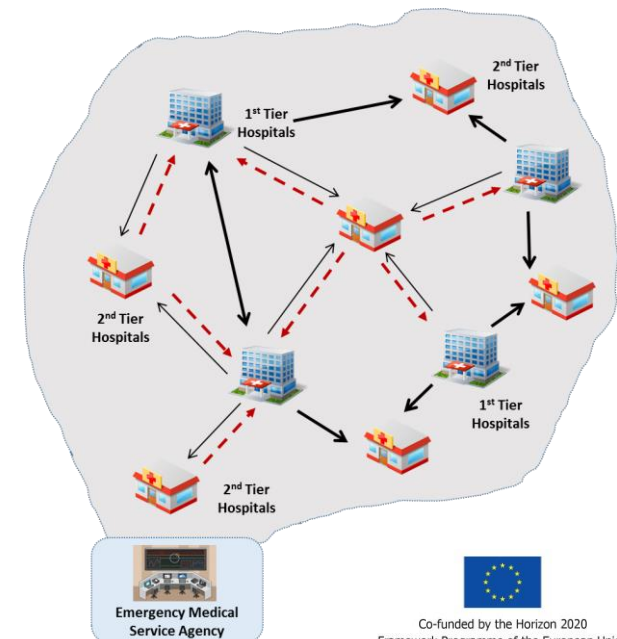
- **3 Pillars:** infrastructure (physical), data (cyber) and people
- Health services as a **networked system (hub-spoke logic)**

Main objectives

- **Business Continuity Management (BCM)** principles for Hospitals + **Training Module**
- **Standardisation** – harmonise current and forthcoming BCM stds and methods for HC
- **European Healthcare Accidents Database**
- **EU Health ISAC (H-ISAC)**
- Raise awareness and **build a network of practitioners**

Expertise covered by existing partners:

- BCM implementation in Hospitals and standardization
- Risk analysis & simulation tools in Healthcare
- Technical solutions for EMS→EDs orchestration
- Large pilot for EMS+EDs (~10M citizens)
- Pilot for a large hospital (> 1,000 beds)



Looking for:

- Cyber Security technical expertise in Health Care
- Physical Security specialist in Hospitals
- eHealth solution provider
- Local hospital and technical partners for a smaller third pilot

Other Topics: SU-INFRA02-2019 / SU-DRS01-2018-2019-2020 / SU-BES01-2018-2019-2020 / SU-GM01-2018-2019-2020 ...

Our expertise:

- CIP-R – technical, organisational and social aspects, governance models, risk & resilience assessment methods.
- Health Care Resilience research – simulation approach to the resilience assessment of mission-critical health services.
- A new technology for earthquake prediction and alerting (Cosmetecor – TRL 6-7)

DMCI simulator
in GRRASP (JRC)



Previous projects & research:

- Critical Infrastructures <https://www.r2macs.com/ci>
- Health Care <https://www.r2macs.com/health>

Latest project: Security of Cross-border CI (INTERREG, 2019-2021)

CIRINT.NET

[Critical Infrastructure Resilience International Network](https://www.r2macs.com/ci)



Contact us!



POLITECNICO
MILANO 1863
SCHOOL OF MANAGEMENT

*Risk & Resilience Management of Complex
Socio-Technical Systems*

<https://www.r2macs.com/>

Boris Petrenj, PhD – boris.petrenj@polimi.it

Prof. Paolo Trucco, PhD – paolo.trucco@polimi.it





- GISASTER Project
- Zeynep Türnüklü
- AFAD Samsun (Provincial Disaster and Emergency Directorate)

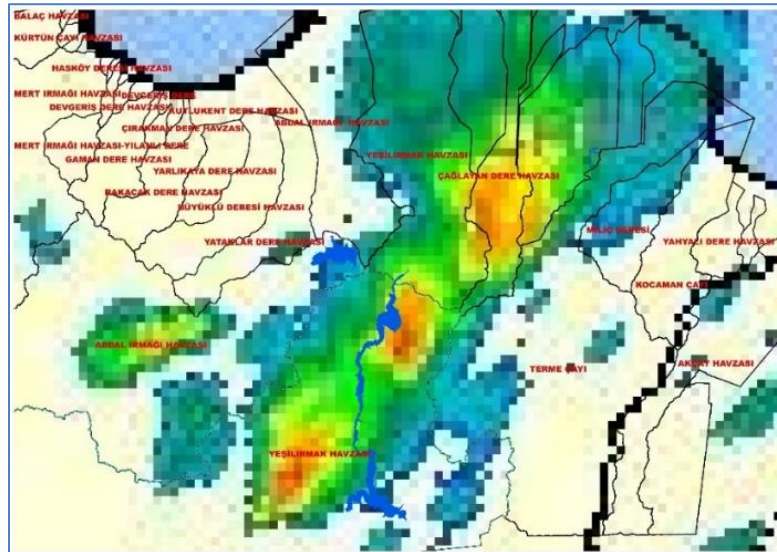
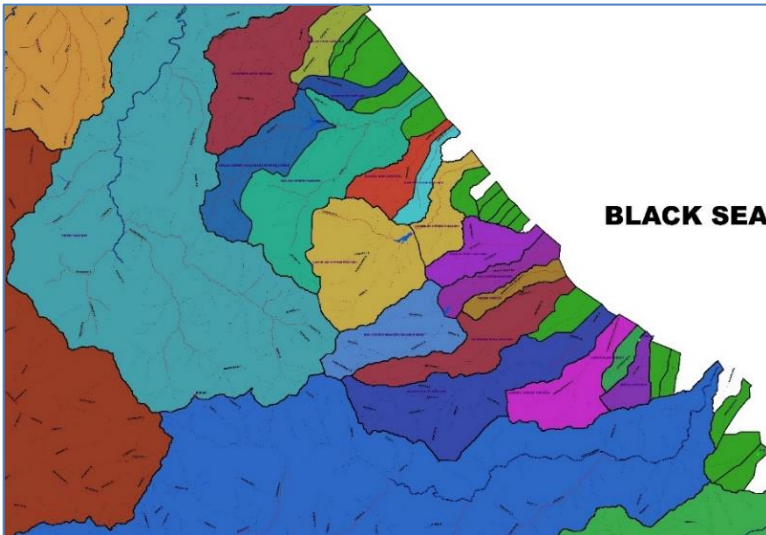
Our project idea; GISASTER

- Our project requires the creation of an online GIS-based software program that includes;
 - Real-time **Meteorological Service** & **RADAR** images & **GIS** based data
- Objectives;
 - Getting improved **the Geographical Information System for crisis management**,
 - Set up a coordinated **early warning system**,
 - Know about the fact; «which **drainage basin** will collect the rains»,
 - Carry out early and correct **response**

ENGİZ RIVER BASIN



BLACK SEA



Our project idea; GISASTER

- Proposed **Coordinator**: ?
 - Partners/other participants:
 - **AFAD Samsun, Samsun Provincial Directorate**
- Looking for partners:
 - such as universities, research centers, companies, SMEs, governmental bodies, industries etc.
 - interested in research-technology-innovation at GIS solutions, early warning systems, pre-standardization



Topic *[to enhance the resilience of the societies]*

SU-DRS02-2019-2020

SU-DRS03-2019-2020

SU-DRS04-2019-2020

Possible topics you wish to participate in

Keywords

Risk&disaster management, preparedness, pre-standardization,
risk&disaster awareness, search&rescue, first responders,
practitioner, end-user



Contact us!

Zeynep TÜRÜNÜKLÜ
AFAD Samsun
Governmental Organization, TURKEY

zeynep.turnuklu@afad.gov.tr



Thank you for your attention

www.seren-project.eu





- CBRN Security and Safety / CBRN Education
- Michał CEREMUGA
- Military Institute of Chemistry and Radiometry

Military Institute of Chemistry and Radiometry -MICHR

Military Institute of Chemistry and Radiometry is a Scientific and Research Center of Polish Ministry of National Defense, established in 1954.

DEPARTMENTS AND ACCREDITED LABORATORIES

➤ Scientific departments:

- Department of CBRN Protection,
- Department of CBRN Reconnaissance and Decontamination,
- Department of Radiometry and Camouflage.

➤ Accredited Laboratories:

- Respiratory Protection Laboratory,
- Chemical Weapons Convention Laboratory,
- RADIAC - testing Laboratory.



MICHR - the expertise possessed

DEPARTMENT OF CBRN PROTECTION

- Development and testing of individual and collective CBRN protection means;
- Development and testing of barrier materials for protective covers used for military equipment storage;
- Development and implementation of new methods for testing CBRN protection means.



DEPARTMENT OF CBRN RECONNAISSANCE AND DECONTAMINATION

- Development and testing of reconnaissance and decontamination technology, means and equipment;
- Development and testing of detection and identification methods of high toxic chemical compounds (Chemical Warfare Agents and Toxic Industrial Chemicals).



DEPARTMENT OF RADIOMETRY AND CAMOUFLAGE

- Development of special mobile systems of NBC detection;
- Preparation of the instructions for the use of radiometric equipment;
- Preparation of the opinions and expertise in the field of the CBRN equipment.



INTERNATIONAL CO-OPERATION

- National Institute of Standards and Technology, USA
- United Nations Monitoring and Verification Commission (UNMOVIC)
- Defence Threat Reduction Agency, USA
- METSS Corporation, USA
- ECBC, Edgewood Chemical and Biological Center, Edgewood USA
- European Defence Agency:
 - ✓ CBRN Joint Investment Programme (JIP CBRN)
- EU Bodies:
 - ✓ CBRN Centre of Excellence (CoE)
 - ✓ Internal Security Fund - Police (ISF Police)
- NATO Bodies:
 - ✓ Joint Capability Group
 - ✓ NATO Industrial Advisory Group
 - ✓ Research and Technology Office
 - ✓ Weapons of Mass Destruction Centre
- Organization for Prohibition of Chemical Weapons



PROJECTS - PARTNERSHIP/CONSORTIUM (1/2)

- **QUIXOTE: The Defence R&T Joint Investment Programme on CBRN Protection (JIP-CBRN).**

Leader: Ibatech Tecnologia Slu (Spain), Partners: Titania (Spain), Partners: Instituto Tecnológico La Marañosa (Spain), Vojensky Vyzkumsky Ustav (Czech Republic), MICHR (Poland), AIT Austrian Institute of Technology GmbH, (Austria)

- **P34: Strengthening Capacities in CBRN Response and in Chemical and Medical Emergencies, EU CBRN CoE.**

Leader: Military Institute of Hygiene and Epidemiology - MIHE (Poland), Partners: Fondazione FORMIT - FORMIT (Italy), Istituto di Scienze e Tecnologie Molecolari – ISTM (Italy), FAV Network Fondazione Volta – LNFV (Italy), MICHR (Poland)

- **P65: Strengthening chemical and biological waste management in Central Asia countries for improved security and safety risk mitigation, EU CBRN CoE.**

Leader: Military Institute of Chemistry and Radiometry - MICHR (Poland), Partners: Fondazione FORMIT - FORMIT (Italy), Istituto di Scienze e Tecnologie Molecolari – ISTM (Italy), Military Institute of Hygiene and Epidemiology - MIHE (Poland), FAV Network Fondazione Volta – LNFV (Italy)



PROJECTS - PARTNERSHIP/CONSORTIUM (2/2)

- **P67: Strengthening CBRN Waste Management in South-East and Eastern European Countries, CoE**

Leader: Sustainable Criminal Justice Solutions – SCJS (United Kingdom), Partners: International Security and Emergency Management Institute, - ISEMI (Slovakia), Nuclear and Decommissioning Company – JAVYS (Slovakia), Public Health England – PHE (United Kingdom), the Verification Research, Training and Information Centre- VERTIC (United Kingdom), MICHR (Poland).

- **CBRN Security Manager: Support for European Union action in the field of CBRN security managers education, EU Migration and Home Affairs, (ISF Police).**

Leader: The University of Lodz (Poland), Partners: Bureau of Anti-Terrorist Operations of the National Police Headquarters (Poland), The Police Academy in Szczytno (Poland), MICHR (Poland), Military Institute of Hygiene and Epidemiology - MIHE (Poland), International Security and Emergency Management Institute (Slovakia).



CBRN Security and Safety / CBRN Education

- training programs to increase awareness of CBRN threats as well as:
 - ✓ detection capabilities, collective and individual protection;
 - ✓ sampling and handling chemically contaminated;
 - ✓ waste management.
- Research Works:
 - ✓ Sorbent-based portable decontamination systems
 - ✓ mobile systems for supporting CBRN safety and security:
 - Mobile analytical CBRN laboratory
 - Mobile plant for destruction of chemical warfare agents
 - ✓ Novel CWA detection technologies



Contact us!

Michał CEREMUGA

Military Institute of Chemistry and Radiometry

Al. Gen. A. Chruściela „Montera” 105,

00-910 WARSAW, POLAND

e-mail: sekretariat@wichir.waw.pl

www.wichir.waw.pl

Scientific and Research Center of Polish Ministry of National Defense

Thank you for your attention





PITCH SESSION



Guardtime's contribution for DS and INFRA calls
Mirjam Kert
Project Manager
Guardtime AS

Guardtime's possible contribution:

Developing beyond state of the art cyber and data-centric security solutions, which are enabled by:

- **KSI® Blockchain Technology and/or other Distributed Ledger Technologies, allowing us to:**
 - guarantee data integrity whilst preserving privacy (e.g. sensitive personal data, sign and tie consent, data processing logs, archives)
 - provide real-time threat detection, privacy and data protection warnings
 - ensure regulatory compliance, audit, accountability and compliance (e.g. GDPR, eIDAS)
 - provide traceability and supply chain security solutions
 - ... implement a **horizontal technology with a wide application area**, different use-cases in various domains and industries
- **Cyber Range Solutions and Exercises**
 - Training organisations and testing infrastructure for enhanced cyber resilience
 - e.g.: *“Proposals should also include ... tools and processes should be proposed to facilitate the participation of user SMEs&MEs in cyber ranges for cybersecurity.”*
- **Partnership network and access to end-users**



Other topics and partners we are interested in:

guardtime 

Other calls with clear cyber and data-security aspects:

- SU-ICT-02-2019
- SU-INFRA01-2018-2019-2020
- SU-DS-05
- ...

Looking for partners with the following expertise/technology/application field:

- Project coordinators
- Complementing technology providers and research partners e.g. for cryptography, DLTs, cyber security, privacy technologies, artificial intelligence, quantum-proof security solutions, identity management
- Cooperation with end-users for solution validation and piloting



Contact us!

Mirjam Kert

Mirjam.kert@guardtime.com

Guardtime:

- Estonia, SME, 150+ FTE employees
- Dedicated team for Horizon 2020 projects
- One of the world's leading blockchain technology companies
- Dedicated and experienced R&D & H2020 teams with 5 running IA&RIA projects

H2020 projects:

- PRIVILEGE (coordinator) www.privileged-project.eu
- SOFIE www.sofie-iot.eu
- Sysflex <http://eu-sysflex.com>
- RESISTO www.resistoproject.eu
- ECHO www.echonetwork.eu



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PITCH SESSION



H2020 Collaborations
Mikel Uriarte
S21SEC

About S21SEC

Main Facts & Figures:

- S21sec is a **pure-play Cyber Security company** since 2000, recognized with the Start-up McKinsey award that year
- First Spanish company signing a Memorandum of Understanding with **Europol** for the fight against cybercrime
- Founding member of **ECISO – European Cyber Security Organization**
- +440 professionals, 8 offices, 3 countries, +20 countries global reach
- Fully participated by **SONAE Investment Management** - company of SONAE Group, a major Portuguese conglomerate (€ 5.7b turnover, 89 countries' presence, 40.000 employees worldwide)
- Merged operations with Nextel in Spain
- Active member of International Electrotechnical Commission (IEC) SyC Smart Energy/Working Group (WG)3
- Active member of Industrial Cybersecurity Center in Spain (CCI)



Extensive Collaboration in EU R&D Projects



COMPACT (H2020)

- Competitive methods to empower local public authorities (LPAs) to become the main actors of their cyber-resilience improvement process.



FORTIKA (H2020)

- Hybrid solution for micro, small and medium sized companies, that will reinforce trust and facilitate adoption of digital technologies ('security seal')



Cyber defence research agenda

- Review current cyber threats and vulnerabilities
- Review SoA and actual risks to identify technological scenario for the design of a safer European cyber space



Comprehensive approach to cyber roadmap coordination and development (CIP)

- Project focused on examining current and potential threats from a civilian perspective; and the development of an agenda in order to protect the European cyber space



Securing websites through malware detection and attack prevention technologies (FP7)

- Security solution that incorporates different mechanisms and tools for automatically mitigating web site attacks
- Maximize website security with minimum intervention from web site owners and administrators



Topics of Interest

Working areas:

- Effective assessment (Own cyber-attack framework, red team)
- Critical device protection (ATMs, POS, IEDs, IoT, WSN)
- Detection and Response (Malware, Threat intelligence, SOC, MSSP)
- Forensic (Fraude, e-crime)

SU-INFRA01: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

SU-INFRA02: Security for smart and safe cities, including for public spaces

SU-FCT03: Information and data stream management to fight against (cyber)crime and terrorism

SU-DS01: Cybersecurity preparedness - cyber range, simulation and economics

SU-DS02: Management of cyber-attacks and other risks

SU-DS03: Digital security and privacy for citizens and SME and uSME

SU-DS04: Cybersecurity in the EPES (Electrical PES): an armour against cyber and privacy attacks and data breaches

SU-DS05: Digital security, privacy, data protection and accountability in critical sectors

ICT-01: Computing technologies and engineering methods for CPS of systems

ICT-08: Security and resilience for collaborative manufacturing environments

ICT-15: Cloud security

Key Words: Critical Infraestrutres, Ciritcal device protection such as IEDs (Energy), ATMs (Finance), POS (Retail), WSN (IoT), etc. Anti-malware, Fraude, e-crime, Security Operation Center (SOC), Managed security services (MSSP), Threat Intelligence, Machine Learning, Cloud, cyber-physical correlation, own cyber-attack framework

Main sectors of interest: financial services, energy, manufacturing, transport and other critical sectors.



Contact us!

Dr. Mikel Uriarte Itzazelaia
R&D Director @ S21SEC

muriarte@s21sec.com

www.s21sec.com

Spain (HQ) | Portugal | Mexico



Your
Cybersecurity
Company

(Large Enterprise)



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Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



PITCH SESSION

- SECURE SOCIETIES & DIGITAL ENERGY
- Stefano BIANCHI
- Softeco Sismat Srl



Topics & related offered expertise

- **SU-DS03-2019-2020** Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises
- **SU-DS05-2018-2019** Digital security, privacy, data protection and accountability in critical sectors

— **Coordinator of ANASTACIA** www.anastacia-h2020.eu

Advanced Networked Agents for Security and Trust Assessment in CPS / IOT Architectures
Grant Agreement N° 731558, Topic H2020-DS-01-2016

► **Interested to replicate ANASTACIA approach with SME/ME**

Idea under discussion: Holistic risk-assessment inspired framework for
«Advanced Security and Privacy Management for SME/ME»



Topics & related offered expertise

- **SU-INFRA01-2018-2019-2020** Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe
 - **SU-INFRA02-2019** Security for smart and safe cities, including for public spaces
 - Member of IEC TC57 (Power systems management and associated information exchange), WG3 (Telecontrol protocols) and WG15 (Data and communication security)
 - Cyber security for the remote control systems of power generation, transmission and distribution.
 - Automatic image-processing inspection tools for aerial surveys (drones)
 - E.g. anomaly detection and localization in PV plants using visible+thermal images
 - Continuous GNSS & Environmental Monitoring Service for critical infrastructures - displacements/deformation of structures and land movements
 - CM-level accuracy in real-time, MM-level accuracy for daily/sub-daily solutions
- Interested in applications in **ENERGY & TRANSPORT** infrastructures
E.g. power plants and distribution / railways, urban multimodal nodes

Contact us!

Stefano BIANCHI

Research & Innovation Manager

Data Protection Officer (DPO)

Softeco Sismat Srl

stefano.bianchi@softeco.it

Industry (Large Company), ITALY 

www.softeco.it , www.research.softeco.it



Co-funded by the Horizon 2020
work Programme of the European Union

Thank you for your attention



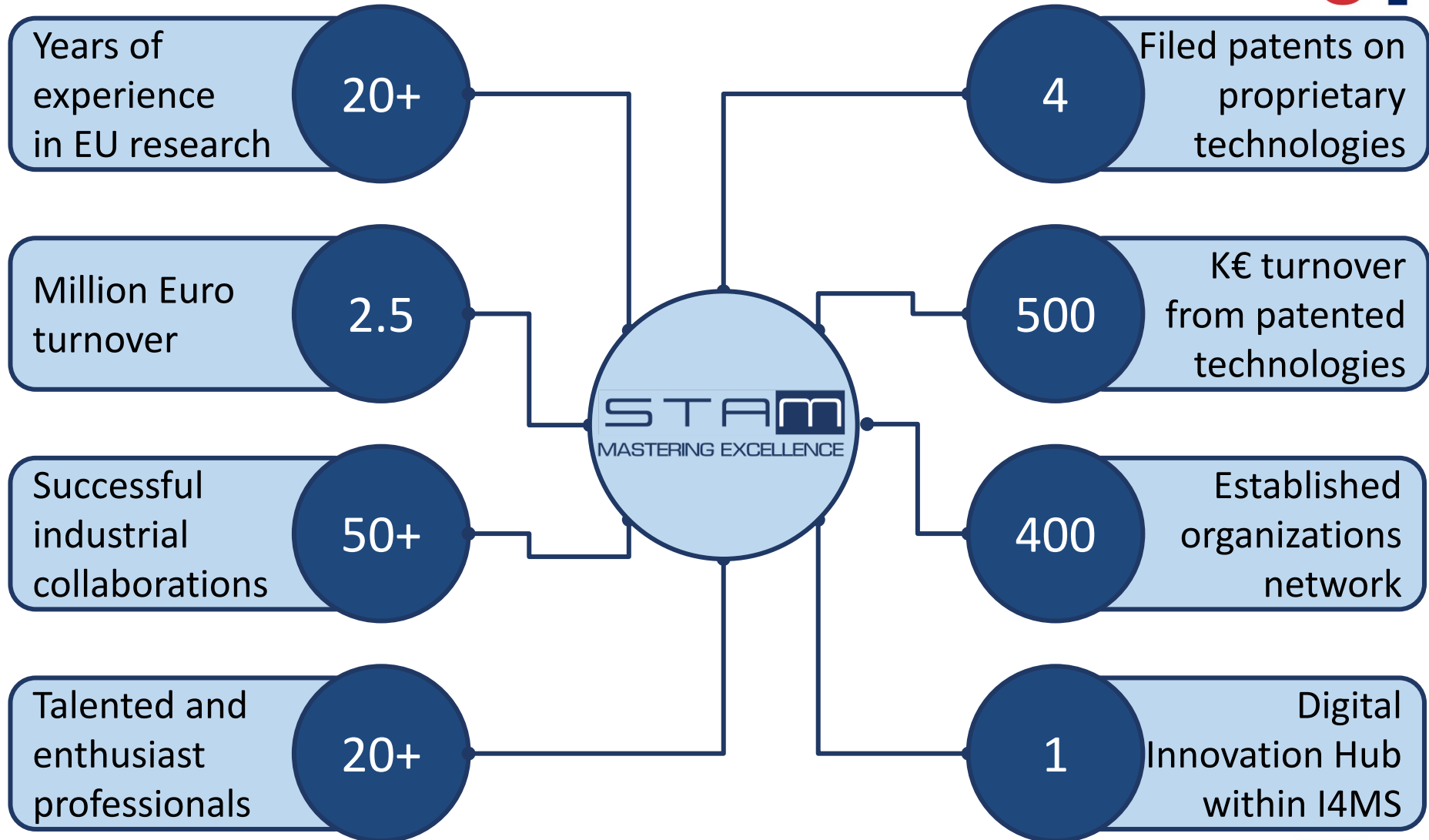


SU-INFRA01-2019

Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

Roberto Landò
R&D Manager, Stam S.r.l.
r.lando@stamtech.com

Company numbers



SECURITY of CRITICAL INFRASTRUCTURES

SECUREMETR

Increased safety, security and resilience of metro vehicles from terrorist attack by explosives and firebombs -> Basic Risk Assessment

 **RAMPART**



DAISY

Impact Analysis and Cost Benefit Analysis of Countermeasures on Airport infrastructure

Tools for risk assessment and cost-benefit analysis based on machine learning



SEMANTIC



RASSS

Sensitive Industrial Plants



InfraStress

Topic: SU-INFRA-01-2018

CROWD MODELLING for TRANSPORT INFRASTRUCTURES

FAIR STATIONS



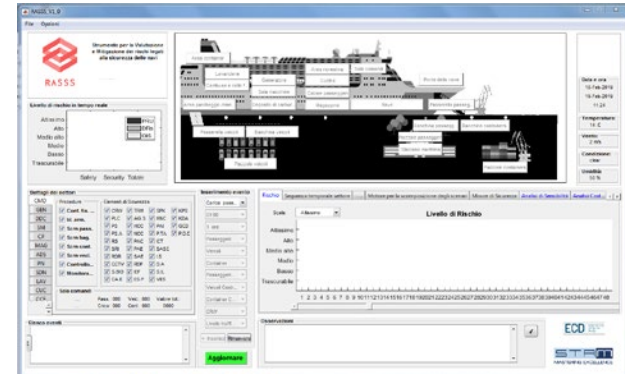
Co-funded by the Horizon 2020
Framework Programme of the European Union

SU-INFRA01-2019

Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

Offer:

- **Innovative risk assessment methodology** for prevention and mitigation of physical and cyber attacks to critical infrastructures.
- **Impact and cost benefit analysis** of security countermeasures.
- **Modelling** of critical infrastructures and attack scenarios.
- **Strategic decision-support** toolbox for cost-effective risk management and security resource planning.
- Critical Infrastructure **managers and operators**.



- **SU-INFRA02-2019:** Security for smart and safe cities, including for public spaces
- **SU-DRS04-2019:** Chemical, biological, radiological and nuclear (CBRN) cluster
- **SU-DRS01-2019:** Human factors, and social, societal, and organisational aspects for disaster-resilient societies
- **SU-DRS03-2019:** Pre-normative research and demonstration for disaster resilient societies
- **SU-DRS02-2019:** Technologies for first responders



Contact us!



Roberto Landò
R&D Manager, Stam S.r.l.

r.lando@stamtech.com

+39 345 6589384

www.stamtech.com





PITCH SESSION

- **Tracking mobile devices for smart & safe cities**
- Davide Ravà, Fabrizio Comolli
- Cellint

Real-Time Street-Level Positioning (anonymously) of All Phones in the Network

Best Mobility Data Solution for **Smart City Management** and **Law Enforcement Agencies**

→ **Smart cities/regions:**

- Traffic control
- Origin-Destination micro-analysis for urban planning and economic development
- Crowd, Crisis & Evacuation management

→ **LEAs:**

- Tracking and pinpointing any & every SIM card (including anonymous, vehicular SIMs, etc.)
- Pattern analysis (locations, paths, relationship with other SIMs...)



Topics of interest:

- SU-INFRA02-2019: Security for smart and safe cities
- SU-DRS02-2019-2020: Technologies for first responders
- SU-DRS05-2019: Novel concepts for the management of pandemic crisis
- SU-FCT02-2019-2020: Technologies to fight crime and terrorism
- SU-FCT03-2019-2020: Information & data stream analysis against (cyber)crime and terrorism
- any other relevant topic

Looking for:

- Looking to join a consortium
- Open to be involved in any relevant project



Davide Ravà

davide.rava@cellint.com | cellint972@gmail.com

+39 346 588 5112

Fabrizio Comolli

fabrizio.comolli@gmail.com

+39 347 27 06 656

CELLINT

www.cellint.com

SME based in Israel, operating worldwide:
nation-wide service in the US and Canada,
major projects in UE Countries and across the globe





PITCH SESSION

Sensitive and specific light-weight sensors for C&B detection

Sara Vinklatova
Leitat Technological Center

Detection of chemical or biological threat

- **Technology:** Highly sensitive, specific, lightweight and user-friendly sensors able to detect any biological or chemical compound after a disaster (or as prevention)
- **Application:** Sensor optimisation possible to fit any tools or devices (UAV, robots, hand-held sensor...) depending on the practitioners' needs to help first responders to act quickly
- **Need:** Coordinators/Consortia with ideas for the sensors' usage



Topic

- **DRS02 (Sub-topic 2)** Innovation for rapid and accurate pathogens detection
- **DRS04** Chemical, biological, radiological and nuclear (CBRN) cluster (targeting CB)
- ...or any other call depending on the coordinators' ideas

Keywords: Chemical & biological sensors, photonic sensor, optical detection, pathogens, infections, explosives, homemade ions...



Contact us!

Sara Vinklatova

EU business development

✉ svinklatova@leitat.org

 sara.vinklatova.leitat

Leitat Technological Center

C/ Pallars 179-185, 08005, Barcelona, Spain



Thank you for your attention





PITCH SESSION

E-N-COUNTER-X: European Network to Counter Terrorism and Hybrid Threats

Dr. Giray SADIK, Associate Professor & Regional Coordinator

Department of International Relations & JM-EU-Center of Excellence

AYBU: Ankara Yildirim Beyazıt University, TURKEY

E-N-COUNTER-X aims to establish a diverse **Network to Counter: Terrorism & Hybrid Threats**

Proposal activity: SU-GM01-2019 (FCT & DRS) as WP-Leader, Project Partner

Pan-European networks of practitioners and other actors in the field of security

«In 2019, proposals are invited in two specific areas of specialization: the protection of public figures; the handling of *hybrid threats*.»

- Gathering **CT-experts with cross-border & cross-sectoral**
- Intra-EU + NATO, OSCE, regional partnerships...
- Long-term **capacity-building**, expert databases & networks
- Cross-sectoral collaboration: AI in CT, border-security, CVE
- Paving the way for Counter: T&HT-Epistemic Communities
- Combining scholarly insights with experience and feedback of **practitioners (end-users) in EU and partners...**



E-N-COUNTER-X: European Network to Counter: Terrorism and Hybrid Threats

Proposal Coordinator: TBD

Dr. Giray SADIK as WP-Leader & Partner

Looking for partners with the following expertise in:

Academy: *IR-Security Studies, CT & Sociology: Social Work, CVE*

Policymaking: *Security Sector Governance, Reform, CT&hybrid*

Practitioners: *Military, Police, CT-ops. End-User practices...*

IO-experts: *OSCE, NATO training at NDC (Rome), NATO-CoEs*

Int.l Coop. Think-Tanks: *CeSI-Rome, ICTS-London, GCSP-Geneva*

SMEs for databases, technical support etc.



Contact Information



Dr. Giray SADIK

Associate Professor & Regional Coordinator (JM-EU-CoE)

Department of International Relations & ANAMER-EU-Center of Excellence

AYBU: Ankara Yildirim Beyazıt University, TURKEY

Academic Institution, University

Correspondance:

gsadik@aybu.edu.tr & girayuga@gmail.com





PITCH SESSION

- AR FOR A BETTER AND SAFER WORLD
- Filippo Leddi
- **HOLO-LIGHT**

About Us

Vision & Mission

We merge the real with the digital world developing AR software and hardware solutions to make the life of workers and citizens easier and safer

Company Facts

Founded in 2015

Office in Munich (DE)

+35 employees

+40 projects/POCs

Auggie Award Winner 2018 for best input method

German Innovation Award 2018



Projects/Products Portfolio

Holo-View – Collaborative 3D CAD Visualization

Holo-Simulate – CAE Visualization

Holo-Stylus – Input device for HMDs

Projects & PoCs in industrial AR

Interest :

We are looking for coordinators/consortiums to join calls under the “Disaster Resilient Societies”, “Protecting the Infrastructure of Europe and people in the European Smart Cities” and “Border and External Security” topics.



Contact us!



Filippo Leddi (f.leddi@holo-light.com)

**Holo-Light (SME)
Germany**



SECURE SOCIETIES

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PITCH SESSION

Michał Pilc

PSNC, Cybersecurity Department

- *R&D center affiliated by Polish Academy of Sciences – 350+ employees*
- *Operator of PIONIER (Polish NREN) and POZMAN networks*
- *European and Polish R&D Projects*
 - *178 EU funded projects (5PR – H2020), 19 coordinating – as of 01.2019*
- *R&D together with science, industry, finance, administration, government, ...*
- *Main areas of interest*
 - *High Performance Computing*
 - *Next generation networks (NGN)*
 - *New data processing architectures*
 - *Internet of Things (IoT) services*
 - *Cybersecurity of systems and networks*
- *New HQ: Polish Optical Internet Research Center (CBPIO)*



- *Main areas of activity*
 - *Protection of PSNC, PIONIER, POZMAN networks (PIONIER CERT)*
 - *Security tasks in R&D projects*
 - *Vulnerability and security research*
 - *External services*
- *Active @ H2020 projects (only Cybersecurity Dept.)*
 - *PROTECTIVE (<http://protective-h2020.eu/>)*
 - *GN4-3 (https://www.geant.org/Projects/GEANT_Project_GN4-3)*
- *Cybersecurity lab in CBPIO*
- *Current leading research topics*
 - *Advanced threat detection modules for ICT, SCADA and IoT*
 - *Anomaly detection*
 - *Complex Event Processing*
 - *Machine learning*
 - *Threat intelligence prioritization, correlation and sharing*
 - *Physical layer security*



SCADvance

symbloTe



- **ICT-08-2018-2019:** *Security and resilience for collaborative computing environments*
- **SU-INFRA01-2018-2019-2020:** *Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe*
- **SU-INFRA02-2019:** *Security for smart and safe cities, including for public spaces*
- **SU-DS03-2019-2020:** *Digital security and privacy for citizens and Small and Medium Enterprises and Micro enterprises*
- **SU-DS05-2018-2019:** *Digital security, privacy, data protection and accountability in critical sectors*
- **ICT-20-2019-2020:** *Long Term Evolution*

Profiles sought

- ☐ *Law enforcement authorities*
- ☐ *Universities/Academia/R&D institutions*
- ☐ *Enterprises delivering technology products (i.e. software houses)*
- ☐ *Practitioners: hospitals, power grid operators etc.*
- ☐ *SMEs*



Thank you for your attention!



Michał Pilc

PSNC, research institution

Cybersecurity Department

Tel. +48 61 8582195

E-mail: mpilc@man.poznan.pl

<http://www.psnc.pl>





PITCH SESSION



- Privacy of citizens' Smart Homes
- Csaba KRASZNAY
- National University of Public Service, Hungary

Privacy Gateway for smart homes

- NUPS is the governmental university in Hungary, responsible for research and education related to public service, incl. privacy and cybersecurity for present and future public servants
- Our objective is to understand and mitigate the cyberthreats of smart homes and increase their privacy, therefore protect our citizens.
- We are working together with a Hungarian SME and another university on a home gateway solution that fulfill the topic's requirement (TRL 3 at this moment)
- The idea is supported by the national data protection authority and national CERT.



Digital Security and privacy for citizens (SU-DS03-2019-2020 (a) subtopic)

- We are offering legal and public service expertise, incl. law enforcement, international relations, military and disaster management, proved in national researches in such topics.
- We have ~1000 students with basic privacy and cybersecurity awareness for measuring the solution
- We are looking for mostly technical expertise, incl. protocol and endpoint analysis.
- We are open for joining a consortium, even in other DS calls or organizing a new one.





Contact us!

Csaba Krasznay

krasznay.csaba@uni-nke.hu

National University of Public Service

Academic institution

Budapest, Hungary

<https://en.uni-nke.hu/>



Co-funded by the Horizon 2020
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PITCH SESSION

System of Intelligent Sensors networks for critical infrastructures security

Nizar TOULEIMAT
CEAtech

System of Intelligent Sensors networks for critical infrastructures security



- **changing risks & emergence of new threats
=> not detected by video surveillance and other security systems**
- **necessity of new development & innovative products to guarantee the protection of critical infrastructures**
- **multi-functional intelligent sensor network system, providing CBRN and Radio Frequency signal recording, intelligent data collection and processing for the purpose of reporting qualified alarms to an operator.**
- **Current partners: CEAtch (RTO, France) & Syrlinks (SME, France)**
- **Looking for: coordinator, application sites and infrastructures, Legal & administrative, Ssystem integrator&operator, ...**

=> SU-INFRA01-2019 / SU-INFRA02-2019



Topics

- **FIGHT AGAINST CRIME AND TERRORISM**
- **BORDER AND EXTERNAL SECURITY**
- **DISASTER RESILIENT SOCIETIES**
- **CYBER SECURITY, DIGITAL PRIVACY AND DATA PROTECTION**
- **PROTECTING THE INFRASTRUCTURE OF EUROPE**



Keywords

- Distributed intelligence
- Explainable AI
- Stream data & signal data
- BigData: feature selection, predictive models
- CBRN sensors

Previous projects: EURITRACK, TERRIFFIC, C-BORD...



Contact us!



CEAtech LIST
Nizar TOULEIMAT
nizar.touleimat@cea.fr
+33 (0) 169 087 166





PITCH SESSION

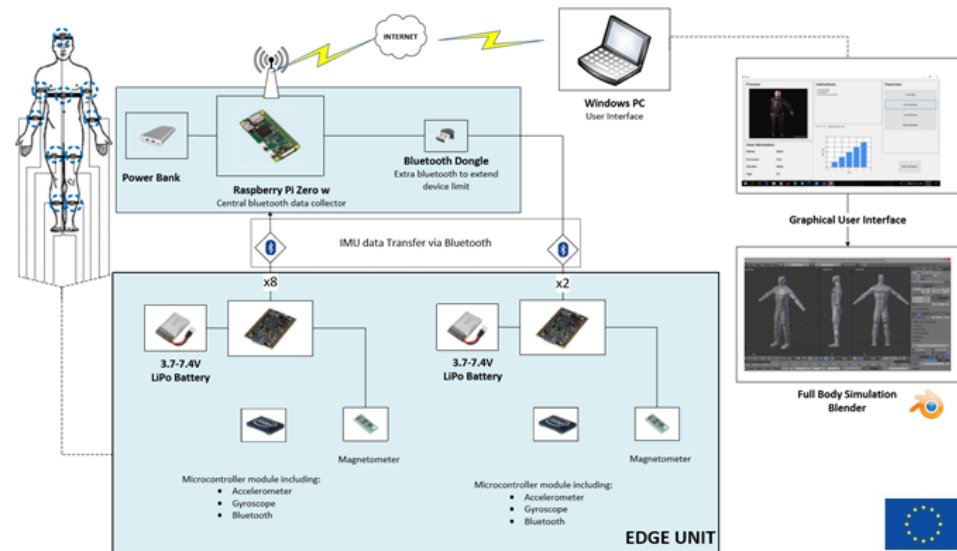
Teamaware

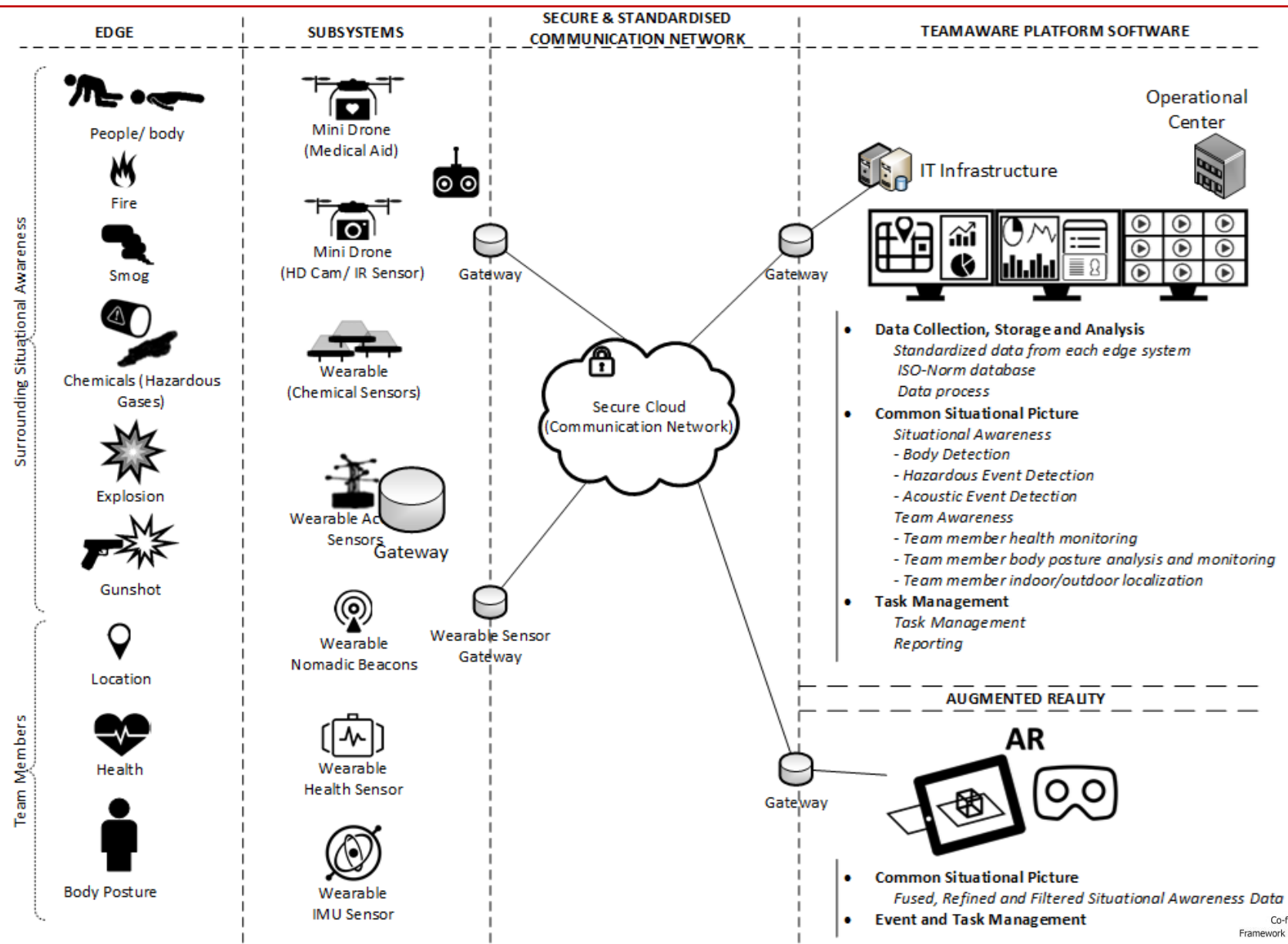
- Dr. Tolga Sönmez
- Havelan

- *Embedded Systems division has 4 hardware engineers, 4 signal processing and algorithm development, 4 embedded software engineers (with 2Phds, 6 M.Sc.)*
- *Basic Capabilities are*
 - **Body posture tracking**
 - *Acoustic Detection and Localization (UAV detection)*
 - *Localization and Navigation (INS/GPS, AHRS, **Indoor localization**)*
 - *Anti-jamming GNSS Protection System*
 - *Sensor Fusion*
 - *Target Tracking*



Acoustic Detection System





| No | Partner Name | Type | Country | Role in the Project |
|----|----------------|------|---------|---------------------------|
| 01 | Havelsan | IND | TR | Acoustic Detection System |
| 02 | | IND | SP | Chemical Sensor/Wearables |
| 03 | ? | SME | ? | Drone Operator |
| 04 | | IND | FR | Image Processing |
| 05 | - | EU | PT | First Responder |
| 06 | Bursa Belediye | EU | TR | First Responder |
| 07 | | SME | NE | Acoustic Sensors |
| 08 | | | | |



Contact us!



Dr. Tolga SÖNMEZ
HAVELSAN (Large Industry, Turkey)
Command and Control Systems
+90-312-219 5787 / 2425
tsonmez@havelsan.com.tr
www.havelsan.com.tr

