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S2_33_RafIHedel_FraunhoferIVI.pdf

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PITCH SESSION



DRS-04-2019 CBRN Protective Clothing with
Detection and Decontamination functionalities.
EU C2D2

PhD Gemma Romualdo Torres
Fábrica Española de Confecciones S.A., FECSA

Our project idea

- FECSA Spanish leading company in textile and clothing for Professional, Corporate and Defense forces.
- The C2D2 objective is the integration of the *Detection and Decontamination smart concept* on protective clothing against chemical threats and the digitalization of multidisciplinary Operative Units.
- The project scope covers not only lab testing but also validation under operational conditions with real threats.

Projects expertise:

- iHELMMAT, Innovative HELMet MATerials for soldier head protection, EDACEDS FSP
- Project granted by the Spanish Ministry of Defence.
- Proposal NMBP H2020 under evaluation



Topic **H2020 - SU-DRS04-2019 CBRN cluster**

- Accelerate the incorporation of smartness and digitalization technologies in the field of CBRN protective clothing for a secure intervention of the personnel involved in case of chemical events.
- Demonstration of functionalities and benefits of Detection and Decontamination protective clothing under relevant scenarios.
- Enabling Europe's first responders and society the tools for operational safety and security.
- Explore the potential of a new generation of smart CBRN protective garments.

Partners already confirmed: Coordinator (Spain) and RTOs (Spain)

Partners search:

- First responders (CBRN Operative Units, Civil Protection agents, Fire Fighters Responders, Medical Emergencies Units, Civil and Military Intervention Units, LEAs...)
- Clothes testing laboratories with access to real agents.
- Industries or SMEs with expertise in the CBRN detection and decontamination field.

Contact us!

PhD Gemma Romualdo Torres

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Fábrica Española de Confecciones S.A., FECSA

SME (Small Medium Enterprise)

SPAIN



Thank you for your attention www.seren-project.eu





REPUBLIC OF TURKEY
MINISTRY OF NATIONAL EDUCATION



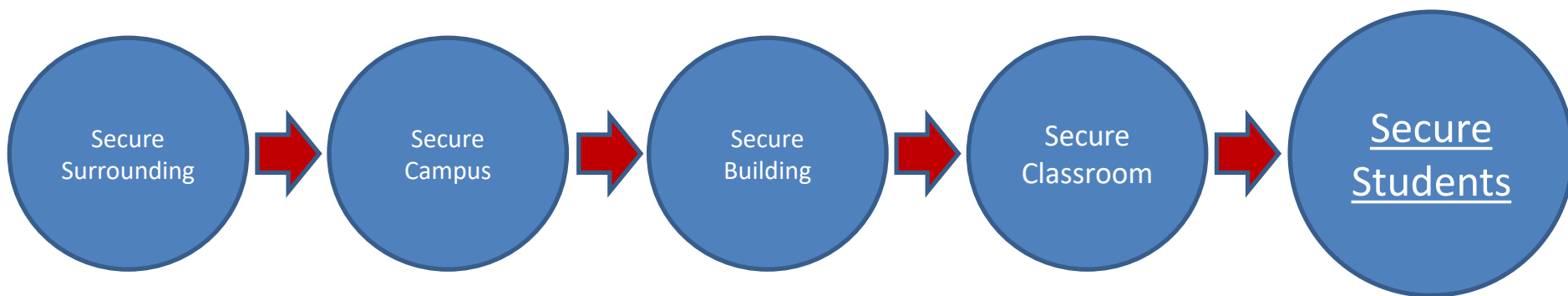
PITCH SESSION

- Public and School Security
- Mehmet LEK
- Republic of Turkey, Ministry of National Education



Ministry of National Education:

- Opens all kinds of formal schools
- Supervises the establishment and operation of private schools and state schools,
- Supervises the establishment of military schools in cooperation with Ministry of Defence,
- Cooperates with all ministries and provide statistics in need.
- Coordinates and participates national and international projects including security



Public and School Security





Proposal activity: SU-INFRA02-2019: Security for Smart Cities and "soft" targets in Smart Cities

Proposal idea/content

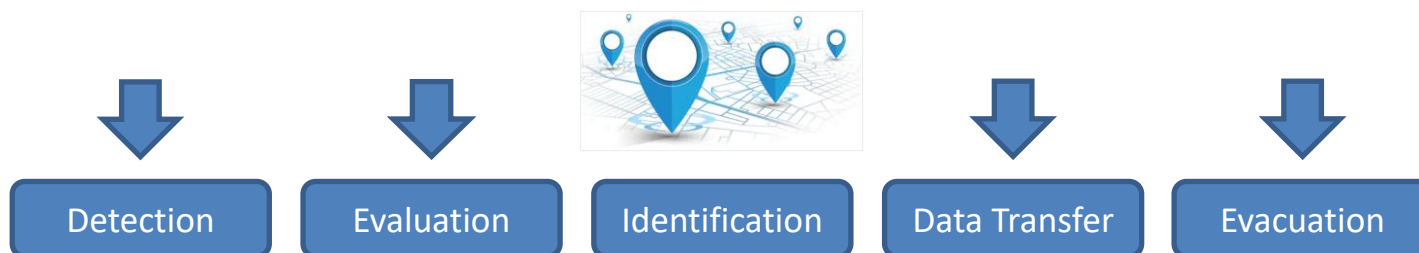
Idea: An integrated autonomous tracking system for students and threat analysis via behaviour statistics of vehicles and human factors.

In order to

- Smart detection and evaluation systems for **physical threats**
- Smart **human factor impact** assessment and **identification system** for campus surrounding
- Automaticly **data transfer** on suspicious objects and activities detection
- Track and locate students' positions individually inside the campus to model **critical evacuation** scenarios.

Possible Partners:

- Risk Management Specialists • Technology Experts • Security Practitioners • Big data analysts •
- Communication Providers





- Mehmet LEK
mehmetlek.ist@gmail.com
- Ministry of National Education / Governmental Organization,
Ankara/Turkey
- Role: Proposal coordinator
- Proposal activity: SU-INFRA02-2019: Security for smart and safe cities,
including for public spaces





PITCH SESSION

**Extending the Network of Security Experts in
and beyond the EU's Borders**

Prof. Dr. Sinem AKGUL-ACIKMESE

Kadir Has University – ISTANBUL

- 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)

Project idea: Extending the Network of Security Experts in and Beyond the EU's Borders

Background:

- The Global Strategy (2016) of the EU defines a new European security setting;
 - * by also defining how to deal with the hybrid threats by focusing on efforts on defence, cyber, counter-terrorism, energy and strategic communications,
 - * by prioritizing resilience in EU's East and South.
- **Problematic:** Practitioner organizations have limited access to the academic research and innovation by industry that could be useful to them. Moreover, in order to establish a secure environment around EU's borders, a bridge should be established between the security stakeholders of the EU and the EU's neighborhood. **So how could we build an integrated network of security experts in and beyond the borders of the EU ?**



Project idea: Extending the Network of Security Experts Beyond in and Beyond the EU's Borders

- **Our project objective:**
 - To bridge the gap between security practitioners and other stakeholders including academia and industry,
 - To link European security sector to the security sector of the EU-East and EU-South,
 - To form an integrated network of security experts in the field of handling hybrid threats as defined in the Joint Framework on Countering Hybrid Threats – a European Union Response,
 - To integrate academic and non-academic aspects of security
- **Project team** incorporates expertise on security experts in academia dealing with various types of hybrid-threats and has connections to security practitioners and industry in Turkey and the neighbourhood.



SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security

- **List of complementary skills we are looking for:**
 - Expertise on hybrid threats
 - Security practitioners both in Europe and the neighbourhood
 - Academic networks on security matters
 - Security industry
- **Keywords:** *hybrid threats, security networks, academia, EU Neighbourhood, EU-South, EU-East, industry*





Contact us!

Point of Contact:

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Specialist

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Thank you for your attention

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PITCH SESSION

- Intelligent Access Control and Threat Detection
- **Muhammed Salih ÇETİN – CEO**
salih.cetin@mavinci.com.tr
- MAVİNCİ Bilişim San. ve Tic. A.Ş. - SME TURKEY

Our Ideas

- Intelligent Highways

Intelligent Highways with warning messages and diversions according to climate conditions and unexpected events like accidents or traffic jams. Provide security for Intelligent Highways and safe cities, including for public spaces



- Intelligent Access Control and threat detection

Access control to restricted areas and detection of people in non-authorized areas.



Keywords: Deep Learning, Neural Network, Object Detection, Artificial Intelligence

The topics we are interested / experienced in:

- Intelligent Video Analytics **[FIELDDED]**
- AI, Deep Learning, Machine Learning **[FIELDDED]**
- Modeling & Simulation **[FIELDDED]**
- Command & Control Solutions
- Disaster & Emergency Management **[FIELDDED]**
- Cloud, Big Data, Data Mining **[FIELDDED]**
- Security of Critical Infrastructure **[FIELDDED]**

The projects we have focused on:

- INFORMATICS
- CBRN
- NUCLEAR SAFETY
- SECURITY
- DEFENSE

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-DRS04-2019-2020	Chemical, biological, radiological and nuclear (CBRN) cluster
SU-DS03-2019-2020	Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises



Chemical Biological Radiological Nuclear



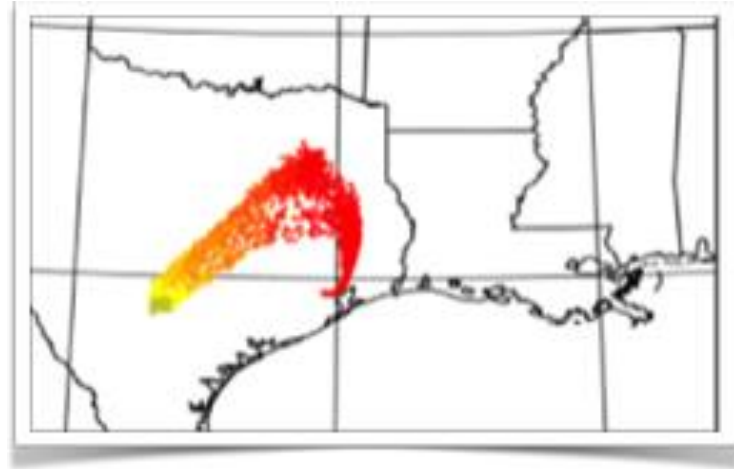
- Role: *WP leader*
- Related activity:
 - SU-DRS04-2019-2020

Mavinci provides simulation-based software solutions used for management of CBRN events, hazard management, hazard prediction, strategic and tactical planning, assignment and interference processes.

CBRN KERNEL, makes contamination calculations according to **NATO ATP**, **NATO AEP** and **Lagrangian Particle Model** solutions. It calculates the **atmospheric dispersion and deposition of substances** with actual wind and terrain data based on meteorological time series in inhomogeneous turbulence.



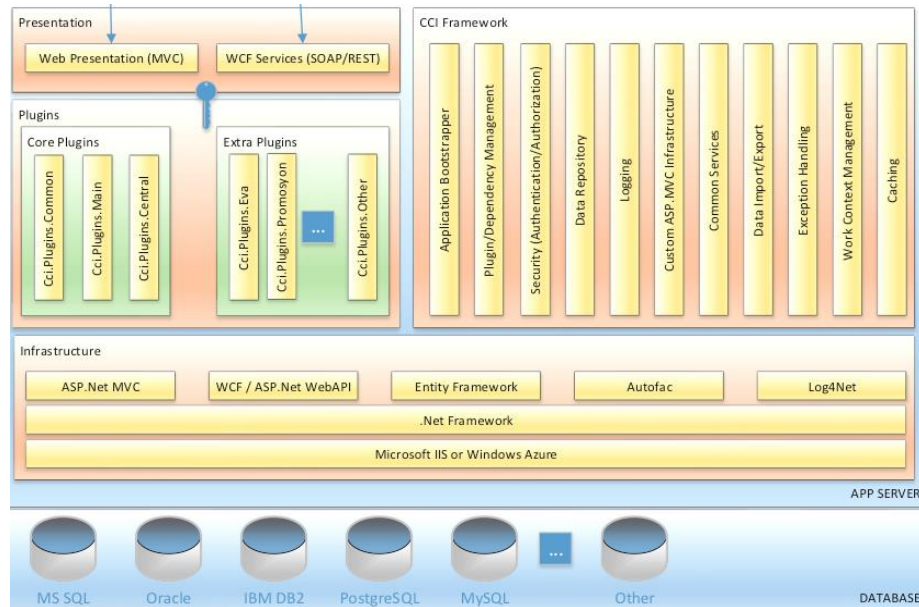
Chemical Biological Radiological Nuclear



- **Warning and Reporting**
 - *CBRN1, CBRN2, CBRN3, CBRN4, CBRN5, CBRN6*
- **Simple and Detailed Dispersion Forecast**
 - *NATO AEP - 45 Standard*
 - *NATO ATP - 45 Standard*
 - *NATO ADatP-3 Standard*
- **Scientific Analysis**
 - Impact Analysis
 - 2D Atmospheric Pollution Forecast
 - 3D Atmospheric Pollution Forecast
 - Concentration and Dose Calculation
 - Deposition Calculation
 - Source-receptor Analysis
 - Mean Odor Dispersion Calculation
 - Radiation Exposure Analysis



Secure Cloud, Big Data, Data Mining



- Role: *WP leader*
- Related activity:
 - SU-DS03-2019-2020

AIRBIZONE solutions are developed to provide organizations new ways to manage their assets on a secure basis from anybody from anywhere. The managers will be able to see the whole system in brief to understand the big picture of the system situation. This solution will help organizations to control their timely based operations in convenient situations.

Cloud networks are similar to a virtual private network (VPN) because they enable the users to securely access files, printers, applications, etc. from anywhere in the world, on any device.



Contact us!

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Thank you for your
attention



SECURE SOCIETIES

Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



PITCH SESSION

- 5G LTE : a perfect match for PQC
- Stiepan Aurélien Kovac
- Itk AVtobvS SARL, Fribourg

Our project idea

As experts in ISO SC27 WG2 (crypto), we propose to make Europe's 5G LTE encryption post-quantum, namely resistant to attacks by large enough quantum computers to break RSA, etc.

This is possible currently using tweaked symmetric crypto, a natural match for mobile telephony networks.

Our project partners in Germany would provide innovative battery technology to ensure 5G availability in critical infrastructure, even when depending on renewables for power supply, effectively making it « desert-proof ».



Topic

Currently working with the EPFL likewise Mr. Ostermann, Power Connection (DE), we are looking forward to engage more partners.

Those would need to be specialized in chip making, i.e. foundries and based in Europe, including for mass production (must have).

Participation to ICT-20-2019: 5G LTE (RIA) – DL on 28.03.19 – likewise any other corresponding H2020 call, is envisioned.

Previously led the CEuniX and pqsymDBT efforts, CH-funded.

Keywords :

eAES, post-quantum crypto, 5G, LTE, SC27, battery



Contact us!



Stiepan Aurélien Kovac

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PITCH SESSION

Technologies for communication strategies between emergency services and communities to promote safe behaviour in evacuations

Dr Anne Templeton

University of Edinburgh

Dr Anne Templeton | A.Templeton@ed.ac.uk

Proposal summary

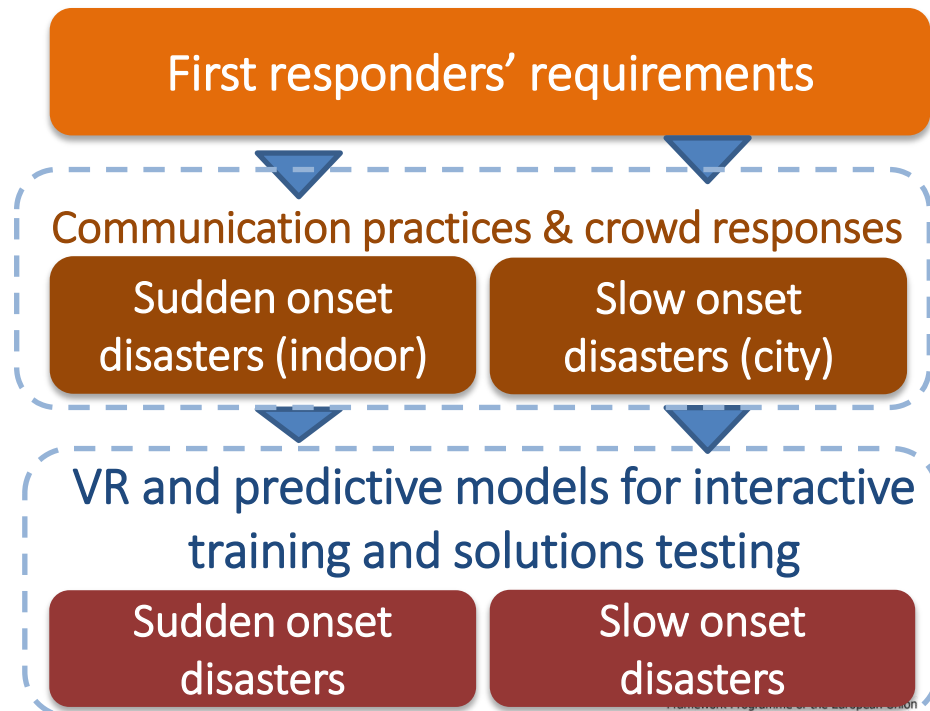
Questions: Effectiveness of technologies and crowd communication for first responders
Influence of group processes in behaviour during slow/sudden onset disasters

Expertise: Crowd psychology, software engineering, first responders, VR simulation & training
across Sweden, Germany, Netherlands, Italy, UK, Greece, Japan

Wanted: Emergency services & SMEs in
planning for flooding and earthquakes
▪ Evacuation simulations ▪ VR for training

Previous & ongoing projects (EU funded):

- BRIDGE
- CURSOR
- INPREP
- COSMIC
- EVACUATION
- IMPACT



Interested in:

Technologies for first responders (SU-DRS02-2018-2019-2020 open call)

- Communication ▪ Pedestrian modelling ▪ Group processes
- Evacuation behaviour ▪ VR training ▪ VR simulations



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Dr Anne Templeton

Department of Psychology, University of Edinburgh, Scotland

A.Templeton@ed.ac.uk



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PITCH SESSION

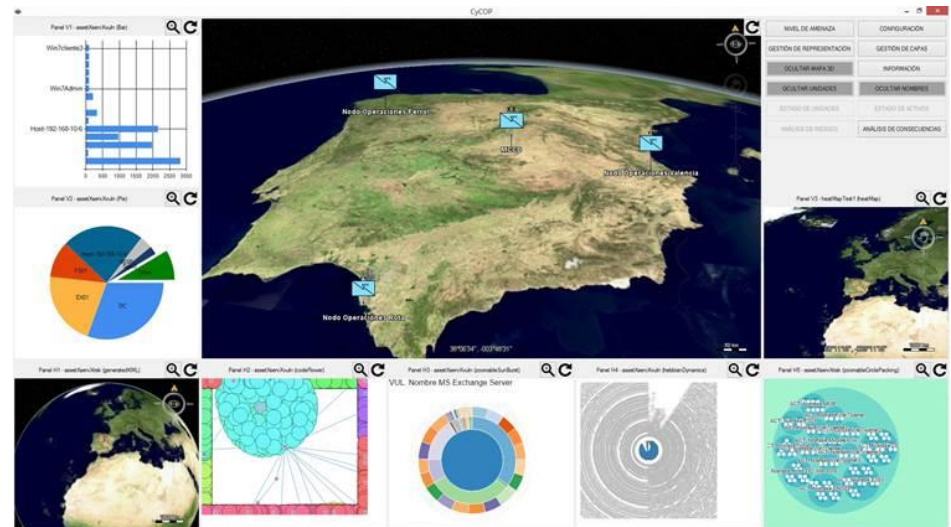


UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

- SU-DRS02-2019 Sub-topic Open
- Juan Gómez Lasquetty
- Universidad Politécnica de Valencia (ES)

Our project idea

- UPV specializes in C2 systems, including advanced visualisation, sensors integration and interoperability architectures to provide situational awareness to first responders in their application scenarios
- Our project idea aims to enrich the awareness of the first responders on field operations by developing the concept of Geospatial Intelligence (GEOINT) through the use of:
 - Wearables Sensors
 - Internet of Things
 - Big Data
 - Information Fusion
 - Video Analytics



Our project idea

- Proposal coordinated by UPV and a core team integrated by:
 - RTOs from Greece and the Netherlands
 - Industry from Switzerland
 - First responders from Spain and the Netherlands

- We look for partners (SMEs preferred) with the following skills:
 - Wearable technologies (health, IMU, beacon...)
 - Video analytics
 - Internet of Things
 - **First responders**



Contact us!

- Contact person: Juan Gómez Lasquetty
- Email: juagolas@upvnet.upv.es
- Universidad Politécnica de Valencia
- Spain



Thank you for your attention





PITCH SESSION

- Cybersecurity and Cryptography expertise
- Luciano Bozzi
- Ro Technology

Our project idea

We have the following expertise and are interested in the following topics:

- **Hybrid cryptography, Lightweight cryptography (resource constrained devices i.e. IoT/WSN)**
- **Embedded Systems and Communication Protocols**
- **Threat detection&analysis (snort and zeek open-source, Corelight's sensors)**
- **Malware detection (vulnerability, automated signature analysis)**



Topic

We are running the following National and European Projects:

- 1. PNRM a2014 SEAMLESS (Jun '16-May '18): SEcure plAtform for multi-hop wireLess sEnSor Networks, co-funded by Italian MoD, Coordinator**
- 2. H2020-ECSEL-2015-RIA SafeCOP (Apr '16-ongoing): Safe Cooperating Cyber-Physical Systems using Wireless Communications**
- 3. H2020-ECSEL-2016-RIA Megamart (Apr '17-ongoing): MegaModelling at Runtime - scalable model-based framework for continuous development and runtime validation of complex systems**
- 4. POR-FESR-2016-Lombardia Teinvein (May '17-ongoing): TEcnologie INnovative per VEicoli INtelligenti (Innovative Technologies for intelligent vehicles)**
- 5. H2020-ECSEL-2017-RIA AFarCloud (Sep '18-ongoing): Aggregate Farming in the Cloud**
- 6. H2020-DT-2018-2020 Topic DT-ICT-08-2019-IA DEMETER(est. Sep '19): Building an Interoperable, Data-Driven, Innovative and Sustainable European Agri-Food Sector**
- 7. H2020-ECSEL-2018-RIA Comp4Drones (est. Oct '19): Framework of key enabling technologies for safe and autonomous drones applications**



Contact us!

Luciano Bozzi – luciano.bozzi@rotechnology.it

Ro Technology

SME

Italy



Thank you for your attention





CBRNE SOLUTIONS



HAVELSAN
• **LEADING INFORMATION TECHNOLOGY & SYSTEMS INTEGRATOR
IN DEFENSE, SECURITY & CIVILIAN MARKETS**

Brussels, March 2019

SECURE SOCIETIES

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- WHO WE ARE?
- HAVELSAN CBRNE APPROACH



- WHO WE ARE?
- HAVELSAN CBRNE APPROACH





TURKISH ARMED FORCES FOUNDATION



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HAVELSAN KEY FACTS



**HAVELSAN HEADQUARTER [ANKARA]
R&D CENTER**



**COUNTERTERRORISM
SIMULATION AND TRAINING CENTER[ANKARA]**



SIMULATION CENTER [ANKARA]



**NAVAL COMBAT SYSTEMS CENTER [İSTANBUL]
R&D CENTER**



TEST & INTEGRATION FACILITIES [ANKARA]



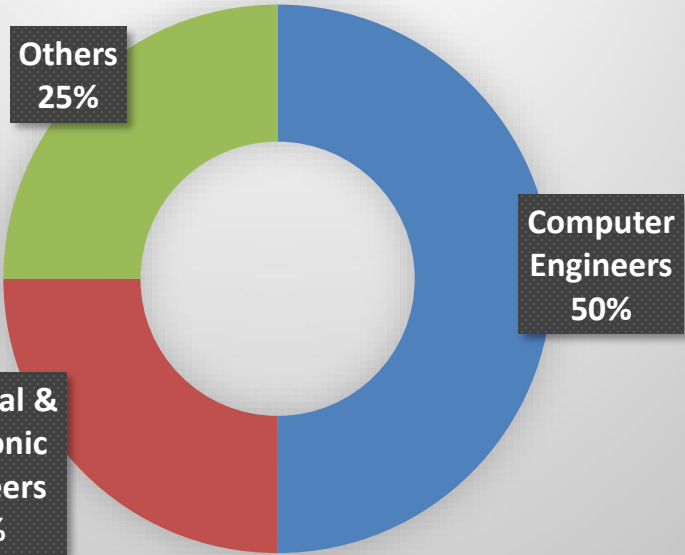
**METU TECHNOLIS
R&D CENTER**



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PERSONEL~1400



SUBSIDIARIES



QUANTUM 3D
Simulation & Training



HTR
Maintenance Repair and Operations



EHSİM
Electronic Warfare



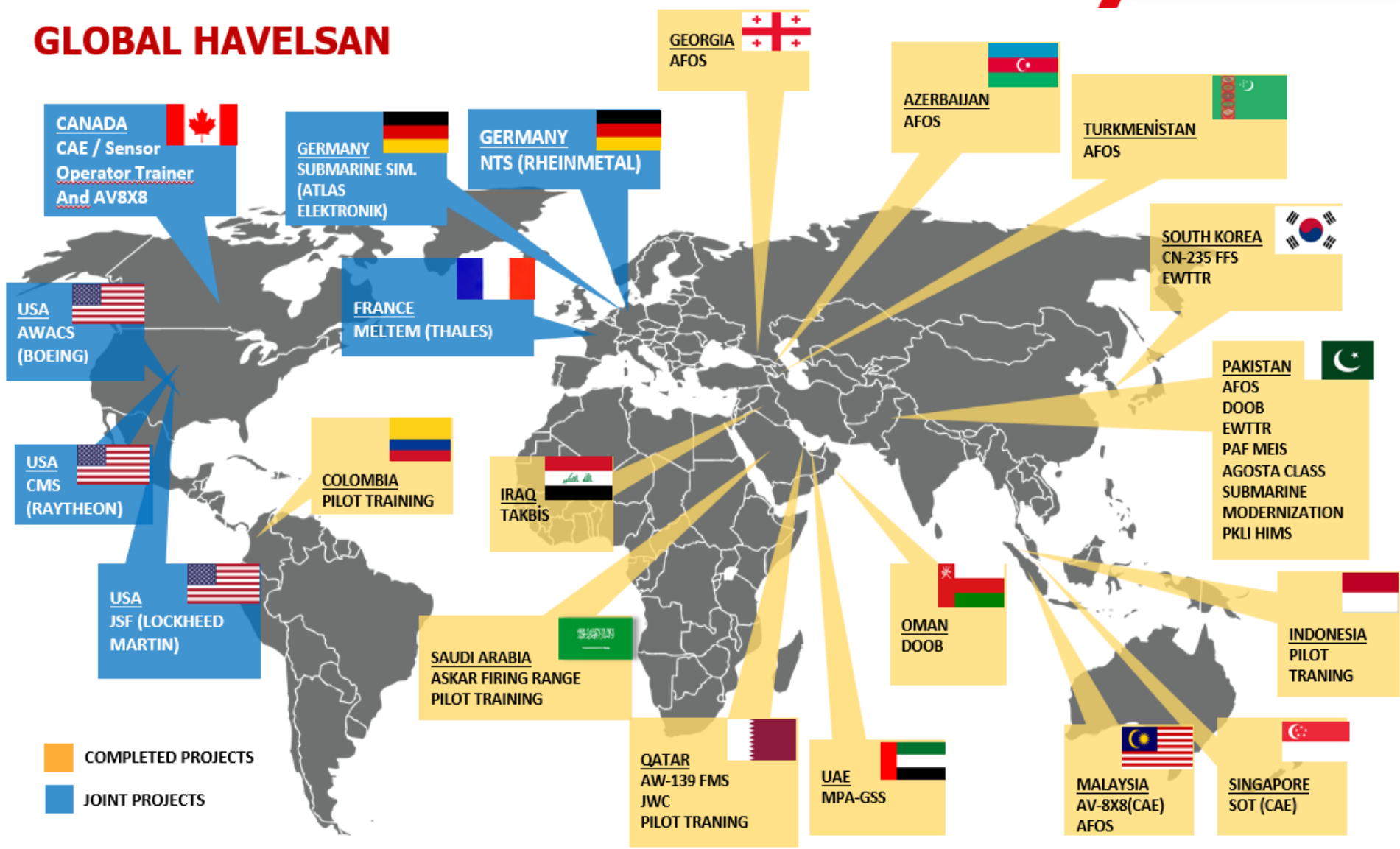
STM
Engineering and Consulting



HAVELSAN KEY FACTS



GLOBAL HAVELSAN



C4ISR TECHNOLOGIES

Command & Control **Leader of Turkey**



TRAINING & SIMULATION TECHNOLOGIES

A Global Brand in Training & Simulation



INFORMATION & COMMUNICATION TECHNOLOGIES

Leading E-Transformation Company of Turkey



HOMELAND & CYBER SECURITY

Center of Excellence in Security Solutions



- WHO WE ARE?
- HAVELSAN CBRNE APPROACH



- **System Requirement Analysis**

- Site Survey
- Threat Analysis
- Sensor Selection and Verification
- Location Designation
- ILS Planning

- **System Development**

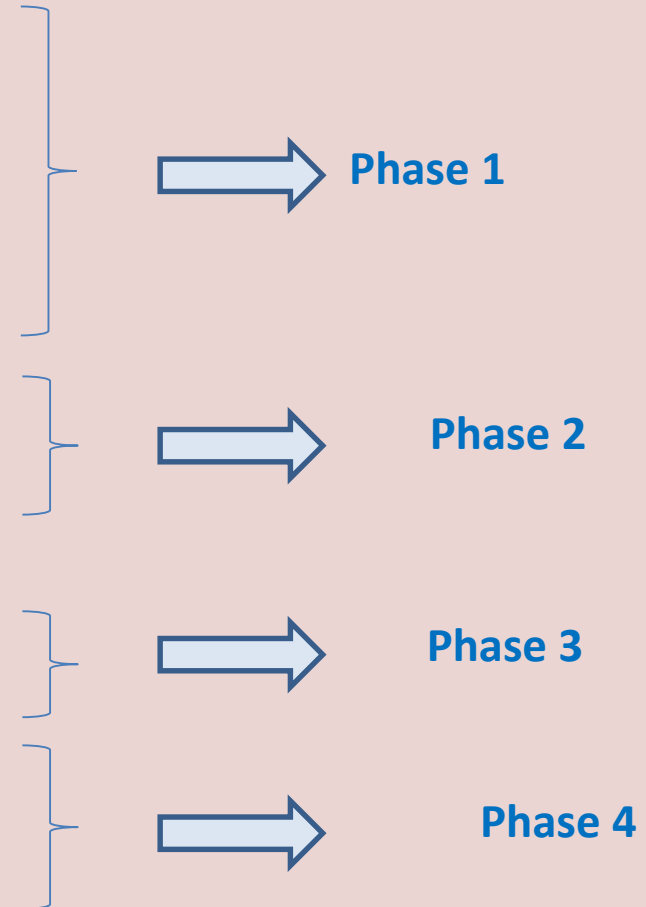
- HW
- SW

- **System Installation and Integration**

- Acceptance Tests

- **Life Time Support**

- Periodical Maintenance
- Trainings



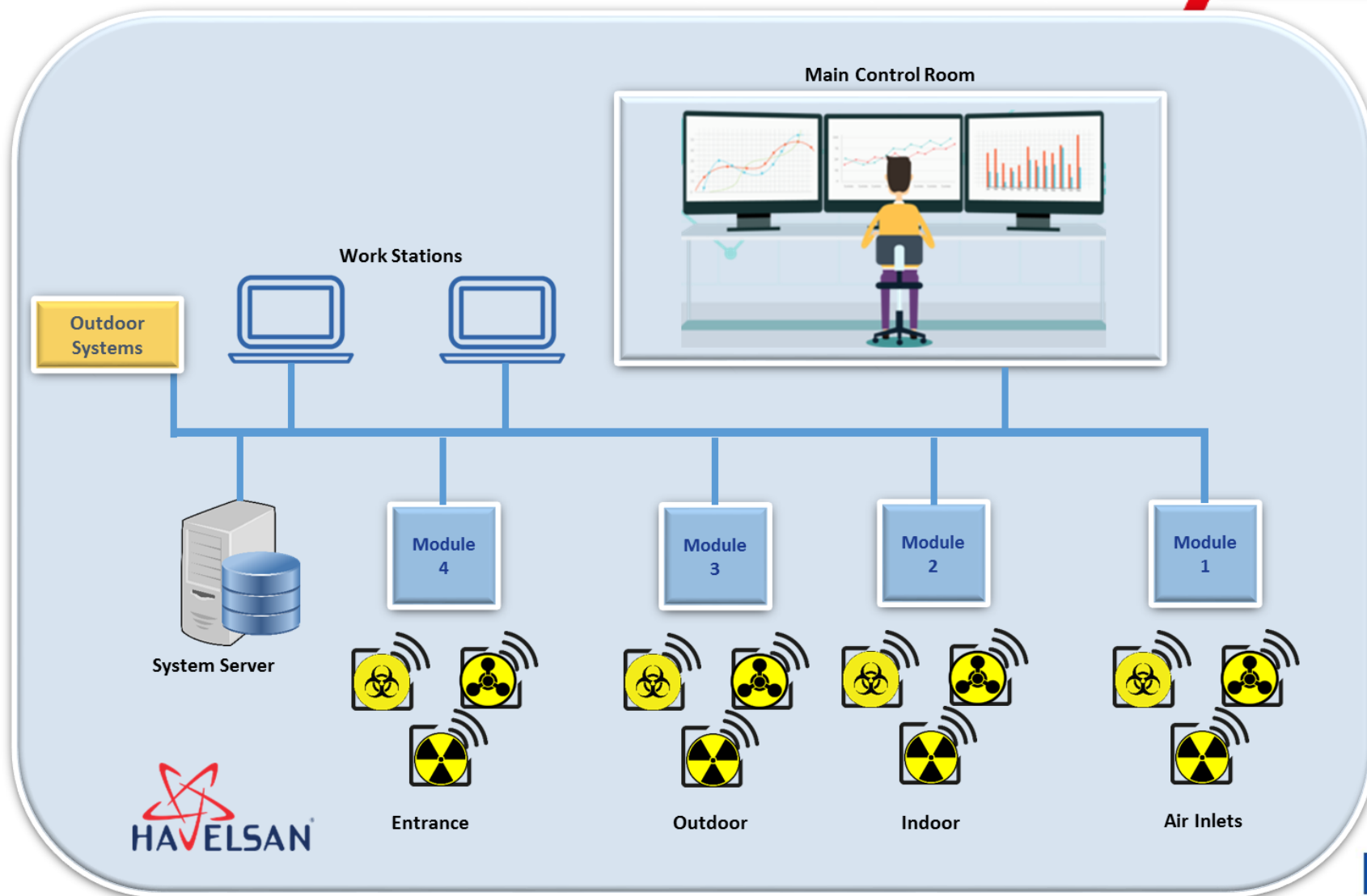
Services

- Turnkey System Solution
- Consultancy

Architecture

- Modular
- Reliable
- End to End Secure
- Customer Oriented





CBRNE

Sensor Selection and Thresholds

Reference: USACHPPM Report No. 64-FF-0722-07				PAINT I	PAINT I	PAINT I	NUMERIC VALUE
CWA / TIC	Table Name	Agent Name	CAS Registry	① CRITICAL Vapor Concentration (C in mg/m³) (Duration: 10 minutes)	② MARGINAL/ ESSENTIAL Vapor Concentration (C in mg/m³) (Duration: 10 minutes)	③ NEGLECTABLE / DESIRABLE Vapor Concentration (C in mg/m³) (Duration: 10 minutes)	④ Lowest Alarm Limit Predicted (C in mg/m³)
CHEMICAL WARFARE AGENTS	B-1	Agent GA—Tabun, nerve agent	77-81-6	≤ 11	≤ 0,22	≤ 0,14	
	B-2	Agent GB—Sarin, nerve agent	107-44-8	≤ 5,6	≤ 0,22	≤ 0,14	
	B-3	Agent GD—Soman, nerve agent	96-64-0	≤ 5,6	≤ 0,089	≤ 0,061	
	B-4	Agent GF—Cyclosarin, nerve agent	329-99-7	≤ 5,6	≤ 0,089	≤ 0,057	
	B-5	Agent VX—Nerve agent	50782-69-9	≤ 2,2	≤ 0,022	≤ 0,013	
	B-6	Agent HD—Sulfur mustard (distilled) blister agent	505-60-2	≤ 10	≤ 2,5	≤ 1,2	
	B-7	Agent L—Lewisite, blister agent	541-25-3	≤ 7,5	≤ 2,5	≤ 0,65	
TOXIC INDUSTRIAL CHEMICALS	B-8	Acrolein	107-02-8	> 14	≤ 14	≤ 1,01	
	B-9	Acrylonitrile	107-13-1	> 1040	≤ 1040	≤ 629	
	B-10	Allyl Alcohol	107-18-6	> 86	≤ 86	≤ 10	
	B-11	Ammonia	7664-41-7	> 1900	≤ 1900	≤ 190	
	B-12	Arsine	7784-42-1	> 2,9	≤ 2,9	≤ 0,96	
	B-13	Boron Trifluoride	7637-07-2	> 140	≤ 140	≤ 47	
	B-14	Bromomethane [methyl bromide]	74-83-9	> 13000	≤ 13000	≤ 3700	
	B-15	Carbon Monoxide	630-08-0	> 1900	≤ 1900	≤ 480	
	B-16	Chlorine	7782-50-5	> 150	≤ 150	≤ 8,1	
	B-17	Cyanogen Chloride	506-77-4	> 10	≤ 10	≤ 1,0	
	B-18	Diborane	19287-45-7	> 8,0	≤ 8,0	≤ 2,2	
	B-19	Dimethylamine	124-40-3	> 885	≤ 885	≤ 240	
	B-20	Ethylene Oxide	75-21-8	> 649	≤ 649	≤ 144	
	B-21	Fluorine (soluble fluoride)	7782-41-4	> 56	≤ 56	≤ 31	
	B-22	Formaldehyde	50-00-0	> 123	≤ 123	≤ 17	
	B-23	Hydrazine	301-01-2	> 84	≤ 84	≤ 30	
	B-24	Hydrogen Chloride	7647-01-0	> 925	≤ 925	≤ 150	
	B-25	Hydrogen Cyanide	74-90-8	> 30	≤ 30	≤ 19	
	B-26	Hydrogen Fluoride	7664-39-3	> 139	≤ 139	≤ 78	
	B-27	Hydrogen Selenide	7783-07-5	> 18	≤ 18	≤ 6,0	
	B-28	Hydrogen Sulfide	7783-06-4	> 110	≤ 110	≤ 57	
	B-29	Methylamine (mono)	74-89-5	> 1200	≤ 1200	≤ 200	
	B-30	Methyl Hydrazine	60-34-4	> 30	≤ 30	≤ 10	
	B-31	Methyl Isocyanate	624-83-9	> 2,8	≤ 2,8	≤ 0,93	
	B-32	Nitric Acid	7697-37-2	> 438	≤ 438	≤ 111	
	B-33	Nitrogen Dioxide	10102-44-0	> 64	≤ 64	≤ 38	
	B-34	Parathion	56-38-2	> 10	≤ 10	≤ 2,0	
	B-35	Phosgene	75-44-5	> 15	≤ 15	≤ 2,5	
	B-36	Phosphorous Oxychloride [Phosphoryl trichloride]	10025-87-3	> 6,9	≤ 6,9	≤ 3,0	
	B-37	Phosphorous Trichloride	7719-12-2	> 39	≤ 39	≤ 14	
	B-38	Propylene Oxide	75-56-9	> 3090	≤ 3090	≤ 1050	
	B-39	Sulfur Dioxide	7746-09-5	> 79	≤ 79	≤ 2,0	
	B-40	Sulfur Trioxide	7446-11-9	> 270	≤ 270	≤ 8,7	
	B-41	Sulfuric Acid	7664-93-9	> 270	≤ 270	≤ 8,7	

Reference: CENTER FOR DISEASE CONTROL (USA -CDC) LIST OF BIOLOGICAL THREAT AGENTS				
AGENT OF BIOLOGICAL ORIGIN (ABO) GROUP	AGENT	RISK CATEGORY	DISEASE	ID50 (infectious dose 50%) or LD50 (lethal dose 50%) ED50 (effective dose 50%)
BACTERIA	Bacillus Anthracis	A	Anthrax	8.000-50.000 spores
	Francisella Tularensis	A	Tularemia	5-50 cfu
	Yersinia Pestis	A	Plague	500-1500
	Burkholderia Mallei	B	Glanders	unknown
	Burkholderia Pseudomallei	B	Melioidosis	unknown
	Vibrio Cholera	B	Severe Diarrhea	10-500
	Coxiella Burnetti	B	Q Fever	1-10 cfu
	Brucella Melitensis/suis/abortus	B	Brucellosis	10-100 cfu
VIRUSES	Ebola Virus (EBV) and Marburg Virus (MBV)	A	Viral Hemorrhagic Fever	≤ 10 pfu
	Variola Major	A	Smallpox	unknown
	Venezuelan Equine Encephalitis Virus (VEEV)	B	Encephalitis	25-2500 scientific origin not verified
	Eastern Equine Encephalitis Virus (EEEV)	B	Encephalitis	540-1210 pfu
	Western Equine Encephalitis Virus (WEEV)	B	Encephalitis	unknown
	Lassa Virus	A	Viral Hemorrhagic Fever	unknown
	Machupo Virus	A	Viral Hemorrhagic Fever	unknown
	Hendra-Nipah	C	"influenza-like" symptoms, with high fever and myalgia, progress to encephalitis possible	unknown
TOXINS	Botulinum Toxin A to G from Clostridium botulinum	A	Botulism	0.03 µg/kg bodyweight for type A
	Staphylococcus Enterotoxin B (SEB)	B	Poisoning	≥ 0.02 µg/kg bodyweight
	Ricin from Ricinus Communis	B	Poisoning	3-5 µg/kg bodyweight for ...



- **Site Survey & Threat Analysis**
 - **Sensor Selection**
 - Type, function, amount, location
 - Budget

Type			Function				Brand & Model	Unit Price	Location & Numbers of Devices											Total Numbers	Total Price
Point	Standoff	Portable	Detection	Identif.	Monitor.	Analysis			K1	K2	K3	K4	K5	K6	K7	K8	K9	K10	K11		

Location Legend

K1	SMC (System Management Center)
K2	SMP (Station Management Point)
K3	Carried by Personnel –Portable
K4	Station Entrance
K5	Turnstyle/ Tollgate Entrance
K6	Employee Entrance
K7	Air duct Inlets
K8	Elevator / Lift
K9	Platform
K10	Train Tunnel
K11	Station Roof



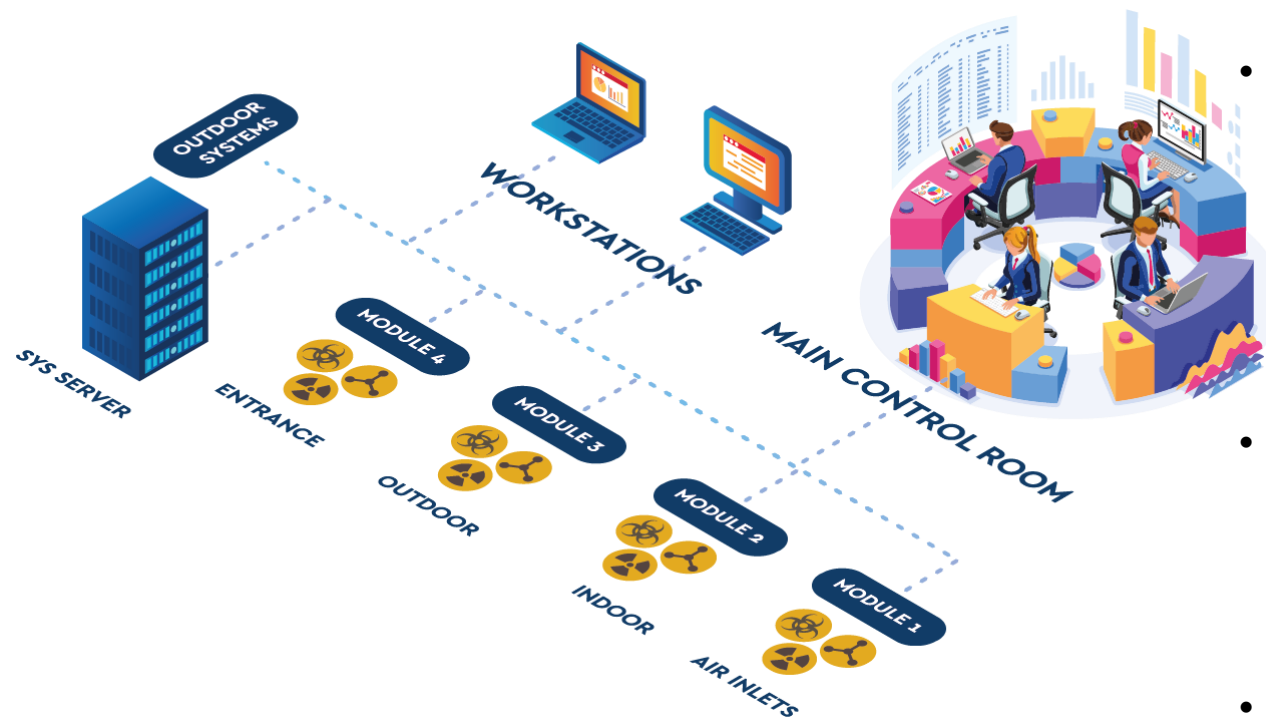
Basic Standards

- EMI/EMC: MIL-STD-461
- Enviromental: MIL-STD-810
- NATO D100 Triptic

Other Subjects

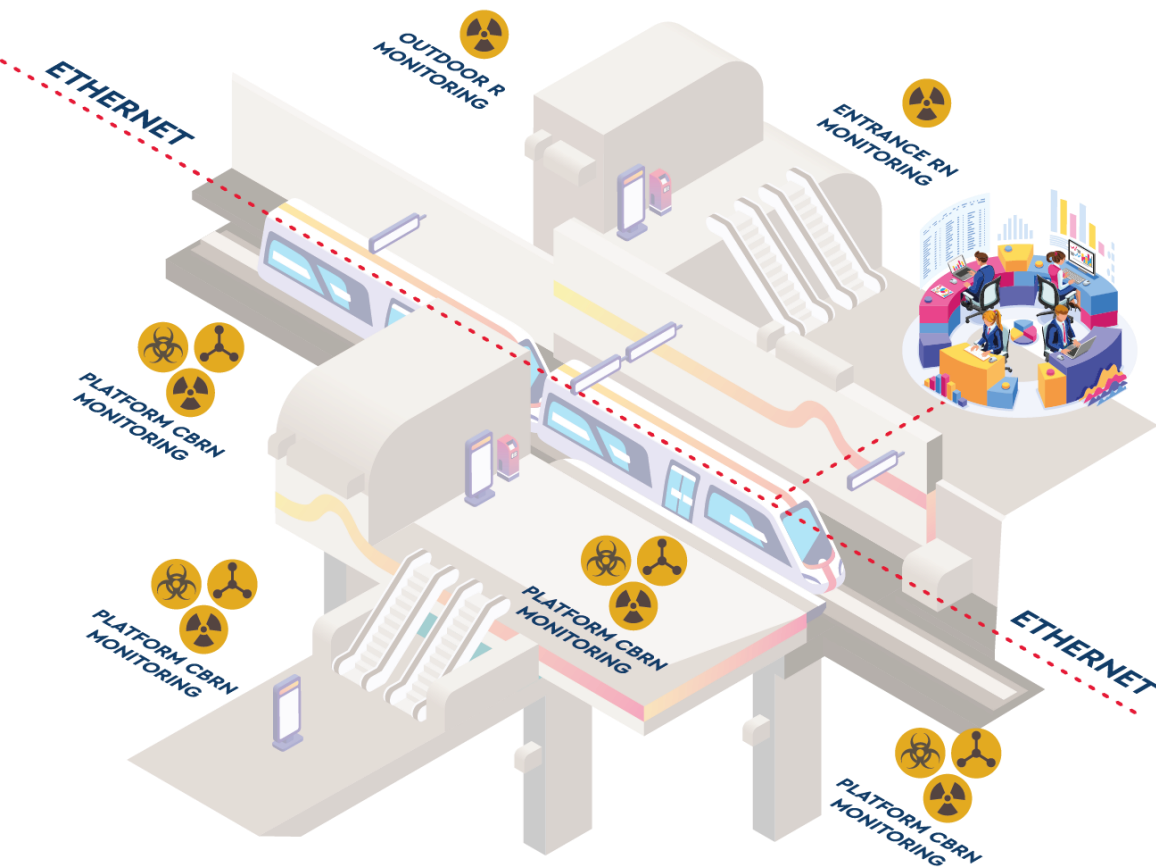
- Data interfaces
- Data type, format, size and speed
- Packaging of sensors
- Test, calibration and periodical maintenance
- Sampling Frequency
- Place of Sampling
- Verification Methods of Samples





- HAVELSAN's CBRNE suit provides turnkey system solutions for both indoor and outdoor applications.
- CBRNE suit enables requirement analysis (site surveying, threat analysis, sensor selection and validation, location planning, ILS), system installation, integration, training and life time support.
- CBRNE suit has modular, reliable, end-to-end secure and customizable structure/architecture.
- CBRNE suit meets all needs of CBRN defence infrastructure and mitigation measures.





- The subset of H-CBRN-E suit for subway applications.
- Includes networked and integrated indoor and outdoor sensors.
- Serves as a monitor for outer CBRNE contamination and warn the public inside for shelter-in-place procedures to avoid exposure.
- Helps evacuation of public from subway by safe and secure exit guidance after detecting CBRNE threats inside.
- Enables incident commanders manage the crisis management by accessing the real-time contamination data and monitor the scene even after mitigation activities to assess the residual contamination.
- It has customized training program for subway/railway operators.





Thank you for your attention

www.seren-project.eu

Aytaç KABAKLARLI
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SMART CITY SOLUTIONS

HAVELSAN
• **LEADING INFORMATION TECHNOLOGY & SYSTEMS INTEGRATOR**
IN DEFENSE, SECURITY & CIVILIAN MARKETS

Brussels, March 2019

SECURE SOCIETIES

Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



- WHO WE ARE?
- HAVELSAN SMART CITY APPROACH



- WHO WE ARE?
- HAVELSAN SMART CITY APPROACH





TURKISH ARMED FORCES FOUNDATION



**Armed Forces
Government Agencies
Local & Global Companies**



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HAVELSAN KEY FACTS



**HAVELSAN HEADQUARTER [ANKARA]
R&D CENTER**



**COUNTERTERRORISM
SIMULATION AND TRAINING CENTER[ANKARA]**



SIMULATION CENTER [ANKARA]



**NAVAL COMBAT SYSTEMS CENTER [İSTANBUL]
R&D CENTER**



TEST & INTEGRATION FACILITIES [ANKARA]

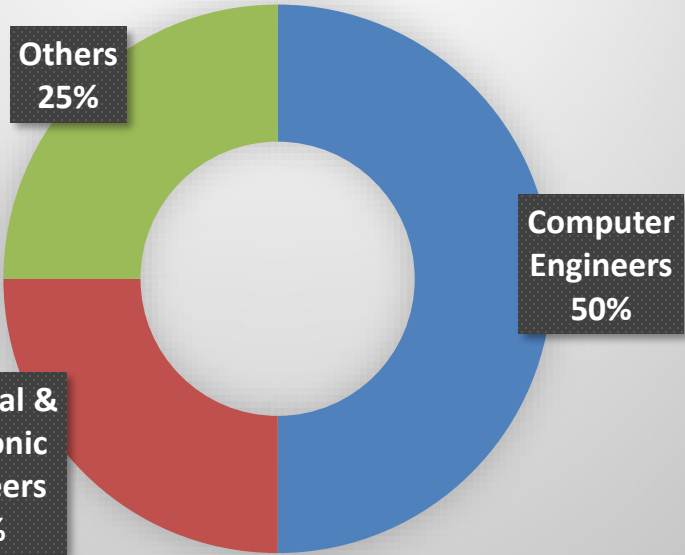


**METU TECHNOLIS
R&D CENTER**



Co-funded by the Horizon 2020
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PERSONEL~1400



SUBSIDIARIES



QUANTUM 3D
Simulation & Training



HTR
Maintenance Repair and Operations



EHSİM
Electronic Warfare



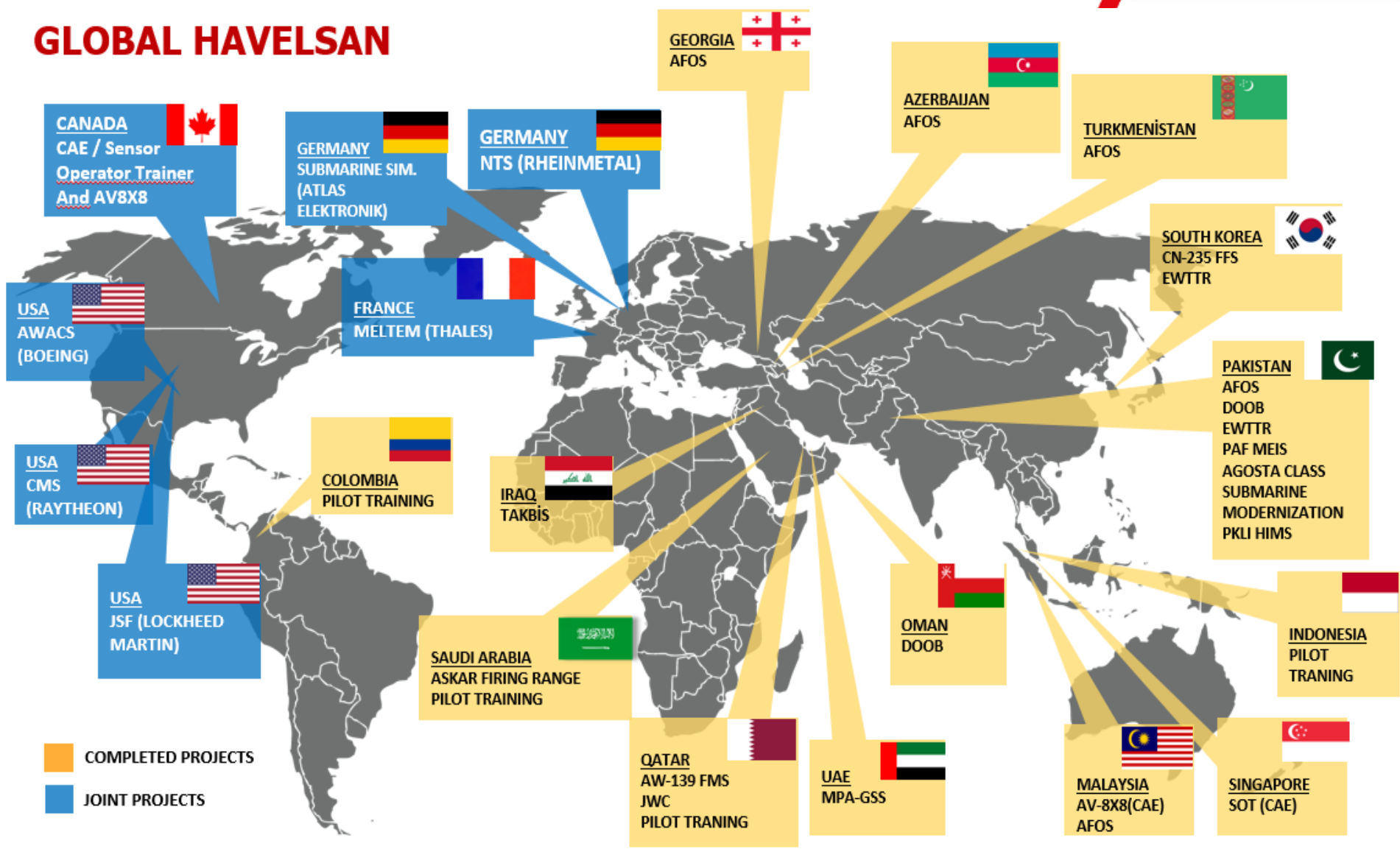
STM
Engineering and Consulting



HAVELSAN KEY FACTS



GLOBAL HAVELSAN



C4ISR TECHNOLOGIES

Command & Control **Leader of Turkey**



TRAINING & SIMULATION TECHNOLOGIES

A Global Brand in Training & Simulation



INFORMATION & COMMUNICATION TECHNOLOGIES

Leading E-Transformation Company of Turkey



HOMELAND & CYBER SECURITY

Center of Excellence in Security Solutions

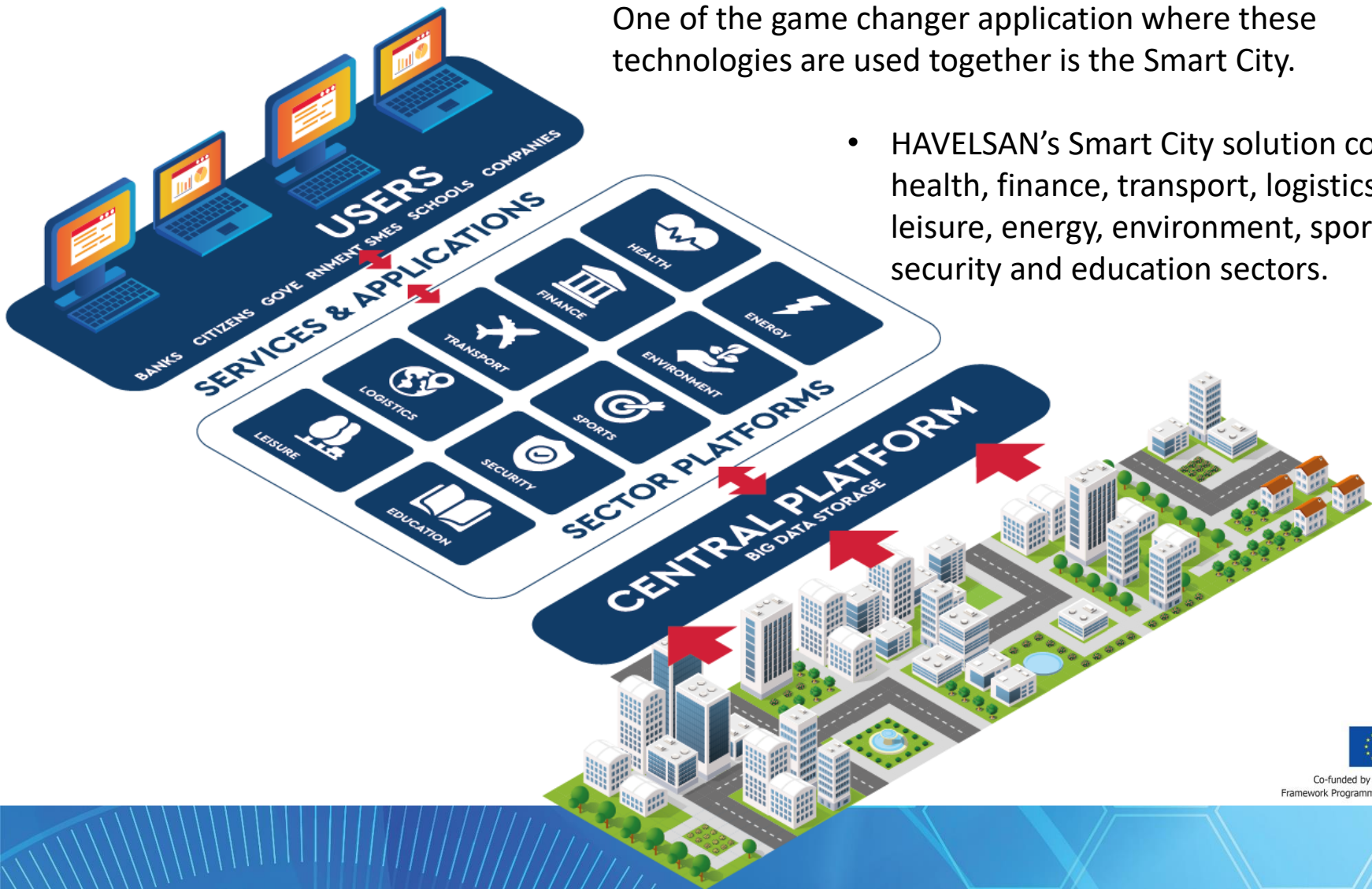


- WHO WE ARE?
- HAVELSAN SMART CITY APPROACH –H CITY



- The number of autonomous / intelligent systems is increasing rapidly with today's developing technologies. One of the game changer application where these technologies are used together is the Smart City.

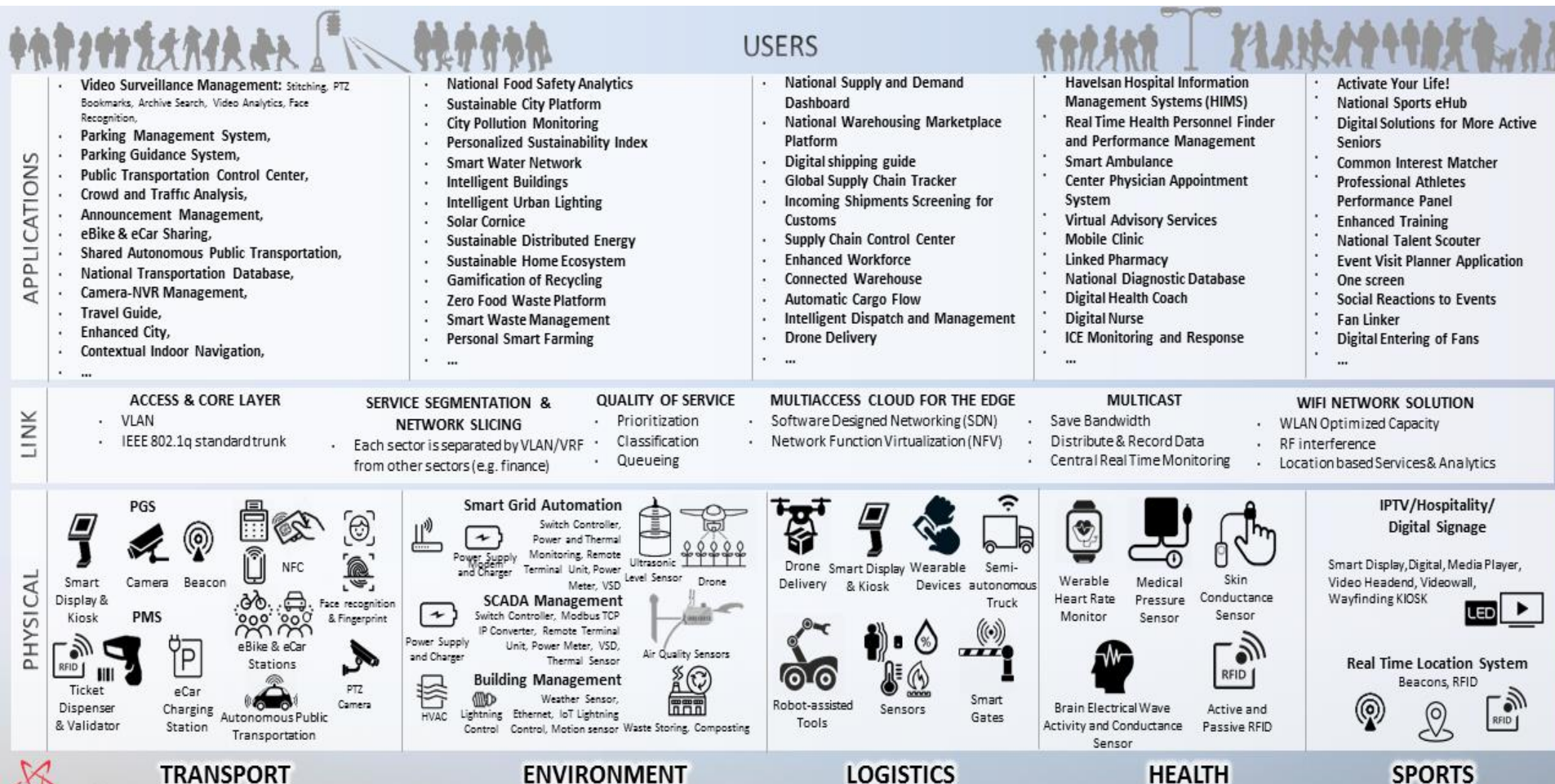
- HAVELSAN's Smart City solution covers health, finance, transport, logistics, leisure, energy, environment, sport, security and education sectors.



- **Health:** By means of easy access to quality health services and various health applications and analysis of shared data, the risks of chronic and epidemic diseases are aimed to be reduced.
- **Finance:** For all transaction activities, process the information about received services , invoicing and the payment by providing high level of security.
- **Transport:** Human mobility through a secure and environmentally friendly transport network.
- **Logistics:** Providing a smart coordination and control of all logistics activities in a city.
- **Leisure:** Serving creative and interactive contents for multi-user leisure activities by cloud, IoT, VR/AR.
- **Energy:** Renewable and optimized energy solutions as well as smart lightning, grid and metering systems.
- **Environment:** Water and food safety supported with sustainable consumption of natural resources as well as waste management.
- **Sport:** Applications creating captivating experience for fans while gaining higher returns on the sports complex.
- **Security:** Enhanced and automated smart physical and cyber security.
- **Education:** Latest Technologies such as cloud, big data, IoT, VR/AR are to be implemented in future's smart education.



H-CITY SUBSET SOLUTION





Thank you for your attention

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PITCH SESSION



vision-box

Elisabete Pires

Elisabete.pires@vision-box.com

About Vision-Box:



 **1 billion**
users

 **5 thousand**
solutions

 **700 million**
passengers
processed per year

 **Every 5 seconds,**
1 person
uses a Vision-Box solution

 **More than 80**
International Airports



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

About Vision-Box:



A face is worth a million tokens
A single key to a new lifestyle

SmartCity
Face it™ and move on!



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

2018: SMART-TRUST

Smart-Trust is a highly innovative Horizon 2020 (SME instrument Phase 2) project for border control, **which introduces a new technological enabler for Mobile ID.**

Moreover, it will drastically increase the reliability and trust levels of identity verification at European borders, strongly improving the security in the airports of member states.



Smart-Trust will be implemented by delivering an agile, highly configurable, modular and open architecture platform providing **Mobile ID services based on TrustChain™.**

2014: ABC4EU

The aim of ABC4EU was to make border checks more flexible and user-friendly for passengers by harmonizing the functionalities of border check automation.

ABC4EU focused in the need for harmonisation in the design and operational features of ABC Gates.

In addition, RTP and EES were specifically tested in the project to assess their feasibility and impact at EU level border management.



- **SU-INFRA02-2019**: Security for smart and safe cities, including for public spaces (partner)
- **SU-DS05-2018-2019**: Digital security, privacy, data protection and accountability in critical sectors (partner)
 - *[2019]: Digital security, privacy and personal data protection in multimodal transport*
- **SU-GM01-2018-2019**: Pan-European networks of practitioners and other actors in the field of security (partner)
 - *[2019-2020] Practitioners*



Contact us!



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E-mail: Elisabete.pires@vision-box.com

www.vision-box.com

Portugal



Thank you for your attention!



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PITCH SESSION



Techno Practitioner (DRS02-2019-Technologies for first responders)

Dr. Zeynep Sofuoglu PhD MSc

Emergency Disaster Ambulance Physicians Association

www.aahd.org.tr

zeynep.sofu@gmail.com

Expertise of AAHD

- *Strong partner with experience from the **emergency medical response field** and **EU projects** (mainly security domain).*
- *Providing User Requirements, Reference Scenarios, KPIs,*
- *testing in simulated trapped sides, giving feedbacks, in-situ experimental deployment,.. +training material*



Since 2008



10 Years Experience in EU Projects



Co-funded by the Horizon 2020
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Objectives

- *Disasters (natural and man made) are increasing and (NaTech) changing*
- *Populated areas at risk*
- *Needs more technology for safety and SA (IoT, drones, wearable sensors etc.)*
- *Training needs must be improved*

Existing Partnership

- *Technical partner (France)*
- *RTO (Sweden), University (Germany)*
- *First Responders*

Looking For

- *Technical partners*
- *First Responders*



Topics Interested In

- *All DRS Topics for 2019*
- *All GM Topics for 2019*

Keywords

- *Emergency Medical Services,*
- *FRs,*
- *Disaster Planning,*
- *Disaster Response,*
- *MCI Response,*
- *Preventive Medicine,*
- *Medical Response,*
- *Trauma Care,*
- *Field Testing,*
- *Training*



+ 2 Granted Projects from 2018 Security Call



Contact us!

Dr. Zeynep Sofuoglu PhD MSc
Emergency Disaster Ambulance Physicians Association
NGO, First Responder
Turkey
www.aahd.org.tr



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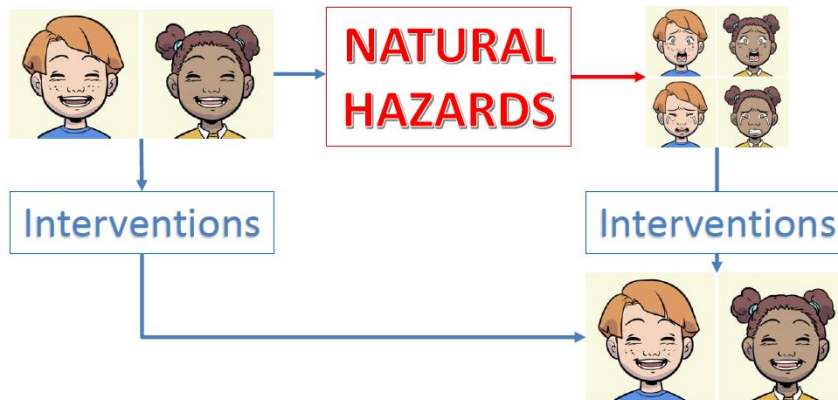


PITCH SESSION

- **EMOTIONAL PREPAREDNESS
AND NATURAL HAZARDS
WITH CHILDREN AND ADOLESCENTS**
- **Daniela Raccanello and APsyM Lab**
- Department of Human Sciences, University of Verona, Italy

Our project idea

Psychological background



Ongoing projects

PrEmT project

(Emotional Prevention and Earthquakes/Terremoti in primary school)

<http://www.dsu.univr.it/?ent=progetto&id=5125>

Representation of earthquakes



Training on emotions

Objectives

Children and adolescents' emotional preparedness and representation about natural hazards

Description

Assessment

Training

Theoretical model

Topic and expertise of our research team

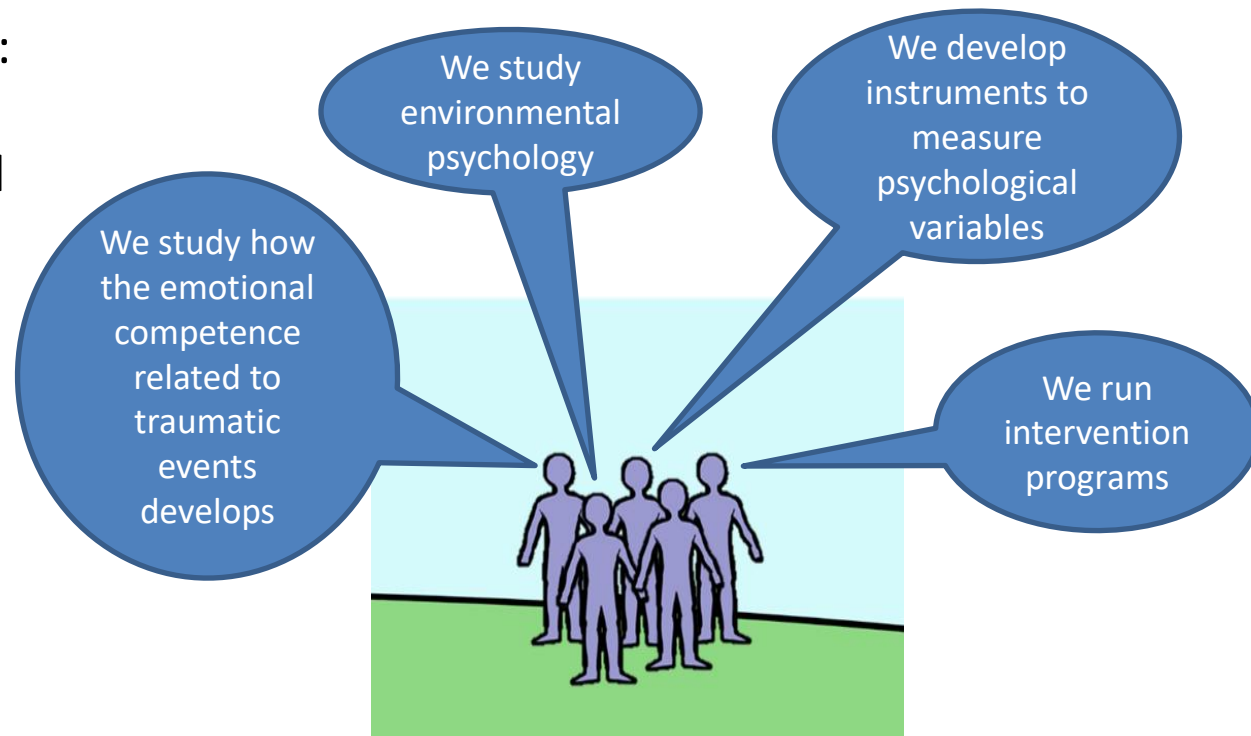
Topic

SU-DRS01-2018-2019-2020:
Human factors, and social,
societal, and organisational
aspects for disaster-
resilient societies

Keywords

Emotions
Knowledge
Natural hazards
Training
Children
Adolescents

Our expertise



APsyM Lab (Applied Psychology Measurement Laboratory)

Experts in Developmental and Educational Psychology,
General Psychology, and Psychometrics

Contact us!

Daniela Raccanello and APsyM Lab

Department of Human Sciences, University of Verona, Italy

daniela.raccanello@univr.it



Thank you for your attention



SECURE SOCIETIES

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PITCH SESSION



- INFRA Protection <by Partner
- Harika DOĞAN (Chief of Inspector)
- Turkish National Police
- Strategy Development Department (Projects Branch)
- harikadogan@yahoo.com



INFRA Protection <by Partner >

TNP (Turkish National Police) carry out a wide variety of law enforcement task, in particular;

- provide public order;
- provide security of persons and properties;
- protect personel property and public order;
- detect, arrest and transfer both offenders and case evidence to the appropriate bodies;
- perform duties apart from the administrative such as judicial assigned by laws, regulations and government acts;
- prevent crime as a prerequisite to protect public safety and order as well as the protection of the state and preservation of constitutional order

Central Organization consist of 40 departments;

- Counter terrorism –narcotics- cyber-crimes- smuggling -organized crime- migrant smuggling-human trafficking ...

Provincial Organization consist of ;

- 81 Directorates of Provincial Police,
- 751 police directorates of towns,
- 62 border gates police directorates,
- 1267 police stations in 81 province

The central police force operates under the Ministry of Internal Affairs in the form of The General Directorate of Security.

With its **276.000 staff**, TNP is an extremely effective police service which plays an important role in maintaining internal security service %80 of the population in TR.

From 2002 to 2010, TNP; concluded **25 IPA Projects** cost **196 M EUR**

THP have **4** ongoing IPA Project on the topics of traffic, forensic, border and drug related issues cost **10 M EUR**.



INFRA01/INFRA02/GENERAL MATTERS

- TNP wants to collaborate in a project aiming to;
 - Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure
 - Security for smart and safe cities, including for public spaces
- TNP contributes to the projects by :
 - Being responsible to demonstrate a simulation or a case study in a desired critical infrastructure and/or public space **in Ankara, TR** (metro, big hospital campus etc.)
 - Being responsible for a work package and/or task
 - Being a partner
 - 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 for policy planning, engagement of the civil society, and investment measures encompassing all aspects of prevention-detection-response-mitigation
 - Providing scenarios and recommendations to identify, and neutralize crime perpetrators whilst minimizing intrusion into crowded areas



Project participants

- **We are looking for:**

- *already built consortium to contribute*
- *Law Enforcement Agencies (LEAs) from MS/AC*
- *Universities*
- *AR, Simulation, AI solution provider*

- **Desired expertise/ technology/ application field:**

- Augmented reality solution providers
- Excellence in artificial intelligence
- 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



Contact Us

- INFRA Protection <by Partner
- Harika DOĞAN (Chief of Inspector)
- Turkish National Police
- Strategy Development Department
(Projects Branch)
- harikadogan@yahoo.com
- +90 506 912 25 25



Thank you for your attention





PITCH SESSION

Protecting soft targets in cyber-resilient smart cities

Vito Morreale

ENGINEERING Ingegneria Informatica S.p.A.



INFRA-02 - Security for smart and safe cities, including for public spaces

Our project idea

- Novel **TRL-7 Framework** for cyber-physical protection of smart cities and soft targets including
 - Advanced **tools to protect citizens against threats to soft targets**, leveraging, integrating, and exploiting multiple, heterogeneous data sources and the social media.
 - Advanced holistic **cybersecurity solutions** for smart cities and their smart infrastructures hosted within it (e.g. smart buildings, smart ports, smart railways, smart logistics, ...)
 - **Interoperability** among city smart systems and the systems supporting the security practitioners locally
- Demonstrations in 4-5 heterogeneous and complementary scenarios in EU smart cities

- Leveraging on previous and current projects:
 - DANTE, LASIE, ANITA, ASGARD, SURVANT, DEFENDER, INFRASTRESS, ...
- Looking for:
 - Providers of novel TRL-6+ detection tools for physical threats (e.g. Explosive detection technologies, toxic substance detection technologies, ...)
 - LEAs and Local Metropolitan Police
 - First responders
 - Municipalities

Contact us!



Vito Morreale (vito.morreale@eng.it)

Engineering Ingegneria Informatica S.p.A.

Gabriele Giunta (gabriele.giunta@eng.it)

Engineering Ingegneria Informatica S.p.A.



Thank you for your attention





PITCH SESSION

VSB TECHNICAL
UNIVERSITY
OF OSTRAVA | FACULTY
OF SAFETY
ENGINEERING

Fire Safe and Secure Societes

Kamila Kempná

VŠB-TUO, Faculty of Safety Engineering
University

The topics we are interested in

Technologies for first responders

- **Artificial Intelligence in 112**
- Virtual reality for training

Pre-standardisation in crisis management

- Natural hazards
- Industry
- Protection against CBRN
- Fire and Safety Risk Assessment – local, regional, national
- Fire-fighting – training, methods, protection, operation
- Planning, preparedness and operation during disasters, crisis situations and recovery



Our project idea

Artificial Intelligence in 112

Technologies for first responders



Co-funded by the Horizon 2020
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Artificial Intelligence in 112

The second and third slides may show:

- Expertise of our organization:
First responders' experience & end-user testing, labs,
- Objectives:
To help operators manage large crises and disasters
To help & commanders in decision making and first responders coordination
- Consortium:
Fire-fighters, research institutions, stakeholders
- Additional partner(s) – requirements:
IT experts, Artificial Intelligence experiences, IT security, experts in disaster management



Expertise possessed by Faculty of Safety Engineering

- Multidisciplinary in safety (fire safety, security, health and safety, crisis management)
- CBRN protection, Early warning system
- Prevention and investigation of major accidents in industry
- Fire investigation
- Our possibilities: laboratories, experts in the field, research project centrum



Involvement in previous/ongoing projects in the area

- **Security research under Czech Ministry of Interior**
- **National: Research prevention of crisis situations and disaster management**
- **International: The Tisova Fire Test 2015 – large scale fire experiment**
- **SIMPROKIM – Simulations for Crisis Management**



Topics we are interested in

DRS01: Human factors, and social, societal, and organisational aspects for disaster-resilient societies

DRS02: Technologies for first responders

DRS03: Pre-normative research and demonstration for disaster-resilient societies, Sub-topic 2: [2019] Pre-standardisation in crisis management (including natural hazard and CBRN-E emergencies)

Disasters Resiliency, Technologies for First Responders

Keywords

Fire, Security, Disaster Management, Preparedness, Virtual Reality, Artificial Intelligence



Contact us!

Kamila Kempná

**Faculty of Safety Engineering,
VSB-Technical University of Ostrava**

University focused on research and education in area fire safety, fire-fighting, security

<http://www.fbi.vsb.cz>

kamila.kempna@vsb.cz

Czech Republic



Thank you for your attention





PITCH SESSION



Disaster Resilient Societes

Jan Smolka

Majaczech, z.s.

Czech Fire Protection Association

Our project idea

Community Protection Against Forest Fires

DRS01: *Human factors, social, societal, and organisational aspects for disaster-resilient societies*

Majaczech, z.s.:

Current consortium:

- Central School for Volunteer Fire-Fighters
- Technical Institute of Fire Safety
- European Fire Protection Associations
- Research Institutions
- Local Municipalities

Who do we need?

- Coordinator
- Partners with experience from area of security, business resilience, research
- Research institutions
- Stakeholders for cooperation and application of results





The topics we are interested in

DRS01: Human factors, and social, societal, and organisational aspects for disaster-resilient societies

- Population protection
- Crisis and disasters management
- Disaster resilient communities
- Climate change and safety

DRS02: Technologies for first responders

- Protection against CBRN
- Testing and certification of personal protective equipment
- Fire-fighting – training, methods, protection, operation, preparedness

DRS03: Pre-normative research and demonstration for disaster-resilient societies, Sub-topic 2: [2019] Pre-standardisation in crisis management (including natural hazard and CBRN-E emergencies)

- Fire, Safety and Disasters Risk Assessment – local, regional, national
- Planning, preparedness and operation during disasters, crisis situations and recovery



Expertise possessed by Majaczech

Members of association provides expertise in:

- Training and preparedness for fire-fighters
- Fire technical expertise provided for Police, judges, etc.
- Research development in fire safety, CBRN protection, early alert system, individual and collective protection.
- Technical support for county fire and rescue services in fire investigation
- Prevention of major accidents in industry
- Testing and certification of personal protective equipment
- Crisis and disasters planning
- Fire safety assessments
- Fire Investigation





Involvement in previous/ongoing projects in the area

- **Fire Protection Assessment in Petrochemical Industry**



Additional projects of consortium members:

- *Safety and Security Protection of Mass Events*
- *Research in assessing social risks in prevention of crisis situations*
- *The Tisova Fire Test 2015 – large scale fire experiment*



Topics we are interested in

DRS01: Human factors, and social, societal, and organisational aspects for disaster-resilient societies

DRS02: Technologies for first responders

DRS03: Pre-normative research and demonstration for disaster-resilient societies,
Sub-topic 2: [2019] Pre-standardisation in crisis management (including natural hazard and CBRN-E emergencies)

Disasters Resiliency, Technologies for First Responders

Keywords

Fire, Security, Disaster Management, Preparedness, Virtual Reality, Artificial Intelligence



Contact us!

Jan Smolka

Majaczech, z.s.

Fire Protection Association

NGO with focus on research, education and training in fire safety and fire-fighting

<http://www.majaczech.cz>

jan.smolka@majaczech.cz

Czech Republic



Thank you for your attention





PITCH SESSION

- DS-05-b
- Véronique Pevtschin
- Engineering Ingegneria Informatica S.p.A.

Enhancing cyber security protection and awareness for zero-rate delivery of personalised medicine

- connected people through connected infrastructures
- mitigating threats against active and passive medical devices, large (e.g. radiotherapy and imagery) and small (wearable devices and sensors)
- across the complete delivery and interaction chain
- **Leveraging on: DOGANA, HERMENEUT, COMPACT**
 - Social Driven Vulnerability Assessment
 - Risk Assessment
 - Cyber risk impact quantification



Enhancing cyber security protection and awareness for
zero-rate delivery of personalised medicine

- Use cases (examples):
 - *Remote* monitoring of patients
 - *Automated / robotic* supply of medication (preparation of personalized medication)
- Looking for:
 - Patients associations / organisations
 - Medical devices manufacturer
 - Telecare organisations



Contact us!

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Paolo Roccetti

paolo.roccetti@eng.it



- ✓ 11,000 professionals
- ✓ 50 locations (Italy, Belgium, Spain, Germany, Serbia, Brazil, Argentina and the United States)
- ✓ projects in over 20 countries
- ✓ designing, developing and implementing innovative solutions
- ✓ **business areas in which digitalization is having the biggest impact**

Digital Finance, Smart Government & E-Health, Augmented Cities, Digital Industry, Smart Energy & Utilities, Digital Telco & Multimedia.





Police Academy of the Czech Republic in Prague



DRS 04-2019-2020 SESSION (CBRN cluster)

CRISIS MANAGENT in specific areas (CBRN – prevention, detection, identification and response; first responders, novel CBRN technologies; cooperation and coordination with LEAs and other partners)

JOZEF SABOL, Ph.D., DSc., Professor (Assoc.)

Faculty of Security Management

Police Academy of the Czech Republic in Prague



Police Academy (PACR) two faculties: **Faculty of Security Management and Faculty of Security and Law** **2500 students, 130 academic and research staff, Ph.D. programmes**

PACR - A university type of institution within the Ministry of Interior, following all relevant university requirements set by the Ministry of Education of the Czech Republic.

PACR - intensive contacts and cooperation with **LEAs**; Experience in participating in more than 40 projects under the national programmes carried out by the Ministry Interior and also by the Ministry of Industry and Commerce, Ministry of the Environment, Engaged in the protection of critical infrastructure, **CBRN**, organized crime, use of artificial intelligence, detection and identification of dangerous substances, risk – communication, assessment and perception, training of rescue and emergency teams.

PACR - Participation in lecturers and student exchange with more than 20 international universities and institutes, mainly under the **EU Erasmus and Erasmus+** programmes (e.g., Turkish Police Academy, University of Central Lancashire, University of Haifa, Israeli Institute for Counter-Terrorism, Slovak Academy of the Police Forces, Polish War Studies University, Ukrainian Population Protection Institute etc.).

PACR - its specialists involved as key experts and principal investigators in a number of **EU, IAEA, EPRD, START** projects, e.g., EUROPEAID/129783/C/SER/multi (INSC - Instrument for Nuclear Safety Cooperation), EUROPEAID/135697DH/SER/multi (CBRN); Joint EU-IAEA IPA Programme in countries of the Balkan region; EPRD – Economic Policy and Regional Development (Instrument for Stability, CBRN); START (Study of Terrorism and Response to Terrorism), University. of Maryland, USA.



Interested in the participation in projects related to CBRN:

Specific measures against the CBRN threats (prevention, detection, identification, monitoring, forensics);

Analysis of individual components of CBRN and other dangerous substances, drugs or suspicious materials (in cooperation with the Institute of Criminology, Ministry of Interior and other research centres)

Protection of the public and the environment against CBRN and releases of dangerous material following emergency situations (risk evaluation);

Use of drones for CBRN attacks or attacks of critical infrastructure installations and soft targets;

Cooperation with national and international partners aimed at exchange of experience, know-how and expertise in various fields associated with fighting the CBRN terrorism.



Objectives and results expected in the CBRN project:

Objectives

- **Analysis** of the present main **CBRN components** and their potential for the use in terrorist attacks including causing fatalities, injuries and the contamination of the environment;
- **Evaluation** of the current approach in **the quantification** of specific CBRN constituents aimed at the reflection of their health effects and setting the relevant protection limits for workers and members of the public;
- **Overview** the latest available methods for the **detection and identification** of specific CBRN agents and materials aimed at the selection of the most relevant types of instrumentation;
- **Assess** the impact of the **CBRN attacks**, protection measures and mitigation measures recommended and followed by the first responders.

Expected results

- Prepare **the comprehensive report** containing the data and characteristics of the most dangerous CBRN expected to be used in **terrorist attacks** in the near future;
- Develop a unified system of quantifying the specific CBRN for the estimation of their effects;
- **Specify parameters** for monitors of CBRN components in order to assist **first responders** to assess the situation following an attack;
- Propose **the plan of the participation of LEAs** in an efficient response to emergencies involving CBRN. Consider the use of sophisticated **drones** and other **UAVs**.





Thank you for your attention



Jozef Sabol

sabol@polac.cz, +420 733 311 843,

<http://www.polac.cz/g2/view.php?anglicky/index.html>





PITCH SESSION

- Transcrime, **SU-INFRA02-2019**
- Ernesto U. Savona
- Transcrime—Catholic University Milan

We can contribute to projects seeking **security in smart cities** and “**soft targets**” with our **expertise on crime risk & prediction** deriving from our experience in **EU funded research projects**.

Modelling & predicting crime in urban areas, shopping areas or critical infrastructures

- Long experience in developing **analysis on crime and risky behaviors patterns** in various environments (e.g., open spaces, transportation hubs, shopping malls).
- Development of **crime predicting algorithms** for domestic burglaries (in collaboration with the Italian Ministry of Interior), retail crimes (in collaboration with large retail companies), street robberies, vehicle thefts, road accidents in large cities.

Risk scenarios definition for complex crimes or security issues

- **PROTON**—modelling the PRocesses leading to Organised crime & TerrOrist Networks
- **MORE**—Modelling and mapping the risk of Serious and Organised Crime infiltration in legitimate businesses across European territories and sectors
- **IPATCH**—Intelligent Piracy Avoidance using Threat Detection & Countermeasure Heuristics

Possible collaborations

We are looking for project participants

Coordinator/partners with the following expertise:

- Experts on **security systems**
- Experts on **cybersecurity**
- **Technology providers**
- **Big data analysts**
- Experts on **sentiment analysis** of social media
- **IT development** companies
- **End users**

Contact us!

Ernesto U. Savona

Director of Transcrime

ernesto.savona@unicatt.it

Transcrime–UCSC

Joint Research Centre on
Transnational Crime–Catholic
University Milan, Italy

www.transcrime.it

Crime&tech

SME, spin-off developing and
applying research and innovation
produced by Transcrime

www.crimetech.it



Thank you for your attention

www.seren-project.eu





PITCH SESSION

DOCTOR (Dynamic
taxOnomy for seCurity
assessmentT Of healthcaRe
systems)

Call: **SU-DS05-2019**
(subtopic B)

POTION (Pathogens
detectiOn acousTic
resOnator bioseNsor)

Call: **SU-DRS02-2019**
(subtopic 2)

Graziano Giorgi

Zanasi & **P**artners

Who we are

- **Zanasi & Partners (Z&P)** is a research and advisory company specialised in **security and defence**. Among our employees, there are former **Carabinieri** officers, IBM researchers and academicians.
- Over the last few years, we have been awarded **more than 20 EC-funded security and research projects**, many of which within the framework of the Horizon 2020 Programme.
- Z&P is the Scientific and Technical Coordinator of PYTHIA and SOLOMON, funded by the **European Defense Agency (PADR)**, in which we develop methodologies for strategic technology foresight to be applied to the value chain of the European defence industry;
- Our expertise includes **cybersecurity/defence**, artificial intelligence, **big data analytics** (data, text and social mining), forensic, border control and **risk assessment**.





PITCH SESSION

DOCTOR (Dynamic taxOnomy
for seCurity assessmentT Of
healthcaRe systems)

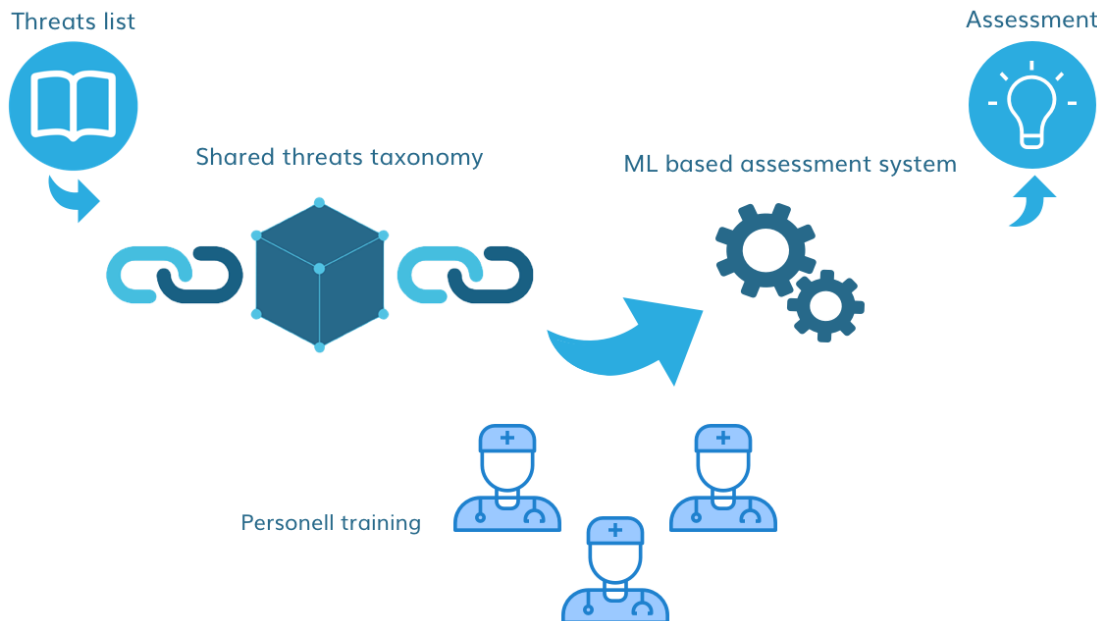
Graziano Giorgi

Zanasi & **P**artners

Call: **SU-DS05-2019** (subtopic B)

DOCTOR (DS05-2019-sub-B)

- Building a **shared dynamic taxonomy** of healthcare cybersecurity threats using **blockchain**
- Developing a **machine learning** based system to identify system **vulnerabilities** and **ongoing attacks**



Participants:

- Proposed coordinator: Z&P
- IT and system integration
 - ❑ GFT (I)
 - ❑ IBM (IL)
- Healthcare practitioners
 - ❑ Gemelli Polyclinic (I)
 - ❑ Debrè Hospital (tbc) (F)
 - ❑ Berlin Hospital (tbc) (D)

Looking for:

- Possible coordinator
- Blockchain technology experts
- IoT experts





PITCH SESSION

POTION (Pathogens detectiOn
acousTic resOnator bioseNsor)

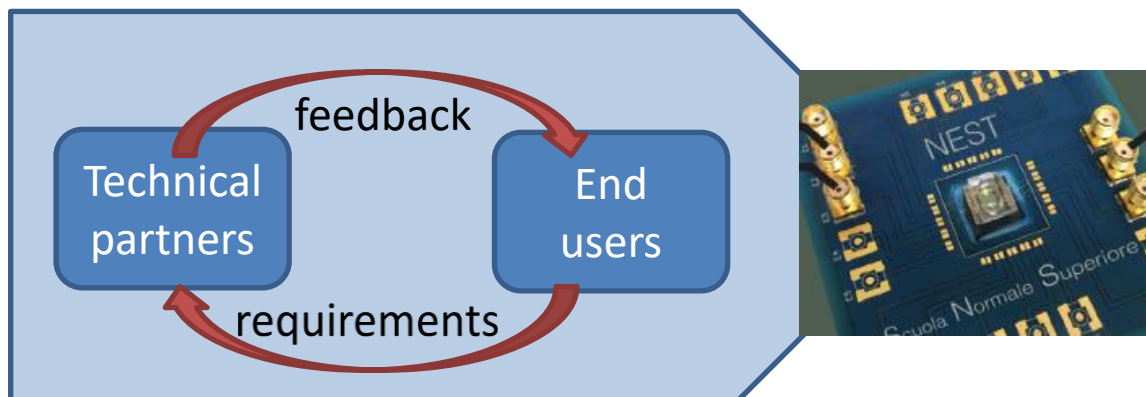
Graziano Giorgi

Zanasi & **P**artners

Call: **SU-DRS02-2019** (subtopic 2)

POTION (DRS02-2019-sub-2)

- **Objective: Fast** detection of pathogens in biohazard or bioterroristic attacks
- Developing an advance **biosensor** (e.g. acoustic resonator) fully electrical, portable, with high sensitivity and selectivity for the detection of **low concentrations** of pathogens and with easy integration with other chips
- **Strong involvement of end users** (i.e. first responders) with requirements gathering, testing sessions and go-to-market analysis



Participants

- Proposed coordinator: Z&P
- Research center:
 - ☐ CNR Nano (IT)
 - ☐ Scuola Normale Pisa (IT)
 - ☐ Semmelweis University (HU)
- Practitioners:
 - ☐ LETS Training Center (IT)
 - ☐ Acil Ambulans AAHD (TU)

Looking for:

- Possible coordinator
- First Responders
- Healthcare practitioners
- Biological Research Institutes



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Contact us!

Graziano Giorgi

Email: graziano.giorgi@zanasi-alessandro.eu

Zanasi & Partners (Italian SME)

<https://www.zanasi-alessandro.eu/>

Linkedin: zanasi-&-partners

Twitter: Zanasi_and_P

Facebook: zanasiaandpartners



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SECURE SOCIETIES

Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



PITCH SESSION



CBRN Cluster (DRS04-2019)

Dr. Turhan Sofuoglu

Emergency Disaster Ambulance Physicians Association

www.aahd.org.tr

turhans112@gmail.com

Expertise of AAHD

- *Strong partner with experience from the **emergency medical response field** and **EU projects** (mainly security domain).*
- *Providing User Requirements, Reference Scenarios, KPIs,*
- *testing in simulated trapped sides, giving feedbacks, in-situ experimental deployment,.. +training material*



Since 2008



10 Years Experience in EU Projects



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

Objectives

- *Innovative personal protective equipment is a must for responding to recent complex disasters*
- *Need for optimum balance between protection and comfort*
- *Serving to a small niche market is a big challenge*
- *ENCIRCLE +*

Existing Partnership

- *Technical partner (Spain)*
- *University (Ireland)*
- *First Responders (Germany, Greece, Spain)*

Looking For

- *Technical partners*
- *First Responders*



Topics Interested In

- *All DRS Topics for 2019*
- *All GM Topics for 2019*

Keywords

- *Emergency Medical Services,*
- *FRs,*
- *Disaster Planning,*
- *Disaster Response,*
- *MCI Response,*
- *Preventive Medicine,*
- *Medical Response,*
- *Trauma Care,*
- *Field Testing,*
- *Training*



+ 2 Granted Projects from 2018 Security Call



Contact us!

Dr. Turhan Sofuoglu
Emergency Disaster Ambulance Physicians Association
NGO, First Responder
Turkey
www.aahd.org.tr



Co-funded by the Horizon 2020
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PITCH SESSION

- DRS02-ST 2: Innovation for rapid and accurate pathogens detection
- Antonis Danelakis
- NCSR Demokritos

Our project idea

Integrated mobile solutions and apps for First Responders for rapid and accurate pathogens detection

Greek Cluster/Group formed:

Largest National RTO with expertise in CBRN

Specialised SME with rapid bacteria detection portable kits

Metropolitan/National Operators, Authorities and First
Responders



Topic

DRS02-Sub-topic 2: [2019] Innovation for rapid and accurate pathogens detection

- Nanotechnology chips for rapid and portable bacteria detection
- First responder apps
- Data management and communication tools
- Public information channels and crowdsourcing tools
- Crowd Simulation

- Coordinator/Partner looking for:
 - Virus and Epidemic experts (Modelling & Tools providers)
 - End Users



Contact us!



Dimitris M. Kyriazanos dkyri@iit.demokritos.gr

Stelios C. A. Thomopoulos scat@iit.demokritos.gr

National Centre for Scientific Research “Demokritos”

Research Centre/RTO, Athens, Greece





PITCH SESSION

- SU-DS03 (b): Small and Medium-sized Enterprises and Micro Enterprises (SMEs & MEs): defenders of security, privacy and personal data protection
- SU-DS05 (a): Digital security, privacy and personal data protection in multimodal transport
- Antonis Danelakis
- NCSR “Demokritos”

Our project idea

- **SU-DS03 (b): Information sharing & Game Theory in defending security, privacy and personal data**
- **SU-DS05 (b): An integrated approach to Digital Security, privacy and personal data protection in multimodal transport with the use of cyber physical simulator**

Topics

- **SU-DS03-2019-2020 (b):** Small and Medium-sized Enterprises and Micro Enterprises (SMEs & MEs): defenders of security, privacy and personal data protection
- **SU-DS05-2018-2019 (a) :** Digital security, privacy and personal data protection in multimodal transport



NCSRD expertise:

- ***Simulation Methods (modelling & validating cyber-attackers'/defenders' behaviour).***
- ***Outreach, Dissemination and Exploitation***
- ***Data Mining and Statistical Analysis Techniques for getting out related to cybercrime insights, from relevant datasets.***
- ***Theoretical and empirical economic analysis methods for econometric modelling of the factors affecting the economic conditions and behaviour of all the implicated, in the domains cybercrime.***
- ***Command and control/ Front-end development***
- ***Risk analysis***
- ***Relevant projects:***



Looking for:

- ***End-users in the fields of transportation and energy (electricity utilities)***
- ***Cyber Ranges focusing on transportation and electricity domains***
- ***SMEs and mostly MEs***
- ***Informatics Technology***



Contact us!

Dr. Stelios C. A. Thomopoulos, Dr. Antonis Danelakis

{scat, a.danelakis}@iit.demokritos.gr

National Center for Scientific Research “Demokritos”,
Institute of Informatics & Telecommunications,
Integrated Systems Laboratory

Type of organization : RTO

Country: Greece



Thank you for your attention



SECURE SOCIETIES

Horizon 2020 Info Day and Brokerage Event

13 - 14 March 2019 Hotel Metropole, Brussels, Belgium



PITCH SESSION

CBRN Cluster (*Secure Platform*)

Özlem Cavusoglu, MSc.

Siz+ Medical Company

www.sizplus.com

[cavuso](#)

Siz+

Technology provider (SME) experienced in:

- *Development of first responder technologies (DELID, High-rise Emergency Locator, CodeBlueFinder)*
- *Point-of-care test systems (Blood Analysis Device)*



Objectives:

Developing and utilizing technologies for:

- *natural/man-made disasters*
- *accidents*
- *safety of public spaces, high-rise buildings, petroleum/energy platforms, ships, airplanes*
- *ENCIRCLE*



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SIZ+

The Medical
Company

PIC Number: 927051020

Located in Urla, Turkey

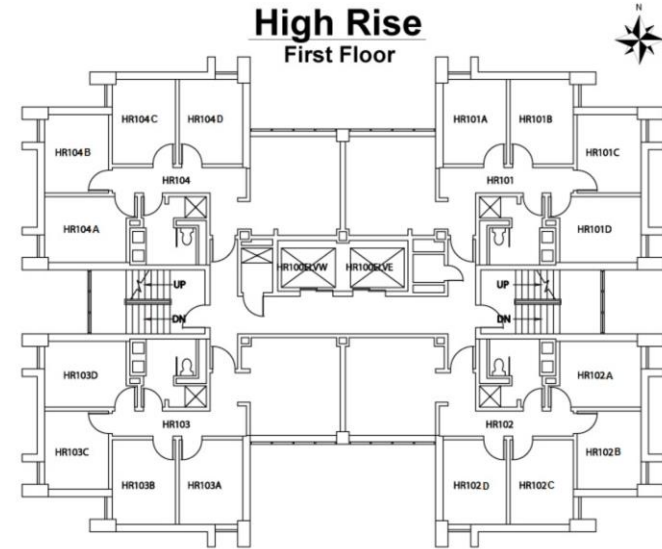
Our Solution

- **High-Rise Building Emergency Locator** pinpoints the victims inside High-Rise Building and Big Buildings during Emergency Situation.
- Using our technology, Emergency team reaches the patient faster and effectively.
- A mobile app for emergency calls and bluetooth low energy device for indoor positioning.
- **Patent Pending**

High-Rise Building Emergency Locator

- **Easy to use!**
- **Simple!**
- **Budget-friendly!**

Contact: cavusogluozlem@gmail.com
enginkarabudak@iyte.edu.tr



SIZ+

The Medical
Company

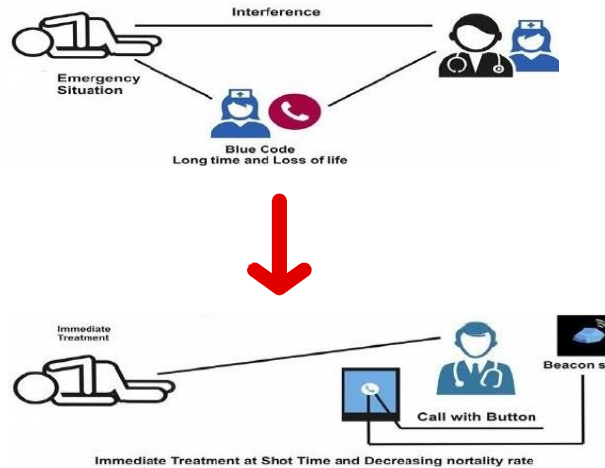
PIC Number: 927051020

Located in Urla, Turkey

Our Solution

- **CodeBlueFinder pinpoints the patient inside Hospitals and Big Buildings during Cardiac Arrest.**
- **Using our technology, Blue Code Team reaches the patient faster and effectively.**
- **A mobile app for emergency calls and bluetooth low energy device for indoor positioning.**
- **Patent Pending**

CBFapp
CodeBlueFinder



- **Easy to use!**
- **Simple!**
- **Budget-friendly!**

**Tested in Real
Hospital
Environment!**



Contact: cavusogluozlem@gmail.com
enginkarabudak@iyte.edu.tr



**The Medical
Company**

PIC Number: 927051020

Located in Urla, Turkey



Contact: cavusogluozlem@gmail.com
enginkarabudak@iyte.edu.tr

BLoOD Analysis Device

Portable Blood Analysis
Device using Infrared Technique

**Tested in Real
Hospital
Environment**



Our Technology;

Point of Care, Portable, Fast

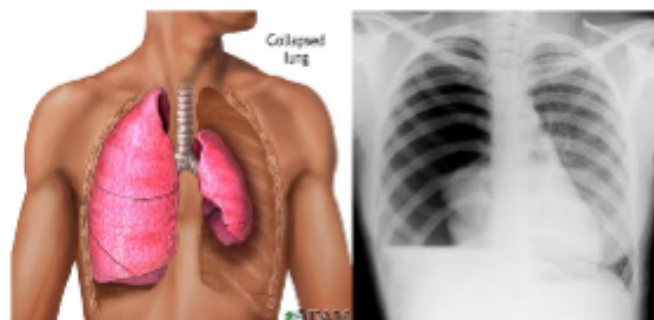
- 1 minute analysis time
 - Portable hand-held device
 - 10 µl sample volume
 - Analysis cost under 1\$
 - Determination of
 - glucose,
 - urea,
 - cholesterol,
 - triglycerides,
 - albumin and
 - total protein
- inside the Ambulance

SIZ+

The Medical
Company

PIC Number: 927051020

Located in Urla, Turkey

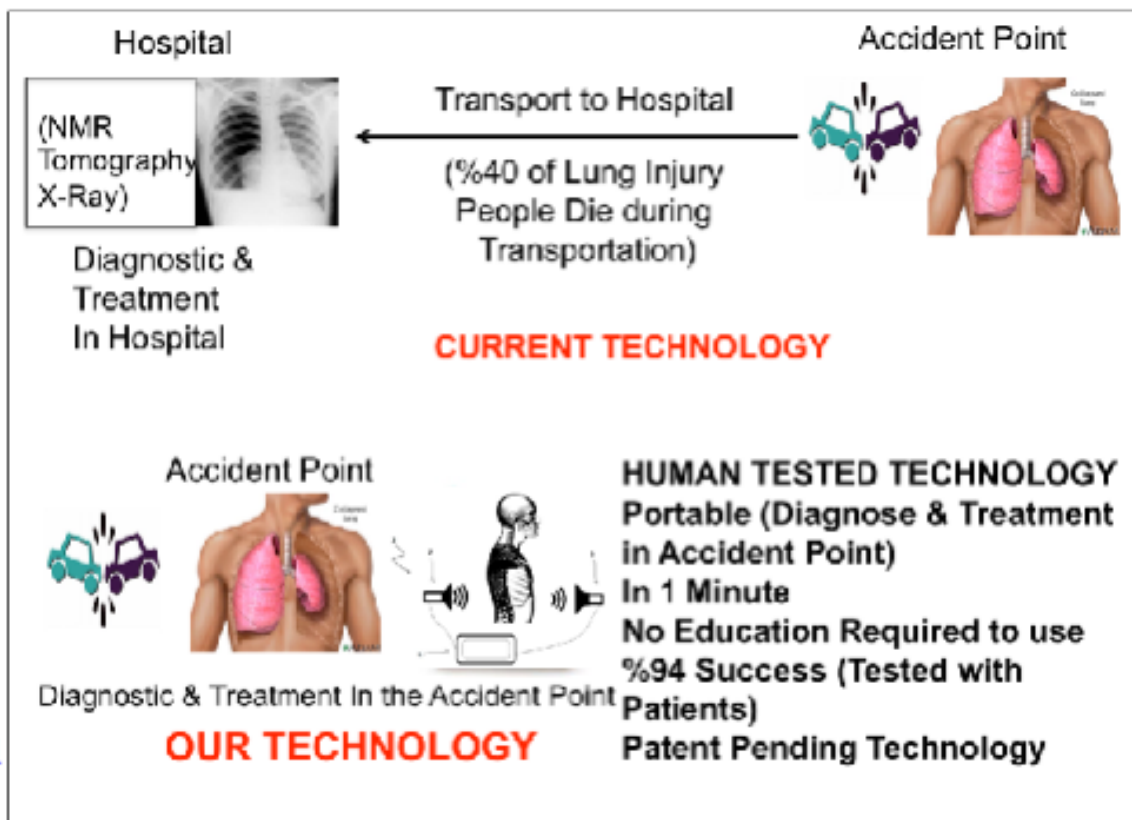


Contact: cavusogluozlem@gmail.com
enginkarabudak@iyte.edu.tr

DeLID+

Detection of Lung
Injury Device

Tested in Real
Hospital
Environment!!!



Topics interested in

DRS and INFRA topics

- *DRS02-2019, DRS04-2019, INFRA02-2019*



Existing Partnership

- *Technical partner (Greece, UK)*
- *Research Institute(Germany)*
- *University (UK, Turkey)*
- *NGO (Turkey)*

Looking For

- *Technical partners, SME's*
- *First responders*
- *End-users*



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Contact us!

Ozlem Cavusoglu, MSc.
Siz+ Medical Company
Turkey
www.sizplus.com



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PITCH SESSION

- ICP NEWTECH (END USER)
- RAYMOND LANE

Our project idea

The use of Avenger ROV (CBRNE compatible)





ICP C0-Operating & C0-Ordinating to Save Lives



Some details

- ICP NewTech “Incident Control Point New Technology”
- Supported by Irish Government through Enterprise Ireland
- Our Team have over 35 Years Trusted Experience in the Design & Development of UGVs Unmanned Ground Vehicles
- 12,000sq ft. State of the art Facility in Ireland
- Provide Worldwide Extensive After Sales Support
- ISO Certified and Committed to Lean 6 Sigma

Service Market

- Europe / MEA / USA / LAM / APAC



UGV Units Worldwide

- Over 800 Hundred of our products saving lives worldwide in many countries

ICP NewTech Motto

By listening and encouraging our Customers to be part of our team we WILL provide a service and products that our customer's need and not what we think they need..



Co-Framewor



Contact us!

raylane@eircom.net

00353872309994

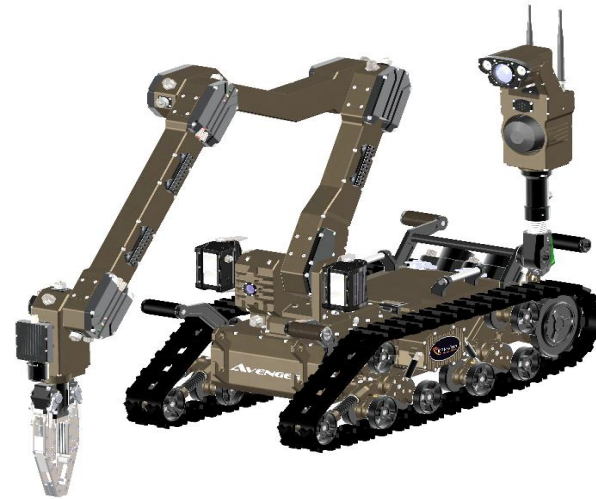




The ICP NewTech Products

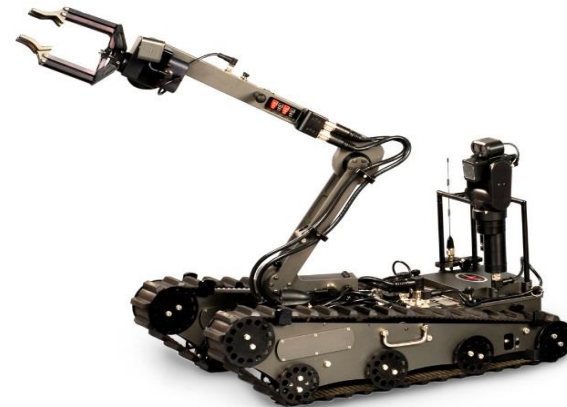
Newly Designed “AVENGER” UGV

- Medium Size UGV with Large UVG Capabilities
- Tailored to Humanitarian Harsh Field Activities
- Integrated Sensor Suite CBRNE Capabilities
- On Board PC Caters for Future Integration
- Dial-in Diagnostics System Support
- Fast & Reliable with Excellent Lifting Capability
- Vertical Reach 2 MTR



Enhanced “Digital Vanguard UGV

- Man Portable UGV with Proven Track Record
- CBRNE Capability
- Excellent Manoeuvrability in Buildings, Cars, Buses, Aircraft
- Excellent Stair Climbing Capability
- Easy to Maintain & Operate



Co-f
Framework

ROVISS SENSORS:



IRDAM Met
Sensor



CAM
(Chemical
Agent
Monitor) for
TICs &
TIMs



Radiation
Panel



Explosives
Detector



Radiation
Detector



Multi-Rae
Lower
Explosive Limit
(LEL)
O₂ Four Gas



ICP NewTech “World-Class Training Facility

Training & Support

- Multi- Skilled Technical Engineering Staff Provides “Hands On” Maintenance Training
- On Site World-Class Training Facility + access to Curragh “NATO approved Test Centre”
- Vastly Experienced Experts Provided Detailed EOD Training Using On Site facility .
- Over 35 Years Excellent Relationship with Dept. of Defence, access to their vast experience in the management of EOD
- Horizon 2020 possible collaboration – Industry/Academia/Security



Thank you for your attention





PITCH SESSION

SAFE - is a personal-Institutional mass application for management of emergency situations

“SAFE” - Security App For Everyone

Ori Nissim LEVI, ONDM

Expertise & Experience:

Dr., Construction of large-scale emergency drills

Required partners:

IP, Application Development, Technology Big Data Company,
2020 Proposal preparation



SU-INFRA01, SU-INFRA02, SU-DRS01, SU-DRS02/3, SU-DRS04

Ongoing projects: Research Mass evacuation, quantification
nuclear damage, International conference on nuclear defense



SAFE is simple to use for anyone, pushing instructions to save lives **S4**



SAFE

- **Name** - Ori Nissim LEVI ori.levi@ondm.co
- **Name of organization** – ONDM www.ONDM.co
- **Organization nature** - SME
- **Country** – Israel

Thank you for your attention





PITCH SESSION

- **Photovoltaic System Fire Risk Assessment (PVS-FRA)**
- Silvia Tabotta, Research Programme Officer
- Politecnico di Torino



Our project proposal

- Our work: Fire risk assessment in industrial and civilian complexes, through application and development of quantitative risk methods
 1. How to evaluate the enhancing risk due to PV panels on roofs?
 2. How to fill the lack of reliability and accident database?

The main field of research:

- ✓ Fire risk assessment methods as screening tools (e.g. Bow-Tie analysis)
 - ✓ Modeling and Testing
 - ✓ Fire safety management
 - ✓ Firefighting and first-responders: how to face the emergency
 - ✓ Augmented and virtual reality for training of fire brigade personnel
- Required actors to join as possible partners:
 - PV systems Failure and diagnosis monitoring experts
 - PV manufacturers with new technology
 - Regulators and governance actors





Broad scale
application of
FRA on PVS

Setup of non-
conventional
experimental
tests



EU Dataset
on PV fires &
PV reliability

Advanced
training for
emergency
responders

Standard
review &
practical
guidelines on
PV fire risks

Our expected outcomes



TOPIC ID: SU-DRS02-2018-2019-2020

«Technologies for first responders», subtopic open

Contact us!

Politecnico di Torino – Applied Science & Technology Department (Turin, Italy)

Luca Marmo

Director of the Dust Explosion Research Center

Enrico Danzi

Assistant Researcher, PhD@Dust Explosion Research Center

mail to: enrico.danzi@polito.it



- Project partners:

TECSA consulting (IT)



Italian National Fire Corps



RI.SE Norway (Fire risk assessment and experimental setup)

RI Fire
SE Research

BRE University of Edinburgh (Fire dynamics modeling)





PITCH SESSION

- Pan-European network of practitioners in transport and law enforcement
- Dr. Ralf Hedel
- Fraunhofer IVI (Germany)

Project idea for SU-GM01-2019

- Excellent experience from **EUSTO, I-LEAD and Fire-IN**
- The idea is to form a **network of practitioners** mainly from **transport sector** (rail, bus, road, PT associations etc.) and LEAs
- Focus is on **hybrid threats**
- CSA over **5 years**



Project idea for SU-GM01-2019

- **Objectives:**

- Analyse hybrid threat vulnerabilities and liaise with EU-Units
- Promote sectoral and inter-sectoral dialogue and cooperation
- Identify and harmonise operational capability gaps
- Identify promising solutions, define areas of standardisation
- Interoperability challenges etc.

- We are **looking for major transport stakeholders and LEAs** to join the network!



Fraunhofer IVI

- **Background = competence for future projects:** Software development (Desktop, mobile, browser) for civil security applications, e.g.:
 - Command & Control, resource management
 - Communication (command post – field forces)
 - Decision support algorithms
 - Simulation (crowds, networks etc.)
 - Patient data management etc.
- **End-users:** Police / Special forces, Rescue, Fire-brigades, disaster relief → daily practical work and extra-ordinary large-scale situations
- **Strong interest to join H2020 / Sec.** - projects related to development of software technologies, data analyses / modelling, and conceptual work



Contact us!



- **Dr. Ralf Hedel**
- Fraunhofer IVI
- ralf.hedel@ivi.fraunhofer.de
- Tel.: +49 351 4640 679
- R&D organisation
- Germany



Thank you for your attention





PITCH SESSION

- PIAP expertise in Security area
- Grzegorz Kowalski



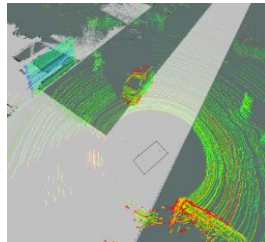
Industrial Research Institute for Automation and Measurements PIAP

Core technologies:

- Robotics
- Machine vision
- Autonomy
- ROS
- Embedded systems
- HMI

Commercial products:

- Mobile IEDD/EOD robots
- Counter-CBRN accessories (samplers and sensors) for robots
- Special vehicles for LEAs



Previous projects:



Ongoing projects:



H2020-SEC Topics:

- **SU-DRS02-2018-2019-2020**
 - Sub-topic 1: [2018] Victim-detection technologies
 - Sub-topic: [2018-2019-2020] Open
- **SU-FCT02-2018-2019-2020**
 - Sub-topic: [2018-2019-2020] Open
- **SU-BES02-2018-2019-2020**
 - Sub-topic 1: [2018] Providing integrated situational awareness and applying augmented reality to border security
 - Sub-topic: [2018-2019-2020] Open
- **SU-BES03-2018-2019-2020**
 - Sub-topic 1: [2018] Remotely piloted aircrafts and underwater autonomous platforms to be used from on-board offshore patrol vessels
 - Sub-topic: [2018-2019-2020] Open

Keywords: CBRN, robotics, machine vision, HMI





Grzegorz Kowalski

**Industrial Research Institute for Automation and
Measurements PIAP (RTO, Poland)**

gkowalski@piap.pl

+48-603-715-079





PITCH SESSION

The benefit of engaging Practitioners in research projects

Jon Hall QFSM

The Resilience Advisors Network

Our Organisation

As Practitioners, our primary purpose is to;



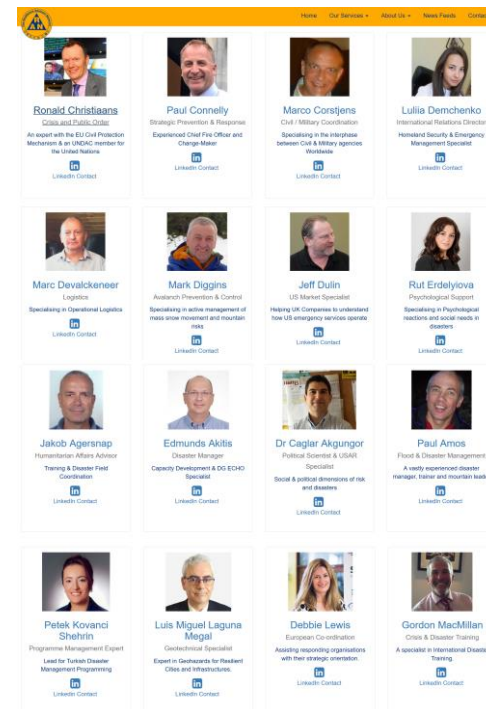
Support National and public agencies with expertise and capability across the full range of Civil Protection and Humanitarian activity

To do this we support organisations and private companies where their aims align completely with this



Who we Are

- 100+ Civil Protection & Security Experts
- From most EU Member States and other continents
- All from relevant backgrounds - F&R, Security and Medical
- Typically we work with:
 - EU Commission
 - United Nations
 - National Governments
 - Universities &
 - Commercial Enterprises...





Contact us!



Jon Hall

The Resilience Advisors Network (RAN)

Operating through 'Resilience Advisors (Europe) Ltd'

Republic of Ireland (Ex UK)

<http://www.resilienceadvisors.eu>

jon.hall@resilienceadvisors.eu

[+353 \(1\)906 9575](tel:+35319069575)



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Thank you for your attention

