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SURVANT

Surveillance video archives investigation assistant

D6.3 - Dissemination activity report II

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1	Engineering Ingegneria Informatica S.p.A.	ENG	Italy
2	Ethniko Kentro Erevnas Kai Technologikis Anaptyxis	CERTH	Greece
3	Innovation Engineering srl	INNEN	Italy
4	United Technology Research Centre Ireland, Limited	UTRC	Ireland
5	Ayuntamiento de Madrid	ADM	Spain

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Definitions, Acronyms and Abbreviations

ACRONYMS / ABBREVIATIONS	DESCRIPTION
CCTV	Closed Circuit Television
DOA	Description of Action
GDPR	General Data Protection Regulation
ICT	Information and Communication Technology
LEA	Law Enforcement Agency
MBA	Master in Business Administration
SRE	Security Research Event

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Executive Summary

This document describes the dissemination activities carried out during the SURVANT project, drafted with the intention to create awareness and stimulate expectations among stakeholders and in particular the potential end users.

The main purposes of the dissemination activities are analyzed in section 1 along with the targeted stakeholders of the project and the dissemination strategy. The most relevant target groups are identified in the following categories: Law Enforcement Authorities, security organizations and counter terrorism agencies, who are mainly involved in the fight against crime and therefore natural end users of the SURVANT project, industries active in the ICT and web field, the academic and scientific community, the Governmental Institutions, public at large.

In order to show the dissemination activities performed by the project partners and at the same time to identify and explain the intent of each kind of activities performed, section 2 reports the communication materials and the main channels used by the project in order to reach the different audiences.

Section 3 provides the description of the dissemination actions carried out during the 2 year project, for each identified channel.

Conclusions are outlined at the end of the document, analyzing the results of the whole dissemination activity.

This document represents a refinement of the dissemination deliverable issued by the project at month 12. It contains the description of all the dissemination activity carried out by SURVANT partners during the two years project period. It reports events organized, including workshops, and fairs and conferences which the project participated, along with publications in international journals and conferences. Information on other dissemination activities has also been added, including press releases, newsletters, project website updates and social networks activities.

1 Introduction

The present document describes the dissemination activities carried out by the consortium to create awareness around the project by using the proper mean and message to adequately reach the desired stakeholder groups.

To this end, in the following of this section, the main purposes of the dissemination, the identified targeted stakeholder groups and an overview of the carried out dissemination strategy are reported.

1.1 General objectives of the dissemination activities

The main general objectives of the dissemination activities of the SURVANT project were the following:

- To raise stakeholders' awareness about the project and the achieved results;
- To maximize the effectiveness of the communications towards stakeholder groups;
- To undertake actions for broad dissemination of the project results to the relevant stakeholders;
- To attract potential customers;
- To establish collaborations with related projects and to set up synergies when appropriate for creating cross synergies among European initiatives;
- To promote and raise awareness of SURVANT technical and scientific results towards scientific community.

In order to fulfill and achieve theses general objectives, SURVANT consortium planned a set of actions aiming at:

- Defining and creating a set of dissemination means to be used in the dissemination activities to maximize the effectiveness of the spread messages and properly address stakeholders;
- Planning a set of dissemination channels to be used for carrying out the activities and reaching specific stakeholders groups;
- Defining a strategy for properly address stakeholders by using the proper mean with the correct message and with the proper timing.

1.2 Target groups

The main target groups addressed by the SURVANT project are the following:

- **Law Enforcement Authorities (LEAs), security organisations and governmental stakeholders** mainly from the security and fight-against-terrorism sector: this target group is the main stakeholder of the project since it represents the direct and main end user of the SURVANT platform once realised. Furthermore, these stakeholders are the most involved in the fight against crime and the ones who carry out investigations and prevention.
- **ICT and web-related industry:** companies directly involved in the technology fields within the scope of the SURVANT project will be addressed since their interest in the technologies implemented by project partners and possible their end users.
- **Scientific and academic community** will be among target groups since their interest in the scientific advancement of the technologies implemented and demonstrated in the SURVANT project.
- **Public at large:** general public is also considered a key stakeholder group of the SURVANT project since the great interest of European citizen in the fight against terrorism and in the effectiveness of LEAs and EU effort in ensuring safety and security in EU.

1.3 Dissemination strategy overview

The audience to which the project disseminated its results is divided in three different segments.

- Academic and scientific community: where SURVANT disseminated to the scientific community concerning the SURVANT technical and scientific achievements and share knowledge to solve the most relevant technical challenges in the SURVANT objectives field.
- Specialized audience: where SURVANT aimed at attracting potential customers of the SURVANT system such as national LEAs, security agencies, security forces, etc.
- Citizens outreach: where SURVANT raised public awareness in order to let them know the advances in the field of security research thanks to SURVANT and the use of SURVANT in real situations.

The means of dissemination and communication to reach those categories during the project lifetime consisted of:

- Dissemination events: SURVANT results were disseminated in conferences to involve both academic and scientific stakeholders as well as potential customers. As for the project KPIs, project partners should have attended at least at 4 European international conferences and at least 6 European fairs and exhibitions. Moreover, SURVANT should have organised 2 Workshops for LEAs and other target users. The document will show how those KPIs have been achieved by the consortium.
- A training session: SURVANT should have arranged a training session with end users. This KPI was achieved with the Madrid workshop on April 2018.
- Scientific publications: 3 scientific articles should have been published in security sector magazines by the end of the project.
- Public outreach: citizens outreach is another relevant strategy identified in the project with the aim of addressing general public and generating and increasing awareness towards a wide audience. The strategy included using website, social channels, electronic newsletters and online videos. Furthermore, workshops and other events organized by the SURVANT partners in order to involve stakeholders in face to face meetings played a key role in these activities.

2 Dissemination channels and material

The dissemination activities were implemented by using a set of dissemination channels and materials prepared and available to partners since the beginning of the project, with the purpose of creating and empowering a project brand and maximizing the effectiveness of the dissemination activities.

Specific tools and communication material were realized and published with the main aim of providing project partners with adequate means for carrying out dissemination activities.

The dissemination material were developed for being used according to different communication needs and to various event typologies.

The communication material available since M3 of the project consisted in:

- SURVANT graphic identity;
- SURVANT brochures: to be printed and distributed in events/meetings and to be sent electronically via email for presenting the project;
- SURVANT posters and rollup: to be shown in conferences or events;
- public project web site;
- SURVANT e-newsletters.

Communication material were refined periodically in order to be aligned with the status of development of the project.

2.1 Project graphic identity and logo

The project dissemination activities started with the setting up of a project graphical identity, with the purpose of maximizing the visibility of the project. In order to provide a coherent and consistent graphic identity to the SURVANT project, self-explanatory graphic were designed.

The graphical representation makes use of images that clearly identify the message of the project purpose with the aim of strengthening the project brand and messages delivered by project communications.

To this end, a common layout was designed to be used in all SURVANT documents in order to create a graphic identity to be used in all the documents and dissemination material: deliverables (public and restricted), presentations, newsletters, reports and dissemination tools (Brochures, Project website, posters). All this material includes the project logo and the predominant colours associated to the project: light blue, white and dark blue.

Concerning the project Logo, it was realized in order to easily communicate what is SURVANT and which the ideas behind the project were. It includes the name of the project (SURVANT), as well as a graphic realization of the concept related to the project purpose: supporting investigations. The SURVANT logo was used in every event.



Figure 1: SURVANT logo

2.2 Project brochures

In order to ensure the creation of paper dissemination material, a brochure was designed at the beginning of the project.

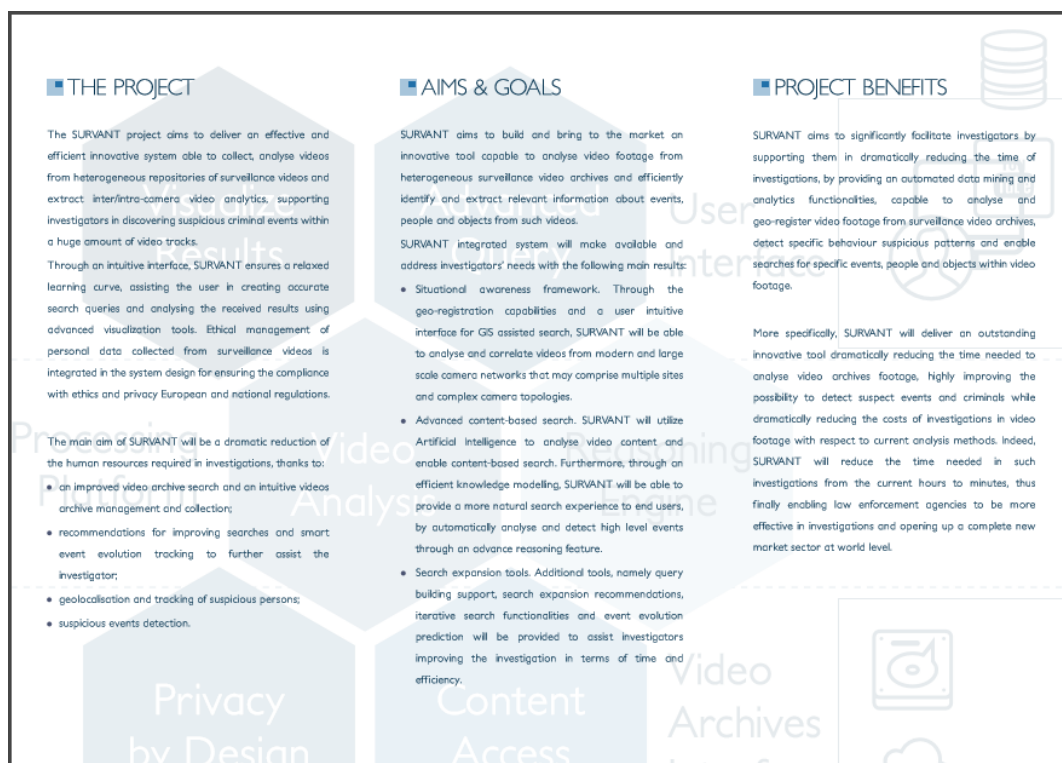
The SURVANT brochure had the aim to communicate clearly what SURVANT is and which purposes it has to all target groups and in particular to LEAs, counter terrorism agencies, research and industrial communities and general public.

Brochures were used in the project activities both in printed form and in electronic form: printed brochures were distributed during the official project events and during other events attended by project partners; electronic brochures were sent via email in any communication which need to present the project to new stakeholders.

In the following figures, the first brochure, The brochure containing a short description of the SURVANT project, its main aims and goals and an overview of the expected benefits brought by the project results to stakeholders is reported.



Figure 2: First SURVANT brochure, side A



A second brochure was published during the second reporting period. Besides its aim to communicate what SURVANT is and its purposes to all target groups, the second brochure had mainly the aim of system commercialization, thus being used also for the exploitation activity.

Figure 3: First SURVANT brochure, side B



Figure 4: Second SURVANT brochure, side A

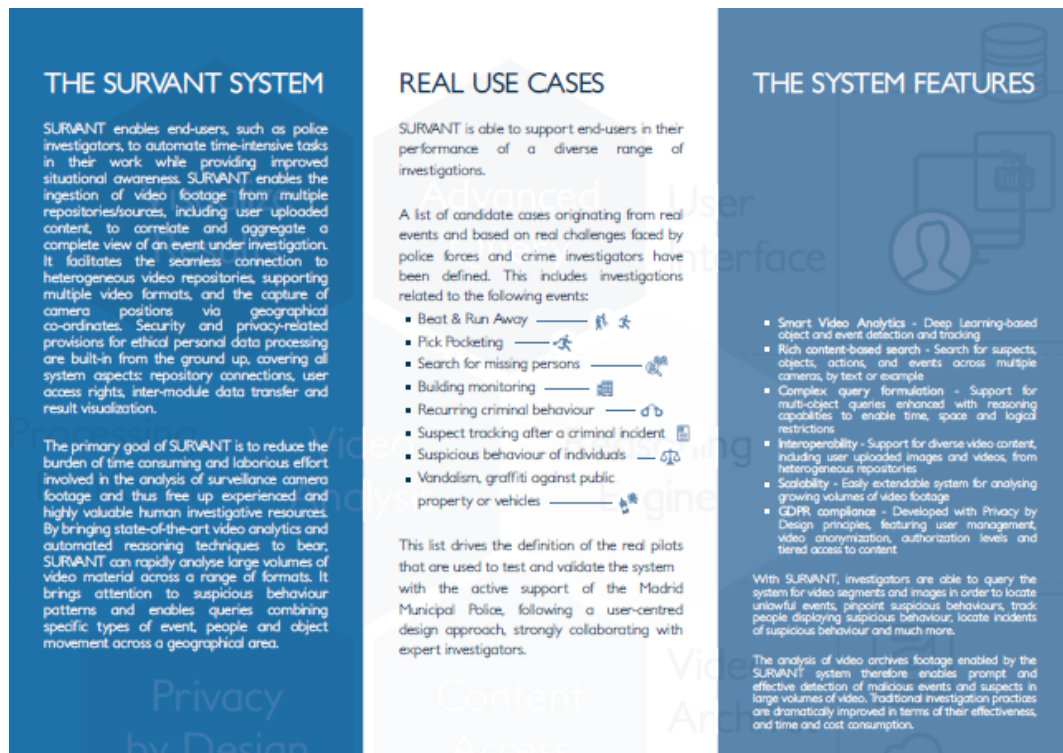


Figure 5: Second SURVANT brochure, side B

2.3 Project posters and rollout

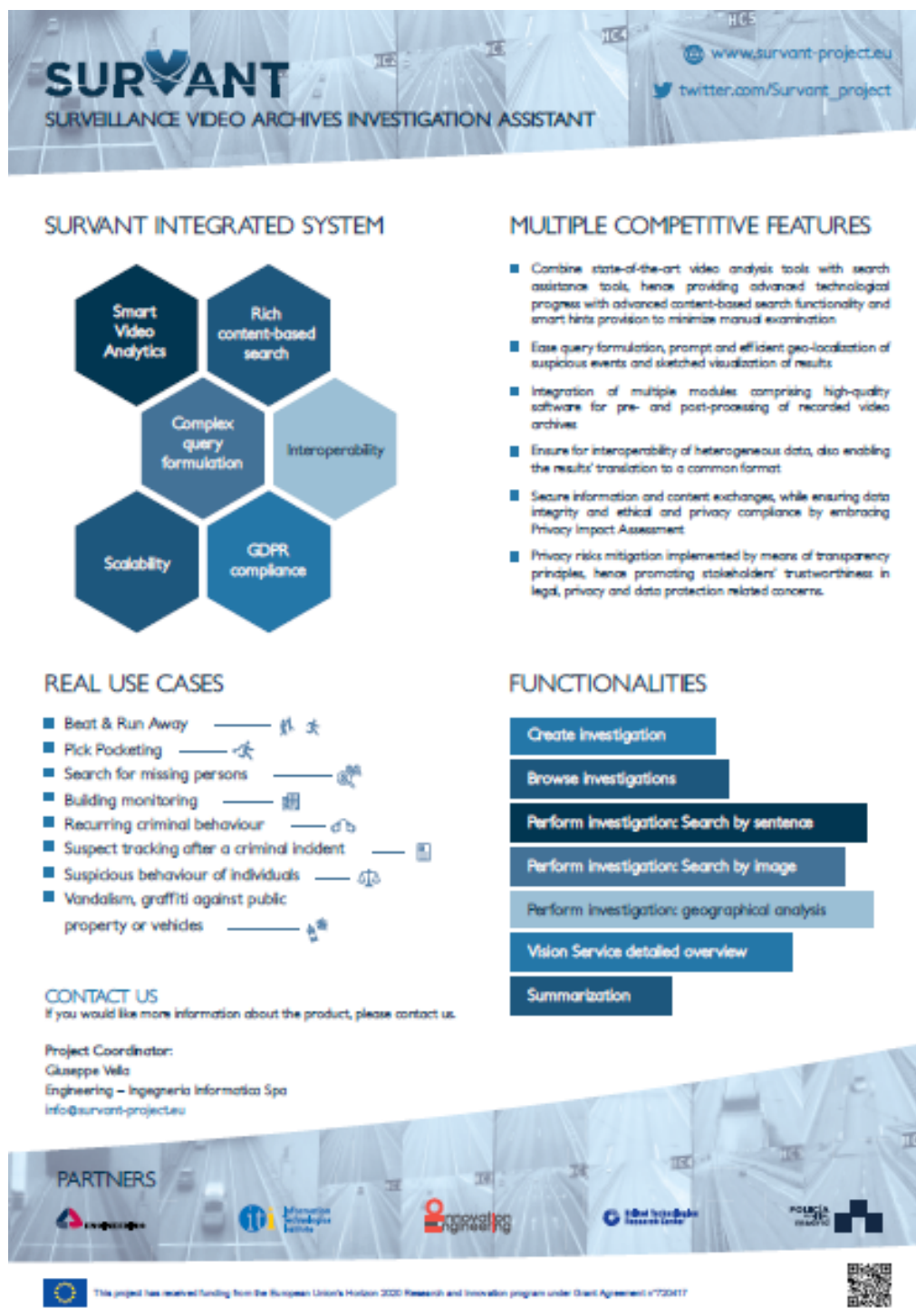
A poster presenting the main information about the project was designed and published at early stage of the project, with the purpose of being used and shown during project events where SURVANT was represented by project partners.

The poster was developed in a vertical format to allow partners to expose it during conferences or in other events.



Figure 6: First SURVANT poster

A new poster was published during the second reporting period with the aim of disseminating the system and supporting exploitation activities. Also a roll up with same graphic was realized to be shown in workshops and fairs.



SURVANT
SURVEILLANCE VIDEO ARCHIVES INVESTIGATION ASSISTANT

www.survant-project.eu
twitter.com/Survant_project

SURVANT INTEGRATED SYSTEM

- Smart Video Analytics
- Rich content-based search
- Complex query formulation
- Interoperability
- Scalability
- GDPR compliance

MULTIPLE COMPETITIVE FEATURES

- Combine state-of-the-art video analysis tools with search assistance tools, hence providing advanced technological progress with advanced content-based search functionality and smart hints provision to minimize manual examination
- Ease query formulation, prompt and efficient geo-localization of suspicious events and sketched visualization of results
- Integration of multiple modules comprising high-quality software for pre- and post-processing of recorded video archives
- Ensure for interoperability of heterogeneous data, also enabling the results' translation to a common format
- Secure information and content exchanges, while ensuring data integrity and ethical and privacy compliance by embracing Privacy Impact Assessment
- Privacy risks mitigation implemented by means of transparency principles, hence promoting stakeholders' trustworthiness in legal, privacy and data protection related concerns.

REAL USE CASES

- Beat & Run Away
- Pick Pocketing
- Search for missing persons
- Building monitoring
- Recurring criminal behaviour
- Suspect tracking after a criminal incident
- Suspicious behaviour of individuals
- Vandalism, graffiti against public property or vehicles

FUNCTIONALITIES


- Create Investigation
- Browse Investigations
- Perform investigation: Search by sentence
- Perform investigation: Search by image
- Perform investigation: geographical analysis
- Vision Service detailed overview
- Summarization

CONTACT US

If you would like more information about the product, please contact us.

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This project has received funding from the European Union's Horizon 2020 Research and Innovation program under Grant Agreement n°720417




Figure 7: Second SURVANT poster

2.4 Project website

The public SURVANT website, available at the URL <http://www.survant-project.eu/> since M3 is the main online communication mean developed and used by the SURVANT consortium.

The Website has the following aims:

- ensuring adequate presence of the SURVANT project on the web;
- informing target groups and general public about the aim and objectives of the SURVANT project;
- disseminating project's activities and initiatives;
- supporting the creation of synergies with similar projects to attract and concretely involving the relevant actors within the framework of forensic data manipulation and analysis;
- being the main tool to communicate, transfer knowledge and exchange information facilitating the collaboration between the potential users and the further extensions and adoption of the project outcomes.

The project website structure was described in detail in deliverable *D6.1 Public Website*.

The website was kept updated with relevant information and public materials produced by the SURVANT consortium, including information about SURVANT presence at conferences, events and fairs, SURVANT publications, both scientific and informative, newsletters and other relevant mentions about SURVANT and its results in relevant channels. All the dissemination materials was shared with the project partners and stakeholders also via project website.

An example of these updates is reported in the following figure.

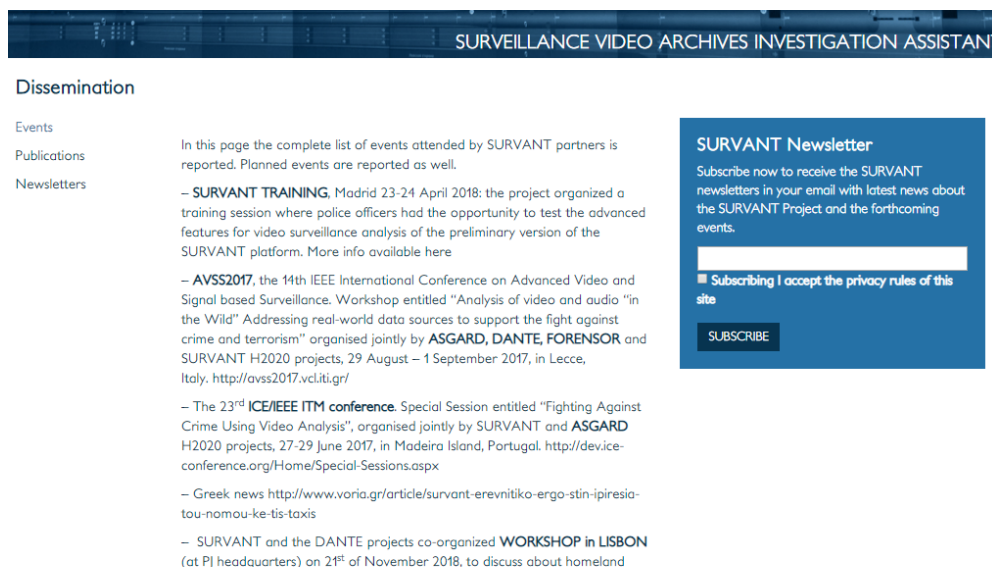


Figure 8: SURVANT dissemination page

2.4.1 Statistics on the project website

Since its publication (at M1), a total of 211 visitors accessed the SURVANT website until M12, and 1207 pages have been viewed in these visits. Next figures report general statistics from the beginning of the project to the end of the first year.

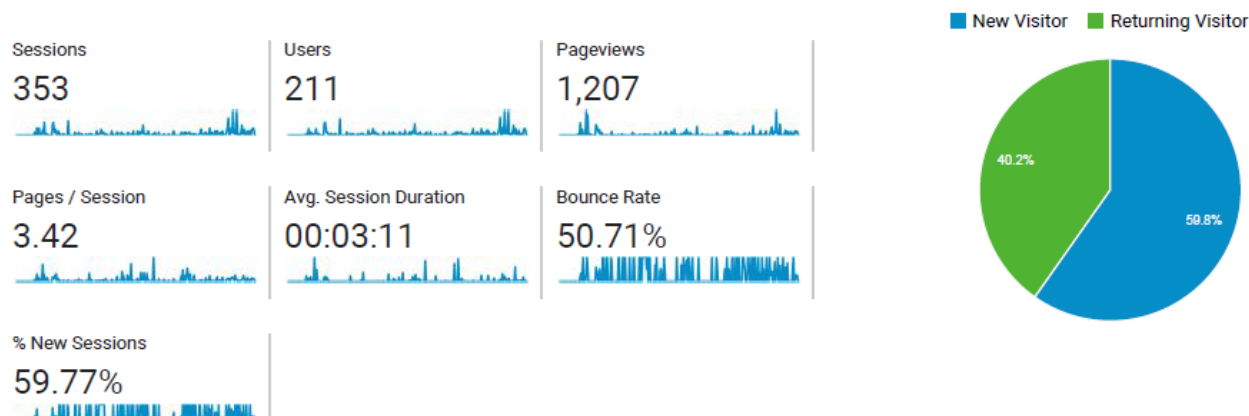


Figure 9: SURVANT website statistics during the period January-December 2017

It should be noticed that in November the number of both users and pageviews increased thanks to the SURVANT first newsletter dissemination.



Figure 10: SURVANT users during the period March-December 2017



Figure 11: SURVANT pageviews during the period March-December 2017

From the publication of the SURVANT website to the end of the project, a total of 1052 visitors accessed the SURVANT website and 3867 pages have been viewed in these visits. **With respect to the first year, users quintuplicated while pages views tripled, showing a great success of the dissemination activities that created awareness around the SURVANT system, during the second project year.**

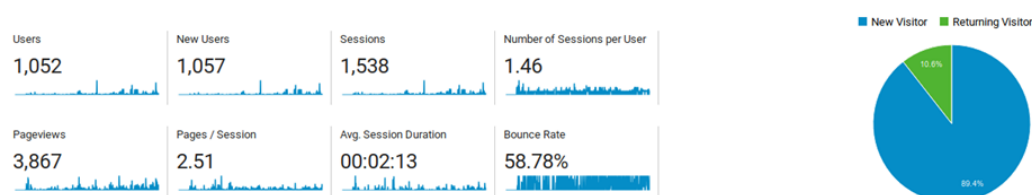


Figure 12: SURVANT website statistics during the period January 2017 - December 2018

It should be noticed that from July to the end of the project, the number of both users and pageviews increased thanks to a general more intensive dissemination action.



Figure 13: SURVANT users during the period January 2017 - October 2018



Figure 14: SURVANT pageviews during the period January 2017 - October 2018

2.5 Social networking

During the SURVANT dissemination activities, social channels were used with the aim to increase the diffusion of information to a wider audience relatively to SURVANT official events and newsletters publication. With this aim a twitter account was created for the project.



Figure 15: Project presentation on Twitter

In addition, partners channels were used as well as a dedicated twitter account for reaching a wider audience more than for creating communities (which is not in the scope of the project). Examples of partners channels are the companies official website, twitter accounts, as well as the companies newsletters and promotional channels.

In particular, the following partners added an official page of the SURVANT project on their institutional web sites:

- INNEN at <https://www.innovationengineering.eu/rd-activities/#SURVANT>
- CERTH at <https://www.iti.gr/iti/projects/SURVANT.html>
- ENG at <http://eng.it/mercati/dettaglio-progetto.dot?com.dotmarketing.htmlpage.language=1&catMercatoId=dbc52276-4300-459e-9ed0-46b37c2f553f&inode=a4096082-9ba9-4d8a-b4c3-79798799681d>
- ADM at <http://www.madrid.es/portales/munimadrid/es/Inicio/Emergencias-y-seguridad/Policia-Municipal/Survant?vgnextfmt=default&vgnextoid=ab9baafd335cc510VgnVCM1000001d4a900aRCRD&vgnextchannel=3926bb21278fe410VgnVCM1000000b205a0aRCRD>

3 Dissemination activities

3.1 Project e-newsletters

In order to maintain a high interest of stakeholders towards SURVANT activities and results, the realization and publication of periodic electronic newsletters (e-newsletter) was done throughout the project. The e-newsletters had the main aim to periodically (2 newsletters during the first year, 5 newsletters during the second year, when the system was more mature) share with interested stakeholders relevant information related to the achieved results, to the planned events and in general to the SURVANT project's achievements.

The e-newsletters were realized through a website plug in and managed from the back end of the SURVANT website. The document was published in two forms: a pdf file was created and uploaded in the public area of the SURVANT Web site, in order to be available to people visiting the website after the e-newsletter publication. Moreover, partners used their own channels (in particular CTECH and INNEN) to distribute them in order to reach a more vast audience (about 1500 users).

In the SURVANT website a newsletter section was created to enable visitors to subscribe themselves to the newsletter, in order to receive it to their email address. In the next figure the template of the newsletter is reported.

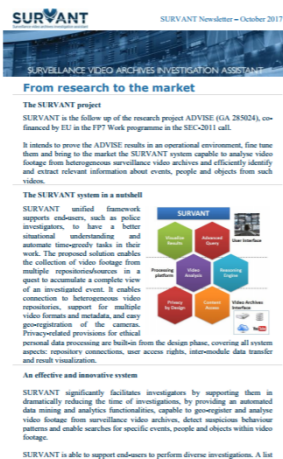


Figure 16: SURVANT newsletter template

The first issue of the SURVANT Newsletter, entitled “From research to the market”, was published with the aim of creating awareness around SURVANT project and its objectives. It explains that SURVANT is the follow up of a research project aiming at creating an effective and innovative system in the market to support and create benefits for its final users.

The information reported in the first issue of the newsletter was related to:

- Introduction of the SURVANT project and its purposes;
- Description of the SURVANT system in a nutshell;
- Description of the SURVANT system and its main functionalities.



of candidate cases originating from real events and based on real challenges faced by police forces and crime investigation have been defined. This includes investigations related to aggression incidents, theft, vandalism in public space, scene monitoring and surveillance, missing person identification, people tracking, etc.

Such a list drives the definition of the real pilots that are used to test and validate the system with the active support of the Madrid Police, following a user-centred design approach, throughout analysis and discussions driven by them.

Effective and innovative system features

Automated Analysis for answering volumes of video footage

Current procedures for performing investigations in video archives are cumbersome and time consuming. The investigator has either to collect all the relevant video footage in one place or identify the video one by one and access them in a dedicated interface. In multi-camera environments the investigator is usually forced to identify the exact camera location and viewing angle selecting separate resources, limiting the overall situational awareness. The collected videos are watched and relevant segments are extracted. In order to follow the evolution of an event from a different camera the whole procedure is repeated from the beginning.

Currently the video footage analysis is performed manually by investigators who just watch videos searching for specific events, persons or correlations among facts, spending thousands of hours yearly in such activities. SURVANT reduces the gap between surveillance operator's capabilities and the growing variety and volume of crimes affecting citizens.

Support for heterogeneous repositories

Current solutions in the marketplace tend to be restricted to operate within the bounds of a specific platform with no support for heterogeneous repositories. SURVANT offers a unified interface for evidence mining in multiple video archives. It automates the collection of relevant video content offering video archive transparency with an indexation mechanism that seamlessly connects to heterogeneous archives and repositories and retrieves footage and metadata related to the investigation.

Support of advanced content-search capabilities

Current solutions offer little or no flexibility in search by extracting a small set of analytics usually in real-time. SURVANT offers advanced capabilities to automatically analyse the content and extract video analytics. Indexing, reasoning and inferring techniques are employed to augment the results and discover correlations and hidden evidence. SURVANT offers the investigators unique search capabilities. Complex queries that can combine time, location, objects, actions, as well as meaningful combinations of the prior are provided. Custom queries defined by the user in videos or directly uploaded are also possible.

possible.

Support of multi-camera video analysis

Current solutions do not exploit spatiotemporal connections for multi-camera video analysis. SURVANT enhances search queries by either tracking people/events across multiple cameras or recommending expansion of the query to achieve more comprehensive results. SURVANT offers smart prediction of event evolution in neighboring cameras with search expansion recommendations based on time and location.

Data Protection

Current solutions do not consider private data protection. SURVANT actively seeks to protect personal data by design and by default from unethical usage. SURVANT offers ethical personal data manipulation, orchestrating content usage providing access management, compatibility, and enforcement of all relevant legal, ethical and privacy constraints. It identifies privacy-sensitive data and hides them from unauthorized usage. It supports multiple roles and hierarchical structures in an organization with discrete access permissions to personal data.

SURVANT is a project funded by the European Commission
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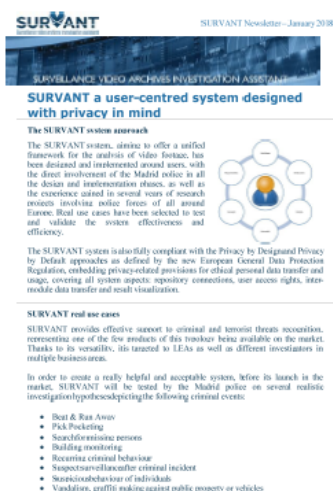
During the second period, other five newsletters were published.

Figure 17: SURVANT Newsletter nr. 1

The second newsletter focused on the description of the SURVANT system approach, based on real use cases validated by the Madrid Police as well as privacy by design and by default principles stated in the new EU Regulation on Data Protection (GDPR).

The information reported in the second issue of the newsletter, published in January 2018, entitled “SURVANT a user-centred system designed with privacy in mind”, was meant to add some details to the first newsletter, with deeper information on its main peculiarities related to:

- The SURVANT user-centred approach;
- SURVANT real use cases, showing part of the system related to image retrieval;
- Protecting privacy by design and by default.



Thanks to SURVANT, investigators are able to ask the system for image retrieval in order to locate those events, find suspicious behaviors, follow trajectories than involve persons with suspicious behaviors, locate incidence of suspicious behaviors and much more.



The analysis of video archives footage enabled by the SURVANT system therefore enables prompt and effective detection of malicious events and suspect persons. Thus, traditional investigation practices are dramatically improved in terms of their effectiveness, time and cost consumption.

A schema of an advanced search, based on images and objects/features, available in the new SURVANT system, is presented below.

Search by Image for Video: CalleDeLaSal-PosteoQuince-20160820202027.avi



Protecting privacy by design and by default

Current solutions do not embed privacy and ethical principles related to privacy. The SURVANT consortium is concerned that the EU's proposed data protection reforms is routine human rights at the centre of the system design. That's why SURVANT actively seeks broader safeguards to protect privacy and personal data by design and by default from unethical usage. Safeguards are thus embedded in the system, becoming an essential component of the system one, without diminishing functionality. Main safeguards consist of:

- Secure information and content exchanges, while ensuring data integrity and ethical and privacy compliance by enforcing Privacy Impact Assessment
- Privacy risks mitigation implemented by means of transparency principles, hence motivating stakeholders' trustworthiness in legal, privacy and data protection related concerns.

Compliance with the new EU Data Protection Regulation is therefore ensured by using SURVANT.

SURVANT is a project funded by the European Commission
This project has received funding from the European Union's Horizon 2020 Research and Innovation program under Grant Agreement #720417

Go to survantproject.eu

Figure 18: SURVANT Newsletter nr. 2

The information reported in **the third issue of the newsletter**, entitled “SURVANT provides instructional support to Law Enforcement Practitioners” was published in June 2018. It was mainly aimed to demonstrate the feasibility and usability of the SURVANT system, describing the recent training section with thirty-five law enforcement practitioners as well as their positive feedback. Moreover, the small section about the General Data Protection Regulation was aimed to show the compliance of SURVANT to GDPR entered in force at the time of such SURVANT newsletter issuing.



Figure 19: SURVANT Newsletter nr. 3

The information reported in **the fourth issue of the newsletter**, entitled “Faster and more efficient investigations with SURVANT”, was issued on October 2018. It was meant to illustrate SURVANT benefits for law enforcement practitioners:

- SURVANT makes criminal investigations smarter;
- Know how to be more efficient with SURVANT;
- SURVANT's Trajectory Mining will refine criminal researches.

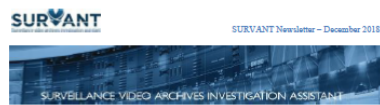
Moreover, SURVANT participation to the Security Research Conference and Expo 2018 (SRE 2018) was announced by the newsletter.



Figure 20: SURVANT Newsletter nr. 4

The **fifth issue of the newsletter** was published on December 2018, entitled "SURVANT Attendance to International Events". This issue of the newsletter gave information about the project's participation at two international events: the training workshop that was held in Lisbon on November 2018, which was co-

organized with the sister project DANTE, and the SRE2018 co-organised by the EU Commission and the Austrian Ministry for Transport, Innovation and Technology.



SURVANT ATTENDANCE TO INTERNATIONAL EVENTS

The SURVANT system enables users a prompt examination of relevant videos from heterogeneous sources via a user-friendly interface and inter- and intra-camera advanced video analytics by means of reasoning and inference technologies. The analysis of video archives footage enabled by SURVANT enables prompt and effective detection of malicious events and suspect persons. As a consequence, traditional investigation practices will be dramatically improved in terms of their effectiveness, time and cost consumption.

In order to communicate and show its innovative system, the SURVANT project has been presented at two major events: a training workshop held in Lisbon on November 2018 and the SRE, which took place in Brussels on December 2018.

WORKSHOP IN LISBON

SURVANT and the DANTE project co-organised a very successful workshop in Lisbon (at PF headquarters) on 21st of November 2018. Discussing about homeland security with other seven EU Horizon2020 projects in the security domain, law enforcement agencies, European Commission representatives, industries and researchers. The event included a demo of the SURVANT system showing how much SURVANT supports law enforcement practitioners in their day by day work of fighting against crime and terrorism.

The workshop received positive feedback from the different stakeholders, including the European Commission representatives.



THE SECURITY RESEARCH EVENT 2018

The Security Research Event is the annual meeting where industry, government and knowledge institutions come together to discuss the state of play and current challenges for security research in Europe, and where EU funded security-related projects are displayed in a large exhibition area. The SRE, jointly organised by the European Commission and the Austrian Ministry for Transport, Innovation and Technology, took place on 5th and 6th of December 2018 in Brussels, at the Square Meeting Centre 1.

The European Commission aimed at highlighting the role of security research to foster the implementation of EU Policies and address crucial societal challenges, demonstrating the strength and inspiring results of security related research and innovation activities, under the theme "Making Europe a safer place - demonstrating the impact of EU-funded security research". Dissemination and outreach of projects have been the cornerstone of the conference's discussions, as these activities are among the main enablers of market uptake and are currently identified as a major challenge for security research by all relevant stakeholders.

The SURVANT project had the chance to exhibit its last results and progress with the support of a stand, which helped the project to gathered people in order to increase its visibility and to discuss about its innovative technologies in front of 800 participants representing a wide range of security stakeholders. Moreover the project was included in the VIP Tour and was the first booth to be visited by Norbert Hofer the Minister for Transport, Innovation and Technology as an example of using successfully the Fast Track to Innovation funds.



Many stakeholders interested in the project were glad to join the SURVANT booth where they found the related dissemination materials such as brochures, newsletters and technical factsheets.



The SURVANT platform of smart video surveillance supporting the investigators to discover suspicious criminal event was shown to end-users, researchers, industry representatives, public security providers and practitioners (i.e. fire departments, police, border guards, intelligence agencies, etc.), as well as a wide number of policymakers from across Europe. In particular, the Austrian Government representative showed great interest to the analysis of video archives footage performed by the SURVANT system.



SURVANT is a project funded by the European Commission
This project has received funding from the European Union's Horizon 2020
Research and Innovation program under Grant Agreement n°720417

[Go to survant-project.eu](http://go.to/survant-project.eu)

Figure 21: SURVANT Newsletter nr. 5

Each newsletter was disseminated not only directly and through the project website, but also through external online channels (LinkedIn private and institutional twitter accounts), as shown in the next figures, reaching approximately 1500 users.



Figure 22: Dissemination of the first SURVANT newsletter through the project Twitter account

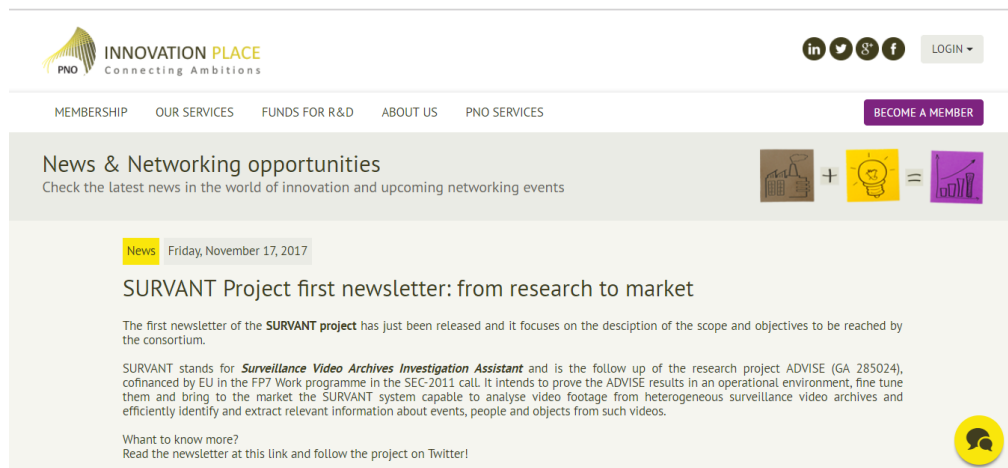


Figure 23: Dissemination of the first SURVANT newsletter through institutional website (Innovation Place group)



Figure 24: Dissemination of the first SURVANT newsletter through partners institutional website

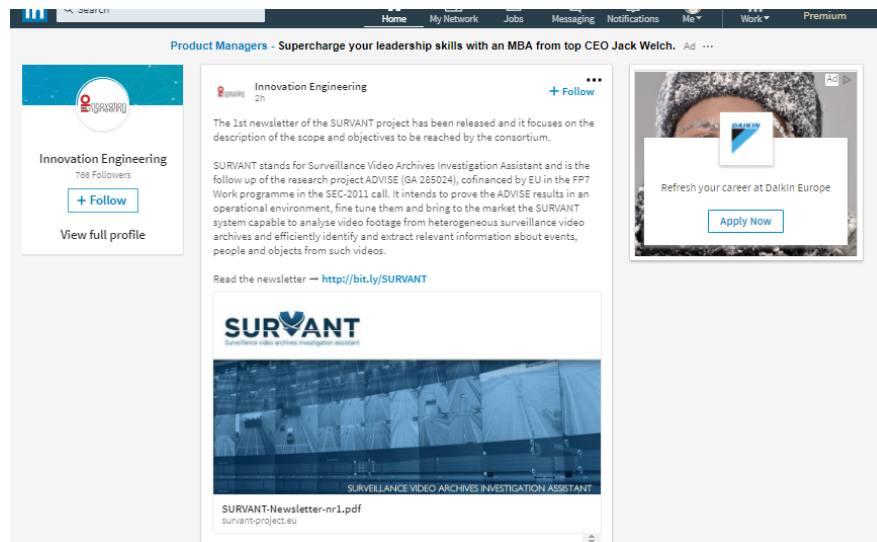


Figure 25: Dissemination of the first SURVANT newsletter through LinkedIn

The project realised an online video in order to create awareness around the SURVANT system as well as a demo video. They were realised in the second period of the project, when the system was more mature.

They are available from the dissemination section of the SURVANT website.

3.2 Dissemination actions in conferences, fairs and exhibitions

3.2.1 Conferences, Fairs and Exhibitions participation

During the first year, the Madrid police participated to the **39th Capital Policing Europe (CPE)**, on 22-23

During the second period, the SURVANT partners attended the following conferences, fairs and exhibitions:

September 2017.

- Partner ADM participated to the **40th CPE (Capitol Police Europe conference)**, Dublin, 3-5 May 2018.
- Partner UTRC participated to **IFSEC 2018**, in London, on 18-20 June 2018.
- partner ENG participated to the **Home Security - Congress and Exhibition on Security, Anti-theft, Burglar alarm, Video surveillance**, in Verona, on 18 October 2018.
- partner ADM participated to the **International Security, safety and Fire exhibition**, Madrid, 20-23 February 2018.
- The whole consortium participated to the **Security Research Event** in Brussels, 5-6 December 2018.

Moreover, after the end of the project, ENG, INNEN and CERTH are planning to participate to the **second DANTE Workshop and Exhibition**, to be held in Rome, on **February 2019**.

3.2.2 Project workshops at conferences

During the first year of life, SURVANT organised two workshops during two main conferences in collaboration with other projects related to security issues, as hereafter illustrated:

- **AVSS2017**, the 14th IEEE International Conference on Advanced Video and Signal based Surveillance. Workshop entitled “Analysis of video and audio “in the Wild” Addressing real-world data sources to support the fight against crime and terrorism” organized jointly by **ASGARD**, **DANTE**, **FORENSOR** and SURVANT H2020 projects, 29 August – 1 September 2017, in Lecce, Italy. <http://avss2017.vcl.it/it/gr/>
- The 23rd **ICE/IEEE ITM conference**. Special Session entitled “Fighting Against Crime Using Video Analysis”, organized jointly by SURVANT and **ASGARD** H2020 projects, 27-29 June 2017, in Madeira Island, Portugal. <http://dev.ice-conference.org/Home/Special-Sessions.aspx>.

3.2.2.1 AVSS2017 Conference

A Workshop, entitled “Analysis of video and audio “in the Wild” Addressing real-world data sources to support the fight against crime and terrorism”, was organised jointly by ASGARD, DANTE, FORENSOR and SURVANT H2020 projects within the 14th IEEE International Conference on Advanced Video and Signal based Surveillance, 29 August – 1 September 2017, in Lecce, Italy. The SURVANT partners organising the event was CErTH, that presented the project to an audience of about 30 attendees from the scientific community.

The workshop focused on the investigation of novel approaches for analysis of video and audio to support the security forces in the process of crime solving and prevention targeting real-world challenging data sources. The goal was to present revisited and novel algorithms that show resilience when applied to challenging real content from CCTV, hard drives or online resources (e.g. YouTube). Only papers describing related techniques with solid evidence of the use and validation in video and audio “in the Wild” were presented. The objective was to draw researcher’s attention to emerging strategies that are robust against the real challenges to be addressed when technologies developed in a laboratory environment are deployed in practice. To this end each accepted paper were presented with the opportunity to showcase their approach via a practical demonstration of how it could be used in practice during a dedicated demo session organized as part of the workshop.

Papers to be presented in the workshop covered topics related to:

- robust video processing algorithms for face detection, object detection, logo detection;
- object and human tracking, person re-identification;
- video pre-processing, stabilization, colour enhancement;
- action recognition, behaviour analysis and learning;
- biometric analysis (soft biometrics such as gait/gesture, clothes, face/skin colour);
- indexing and query optimization for very large multimedia collections;
- benchmarking, introduction of new experimental datasets derived from real CCTV footage;

3.2.2.2 The 23rd ICE/IEEE ITM conference

A Special Session, entitled “Fighting Against Crime Using Video Analysis”, was organised jointly by SURVANT and ASGARD H2020 projects within the 23rd ICE/IEEE ITM conference, 27-29 June 2017, in Madeira Island, Portugal. The SURVANT partners organising the event was CErTH, that presented the project to an audience of about 50 attendees from the scientific community

The workshop focus was the same of the AVSS2017 workshop.

Target Attendees: Academia and Industry

8 papers were submitted and the following 4 were accepted and presented in the conference:

1. Ontology-based Forensic Event Detection Using Inference Rules, by Faranak Sobhani and Ebroul Izquierdo
2. Affective State Aware Biometric Recognition, by A. Drosou, D. Giakoumis and D. Tzovaras

3. A Low-Power Smart Camera for Video Surveillance and Forensic Applications, by M. Lecca, Y. Zou, S.S. Zurriaga, J.L.D. Orozco, and M. Gottardi
4. Incorporation of Semantic Segmentation Information in Deep Hashing Techniques for Image Retrieval, by Konstantinos Gkountakos, Theodoros Semertzidis, Georgios Th. Papadopoulos and Petros Daras

Venue, duration, attendees:

The Special Session took place in Funchal, Madeira Island, on Tuesday 27/6/2017, 11:00-12:25. A total number of 20 participants of the ICE conference attended the session.



Figure 26: Opening of the “Fighting Against Crime Using Video Analysis” Special Session within the 23rd ICE/IEEE

Presentations			
Time	Title	Authors	Room
11:00 12:25	Special Session 1.2 (SS1.2): <i>Fighting against crime using video analysis</i>		BERLIN
	SESSION CHAIR: DR. PETROS DARAS (CERTH, GREECE)	SESSION CO-CHAIR: NOEL O'CONNOR (DCU, IRELAND)	
11:05 11:25	ID 250 - ONTOLOGY-BASED FORENSIC EVENT DETECTION USING INFERENCE RULES	SOBHANI, FARANAK; IZQUIERDO, PROF. EIROUL	
11:25 11:45	ID 252 - AFFECTIVE STATE AWARE BIOMETRIC RECOGNITION	DROSOU, ANASTASIOS; GIARDOLIS, DIMITRIOS; TZOVARAS, DIMITRIOS	
11:45 12:05	ID 257 - A LOW-POWER SMART CAMERA FOR VIDEO SURVEILLANCE AND FORENSIC APPLICATIONS	LECCA, M; ZOU, Y; ZURRIAGA, S.S.; OROZCO, J.L.D; GOTTARDI, MASSIMO	
12:05 12:25	ID 258 - INCORPORATION OF SEMANTIC SEGMENTATION INFORMATION IN DEEP HASHING TECHNIQUES FOR IMAGE RETRIEVAL	GKOUNTAKOS, KONSTANTINOS; SEMERTZIDIS, THEODOROS; PAPADOPOULOS, GEORGIOS; DARAS, PETROS	

Figure 27: List of Oral presentations of the Special Session



Figure 28: Dr. Petros Daras, Chair of the Special Session and Technical Manager of SURVANT, opening the event



Figure 29: Dr. Petros Daras, Technical Manager of SURVANT, presenting the SURVANT project

3.2.3 The Security Research Event (SRE) in Brussels

SURVANT was one of the projects invited to the SRE 2018. The SRE 2018 is the annual meeting where industry, governments and knowledge institutions come together to discuss the state of play and current challenges for security research in Europe, and where EU funded security-related projects are displayed in a large exhibition area. The Security Research Event, which was held at the Square Meeting Centre 1, on 5th and 6th of December 2018, aimed at highlighting the role of security research to foster the implementation of EU Policies and address crucial societal challenges, demonstrating the strength and inspiring results of security related research and innovation activities, under the theme “Making Europe a safer place – demonstrating the impact of EU-funded security research”.



Figure 30: SURVANT exhibition booth at the SRE 2018

This exhibition was particularly significant for the SURVANT project, having the opportunity of exhibiting the SURVANT system through a stand. Its innovative technologies were discussed in front of 800 participants representing a wide range of security stakeholders. The project was also included in the VIP Tour and was the first booth to be visited by Norbert Hofer the Minister for Transport, Innovation and Technology as an example of using successfully the Fast Track to Innovation funds. Many stakeholders was interested in the SURVANT system and were glad to join the SURVANT booth.



Figure 31: The VIP Tour at the SRE 2018

3.2.4 Papers submission at conferences

- CERTH: 'Abnormal Behavior Detection in Crowded Scenes Using Density Heatmaps and Optical

During the second period, project partners submitted the following papers:

Flow', paper accepted at **Eusipco 2018** in Rome 3-7 on September.

- CERTH: 'Adaptive Tobit Kalman-based tracking', by Kostas Loumponias, Anastasios Dimou, Nicholas Vretos, Petros Daras, paper accepted at **SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS**, on 26-29 November 2018 in Las Palmas de Gran Canaria, Spain. During the first period, this paper was presented also in another conference, though, was not accepted.
- UTRC: 'Object detection at 200 Frames Per Seconds', Rakesh Mehta, Cemal Ozturk, was submitted at **ECCV-Workshop 2018**.
- UTRC submitted the paper 'Graph based Trajectory Mining', Nauman Shahid, Francesco Grassi, to **IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)**, from 12th to 17th May 2019 in Brighton, UK. The acceptance of this conference is planned for **February 2019**.

3.3 Press releases at newspapers

During the first project period, one press release was presented at the Greek news <http://www.voria.gr/article/survant-erevnitiko-ergo-stin-ipiresia-tou-nomou-ke-tis-taxis>.



Figure 32: Press release was presented at the Greek news VORIA

Moreover, the SURVANT project was mentioned in an interview with the Italian national newspaper ANSA for the innovative companies involved in "Industry 4.0" on 20 November 2017.

During the second period, the project was also mentioned on the DG Research website, under the category "success stories": <https://ec.europa.eu/programmes/horizon2020/en/newsroom/achievements/>
https://ec.europa.eu/research/infocentre/success_stories_en.cfm.

3.4 Journals

During the first period, UTRC submitted a paper to a scientific journal called Pattern Recognition Letter <https://www.journals.elsevier.com/pattern-recognition-letters/> describing the object detection method

During the second period, two publications were accepted:

developed in SURVANT.

- CETH: Dimou, D. Ataloglou, K. Dimitropoulos, F. Alvarez, P. Daras, "LDS-Inspired Residual Networks" Accepted in **IEEE Transactions on Circuits and Systems for Video Technology** (TCSVT),
- UTRC: Rakesh Mehta and Jaume Amore, "Improving detection speed in video by exploiting frame correlation", **Pattern recognition letters-2018**.

3.5 Linking/Interactions with other projects

The main purpose of establishing relationships with other initiatives was to create synergies among SURVANT and other projects in order to increase the impact of SURVANT project and at the same time improving the effectiveness of the carried-out activities and supporting projects cross-fertilisation, by sharing lessons learnt and solutions adopted against similar faced challenges.

In order to properly achieve such objective and identify and contact relevant projects, a methodology has been defined since the beginning of the project to draw a path to be followed in searching and contacting projects and to create useful means to be used in this activity. In particular the methodology adopted was constituted by the three following steps:

- Identifying relevant projects in the security and forensics sectors to be contacted;
- Proposing a collaboration to the identified projects;
- Following up the collaboration proposal and establishing synergies.

3.5.1 Dissemination synergies with sister projects

The link exchange was the first step of the collaboration established with European projects in the security field. It aimed at starting the publication of stable information about the project and at providing at the same time the interested users with a mean to reach the projects' website.

A dedicated page in the project website lists all sister projects exchanging their web site link with SURVANT.

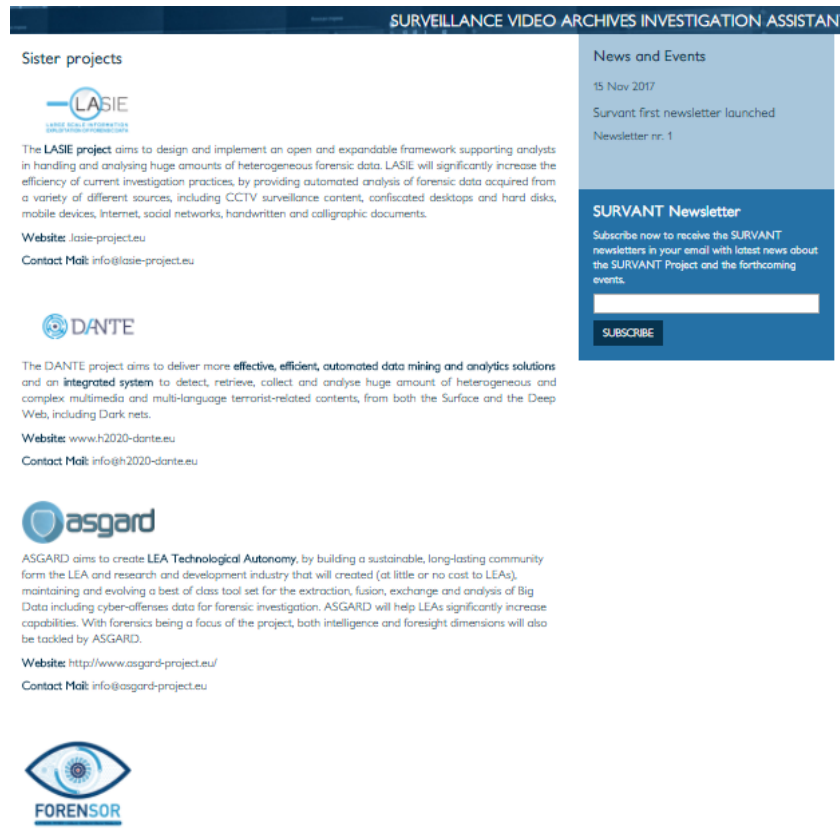



Figure 33: SURVANT sister projects page

Moreover, as illustrated in section 2.8, during the first period, SURVANT organised two workshops in collaboration with ASGARD, DANTE and FORENSOR EU projects.

In addition, SURVANT was invited to the EU project LASIE workshop in Turin (Italy) on the 28th of September 2017, to actively attend a roundtable of end users, ethics scientists and sister projects dealing with security and digital evidence, in order to stimulate fruitful discussions around these topics from the diverse perspectives: the end users', the ethics scientists and the technological' ones. SURVANT was represented by the project coordinator (ENG).

During the second period, SURVANT co-organized a workshop with some of the sister projects. More details are illustrated in section 2.13.

Hereafter the list of cited EU projects is shown.

#	Project logo	Project Acronym	Description	Link to the website
1		LASIE	The LASIE project aims to design and implement an open and expandable framework supporting analysts in handling and analyzing huge amounts of heterogeneous forensic data. LASIE will significantly increase the efficiency of current investigation practices, by providing	www.lasie-project.eu

			automated analysis of forensic data acquired from a variety of different sources, including CCTV surveillance content, confiscated desktops and hard disks, mobile devices, Internet, social networks, handwritten and calligraphic documents.	
2		DANTE	The DANTE project aims to deliver more effective, efficient, automated data mining and analytics solutions and an integrated system to detect, retrieve, collect and analyze huge amount of heterogeneous and complex multimedia and multi-language terrorist-related contents, from both the Surface and the Deep Web, including Dark nets.	www.h2020-dante.eu
3		ASGARD	ASGARD aims to create LEA Technological Autonomy, by building a sustainable, long-lasting community from the LEA and research and development industry that will created (at little or no cost to LEAs), maintaining and evolving a best of class tool set for the extraction, fusion, exchange and analysis of Big Data including cyber-offenses data for forensic investigation. ASGARD will help LEAs significantly increase capabilities. With forensics being a focus of the project, both intelligence and foresight dimensions will also be tackled by ASGARD.	http://www.asgard-project.eu/
4		FORENSOR	The FORENSOR project aims to develop a novel, ultra-low-power, intelligent, miniaturized, low-cost, wireless, autonomous sensor ("FORENSOR") for evidence gathering. The combination of built-in intelligence with ultra-low power consumption will make this device a true breakthrough for combating crime.	http://forensor-project.eu

Table 1 SURVANT sister projects

3.6 SURVANT workshops and training session

During its life time, the SURVANT consortium organised three workshops, as follow:

- the **Madrid workshop** including a training session, on April 2018;
- the **Lisbon Workshop and Exhibition**, on November 2018, INNEN co-organised with the sister project DANTE;
- the **Rome workshop** “*Tecnologie Informatiche per la protezione delle Infrastrutture Critiche*” organized by partner INNEN in collaboration with the Centro Studi Internazionali (Ce.S.I.), on December 2018.

3.6.1 SURVANT first workshop in Madrid

On the 24th of April 2018, the SURVANT consortium organized its **first project workshop in Madrid** focusing on visual surveillance, targeting many project end-users. Hosted by the *Police Academy of the Policia Municipal de Madrid*, the main purposes of the workshop were to disseminate, exploit and promote the SURVANT project as an opportunity to help law enforcement practitioners in their daily work against criminality.

Over 35 police officers were involved in the training. They were glad to experience this tool and evaluated very positively the activity run in the framework of the SURVANT project.

Time	Topic	Responsible partner
9:30 ⇒ 10:00	Project overview	ENG
10:00 ⇒ 11:00	SURVANT demo and use cases	ENG
11:00 ⇒ 11:15	Coffee break	
11:15 ⇒ 12:30	Training session	ADM, Guardia Civil, Policia National
12:30 ⇒ 13:00	Assessment phase	CTECH
13:00 ⇒ 14:00	Lunch	
14:00 ⇒ 15:30	Workshop wrap up and next steps	ALL

Table 2 First SURVANT workshop agenda

3.6.1.1 SURVANT training

During the afternoon, the partners implemented a training session where police officers had the opportunity to test the advanced features for video surveillance analysis of the preliminary version of the SURVANT platform. The SURVANT team showed to participants the platform potential to enhance their competences and abilities in analyzing video footage from surveillance video archives, by detecting specific behaviour suspicious patterns and enabling searches for specific events, people and objects.

The training session was also the occasion for gathering the feedback of the participants through direct talks with them, further formalised in an assessment with the support of a questionnaire that has been developed by the SURVANT consortium specifically for this event. **Details on the SURVANT system evaluation are included in D5.4.**

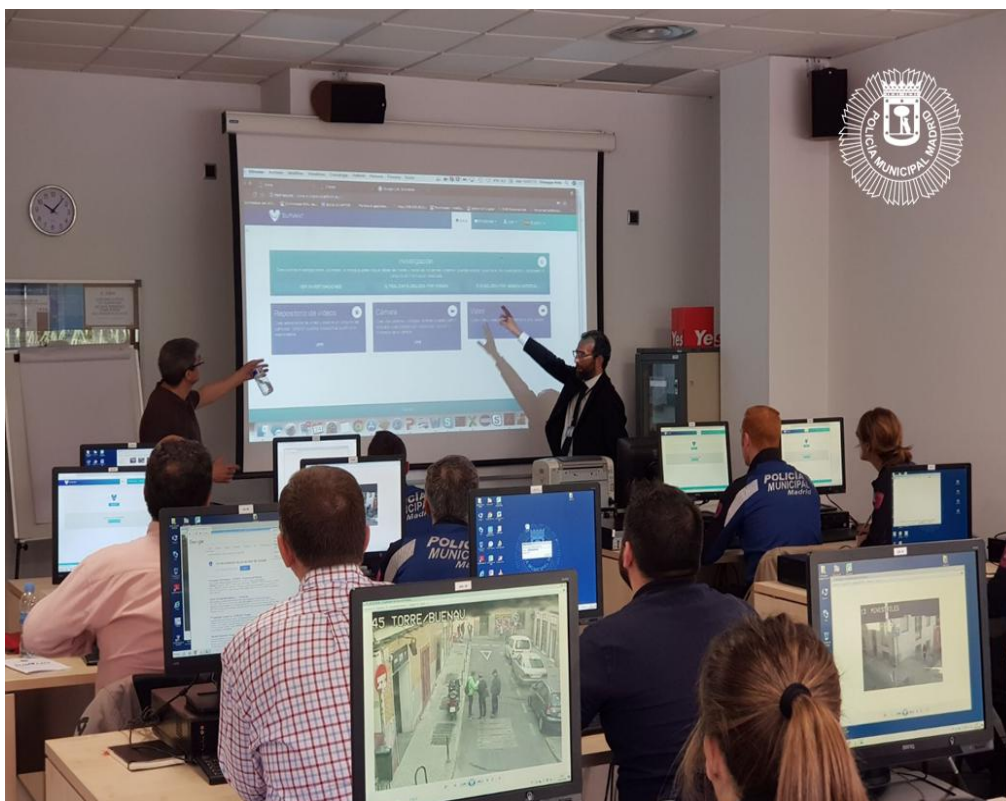


Figure 34: SURVANT training session

3.6.2 SURVANT second workshop in Lisbon

SURVANT and the DANTE project co-organized a **workshop in Lisbon** (at PJ headquarters) on 21st of November 2018, to discuss about homeland security with other seven EU Horizon2020 projects in the security domain, law enforcement agencies, European Commission representatives, industries and researchers. The event included a demo of the SURVANT system showing how much SURVANT supports law enforcement practitioners in their day by day work of fighting against crime and terrorism. **The workshop was a great success**, an opportunity to have seven EU projects all together discussing around a so critical problem from different angles, applying different and complementary solutions.

Time	Task	Leader
09:00 → 09:20	Welcome and Agenda presentation	PJ, ENG
09.20 – 09:40	DANTE project	ENG
09:40 – 10:00	TENSOR project	CERTH
10:00 – 10:20	SURVANT project	ENG
10:20 – 10:40	Red Alert project	SIVICO
10:40 – 11:00	ANITA project	ENG
11:00 → 11:30	Coffee break	
11:30 – 11:50	I-LEAD project	POLITIE

11.50 – 12.10	ILEAnet	French Ministry of Interior
12.10 – 12.30	ASGARD	PJ
12.30 – 13:00	Ideological radicalization: pending & emerging threats	Detective Super Intendent, João Paulo, PJ
13:00 → 14:00	Lunch break	
14:00 → 14.30	Terrorist Use of the Internet	Amanda Leisoo, FBI
14:30 → 15.30	DANTE demo	ENG, CERTH, AIT
15:30 – 16:30	TENSOR demo	CERTH
16:30 → 17:00	Coffee break	
17:00 – 17:30	SURVANT demo	ENG
17:30	End of the workshop	

Table 3 SURVANT second workshop agenda

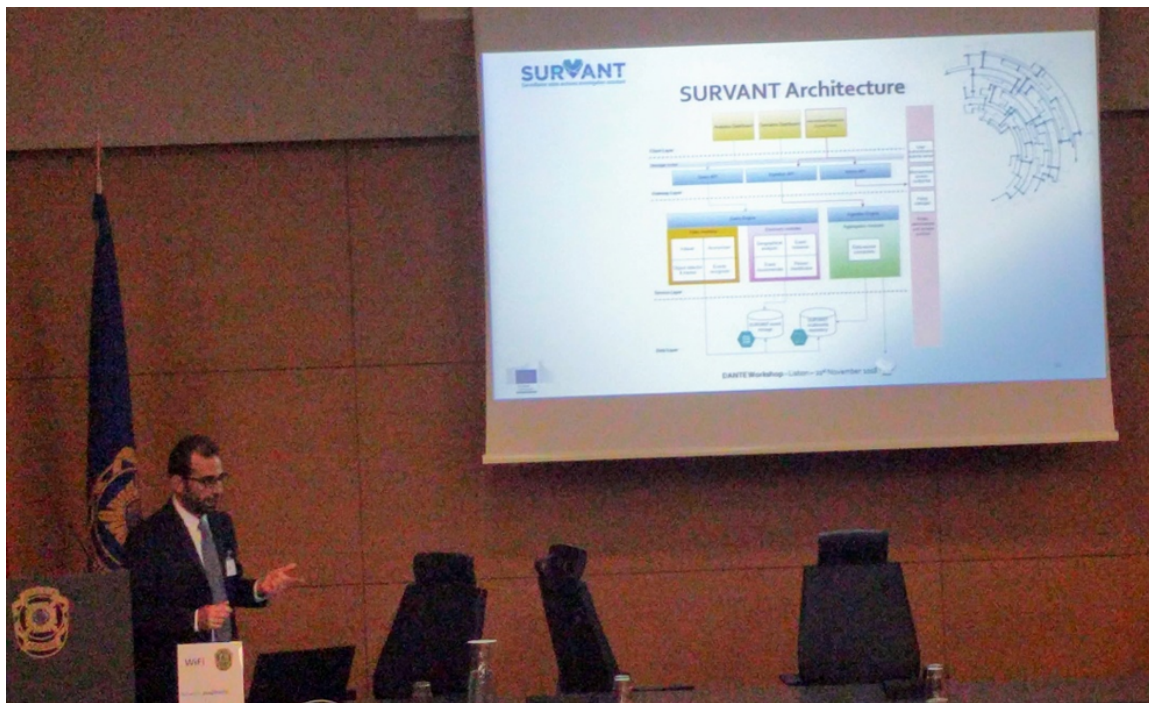


Figure 35: The Lisbon Workshop and Exhibition

3.6.3 SURVANT third workshop in Rome

In collaboration with Centro Studi Internazionali (C.e.S.I.), project partner Innovation Engineering organized the workshop “Tecnologie Informatiche per la protezione delle Infrastrutture Critiche”, which was held last December 10th 2018 in Rome. The event, focused on the protection of critical infrastructures with the

support of the SURVANT (and its sister project DANTE) system, aimed to reach potential customers. Stakeholders such as the Italian Police in the person of Dr. Ivano Gabrielli (Vice Questore Polizia di Stato), A.I.PRO.S. (Associazione Italiana Professionisti della Sicurezza), AISSEC (Associazione Italiana per lo Studio dei Sistemi Economici Comparati) and some local companies specialised in security attended the workshop and demonstrated a great interest in the SURVANT system. During the next months, INNEN will initiate a commercial strategy with those stakeholders to try to conclude some commercial agreements.



Figure 36: Tecnologie Informatiche per la protezione delle Infrastrutture Critiche – Workshop invitation



Figure 37: Third SURVANT workshop

3.7 Other dissemination actions

- Promotion of Innovation Culture in the Higher Education in Jordan: on 9th of March 2017, the R&S lab of ENG hosted in Palermo (Italy) a delegation of 10 researchers from the University of Jordan

interested in technology and innovation transfer, search management, and start-up support, showing them the project objectives as part of the whole security implementation strategy.

- Tilburg Business School visits ENGINEERING: on 18th of May 2017, about 50 students of the International MBA of the Tilburg Business School (Holland) visited the R&S lab of ENG in order to discover their Service innovation and Multi-sided platform business models and the ongoing security projects.

4 Conclusions

The SURVANT dissemination activity during the 2 years project was focused on creating awareness around the project in order to create interest in potential customers (i.e. end-users involved in the fight against crime such as Law Enforcement Authorities, security organizations and counter terrorism agencies; industries active in security), to share knowledge with the scientific community and to create added value to the EU members states target groups.

To this end, some dissemination material, including graphic identity of the project, brochures and posters for the project dissemination at events and with target groups were prepared, published and distributed to project stakeholders.

The public website was developed and published at the address <http://www.survant-project.eu/> within month 3 (as planned in the DOA). The website contains updated information about the project scope, aims and benefits; the project documentation; the SURVANT e-Newsletter; the link to the project sisters and information about project progress and other news of interest related to the security topic.

The access to the website in terms of users has been quintuplicated while pages views tripled during the second project year, showing an increasing interest of target users during the project life time, due to the **dissemination activities that created more and more awareness around the SURVANT system**. The SURVANT platform of smart video surveillance supporting the investigators to discover suspicious criminal event was in fact shown in several events to end-users, researchers, industry representatives, public security providers and practitioners (i.e. fire departments, police, border guards, intelligence agencies, etc.), as well as a wide number of policymakers from across Europe.

Therefore, in line with planned project KPIs (2 workshops, 4 International Conferences, 6 Fairs and Exhibitions, 3 Articles), the following dissemination activities were carried out by partners:

- two workshops at international conferences have been organized in conjunction with sister projects;
- three project workshops (including one co-organized with sister projects) and one training session have been arranged targeting end-users;
- four peer-reviewed papers have been accepted at international conferences;
- three peer-reviewed papers have been accepted at international journals;
- SURVANT was show cased through a stand at the SRE conference in Brussels;
- project partners attended six international events, including conferences, fairs and exhibitions to promote the SURVANT system in order to attract potential customers to appreciate the system effectiveness and efficiency;
- the project was promoted to extra-European countries and scientific communities with specific actions, in particular by the project coordinator;
- updated communication material (brochures, posters, rollup) and newsletters have been published on the SURVANT Project website and also shared with the project partners and stakeholders through project and partners channels, to promote the final SURVANT system;
- a project video has been published in order to create awareness around SURVANT on the project website, in the project website dissemination page.

Even after the end of the project, partners will continue promoting SURVANT in sister projects events, fairs and exhibitions in order to continue to keep the interests of the scientific community and of the potential SURVANT system customers. For instance, SURVANT will attend the **second DANTE Workshop and Exhibition**, to be held in Rome, on **February 2019**.