

PROJECT FINAL REPORT

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Project acronym: SecureCHAINS

Project title: Integration of Security Technology Supply Chains and Identification of weaknesses and untapped potential

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Name, title and organisation of the scientific representative of the project's coordinator:

Mr. Miguel Sousa

Inovamais – Serviços de Consultadoria em Inovação Tecnológica S.A.

Tel: +351 229 396 350

Fax: +351 229 396 351

E-mail: miguel.sousa@inovamais.pt

Project website address: www.securechains.eu

4.1 Final publishable summary report

EXECUTIVE SUMMARY

SecureCHAINS Project - Integration of Security Technology Supply Chains and Identification of weaknesses and untapped potential aims to actively involve researchers, SMEs, government institutions, major companies and big industrial enterprises to look at technologies capable of tackling a number of major topics in the field of security in Europe, such as: Security of citizens; Security of infrastructures and utilities; Intelligent surveillance and border security; Restoring security and safety in case of crisis.

The SecureCHAINS project has as a main mission to contribute to a more competitive STSC. To reach this, the project's consortium cooperated with the industry to gain a better understanding of the nature and structure of the STSC from prime contractors to subcontractors coming from the various tiers of the supply chains. The SecureCHAINS project identified and evaluated the potential of all the layers and associated actors involved on the STSC and tried to enable the actors' to get access to the identified main stakeholders and integrators. This approach covered both civil security and defence technologies in an integrated approach in order to understand to what extent the two sectors overlap and how the experience from the defence market can be transferred into the security market and vice-versa. Therefore, this project aimed for the definition, adoption, testing and validation of a methodology able to help the European Organisations to obtain a higher integration within the STSC.

The SecureCHAINS project had the following six main objectives: Identify Supply Chains and Stakeholders; Detect untapped potential that can be integrated in the European STSC; Engage innovative low tier suppliers in the STSC; Contribute to the building of R&D competences in STSC; Develop awareness building activities in Security related RTD topics; Promote and facilitate a communication platform/website and open dialogue in the fields related to Security Technology management, regulation, policy and forecasting.

This project had duration of 24 months and was implemented by consortium with proven experience in the field, including partner organisations that come from large companies, leading research institutes and experienced SME and business support organisations, which all already have the experience of working together. In the last 2 years the main measurable results were to:

- **Raise awareness among 2500 SMEs, large companies, Research Technology Offices (RTOs) and other STSC stakeholders about EU RTD funding** programmes and promoting co-operation, exchange of information and networking among them;
- Develop a technology screening activity at European level **to identify weak spots in the security supply chains.**
- Develop **9 technology trees** in order to exemplify main actors in important Supply Chain Technologies.
- **Identify problems that inhibit the participation of SMEs in European RTD activities.** A report identifying the barriers and also the main needs regarding the participation of SMEs in European Security related research;

- **Interview and perform on-site visits of 120 SMEs and RTOs** that have expressed an interest in the Security Research activities during the awareness raising activities. Through these interviews and on-site visits, the consortium partners collected information on the SMEs research capabilities and their expressed technology acquisition needs.
- **Organisation of 3 communication exchange fora at European Security related events** (Germany, United Kingdom and Poland) with the purpose of: Fostering discussions and communication on security research progress between academic research, industry, Security associations and other STSC key stakeholders; Promoting RTD project generation and dialogue between experienced proposers and newcomers.
- **Screening the best of 20 new RTD proposal** ideas from the on-site visits, RTDs results, synergies with other running FP7 initiatives and from the consortium members.
- Provide guidance and technical assistance to STSC actors, especially SMEs, so they are able to put successful proposals to FP7, CIP as well as, other existing European RTD funding programmes. In total, **22 new RTD project proposals were submitted** with the support of the SecureCHAINS consortium. **Involving 35 SMEs in EU RTD activities** (ongoing RTD activities or new proposals).
- Creating a **communication platform/website/database of Security actors and stakeholders** that will allow the exchange of information and facilitate networking among major STSC stakeholders (e.g. government institutions, major companies and big industrial enterprises and SMEs) and this way contribute to a more combined effort among them and to contribute to a more competitive European STSC.

SUMMARY DESCRIPTION OF PROJECT CONTEXT AND OBJECTIVES

Security is one of the highest goods of mankind for which it is worth to make available the most advanced technologies. This achievement is a great challenge due to the diversity of technologies applied for security and the tremendous resources available to provide for it all over Europe.

The Security sector is widely recognised as a key asset for the future of Europe and World. Security is a concern for everyone. New ideas and developments are needed to improve the research capabilities of the actors involved and to improve the security of European citizens in general. Nevertheless, Security is also by common standards a very unusual business requiring specific rules, namely: it works on very long lead times, requires huge capital sums for developing its products and research and also requires a strong relation between all the organisations involved in the area.

Europe needs to invest in Security targeting the industrial and research communities in order to address today's and future challenges in this specific sector, especially with respect to society and its political, demographic, social and economical evolutions. Therefore, it's essential to build and maintain a highly competitive environment and this is only possible if the full integration of business processes across enterprises [involving key suppliers, usually Small and Medium Enterprises (SME)] throughout the entire supply chain is achieved.

Security Technology Supply Chains (STSC) typically include SMEs as niche suppliers of particular materials, products or services, which lie outside the scope of the major prime contractors. However, in some equipment sectors, SMEs enjoy a greater degree of success, mainly because there are immediate capability gaps and operational requirements lying outside the mainstream activities of the major contractors (the scale of procurement is more limited). An important characteristic in these cases is a greater emphasis on short-term procurement. These are situations where the flexibility and responsiveness of SMEs is a major strength.

In this sense, some factors affecting the quality and effectiveness of European STSC are the identification, stimulation, nurturing and exploitation of invention and innovation of the intellectual and technological capabilities available in Europe, some of which are available in SMEs, - Research Technology Offices (RTO) and/or Universities.

Major stakeholders in the security market – government institutions, major companies and big industrial enterprises – need to make a combined effort to identify, cooperate and improve means of engagement with innovative SMEs and their capabilities.

Considering this context, SecureCHAINS project **aims to actively involve researchers, SMEs, government institutions, major companies and big industrial enterprises to look at technologies capable of tackling a number of major topics in the field of security in Europe**, such as:

- Security of citizens;
- Security of infrastructures and utilities;
- Intelligent surveillance and border security;
- Restoring security and safety in case of crisis.

The SecureCHAINS project has as main mission to contribute to a more competitive STSC, therefore the project has the following specific objectives:

- **Identification of Supply Chains and Stakeholders;**
- **Detection of untapped potential that can be integrated in the European STSC;**
- **Engagement of innovative low tier suppliers in the STSC;**
- **Contribution to the building of R&D competences in STSC;**
- **Development of awareness building activities in Security related RTD topics;**
- **Promotion of communication platform/website and open dialogue in the fields related to security technology management, regulation, policy and forecasting.**

To reach this, the project's consortium cooperated during the past 2 years with the industry to gain a better understanding of the nature and structure of the STSC from prime contractors to subcontractors coming from the various tiers of the supply chains.

The project consortium includes the following entities:

Beneficiary Number	Beneficiary name	Beneficiary short name	Country
1 (coordinator)	Inovamais - Servicos de Consultadoria em Inovacao Tecnologica S.A.	INOVA+	PT
2	Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung E.V	FRAUNHOFER	DE
3	Deutsche Post World Net Market Research and Innovation GmbH	DHL	DE
4	Innova spa.	INNOVA	IT
5	Sollerta Ltd	SOLL	UK
6	Tecnalia	TECNALIA	SP
7	Mr. Juergen K. von der Lippe and Dr. Jean Cornier	VDLCONSULT	DE
8	Universitatea Din Craiova	UCV	RO
9	Alma Consulting Group Sas.	ALMA	FR
10	Technical Support for European	TESEO	BE

	Organisations sprl.		
11	Southeastern Europe Telecommunications & Informatics Research Institute	INA	GR

Table 1: SecureCHAINS consortium

The structure of the work plan defined for the SecureCHAINS project is presented in the following graph:

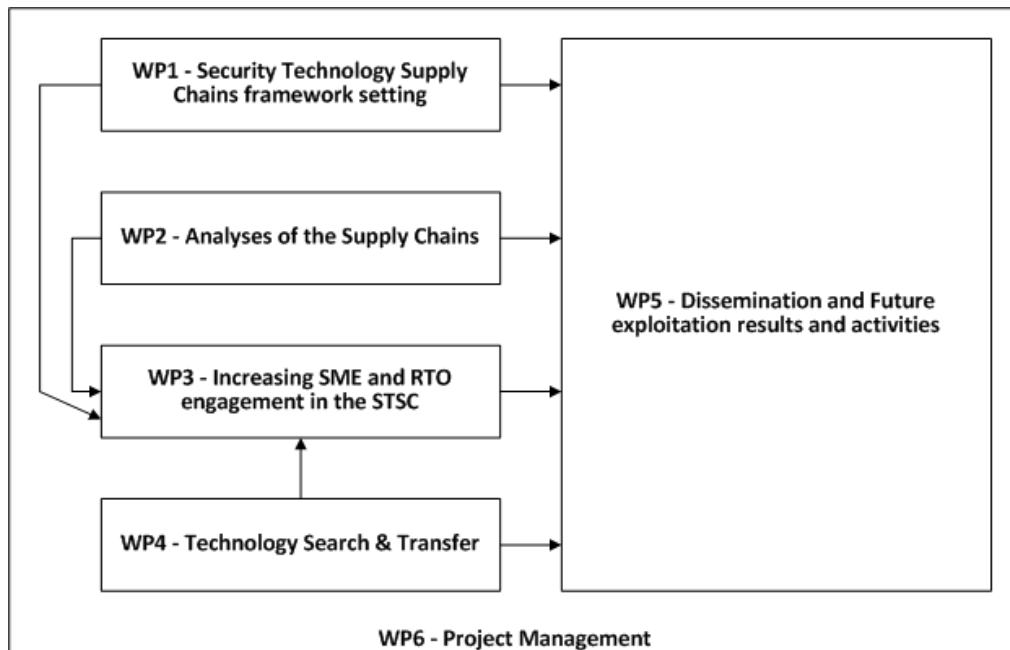


Figure 1 – WorkPlan Diagram

WP1 - Security Technology Supply Chains framework setting: The first activity within SecureCHAINS consisted in the setting of a framework for the STSC in order to support the search and collation of information relevant to the downstream work packages in the project.

WP2 - Analyses of the Supply Chains: This WP led a technology screening to identify weak spots in the supply chains in order to establish a basis for the further activities. Other tasks under this WP were also: the identification and analysis of best practice studies of STSC management practices; the work will include studies of best practice across industries, which could provide the basis for the other work packages; an analysis of the PASR¹ projects will be made in terms of impact and reached objectives. In order to involve the SMEs in new projects we will target ongoing initiatives and disseminate that information among the SME; The production of technology trees in order to identify the main actors on the Supply Chain; The analysis of the mechanisms adopted by the European Defence Agency and Member States Defence Organisations (where available) and produce a report on how we can apply the best practices of this mechanism in the security field. An identification of dual-use technologies and defence-related R&D mostly concentrated at national level will be performed; The

¹ Preparatory Action for Security Research

Reviewing of ongoing security research projects regarding their shortcomings of technologies. This activity will make use of taxonomy of technology as established in by the STACCATO project in order to ensure a systematic review of all elements of technology as well as products and services.

WP3 - Increasing SME engagement in the STSC: Through interviews and on-site visits, the project collected information on the SMEs research capabilities and their expressed technology acquisition needs, while preserving their intellectual property rights. Other tasks included the support to build, for each project idea, a coherent RTD proposal. This help was based especially in supporting partner searches and providing expert advice regarding proposal development (e.g. advice of project structure and mains aspects to consider and highlight).

WP4 - Technology Search & Transfer: Multiple measures were implemented to contact SMEs (fora at trade fairs, workshops, company visits, etc.). Based on previous experience, that security trade fairs are the most effective places to meet technology providers and users, a dialogue was initiated as a broker event. We therefore creates an information exchange forum at selected security trade fairs in Europe with the aim to interlink technology providers and users in the field of high-tech security, in order to fulfil the objective of involving the best intellectual and technological capabilities available throughout Europe in STSC.

WP5 - Dissemination of SecureCHAINS project's results and activities: This work package aimed at strengthen the networking relationships between R&D centres, industry and all STSC stakeholders with special emphasis on SMEs specific needs. All partners were involved in dissemination activities throughout the entire project duration to make the industry, the research society and the broad public aware of the SecureCHAINS project. The dissemination activities were also assured in other countries not covered by the consortium members with the objective of spreading the information widely and guaranteeing EU coverage.

A DESCRIPTION OF THE MAIN S&T RESULTS/FOREGROUNDS

The SecureCHAINS project was implemented along the following four main axes of activities:

1. To identify opportunities and weak spots in the supply chains;
2. To involve the best intellectual and technological capabilities available throughout Europe in the security technology supply chains;
3. To help organisations (SMEs, RTOs, Large Firms, etc.) to understand security related targets, mechanisms and opportunities;
4. To facilitate the organisations access to the main stakeholders and integrators, while protecting their intellectual property.

Hereunder is the activity flow figure for the SecureCHAINS project.

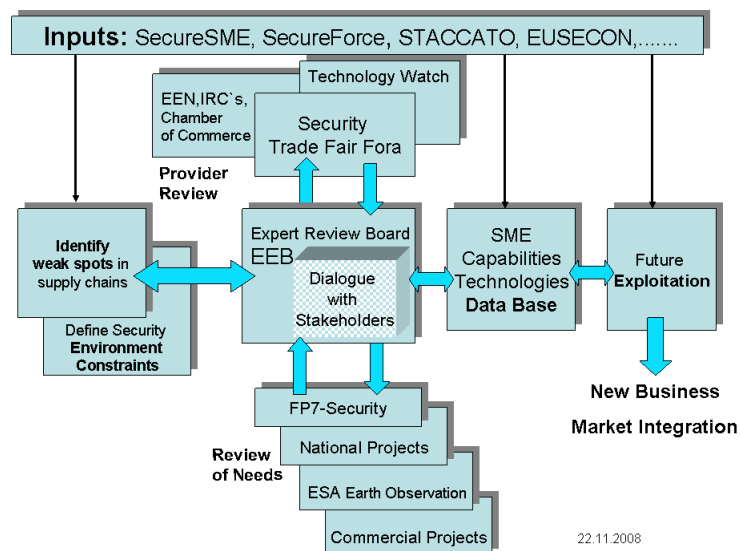


Figure 2 – SecureCHAINS Activity Flow

The SecureCHAINS project is undertaking the necessary steps to review the present status scrutinize available resources and promote a dialogue with the stakeholders and integrators of the security “big projects”:

- **Identification of Supply Chains and Stakeholders:**

Using the partners’ multiplying effect, an identification of appropriate organisations not yet involved or settled in the security (research) domain was made. The SecureCHAINS project is also helping the identified organisations to understand security related targets, mechanisms and opportunities and is facilitating their access to the main stakeholders and integrators of these technology supply chains

This identification was achieved through:

1. Work with key industrial partners (prime level contractors) to map technology trees for a range of security solutions, and the development of links with regional industry groups and associations;

2. Collaboration with SecureSME and Secure Force projects that have already targeted some of these players.

- **Identify weak Spots**

The initial step was a technology screening to identify weak spots in the supply chains, in order to establish a basis for the further activities and develop a security environment constraints' list. We also reviewed existing ongoing security research projects regarding their shortcoming of technologies. This activity made use of: Taxonomy of technology established in by the STACCATO project in order to ensure a systematic review of all elements of technology as well as products and services; Evaluate potential technologies regarding their economical aspect by making use of the data generated by the projects EUSECON and NEAT. Standardization requirements established will be considered. (CEN/ BTWG 161)

- **Review of Needs**

In order to generate the desired impact to the ongoing European security research scenario, a thorough review of the European projects at national and European level was implemented including potential private projects. In this sense, one of the aims of the SecureCHAINS

- **Implementation of awareness building activities information exchange fora:**

Multiple measures were implemented to contact SMEs (fora at trade fairs and optional workshops, company visits, etc.). Based on previous experience that security trade fairs are the most effective places to meet technology providers and users, a dialogue will be initiated.

This activity was implemented by strengthening the networking relationships between R&D centres, industry and all Security chain supply stakeholders with special emphasis on SMEs' specific needs.

All partners carried out dissemination activities throughout to make the industry, the research society and the broad public aware of the SecureCHAINS project.

This awareness was also achieved through the organisation of information exchange fora at selected security trade fairs in Europe with the aim to interlink technology providers and users in the field of high-tech security, in order to fulfil the objective of involving the best intellectual and technological capabilities available throughout Europe in STSC.

Under the SecureCHAINS project three information exchange fora at selected security trade fairs in Europe were implemented [Essen 2010 (GE) Security Fair; IFSEC 2011 (UK); SECUREX 2012 (POLAND)], in line with the integration with relevant ongoing initiatives (SecureSME, Secure Force, Effectsplus, Osmosis, etc.), and the dissemination through existing networks the partners belong to (VDLCONSULT, INOVA+, INNOVA Spa., TECNALIA, FRAUNHOFER, SOLLERTA, INA, etc.) and other relevant stakeholders like business associations, clusters and chambers of commerce.

In order to enable a most effective forum execution, an in-depth analysis of the most important European Security Fairs was performed with the aim to select the most efficient places for implementation, which is considered feasible within the given cost and timeframe of the project. Further dissemination actions also included: face to face meetings with

stakeholders, participation in events; Make use of the networks established by SecureSME and Secure Force projects for information distribution; Provide information to other projects coordinators through established dialogue.

Fora Activities

Objective

To make use of the opportunity to have security technology provider and security technology user available at a dedicated exhibition to join for:

- Exchange information regarding needs of security technology;
- Identify new technology provider with focus on SME's;
- Identify new technologies to fill weak spots in the supply chain.

Scope

Implementation of 3 fora at European trade fair locations selected out of 12 trade fairs with focus on security technology. In advance of the fora/exhibition, communicate with selected companies and visitors for information and proof of capabilities.

Scope of the technology fields focus on the needs of the defined missions: 1. Security of citizens; 2. Security of infrastructures and utilities; 3. Intelligent surveillance and border security; 4. Restoring security and safety in case of crisis.

Preparation

In advance of the fora the following steps were implemented:

- Selection of fora location through a trade off, by applying the following criteria:
 - Quality and quantity of trade fair regarding number of exhibitors and professional visitors.
 - Scope and focus of technology of the trade fair.
 - Type of exhibitors (SME's, research organizations, service provider, etc.)
 - Recommendation of local EEN and chamber of commerce.
 - Logistics regarding conference facilities.
- Contact local EEN for consultancy and potential support.
- Establish procedure and form sheets for communication exchange.
- Contact trade fair operator and arrange logistics.
- Sent out questionnaire to test interest in preparation of invitation.
- Prepare program agenda.
- Broad Communication and dissemination of the fora with contribution of the entire consortium.

Implementation

Invited experts (security technology provider and user) participating with the following program:

- Overview presentation of SecureCHAINS project;
- Presentation of Security funding opportunities (invited REA);
- Selected presentations on technology needs.
- Presentation by companies/exhibitors offering emerging technologies.

- **To engage innovative low tier suppliers in the STSC:**

SecureCHAINS project was also focused on integrating low tier suppliers (including SMEs, RTOs and Universities) in collective, secure and collaborative networks for shared work, visibility and planning, while protecting intellectual property and also fostering competition at the national level and across Member States. The project intends to contribute to boost the coordination and collaboration between low tier suppliers, major stakeholders and the organisations with untapped potential in order to have a more competitive market.

The contribution to this integration was achieved through:

1. An analysis of the initiatives European Defence Agency (EDA) and Member States Defence Organisations in promoting SME involvement in the Defence market and application of these frameworks to the security market (where this is feasible);
2. Establishing a dialogue with the main players of the European security programs on national and European level (public and private);
3. Developing a technology screening activity at European level to identify weak spots in the security supply chains. The initial step implemented was a technology screening activity to identify weak spots in the supply chains, in order to establish a basis for the further activities and develop a security environment constraints' list. We also made a review of existing ongoing security research projects regarding their shortcoming of technologies.
4. Assembling nine technology trees (5 general and 4 detailed) in order to identify the main actors on the Supply Chain and also to identify gaps and identification of the problems that inhibit the participation of SMEs in European RTD activities.

The objective is influencing behaviour in the supply chain to encourage the healthy competition at national level and across Europe.

- **Expert Evaluation Board (EEB)**

Since the evaluation and selection of technologies in the process of the dialogue between the SME`s and big projects is considered a critical point throughout the SecureCHAINS project, a dedicated “Expert Evaluation Board” (EEB) was established. The EEB covered the technologies and constraints required by the missions: Security of citizens; Security of infrastructures and utilities; intelligent surveillance and border security and Restoring security and safety in case of crisis.

- **Dialogues with Stakeholders**

The SecureCHAINS project also aimed at establish a dialogue with the main players of the European security programs on national and European level (public and private). The main channels of communication used were:

- Questionnaire for identifying needed technology within the selected projects.
- Reporting identifying available technology/companies from fora, workshops, interviews etc. to the selected projects.

A free Data Base and on-line free course “Get Ready for Security FP7” was created to serve as the basis for the further support activities to the European SME communities as well as to the various stakeholders.

- **To contribute to the building of R&D competences:**

In order to generate the desired impact to the ongoing European security research scenario, a thorough review of the European projects at national and European level was implemented, including the identification of private projects. This activity allowed the identification of new emerging technologies out of ongoing projects.

The project also identified project ideas for the submission of proposals in FP7 and putted together 21 consortia where SecureCHAINS was playing a key role in the partner search process and support in the development of the proposal. 35 SMEs were included in those proposals.

In synthesis we can refer that main measurable results were to:

- **Raise awareness among 2500 SMEs, large companies, Research Technology Offices (RTOs) and other STSC stakeholders about EU RTD funding** programmes and promoting co-operation, exchange of information and networking among them;
- Develop a technology screening activity at European level **to identify weak spots in the security supply chains.**
- Develop **9 technology trees** in order to exemplify main actors in important Supply Chain Technologies.
- **Identify problems that inhibit the participation of SMEs in European RTD activities.** A report identifying the barriers and also the main needs regarding the participation of SMEs in European Security related research;
- **Interview and perform on-site visits of 120 SMEs and RTOs** that have expressed an interest in the Security Research activities during the awareness raising activities. Through these interviews and on-site visits, the consortium partners collected information on the SMEs research capabilities and their expressed technology acquisition needs.
- **Organisation of 3 communication exchange fora at European Security related events** (Germany, United Kingdom and Poland) with the purpose of: Fostering discussions and communication on security research progress between academic research, industry, Security associations and other STSC key stakeholders; Promoting RTD project generation and dialogue between experienced proposers and newcomers.
- **Screening the best of 20 new RTD proposal** ideas from the on-site visits, RTDs results, synergies with other running FP7 initiatives and from the consortium members.
- Provide guidance and technical assistance to STSC actors, especially SMEs, so they are able to put successful proposals to FP7, CIP as well as, other existing European RTD funding programmes. In total, **22 new RTD project proposals were be submitted** with

the support of the SecureCHAINS consortium. **Involving 35 SMEs in EU RTD activities** (ongoing RTD activities or new proposals).

- Creating a **communication platform/website/database of Security actors and stakeholders** that will allow the exchange of information and facilitate networking among major STSC stakeholders (e.g. government institutions, major companies and big industrial enterprises and SMEs) and this way contribute to a more combined effort among them and to contribute to a more competitive European STSC.

Note: This small introduction to our findings are further developed and detailed in the final reports. These are available on the project website at: www.securechains.eu

THE POTENTIAL IMPACT AND THE MAIN DISSEMINATION ACTIVITIES AND EXPLOITATION OF RESULTS

In terms of expected impact, the SecureCHAINS project will contribute to the strategic objectives of the European Research Area, as it will:

- Address fragmentation in the STSC and capitalise on untapped potential and on existing RTD activities, capabilities and competencies.
- Promote the establishment of strong technological RTD links among the STSC actors.
- Promote a more solid technological foundation in Security related technologies as it will promote networking and exchanges among the European STSC (e.g. large companies, industry, SMEs and RTOs).

This project will help improve the EU's position in global security. According to the report entitled "Research for a Secure Europe", while Europe has world-class research institutes and a strong industrial base to address security requirements, the institutional and political levels do not always follow together. In this sense, one of the activities of this project was to organise exchange fora, promoting dialogue and overcoming the communication barriers between researchers, industry, and other actors. Such events offer the occasion for research partners to present the technological potential benefits and the commercial goals of their developments, as well as the social and environmental impacts. These events will facilitate an open dialogue in the fields related to Security related technology management, regulation, policy and forecasting.

The communication and dissemination activities under the SecureCHAINS Project have been grouped in two main categories: **co-operative and pure communication**; they differ by the expected outcomes: the former aimed at gathering key-information from experts and stakeholders while the latter being targeted to provide information about project proceedings and increase interest in additional stakeholders about the SecureCHAINS project.

Among co-operative activities the most important are the Workshops, the Security Fair Fora, the participation at Security Conferences and Events, three key-events have brought to the same table companies / exhibitors and experts (security technology provider and user) to share overview presentation regarding European security research projects, select presentations on technology needs and emerging technologies exchange information between demand and supply. On the other hand, the pure communication activities implemented was the website, the communication materials and the electronic newsletters as best representing what the project is about and its achieved results for the stakeholders and companies as well as the European Commission. The purpose of the SecureCHAINS dissemination strategy is twofold: raising awareness for the project and its tasks within the research community and towards public and private stakeholders, and encourage tier suppliers, major stakeholders and other organizations to promote and facilitate communications by setting up a common

platform/website and an open dialogue in the fields related to security technology management, regulation, policy, forecasting and all STSC.

The dissemination audience can be divided, according to the actions that were carried out in four different groups, and in relation to their activities.

The following table summarizes the various groups:

		Already involved in E.C. activities	Involved in other R&D programmes	Involved in Private R&D activities
Group 1	SMEs	SMEs already participating on any E.C. programme	SMEs participating in national research programmes	SMEs whose research is made independently of any funding programme by their own or through private joint ventures
Group 2	R&D Centres, Universities	Departments of Universities, and of research centers already involved in research or industrial activities funded by the E.C.	Departments of Universities, and of research centers already involved in research or industrial activities funded by national programmes	Departments of Universities, and of research centers who carry out research or industrial production by their own or in joint ventures not funded
Group 3	Enabling Organisations	European Commission, Policy Maker, Funding Bodies	National Research Programmes, National Research funding organizations	Business Angels, or similar associations
Group 4	Large Industrial Enterprises	Large companies already involved in European funded projects	Large companies involved in national Projects	Large companies with their own research programme and / or in joint venture

Table 2: SecureCHAINS Target groups

The various groups have been divided in accordance with their activities, and in particular whether related to European, national or private funding for their own activities. The diversification based on their activities allows the project to more easily find members of each single group, and consequently to address the information flow. In particular the messages addressed to the various group are reported in the following table:

	TARGETS	Communication flows		
		<i>Message to target</i>	<i>Added Value for the target</i>	<i>Feedback for SecureCHAINS</i>
Group 1	SMEs	Awareness of the project, possibility to join the community and to share findings, results and ideas	Joining the community and the SecureCHAINS research they will be able to enlarge their connections and to become part of potential consortia for future project proposals implementation	Gathering information on the STSC from the various point of views, individuating new potential technologies that could improve the STSC processes, or new ideas to increase the competitiveness of the STSC
Group 2	R&D Centres, Universities			
Group 3	Enabling Organisations	Keep the various entities informed about the trends, findings, and directions towards which the STSC actors are moving to	A better address their decisions, be aware of the weak spots individuated at single level, and/or at the whole level	Understanding the main issues that security is facing among its supply chain
Group 4	Large Companies	To be made aware of the SecureCHAINS activities, and of the members that joined the community, their research and their activities	Large companies will have the opportunity to individuate the activities and the research of SMEs and of R&D centers, and acquire or share their knowledge in order to build more productive actions	Understanding the gap existing among the STSC between the research conducted by companies of various entities

Table 3: SecureCHAINS information flow

The dissemination and awareness campaign has been carried out by producing dissemination material, communications and by spreading them to relevant stakeholders as been identified in table 2. The very first activity was the preparation of the preliminary dissemination plan in parallel to the preparation of the following material: Poster, PP Presentation Slides, Brochure (A4 triptychs front/back) and Press Releases. Regarding the communications and awareness creation: project Web Portal (www.securechains.eu), Project Web Forum (<http://securechains.forumattivi.com/index.htm>), release of 6 Electronic Newsletters, identification and participation at Security Events, Workshops and Conferences to disseminate the project and establishment of liaisons and collaborations with other projects.



Figure 3 – SecureCHAINS Web Portal

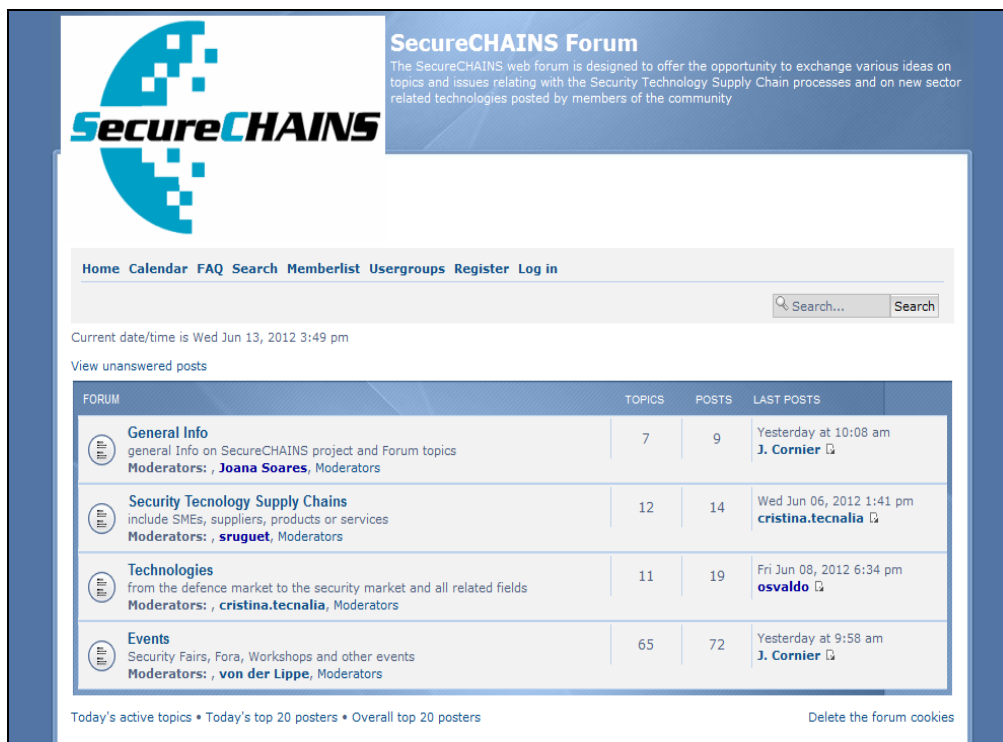


Figure 4 – SecureCHAINS Web Forum

As already mentioned, a crucial activity for the project was the organisation of three SecureCHAINS Fora:

- **1st SecureCHAINS Forum as part of Essen Security Innovation Symposium 2010, 4 – 5 October 2010**: as a first security fair the SECURITY ESSEN 2010 was selected for the first forum of the SecureCHAINS project. The forum had been integrated into a symposium of wider perspective (34 speakers from 13 countries), the “Essen Security Innovation Symposium 2010”. The event was divided in two different days:
 - *4th October 2010: “SecureCHAINS: SMEs access to European security research and development”;*
 - *5th October 2010: “SecureCHAINS, a dialogue between technology supply and need”.*

The two days of the fora were attended by a limited but very interested group of experts in civil security technologies. The Essen forum has been performed in cooperation with the regional member of the European Enterprise Network (EEN), the “Zentrum für Innovation und Technik in NRW” ZENIT. An extensive marketing had been implemented in spite of the relatively short time. The forum was announced on the fair website as part of the Innovation Symposium 2010. Several hundred brochures had been handed out at various events. Vdlconsult, as WP4 Leader, implemented a mailing addressing personally more than 300 experts in security technology, all SecureCHAINS partners supported vdlconsult with an intensive dissemination action through their own network of contacts.

- **2nd SecureCHAINS Forum as part of IFSEC Security Exhibition Birmingham, UK 2011, 19 May 2011**: IFSEC is the world's leading global annual security event, uniting more than 22,000 security professionals with more than 600 world leading companies. The Forum was held the 19th of May with the follow headline “SecureCHAINS: SMEs access to European security research and development”. The forum has been performed in cooperation with the regional member of the European Enterprise Network (EEN), the “London Technology Network” LTN. A further extensive mailing has been performed by vdlconsult, and by the SecureCHAINS partners. More than 800 mails had been sent out. The SecureCHAINS UK partner Sollerta Ltd, in particular, contacted more than 500 UK organizations among SMEs, industries, Universities, Governmental Agencies. The forum was announced and promoted on the fair website. The final information campaign had been performed by walking the floor of the exhibition and talking to selected companies, preferably SMEs (# 18 “Partner profile fiche” collected).
- **3rd SecureCHAINS Forum as part of SECUREX Security Exhibition Poznan, 2012, 25 April 2012**: SECUREX, International Security Fair is the largest and most prestigious security industry trade fair in Poland and Central Europe. More than 200 companies have submitted their fair applications in 2012 edition. The Forum was held the 25th of April, was announced on the fair website [9], SECUREX operator provides their network for informing the exhibitors 3 times about the forum event in advance and advertise the forum in the SECUREX publication (Appendix 4). A further

extensive mailing has been performed by vdlconsult and by the SecureCHAINS partners. Information stand (booth) at the exhibition hall had been provided for the project in order to present the fora to the exhibitors and visitors. The final information campaign had been performed by walking the floor of the exhibition and talking to selected companies, preferably SMEs (# 15 “Partner profile fiche” collected).

Additionally, two face to face meetings have been organized between SMEs from the one side, and main actors, as RTD organizations and large enterprises, on the other side. The meetings have been integrated instead to larger security events, in order to ensure the presence of different high-level actors. The Secure Chains consortium organized two face to face meetings in occasion of the:

- *Security Research Conference 2011*, held in Warsaw, Poland on September 20th and 21st 2011;
- *SECUREX Security Exhibition 2012* held in Poznan from the 23rd to the 26th of April 2012;

The main idea was to enhance collaborations, in FP7 projects, but not only. Collaborations through private contracts, or national funding were also encouraged.

The following table also presents the events that SecureCHAINS partners attended to disseminate and communicate the project:

Date	Place	Name
10/06/2010	Berlin (De)	International Aerospace Exhibition Conference "Innovationspotenziale in der Personenkontrolle"
11/06/2010	Berlin (De)	EU-Commission's Workshop on Research for Aviation Security
14-15/09/2010	London (UK)	Transport Security Expo
22-24/09/2010	Oostende (Be)	Security Research Conference 2010
5-6 /10/2010	Essen (UK)	Essen Innovation Symposium 2010 (1st SecureCHAINS Forum)
9-10/11/2010	Brussels (Be)	CBNR Workshop on Security Research
23/11/2010	London (UK)	London Technology Network-LTN event "Decontamination and Recovery Technologies for CBRNE Threats"
13/12/2010	Berlin (De)	IMCOSEC Workshop
25-26/01/2011	Troyes (FRA)	Interdisciplinary Global Security Workshop

Date	Place	Name
01/03/2011	Freiburg (De)	French-German Partnering event for security research common call ANR/BMBF
16-19/05/2011	Birmingham (UK)	IFSEC 2011 (2nd SecureCHAINS Forum)
07/06/2011	Brussels (Be)	EC Workshop CBRNE
15/06/2011	Berlin (De)	BMBF Workshop
15/06/2011	Paris (FRA)	Systematic Paris Region Systems & ICT cluster
17/06/2011	Hamburg (De)	Int. Conference & Exhibition "Maritime Security & Defence"
27/06/2011	Bonn (De)	BMBF Info Day EU Security call
28/07/2011	Shriven ham (UK)	Security Innovation Technology Consortium (Networking event, Defence Academy)
5/09/2011	Rome (ITA)	APRE National Info Day Security Call 2011
08/09/2011	Brussels (Be)	SEREN2 Joint Partnering Event
08/09/2011	Brussels (Be)	CBRNE map final conference
09/09/2011	Paris (FRA)	HCFDC Colloque Anthrax
13/09/2011	Olympia London (UK)	Transport Security event (UK Knowledge Transfer Network)
13-16/09/2011	London (UK)	Defence & Security Equipment International (DSEI)
19-21/09/2011	Warsaw (PL)	Security Research Conference 2011 (1st SecureCHAINS match making action)
20/09/2011	London (UK)	Security of materials event (UK Knowledge Transfer Network)
12/10/2011	Hanover (De)	Biotechnica 2011 Trade Show
22/10/2011	Cologne (De)	BMBF Security research project SPIDER
25/10/2011	Munich (De)	Medical Biodefense Conference
11/17/2011	Düsseldorf (De)	MEDICA Trade Show-Companies in the area of air conditioning and biodiagnostics

Date	Place	Name
08/12/2011	Brussels (Be)	Project FESTOS-Final event “Technology Foresight - Security Threats and Responses”
31/01/2012	Brussels (Be)	EC workshop on "Logistic & Supply Chain Security"
8/02/2012	London (UK)	Aviation security event (UK Knowledge Transfer Network)
14/02/2012	Reading (UK)	Computer security event (UK Knowledge Transfer Network)
28/02/2012 02/03/2012	Madrid (SPA)	SICUR 2012 International Security Safety & Fire Exhibition
13-15/03/2012	London (UK)	Oceanology International Security Exhibition and Conference (OI2012)
23/03/2012	Rome (ITA)	“The Smart State” Conference: European Funding for Innovation and Safety
04/04/2012	Paris (FRA)	Colloque HCFDC "NRBC & Infrastructures Critiques"
17-19/04/2012	Berlin (De)	BMBF Innovationsforum Zivile Sicherheit Presentation of the new German funding program
23-25/04/2012	Poznan(PL)	SECUREX 2012 trade show (3 rd SecureCHAINS Forum, 2 nd match making action)
24-25/04/2012	London (UK)	Infosecurity Europe
25-26/04/2012	London (UK)	Counter Terrorism Expo
03/05/2012	Grenoble (FRA)	Rem Inno Awards - Grenoble ecole de management
9-11/05/2012	Porto (PT)	PRO-INNO Parteneriat Event

Table 4: List of Dissemination Events

SecureCHAINS has also established 10 effective project inter-collaborations during its lifetime, as presented in the table below:

Acronym	Funding Scheme	Theme	Type of collaboration
IMCOSEC	FP7 Security Research	Intelligent surveillance and border security	Participation at events

Acronym	Funding Scheme	Theme	Type of collaboration
OSMOSIS	FP7 Security Research	Security Research coordination and structuring	Link exchange Cross participation on newsletter Participation at events Joint dissemination
SMART	FP7 Transport Work Programme	Support Action Surface Transport	Link exchange Cross participation on newsletter
EFFECTPLUS	FP7 ICT Programme	Coordination Action Trustworthy ICT	Link exchange Cross participation on newsletter
FOCUS	FP7 Security Research	Security and Society	Link exchange Cross participation on newsletter Participation at events Joint dissemination
PRATICE	FP7 Security Research	Restore security and safety in case of crisis	Link exchange Cross participation on newsletter
FESTOS	FP7 Security Research	Security and Society	Participation at events
ValueSec	FP7 Security Research	Security and Society	Link exchange Cross participation on newsletter
Seren2	FP7 Security Research	Security Research coordination and structuring	Participation at events Participation on newsletter Joint dissemination
IMG-S	Aerospace and Defence Industries Association of Europe [5]	Surveillance Systems Communication Identification Systems Protection neutralisation & restauration technologies Information processing & management	Link exchange Participation on newsletter Participation at events

Acronym	Funding Scheme	Theme	Type of collaboration
		CBRNE	

Table 5: List of Inter-project Collaborations

Besides the above mentioned dissemination events, also Personal meetings, contacts, conference calls, mailing actions to present the project and promote the interest of the following Clusters and Technology Platforms:

Name	Description
AFCEA Portugal	AFCEA Portugal has the following general goals: To create facilities so that the people responsible for the National Defense in the Communications, Electronics, Intelligence and Information Systems areas may exchange knowledge and ideas with responsible technicians of the Industries and alike Research Centers; to promote initiatives for the interchange of that knowledge and ideas aiming at facilitating knowledge of the needs and updated requirements of Defense as well as the Industry and Research capacities to meet them.
PRODUTECH	Production Technologies Cluster - is an initiative promoted by the Portuguese Industry of Manufacturing Technologies. This Cluster comprises companies that are capable of addressing competitiveness and sustainability challenges by delivering innovative, flexible, integrated and competitive solutions in response to the manufacturing industry's needs. PRODUTECH embodies collective efficiency strategies aimed at innovating, qualifying and modernizing the developers and users of manufacturing technologies. As a key partner in several projects, PRODUTECH promotes initiatives and actions fostering the international competitiveness of the Portuguese economy, and boosts the cooperation between companies and other relevant stakeholders in a structured way.
SITC “Security Innovation Technology Consortium”	Within the UK a group of security sector SMEs formed a consortium that would enable them to group together to bid for contracts and integrate innovative technology to improve their competitiveness. Sollerta, SecureCHAINS partner, was a founder member of the “Security Innovation Technology Consortium” (SITC) and provided a main board Director. SITC started with 12 SMEs and now has a membership in excess of 500 members including Prime contractors, System integrators, Academia and SMEs. SITC has been a major dissemination route for SecureCHAINS and for introducing the FP7 security agenda. At all SITC events and at trade shows and conferences Sollerta business cards had the reverse side printed with SecureCHAINS information to ensure that when handed out they would link to the project. The official SecureCHAINS project brochure was also handed out.
SERIT	SERIT (Security Research in Italy) is the Italian National Technology Platform Safety jointly promoted by CNR and Finmeccanica group companies and institutions in Italy active in research in the field of Homeland Security. Currently the platform includes more than 250 Italian partners with over 1000

Name	Description
	members.
R&D.LOG Logistics Research & Development	Is an Italian consortium established in 2005, involves Universities and the National Research Council along with various types of companies - from a major terminal enterprise to small logistic companies, from harbor service companies to service companies in logistics, information and goods transportation, as well as non-local enterprises interested in starting new activities in the district area. The main scope of R&D.LOG is the increase of industrial research and development activities in all industrial fields and in particular in logistics. Core competences of consortium partners cover topics, such as Systems for planning, management and control of marine terminals; Supply chain management and security; Transportation networks and interchange nodes; Integration of all services of vehicle logistics - handling, storage and technical preparation in sea terminals, river terminals and inland, conveyance and transport services by rail, road, inland and coastal shipping; ICTs.
ENIAC Joint Undertaking (JU)	ENIAC Joint Undertaking (JU) was created in February 2008 in order to implement a Joint Technology Initiative (JTI) on nanoelectronics - a research programme aimed at enhancing the further integration and miniaturisation of devices and increasing their functionalities. The ENIAC JU is set up as a public-private partnership, bringing together the European Commission and European Member and Associated States with AENEAS, the association representing the R&D actors in nanoelectronics (Corporate, SME's, research institutes and universities) in Europe.
Irish Security Industry Association	The Irish Security Industry Association is the only trade association representing the full spectrum of security services of all sizes in Ireland. Founded in 1972, ISIA Members include small, medium and large indigenous and international companies operating throughout Ireland. ISIA members companies represent approximately 60% of those employed in the industry (20,000) and 70% of the turnover, estimated at €1.2 billion.
PESI Plataforma Tecnológica Española de Seguridad Industrial.	The Spanish Technology Platform on Industrial Safety, set up in October 2005, promotes Industrial Safety issues, integrating all the agents interested on research and technological developments. At the same time, it also contributes to define its own necessities and ideas to improve the Strategic Research Agenda.
TICE Cluster	The TICE.PT Center for Competitiveness and Technology, Center for Information, Communication and Electronics Technologies, was formally recognized by the Portuguese Government in August 2009, as part of the QREN's Strategies for Collective Efficiency. TICE.PT's overall strategy comprises building a coordination platform that will involve and mobilize the TICE's main players in innovation processes, R&DT, transfer of knowledge, advanced training, development, production and marketing of products and services, marketing and internationalization. TICE.PT currently involves 49 bodies, 54% of which are Companies, 26% are part of the National Scientific and Technological System, and 20% are Associations, basically distributed throughout northern and central Portugal, as well as in the area of Lisbon and the Tagus River Valley.

Finally SecureCHAINS partners: attended a wide range of exhibitions, networking events and seminars in the EU to disseminate SecureCHAINS and FP7 information and to recruit SMEs for the capability audit programme; carried out around 120 capability audits of SMEs to explain the activities of the SecureCHAINS project and to introduce the FP7 security agenda; Signpost activities for SMEs; during the technology audit work companies were signposted to the FP7 programme and the benefits it could bring in working across the EU with other partners; established synergies with NCPs and EENs: as it is a principle of the SecureCHAINS project to work together with established European organizations, the SecureCHAINS partners established a fruitful collaboration with the NCPs and the Enterprise Europe Network to promote and disseminate the project, select and contact SMEs, cooperate in the execution of SecureCHAINS Fora and disseminate the match making actions.

Future Exploitation

Exploitation was a key enabler for the success of the SecureCHAINS project and therefore the main exploitation principle was the alignment of business requirements with support activities implemented. One main issue that was fully coherent with the project aims is the identification of expected results from the very beginning of the project and the translation of these results into exploitable assets. In particular, the following expected results of the SecureCHAINS project appear to be of high relevance:

- **The communication platform/website/database of Security actors and stakeholders** that allows the exchange of information and facilitates networking among major STSC stakeholders (e.g. government institutions, major companies and big industrial enterprises and SMEs) and this way contributes to a more combined effort among them and to contribute to a more competitive European STSC.
- **The methodologies for guidance and technical assistance to STSC actors**, especially SMEs, so they are able to put successful proposals to FP7, CIP as well as, other existing European RTD funding programmes.
- **The methodology, experience and insights for the organisation of communication exchange fora at European Security related events** with the purpose of: Fostering discussions and communication on security research progress between academic research, industry, Security associations and other STSC key stakeholders; Promoting RTD project generation and dialogue between experienced proposers and newcomers.
- **The online course “Get Ready for Security FP7”** developed in WP4, which can serve as basis for better supporting SMEs in participating in Security research funding programmes.

Finally, as main output the project aims at contributing to “market integration” that will contribute for a bigger and better integration of firms and technologies in the STSC.

SecureCHAINS project intends to build a self-sustainable network after 2012. Based on the results and experience acquired during the funding phase of the project (2010-2011) the network members are ready to extend their services. The market for innovation services is on steady rise due to increase of EU structural funds. In innovation field the growth of such funding is circa 2,5-3 times higher during the period 2007-2013 if compared to the period 2004-2006. Market size for such services is approximately 2-2,5 million Euros annually in 2008-2010, whereby SecureSME network can have an important role in this market. The expected incomes of the network activities will come from charging services to the clientele but also exploring the opportunities of the structural funds and EC funds. During the next couple of years, and considering the actual crisis, the companies need more than ever to increase the capacity in terms of project number and their quality. Besides, more value adding services will be included into the pipeline – such as technology transfer, IPR and strategic business consultancy.

SecureCHAINS network is ready to enter into a second stage and to make an important step towards self-sustainability, in order to impose itself as a market-oriented permanent infrastructure of services. Innovative businesses would like to have easy access to partners that can take them to a European level. What would be required is a “place” where those European businesses can easily and quickly get the services. European organizations can visualize the services that the network is offering and announce of a task and assignments needed, (“what”, “for when” and “for how much”), and that can be consulted by SecureCHAINS network members who can promptly reply “I am willing to do that within that time and for that price”.

PROJECT PUBLIC WEBSITE ADDRESS:

The project website is available at www.securechains.eu.

