ADVANCED
INTEGRATED TECHNOLOGY
SOLUTIONS & SERVICES

BUSINESS PORTFOLIO

ADDITESS

Introduction

ADDITESS -Advanced Integrated Technology Solutions & Services Ltd is a Cyprus-based Small Medium Enterprise (SME) established in 2011. ADDITESS is a scientific, consulting, and research company whose purpose is to conduct theoretical and applied research and to produce studies, at strategic and tactical level, on issues concerning Security policies, Border Management, Critical Infrastructure Protection, Transportation - Cargo Security, CYBER Security and also to develop state of the art applied Security Solutions hardware or software based in the above-mentioned areas. ADDITESS also provides advisory, consulting and solution services to various Government Organizations and to other Public and Private authorities in Cyprus, Europe or Worldwide, on these same issues. The founding of ADDITESS opened a new sector bridging business and research, in the security domain, new to the standards of Cyprus. Over the last years ADDITESS under the guidance of Mr. Nikolaos Koutras, Managing Director, invested in establishing the role of the company through strong participation in EU R&D funded projects, FP7 and Horizon 2020 frameworks, or various National R&D proposals in the fields of Security, ICT, Aeronautics (UAVs), Communications, Transportation and Environment.

ADDITESS is strategically positioned between academia, SME and Government, in Cyprus, benefiting equally from all sectors. The outcome of our positioning has been research in academic fields that were in need of it thus providing innovative technological solutions with high readiness in applicability. Additionally, strategic alliances allow the company to benefit from training activities leading to sustainable collaborations within our network of contacts and the formation of partnerships with both universities and privately-owned non-profit research centers and laboratories.

ADDITESS' personnel consist of greatly experienced – operationally and scientifically—engineers as well as new scientists allowing for the transfer of knowledge between the two. Our company's personnel are encouraged to take initiative in leading ideas that emerge through brainstorming sessions with the administration of the company. This process is supported by simplifying procedures and having them involved during decision making. We therefore believe in the empowerment of individuals with however great qualities in collaborating and sharing practices with colleagues; transforming current practices with new technological scientific trends with applications in emerging areas. ADDITESS invests in the evolution of its personnel by encouraging and supporting the continuation of academic education for pursuing more advanced postgraduate titles.

ADDITESS is at the forefront of our offering with clients stemming from a multitude of technological domains, such as Security, Defence, Information and Communication Technologies. Furthermore, a number of our researchers have a military and police forces background in IT Security, Electronic Warfare (EW) and Signal Intelligence (SIGINT) in large-scale National and EU or NATO led operations, over the last fifteen years. This field experience is enhanced by their high academic knowledge especially in the security (IT, Electro-optics, Communication, etc.) system's area.

Investing in technological solutions requires an adequate lifespan for said solutions that serves a twofold purpose: firstly, the quality of the product is raised by allowing for its maturing and continuous development and secondly a higher revenue is attained by reaching a greater audience. As a consequence, standardization throughout the development life cycle becomes a necessity which we take a step further by also employing quality policies in other operational areas (i.e. administration, marketing). Along the same lines our company follows the guidelines of the **ISO 9001:2015** standard of operations ensuring quality management regarding Consulting, Research and Development Services in Security and Information Technology

Fields. ADDITESS is also attaining the ISO/IEC 27001 Information Security Management System. Furthermore, ADDITESS is the owner of a **Facility Security Clearance Certificate** from CY MOD for **Handling EU Classified Information**.

TÜV AUSTRIA HELLAS EN ISO 9001:2015

TÜV AUSTRIA HELLAS EN ISO 27001:2013

The above practices have shaped ADDITESS into a reliable and trustworthy member of a widespread network of partners belonging to different sectors Civilian or Defence. This aspect has proven critical to our continuous development, as a company, generating opportunities for further expansion strengthening our footprint in Cyprus and abroad.

Our business philosophy is to adhere to the needs and requirements of our clients, providing high quality customer satisfaction, leading to a loyal and expanding customer following. Our goal is to fully support our clients to identify their specific needs, plan, implement and deliver our projects successfully.

We intend to work closely with our Clients providing a complete range of project delivery services and expert advice throughout any project's life cycle.

ADDITESS - Advanced Integrated Technology Solutions & Services Ltd is a private company limited by shares.

Registration Number: HE298153, Registration Authority: Cyprus/ Registrar of Companies
Registration Date: 06 /12/2011, Office: Vyzantiou 40, 2064 Nicosia, Cyprus
PIC Number: 954502214

ADDITESS' Business Portfolio

1. Security Consulting Activities

ADDITESS is dedicated to delivering world-class value advice and services to our clients enhancing their activities. Our consulting team provides highly qualified experts to help our clients proactively and efficiently address key business demands and issues.

ADDITESS' security consulting services include the following areas:

- Strategic Security Planning
- Risk Management and Business Continuity
- System Analysis and Design
- Security Plans and Policies
- Review, assess, and modify existing security plans
- Risk Assessment
- Risk Management
- Business continuity
- Laws and regulations
- Staff Training

ADDITESS provides best practice security planning and review/assessment of existing security plans to major organizations and governments internationally, enabling them to implement cost effective security solutions to safeguard installations, assets, staff, and clients.

ADDITESS' approach to Security involves addressing three different facets separately, but also in conjunction with each other. These facets are: Operations, Systems, and People. All three facets are equally important.

Since people conduct security, not systems, it is important to ensure that the right procedures are in place, with the right people, and the right training. In fact, "operations", "systems" and "people" must be inter-compatible and synchronized in order to produce real-life, practical and measurable results.

ADDITESS is proud to be among the founding members of the **European Cyber Security Organization (ECSO)** and **European Anti-Cybercrime Technology Development Association (EACTDA)**

More Information at http://www.additess.com/main/services

2. R&D and Commercial Activities

As mentioned above ADDITESS is a ***scientific***, ***consulting*** and ***research*** company that conducts theoretical and applied research and produces studies, in strategic and tactical levels. It also has the ability to provide advisory and consulting services in the broader area of ***Security, Safety and Protection***, and ***to issue after-action reports and lessons learned*** to various Government Organizations and other Public and Private authorities.

ADDITESS, amongst other activities, is offering comprehensive services for the organization and coordination of EC Horizon Europe, EDIDP and National R&D proposals and research projects in the field of Security, ICT, Aeronautics (UAVs), Communications, Transportation and Environment. ADDITESS has developed an expertise in projects related to the referenced fields. (http://www.additess.com/main/research-interests/)

Analysis of ADDITESS expertise that has explored from 2011 till today are as follows:

2.1. Software Engineering

Our software engineers have many years of academic and industry experience in software design and implementation. ADDITESS has the capacity to assist at all stages of the software development process, starting from the initial design phase, followed by the implementation, testing, and final deployment. We are able to handle a wide range of software projects, from purely backend systems to mobile applications. Our experience involves:

- Large-scale and real-time systems
- Database systems (PostgreSQL, MySQL)
- Distributed systems and parallel architectures (MPI, OpenMP, CUDA)
- Automated data collection and extraction
- Cloud computing and High-Performance Computing
- Machine Learning toolkits (Weka, Shogun, Spider)
- Java, C++, Perl, Python, Scheme, MATLAB
- GNU/Linux environment and open-source packages
- Apache HTTP Server, Apache Lucene, Apache Tomcat, Apache DB
- Algorithm and Data Structure optimization

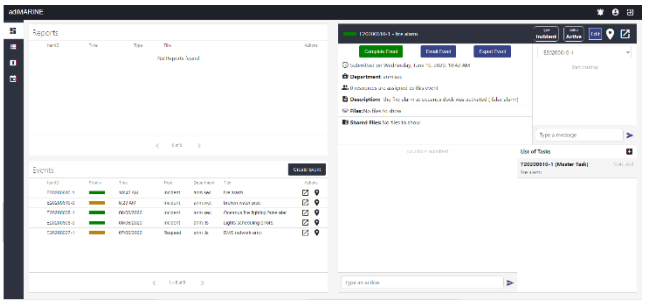
2.2. Web Portal Design & Resource Management

Spanning the information era, the design of versatile web interfaces for the management of vast amounts of information on any internet enabled device is necessary. Our web portal design solutions incorporate both front and back end components allowing separation between operations.

Information on the web portal is loaded dynamically and in real time while it is capable of managing information from different sources (i.e. mobile apps, web servers, sensors). The user is capable of configuring the interface's behaviour to match their preferences while multilingual support is also supported. Functionality includes:

- Event prioritization (determining the sequence in which queries will be serviced based on several attributes – severity, frequency, density etc.
- Event broadcasting for forwarding messages to interfacing channels

- Real time sectorial analytics: all different types of available analytics offered through a dashboard
- Mapping of events on the UI for the user to be able and observe the current situation
- Mapping of LEA and not only resources allowing the operator to know where their available/occupied resources are at any time
- User Management and the adjustment of access rights: add/remove/modify roles (includes rights to regional information)



Source: ADDITESS LTD

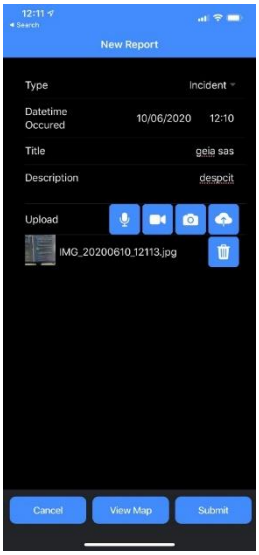
2.3. Mobile Application Design

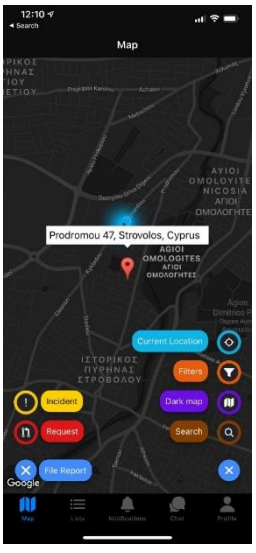
The development and production of mobile applications provides critical benefits to a system as it enables portability whilst still ensuring appropriate operation in devices with different characteristics and specs. The mobile application market has become subject to substantial increases and as a result accelerates availability and engagement to the user.

Cross development platforms enable availability to major mobile platforms without compromising provided functionality due to native platform support; without neglecting development on the native platforms (Android, iOS and Windows). Additionally, our mobile application designs allow and promote utilization of built in device features where available (i.e. GPS receiver, accelerometer, gyrometer) in an effort to automate certain processes or generate additional valuable information. Nonetheless, another priority is the Ethical Legal and Societal (ELS) Implementation of mobile app solutions that respect confidentiality of information and compliance to data protection policies and directives of imposed legislation.

Ease of use, user friendly interfaces and the user's ability to customize operations are inseparable aspects of a good design along with the ability to allow both online and offline operation whenever possible. Additional features that our designs may provide include

- Representation of geospatial information (i.e. crime maps, layer overlays)
- Gathering of analytics
- Seamless updating and retention of user data
- Secure Design
- Efficient management of battery resources
- Profiling for data charges when on cellular networks





Source: ADDITESS LTD

2.4. Unmanned Aerial Vehicles (UAV)

ADDITESS has developed during research and design phases a variety of UAV systems, a new concept in UAV market: designed from existing cots platforms or from ADDITESS design, in order to minimize the development cost. As it was derived from general aviation standards, it is optimized for reduced cost of operations. The Mini-UAV systems could also prepare for navigation in controlled civilian airspace and for compliance to certification requirements that will become applicable to all UAS addressing homeland security applications and flight operations in European sky. We already comply with ROC and future LUC regulations.

The UAV Platforms that are used by ADDITESS are developed by our in-house laboratory. The platforms are based on existing cots and they are enhanced with various payloads such as cameras (i.e. Daylight, IR), GPS modules, CBRN sensors as well as other software modules in order to fulfil every client's requirements individually.

Currently we are using and developing three types of UAV platforms

- Multirotor types / AP-M-1S800 and AP-M-1S1000
- Helicopter type / AP-H-1BVT-CM100v2
- Fixed-Wind type / AP-F-1M 'TILEMACHOS'

Indicative payload information:

- CM100v2: Gyro Stabilized Gimbal (Day – Thermal camera) *by UAV Vision*
- ChemPro DM: CBRN Detector Module *by Environics*
- *Panasonic GH2 Camera for aerial photogrammetry*
- *GoPro Hero3*

Source ADDITESS LTD

More information at http://www.additess.com/main/products/

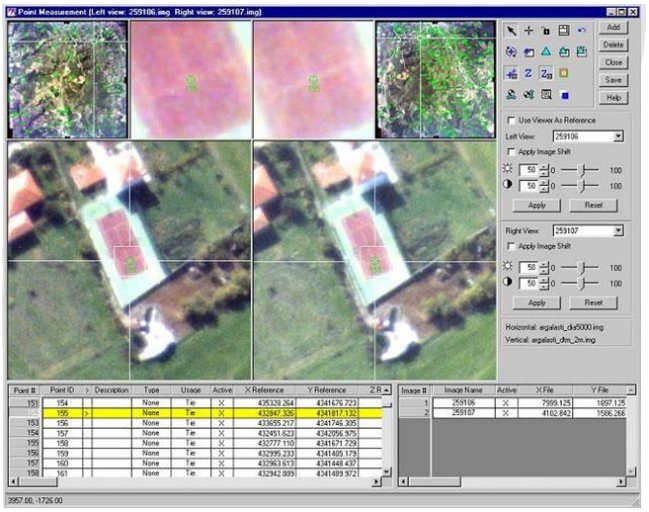
More recently under the finance of Research & Innovation Foundation and the RESTART Complementary 2016-2020 programs, ADDITESS has developed a mobile C2 system in order to be used as a mobile command centre for the R&D UAV systems.

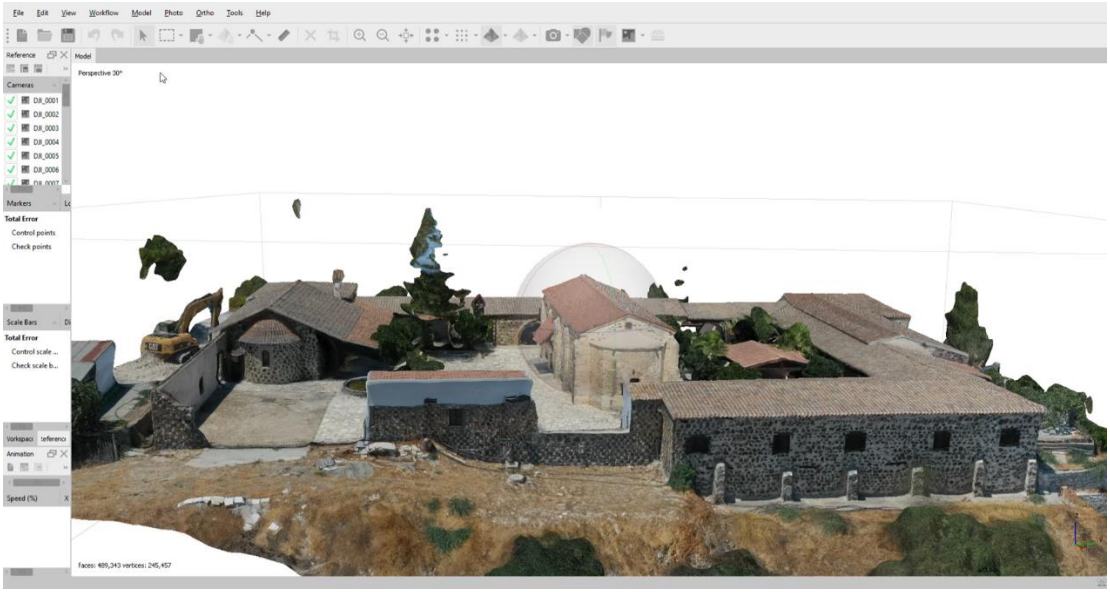
Source ADDITESS LTD

2.5. Remote Sensing & Photogrammetry

ADDITESS offers high quality remote sensing and photogrammetric products using satellite images and digital air-photos acquired by aircraft and/or Unmanned Aerial Vehicles (UAV). We are capable of managing small, medium and large-scale projects, providing world-class and on time services that support the following applications:

- Medium to large scale (including cadastral) mapping
- 3D Visualization and representation
- 3D City models
- View shed or Light of Sight analysis
- Security Planning
- Crisis Management
- Disasters/Floods
- Search & Rescue (SAR)
- Border security/Illegal Immigration
- Monitoring / Recording of the environment
- Fire Crisis Management
- Viewing Pipeline, Construction Sites or other structures (e.g. roads)
- Protection from Oil Spills





source ADDITESS LTD

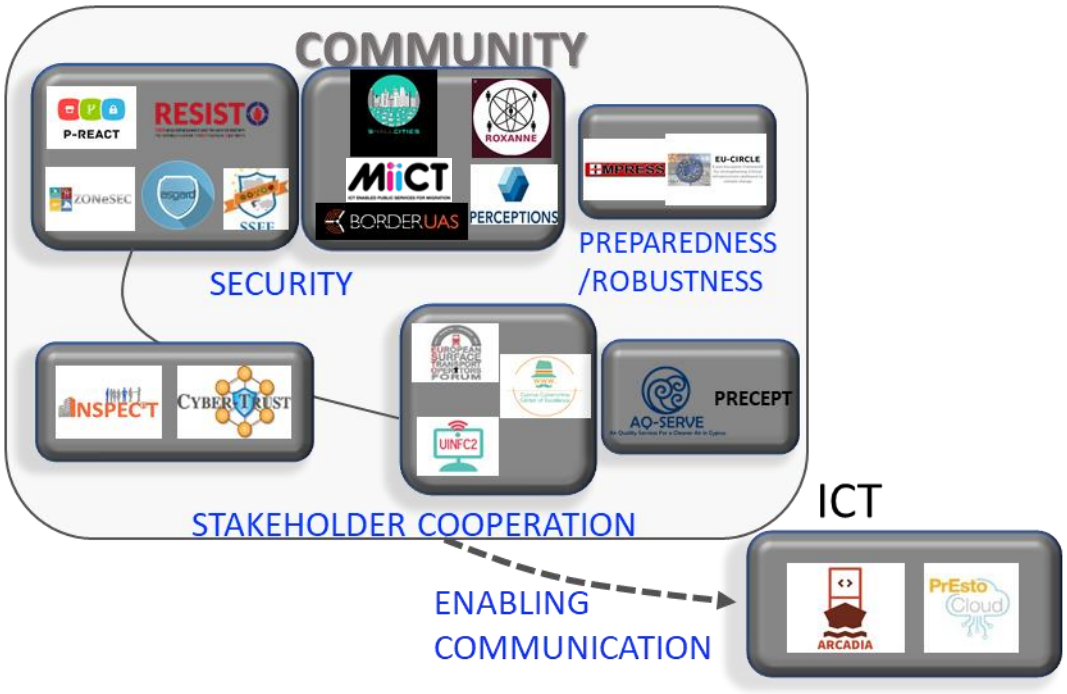
More information at http://www.additess.com/main/products/

EU And National Funded Research Projects

ADDITESS has participated in 21 complex research & innovation projects funded by European Commission (FP7-HORIZON 2020) and Research Promotion Foundation Cyprus in collaboration with sound European and Cypriot public & private sector partners. Worth of 5.0M euros. Recently ADDITESS further expands its research and development activities through the participation in EDA funding R&D projects through the EDIDP and future EDF framework.

FP7-Horizon 2020 Framework

CY Research and Innovation Foundation Programme



EDA/EDIDP Programme

3. ADDITESS' Commercial Products

When research…

…is put into practice

ADDTask: Incident Management System

ADDC3: Command, Control and Coordination System

ADDC3 Mobile: Mobile (Vehicle) Command, Control and Coordination Center

UAVs: UAV Systems and Solutions

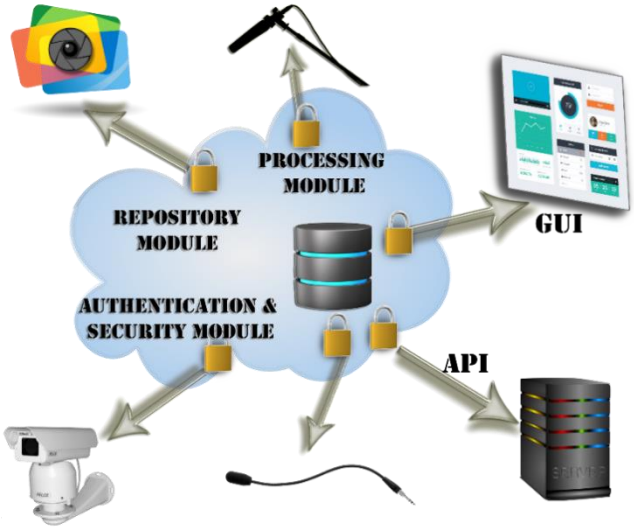
CSIM: Cyber-Security Incident Management System

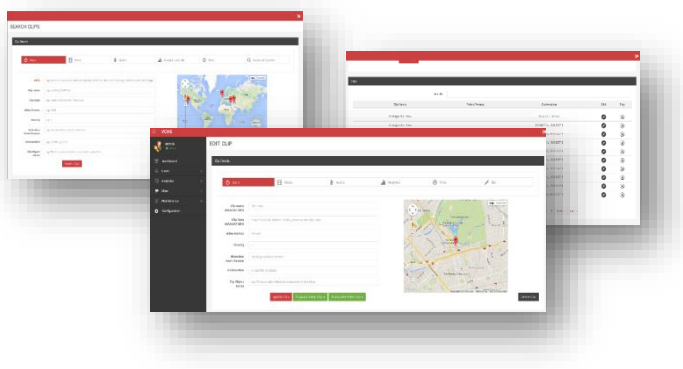
VMCMS-GE: Versatile Media Content Management System – Generic Edition

Geospatial Products

3.1. VMCMS-GE The versatile Media Content Management System

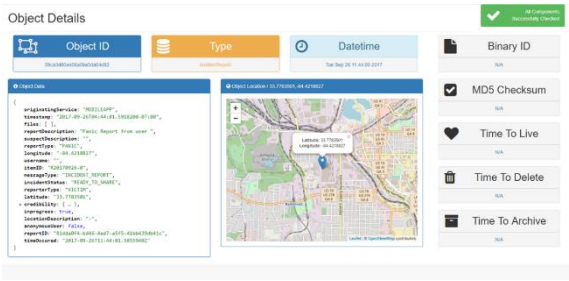
The VMCMS is a content management system for the efficient storage, management archiving, processing and logging of multimedia/heterogeneous content through a modular architecture. The VMCMS-GE has been designed as a result of our holistic strategy considering the key aspects of functional and creative design while also servicing the needs for scalability by exploiting the cloud characteristics. The platform is designed to fit the needs of a wide range of users through secure, yet, easy to deploy interfaces. VMCMS-GE is characterized for its highly scalable, flexible and customizable design which minimize deployment times.





The efficient management of data is accomplished with the use of user-defined metadata tags whose addition and removal is an easy task while the high customization of the platform allows integration with any cloud solution.

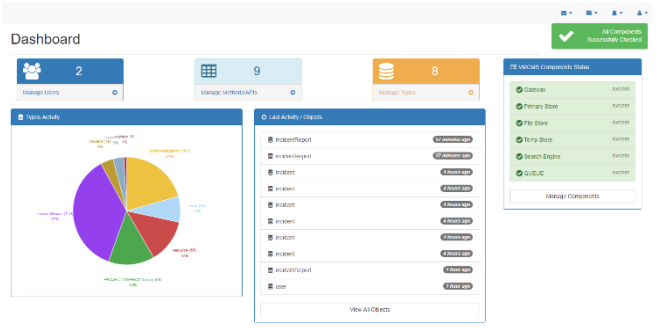
Most importantly and having identified the need for security and data protection, the VMCMS enforces a number of security related operations: data encryption, secure communication channels, data integrity, user and data access rights as well as data ageing allowing definition of data retention (expiration, deletion, archiving and purging of data) and renewal policies.



Source: ADDITESS LTD

Authentication of processes is managed by the internal security manager capable of managing data fields to consider while processing as well as fields to be returned upon completion. Data integrity of the original information is preserved with the computation of relevant hashes for any embedded multimedia object as well as a digital signature of the incoming object; also ensures preservation of the original object. Also, data ageing attributes are attached to the object

ensuring data retention only for the necessary and predefined period of time. The renewal of an item's date of expiration is possible and needs to be initiated from a user with the appropriate access privileges. Finally, all incoming and outgoing actions/requests are logged and retained to the system as a record in a standardized form.



VMCMS also deploys internal computational units to facilitate efficient indexing and storage of complex information. The VMCMS computational units are generic units capable of running functions which generate additional metadata to allow the timely deliverance of information upon request (i.e. determine whether point is within area of coordinates or return data within a specific time window).

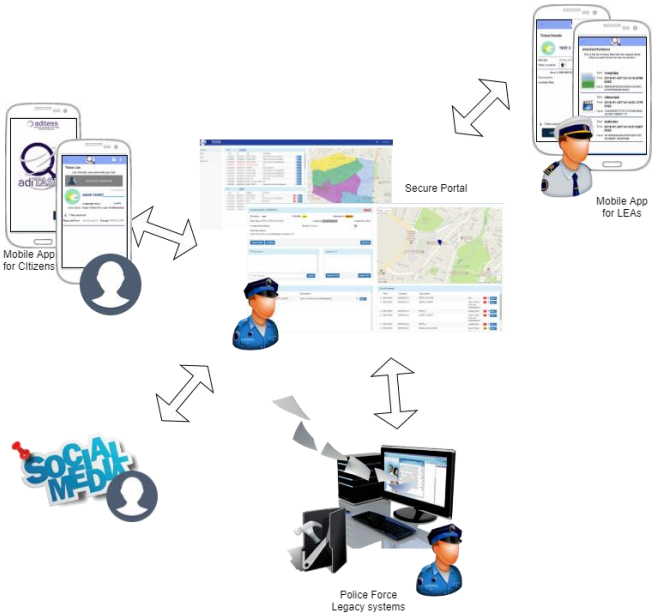
VMCMS-GE may serve as a solution in many applications and different domains, due to this, contains built in mechanisms that allow the designation of application-specific queries that may combine external as well as internal information. The modular and scalable design allow expansion for the deployment of processing/analytics including transcoding algorithms.

For more details please visit https://www.youtube.com/watch?v=rTJOnGzFBRM

3.2. ADDTask

The ADD-Task solution is a dual use communication platform composed of a central web real time incident management system for use by the LEA (Law enforcement agency) and two different mobile applications, one for use by citizens and one for the LEA's officers. The front end of the ADD-Task platform only requires a standard web browser for the government officers and a smartphone for any other user to operate.

The ADD-Task platform involves a variety of tools and technologies that support the operation of a Smart City and that could also be expanded to accommodate further needs.



ADD-task System user interfaces

Source: ADDITESS LTD

The main subcomponents of the ADD-task platform

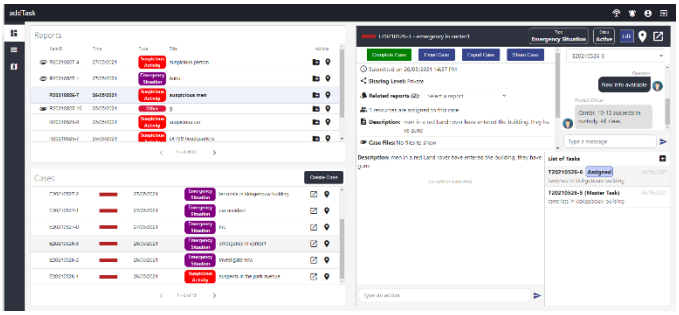
Central data content management system (ADD-VMCS-GE)

The central management system acts as a multi-faceted centralized data management system enforcing security on the data level, adhering to high modularity and horizontal scalability. This component is responsible for the efficient storage of heterogeneous data, including multimedia and binary content supporting the implementation of advanced searching capabilities whilst also ensuring the authorized access to data.

Additionally, this component will act as the gateway to adding intelligence to the system. Its scalable and modular design allow the addition of analytics and correlation algorithms that analyze incoming data in real time and provide enriched information in the form of metadata and the generation of business intelligence.

Web interfaces for resource and incident management through a standard web browser (ADD-Secure)

The primary user of the web interface (aka Private Portal) is the authorized CP (LEA or Civil Protection) operator, responsible for the management and handling of incoming information as well as the CP data analyst responsible for the processing of generated analytics information. The private portal provides functionality on four main pillars: real-time event management, post investigation analysis, business intelligence analytics and user management.



Intuitive information visualization and real-time event management at the Secure Web Portal (Reports on the top, Incidents on the bottom and the map with divisions on the right)

Source: ADDITESS LTD

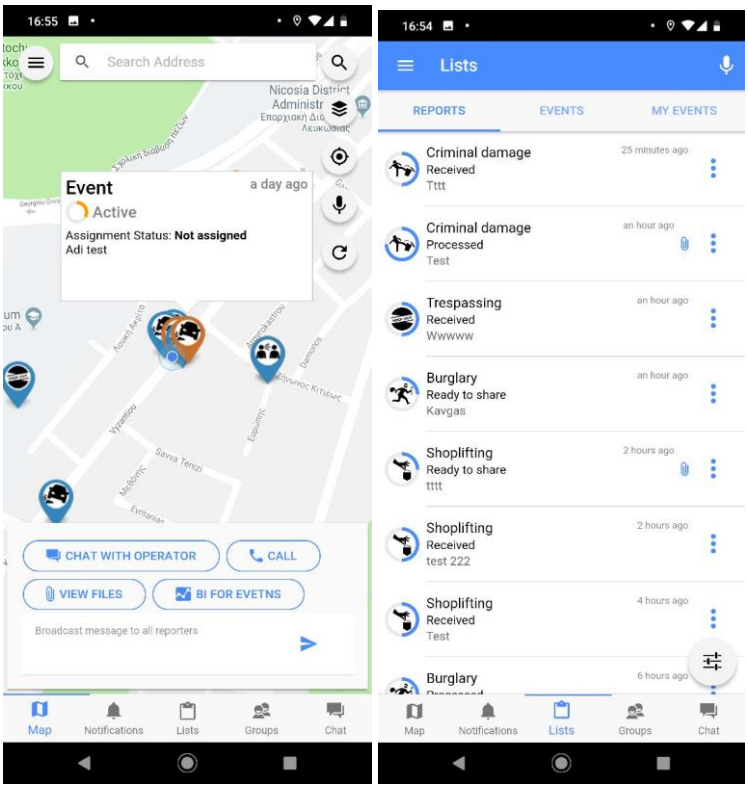
Real time event management and business intelligence analytics

The highest value capability of the private portal is the management of incoming reports and alerts in real time. The notion is that system users file reports while the Private Portal operator manages incidents (cases) emerging from related reports and data processing correlations. Incoming reports and ongoing incidents are shown on the dashboard of the portal as a standardized list; reports and incidents are also mapped based on their geographical location. The broadcasting of incidents (with or without files) to citizens, CPs and legacy systems is also possible; when an incident is broadcasted, users may submit updates to the system. Finally, upon incident completion all involved users are automatically notified and citizens may no longer access the resolved incident's information.

A pair of mobile apps for the assignment and resolution of incidents on the site (ADD-Mobile)

These mobile applications one for LEA officers and one for citizens serves as an interactive platform for CPs on-site and citizens respectively, creating a channel of communication between the two. The apps provide a clean separation between their functional logic and how

this appears on the front end and are based on the following main pillars: community engagement, security awareness and incident reporting.



Mobile Incident Reporting Functionality

Source: ADDITESS LTD

The mobile apps also allow the recording and transmission of multimedia files including audio recordings, images and videos; once these are supplied to the platform analytics automatically process the content and produce key metadata to be used by the operator.

Innovation

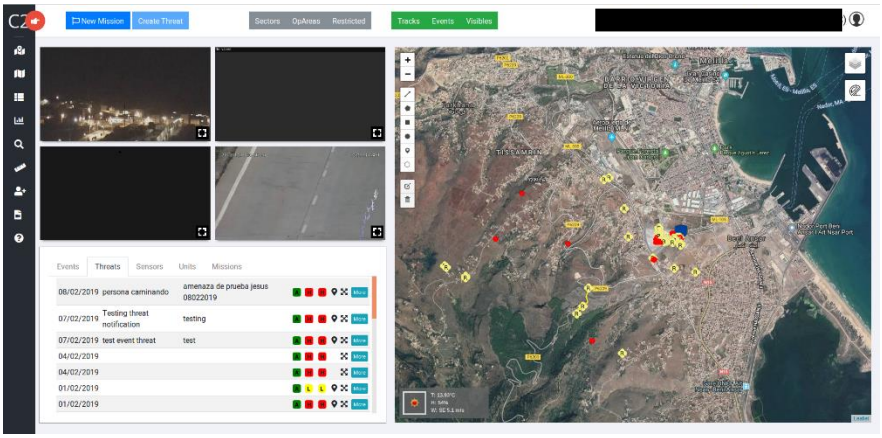
The major innovation points of the ADD-task G2C2G solution is:

- Simplifying and accelerating incident reporting on crimes or other issues of concern.
- Enabling the bidirectional flow of information between citizens and police/government, thus cultivating a climate of trust through a mutually beneficial collaboration
- Facilitating decision making and the implementation of responsive actions through an information management and analytics platform that analyzes, intuitively visualizes information and discovers correlating factors.
- Providing an end-to-end solution and single-entry point for crowd-sourced G2C2G services.

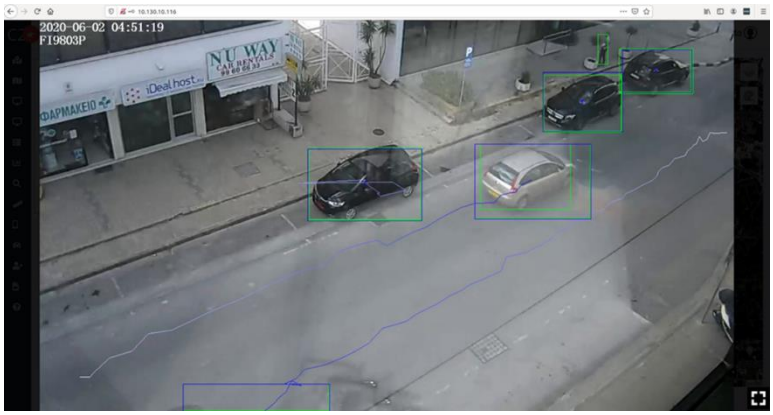
3.3. Command and Control System (C3)

ADDITESS Command and Control system (C3) is able to manage the alarms for all designated areas / segments which are produced by an Analysis Subsystem. The C3 system also allows for a flexible presentation (sound, light, screen message etc.) of incoming alarms simultaneously. The C3 operator is be able to decide (verify or decline) whether an alarm is a potential threat and the system will open a new event tab for completion by the operator. For each event, depending on geographical area, a unique record is created by the C32 system.

The C3 system is also able to display events detected by the sensors (E/O, Radars, ESM, AIS, etc.) on a map basis (GIS subsystem) according to their coordinates, into the same geographical frame, in a unique time reference and in the same units (position, speed, etc.). In addition, the C3 system allows monitoring and control of all registered subsystems in a centralized way at the Command-and-Control Centre. Furthermore, the C3 system provides unique tools for Mission Planning and Operation Management (course of the action, action plan, dynamic change of plans, risk identification, etc.). C3 system is able to classify a detected object as a "blue force" (own patrol), “not blue force" (not an own patrol) or "red force" (a patrol of the neighbouring country).



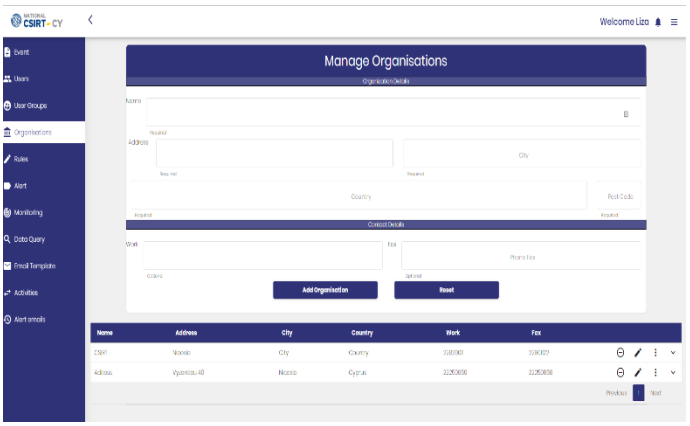
Following to the above, the system provides mechanisms for buffering zones representation (e.g. areas or precise land spots) which also allow supporting surface patrolling activities. ADDITESS C3 also includes tools for the graphical and textual definition of areas of interest and areas of operation and define different risk, alert or threat levels.



Source: ADDITESS LTD

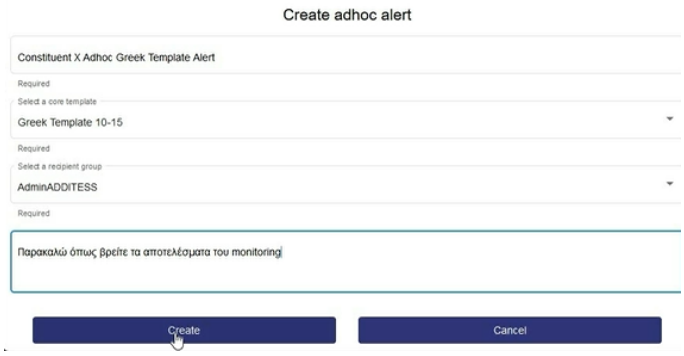
3.4. CSIM – The Common Interface for Cybersecurity Incident Management

The CSIM platform is developed and designed by ADDITESS in order to efficiently handle data related to cyber security aspects and to provide incident management and tracking functionalities to relevant agencies. The platform emerged as the outcome of a thorough study on the needs of cyber-security response teams (and EU CSIRTs in particular) and survey of 70+ cyber security tools. Integration to the workflow of cyber-security experts is expected to substantially reinforce their operations under a common operational framework. The platform also provides interoperability through integration with other platforms for two-way data exchange. CSIRT-Cyprus uses this tool from Aug 2020.



The ultimate goal of the CSIM platform operationally speaking is:

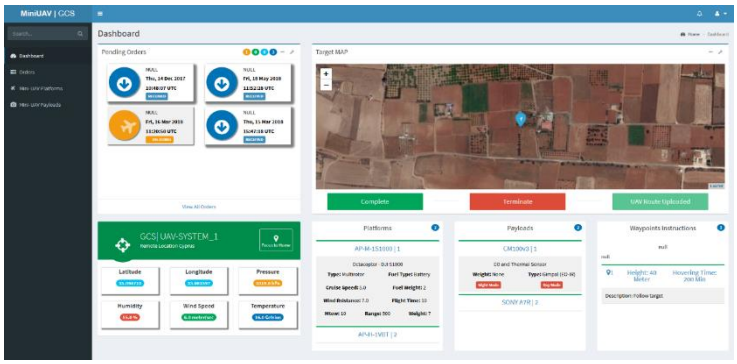
- Automated and regular retrieval of data from multiple sources, allowing the CS response team members to be up to speed with even the most recent events.
- Seamless correlation and combination of information and data produced as a result of analysis with multiple – independent – tools.
- Prevention of attacks to constituency by an alerting system that allows matching of constituency infrastructure with newly acquired information related to cyber-security threats.
- Log of actions and produced information related to the investigation of events – through various means – by CS response team members.
- Retention of information in a complex database system fully owned and maintained by CS response team members.



Source: ADDITESS LTD

3.5. UAV Task Based Guidance

ADDITESS UAV Task-Based Guidance (TBG) is an intelligence web-based component for the coordination of UAV teams, platforms and sensor configuration. In particular, TBG can be considered as a decision support tool-system for the selection of the appropriate Mini-UAV platform (aerial platform, payload, communication) and ground control station (GCS) based on several criteria including the mission analysis (path, time, covered distance, range), GCS locations, risk metrics and specifications of the equipment. The result of the TBG component on a mission request is the generation of the UAV final mission plan.



Source: ADDITESS LTD

4. ADDITESS International Business Engagement

International tender for the support of technical personnel recruitment services with for ETIMAD (UAE) to deliver the UAE Government Organizations critical infrastructure protection & border security programs.

International tender consulting for the development of the TOR and tender procedures for the procurement and acquisition of UAV systems for the OSCE SMM Ukraine mission operations.

International tender subcontractors for the development and integration of ADDITESS C2 System & VMCMS for Police Border management Operations (tests in Spain, Romania, Finland, Greece)

International tender subcontractors for the development and integration of ADDITESS UAV Fixed-Wind type / AP-F-1M ‘TILEMACHOS’ for Police Border management Operations (tests in Portugal, Greece)

International tender for the procurement of one Ground Radar for Police Border Protection R&D project in Greece

International cooperation for consulting activities and the implementation of a project for Police Border Protection R&D project in Greece, Romania

5. ADDITESS Business Awards

ADDITESS is proud of being the National winner of #SEUA17 #Cyprus Award in the category Smart City for the ADD-Task (adiTASK) platform. ADDITESS represent Cyprus in European level, on the 2017 Start-up European Awards. This contest is a member of Start-up Europe Awards. Alliance. http://startupeuropeawards.com/

ADDITESS has been named 'National Winner' in the 2019 European Business Awards, one of the world's largest business competitions. It was chosen from 2,753 businesses named as 'Ones to Watch' in a list of business excellence published in July and selected as a National Winner by a panel of independent judges including business leaders, politicians and academics. It is the best business in Cyprus in the Social Responsibility and Environmental Awareness Award category and will now go on to represent Cyprus in the final stage of the competition.

Adrian Tripp, CEO of the European Business Awards (www.businessawardseurope.com) said: "This is a significant achievement and ADDITESS LTD is an outstanding leader in their field. To be chosen as a National Winner means you show great innovation, ethics and success and are one of the best businesses in Europe. We wish ADDITESS LTD the best of luck in the final round." For more info: https://www.businessawardseurope.com/otw/entry/28738

ADDITESS has been ranked in 2021 and 2022 among the 50 fastest growing tech companies across the Middle East & Cyprus in Deloitte's Technology Fast 50 program.

6. Partnerships & Alliances

Key Partnerships

ADDITESS is full member on the following organizations:

- European Cyber Security Organization (ECSO)
- European Anti-Cybercrime Technology Development Association (EACTDA)
- European Neighborhood Watch Association (EUWNA)
- Cyprus Chamber of Commerce and Industry (CCCI)
- Cyprus Association of Research and Innovations Enterprises (CARIE)

and also cooperate under an MoU with the Centre for Risk, Safety and the Environment Centre of the European University of Cyprus.

Official Distributors:

ADDITESS is the official distributor of:

For Interested parties please contact:

Managing Director Mr. Nikolaos Koutras
Mobile: +357 97884142
Email: management@additess.com
Website: http://www.additess.com