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TAPPS

Trusted Apps for open CPS

D6.1 – Plan for the Dissemination, Exploitation and Eco-System Building

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R: Document, report (excluding the periodic and final reports); **DEM:** Demonstrator, pilot, prototype, plan designs; **DEC:** Websites, patents filing, press & media actions, videos, etc.; **OTHER:** Software, technical diagram, etc
PU = Public, fully open, e.g. web; **CO** = Confidential, restricted under conditions set out in Model Grant Agreement; **CI** = Classified, information as referred to in Commission Decision 2001/844/E

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Executive Abstract

This deliverable provides the plan for the dissemination, exploitation and eco-system building activities for the TAPPS project. The four pillars of the TAPPS dissemination strategy comprise broadcasting of the research results in national and international exhibitions and fairs, participation in academic and industrial clusters and networks as well as public awareness.

The main dissemination target groups of TAPPS comprise stakeholders in the TAPPS application domains (automotive, healthcare) as well as stakeholders along supply chain (e.g. tool developers), relevant scientific communities and the public.

Scientific dissemination addresses different communities, such as real-time systems, virtualization and networking, model based and formal verification. Industrial dissemination takes place in the TAPPS application domains as well as along the supply chains. Furthermore, different dissemination channels are introduced for the scientific and industrial communities.

The document concludes with an initial definition of metrics for success (e.g. coverage of scientific areas, evaluation through questionnaires) in combination with preliminary information of results and progress.

1. Objectives of the Deliverable

1.1. Introduction

This deliverable is the first plan on the dissemination, exploitation and Eco-System building of the TAPPS project. This deliverable is the result of Task 6.1 “Dissemination” (M01-M36) and Task 6.2 “Standardization and Eco-System Building” (M01-M36).

Dissemination and exploitation comprises the following activities:

- Creation of a project web site¹ for marketing purposes and its maintenance during the life time of the project,
- Creation of an internal repository² to facilitate internal communication and document management,
- Worldwide dissemination activity to maximize the impact of the TAPPS project (especially focusing on Europe),
- Exploitation strategy to facilitate the successful exploitation and take-up of the TAPPS results,
- Preparation of a series of workshops for exchange between ongoing projects that touch upon adaptive and reconfigurable systems,
- Raising interest among automotive and healthcare stakeholders developing components and Apps,
- Fostering cooperation and exchange between European countries in order to create synergies in basic and applied research on the development of adaptive components using TAPPS trusted Apps platform,
- Press releases for technical and non-technical publication outlets, including newspapers at the start and during the project.

The standardization and eco-system building comprises the following activities:

- Standardization plan: Here, we have mainly ETSI for M2M and global platform³ for security standards. In order to accelerate CPS development with a customizable and extensible reference platform, without re-inventing the wheel VOS and other partners will contribute to Automotive Grade Linux (AGL) group to enhance the impact of the project results thus enabling reuse of software components.
- An open-source strategy for product development and deployment with open collaboration and processes will be developed and implemented by the partners, mainly focusing on the tool chain and open source Linux foundation. Actility, VOS and fortiss will be the main partners driving this.
- Developers will be attracted by suitable web communication, dissemination events and social media, as well as by open, attractive tool chains.
- A study of market opportunities and risks through a market watch activity.
- Define business models and construct a business plan for the eco-system players.
- Provide exploitation opportunities for the technical innovation included in the TAPPS platform.

¹ <http://tapps-project.eu>

² <https://source.fortiss.org/svn/tapps/>

³ <https://www.globalplatform.org>

1.2. Content of the Deliverable

This document is organized as follows. In chapter 2, the dissemination and exploitation policies, goals and timeline are discussed as well as a detailed analysis of the dissemination pillars is presented. In chapter 3 the targeted dissemination groups are analyzed for the major groups and application domains and public. Chapter 4 and chapter 5 introduce the dissemination and exploitation and eco-system building strategies of the TAPPS partners from scientific and commercial point of view. Scientific and commercial channel of dissemination are illustrated in chapter 6, presenting conferences, trade shows and events of major interest for the TAPPS project. Chapter 7 describes the dissemination and exploitation evaluation process, the coverage and the alignment with the TAPPS results and the monitoring of the dissemination and exploitation progress.

2. Dissemination and Exploitation Policy, Goals and Timeline

The TAPPS consortium will perform a proactive dissemination and promotion of the project activities and results to the research communities and to European industries to ensure the widest awareness of its results. One of the goals is the widespread distribution of knowledge, technology transfer, and creation of public awareness on the TAPPS project. For such reason the consortium has decided to implement a dissemination strategy articulated in three consecutive phases:

1. Awareness phase,
2. Result phase,
3. Exploitation phase

detailed below and depicted in the timeline in Figure 1. At the present moment, the consortium is implementing the first phase.

2.1. The awareness-oriented phase

This phase (Figure 1, red line) consists of basic marketing materials and awareness-raising presentations at press media and also exhibitions and conferences. Thus, the main activities are: first, setting up a common project design such as TAPPS logo, template for reports. Second, creating and maintaining project website to present in the web challenges, goals, and participants of the project. Third, designing the project information materials (e.g. flyer) which can be distributed electronically without big efforts. Fourth, presenting the project in different press media, such as HiPEAC Newsletter, technology press sources (such as EE Times, EDN Articles, ...) and national and regional media of the project participants. Finally, giving presentations at conferences and workshops and participating to exhibitions (a list can be found in Sections 7.1 and 7.2) to raise awareness of scientific and industry stakeholders for the project.

2.2. The result-oriented phase

This phase (Figure 1, orange line) is devoted to the promotion of the project results. This phase consists of displaying and promoting public deliverables and news on the project website to show progress and to keep the interested parties up to date. Second, submitting scientific articles to related workshops and conferences. Third, result-oriented presentations at international conferences and workshops are planned. Finally, we will publish the results sourced from our project in related technology press sources and national and regional media of the project participants

2.3. The exploitation-oriented phase

This phase (Figure 1, blue line) first aims to use the technologies developed in future products within the project consortium as described in the detailed exploitation plan of each company, then to target potential external customers in different sectors such as automotive, medical, home automation, etc.

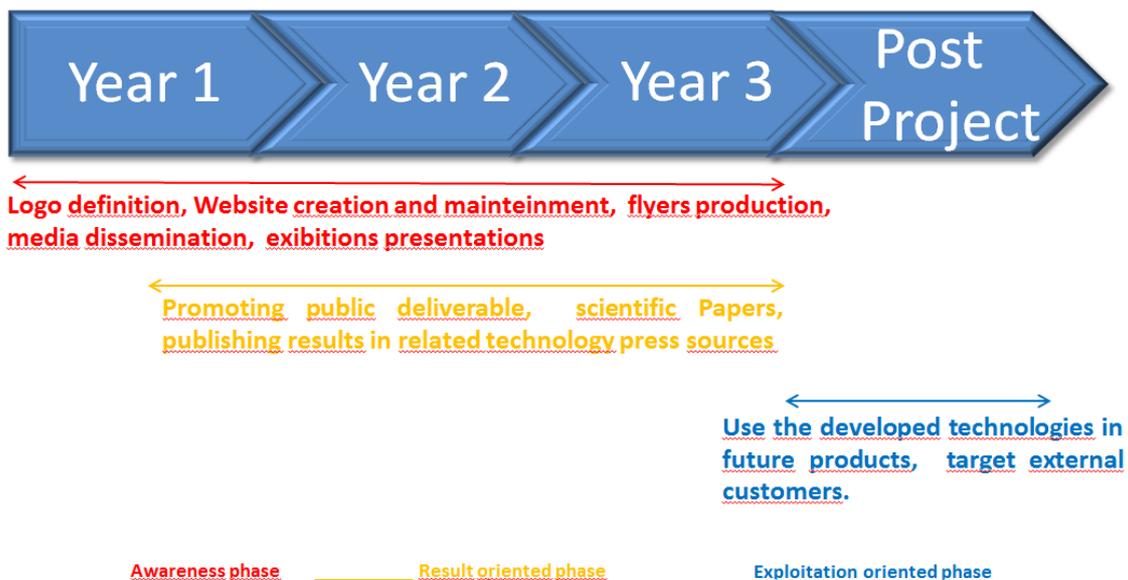


Figure 1. Dissemination Timeline of the TAPPS project

3. Target Groups

The aim of the dissemination activities is to widely spread the project results to the relevant communities and to increase public awareness of its benefits. The purpose of this chapter is to identify main dissemination target groups and describe their interests and specify methods to address these interests.

3.1. Stakeholder groups

3.1.1. Healthcare

The healthcare stakeholder group consists of several clients like developers, deployers, end-users, assistant providers, supporting authorities and organizations. Developers are those who are expected to develop healthcare applications using the TAPPS platform. Deployers are integrators of the healthcare solutions by installing, configuring and customizing them. Moreover, platform end-user refer to assisted persons and their caregivers that use TAPPS-based healthcare architecture, applications and services. Assistance providers of external services to the end-users obtain developer services and applications and use deployer services to establish their external services (e.g. hospitals, healthcare home-services as well as medical laboratories, and probably wellness and fitness). Supporting organizations and authorities that deal with the social economic and legal context of healthcare have also a major impact and role in the dissemination of the TAPPS platform. Many healthcare applications combine safety-critical services such as health-monitoring of patients and tele-medicine with non-safety-critical services (e.g. entertainment, comfort function, etc...)

3.1.2. Mobility

The group of stakeholders in the mobility domain reaches from automotive to motorbike manufactures down to SMEs representing external suppliers or third-party service providers. Currently, Apps platforms for vehicles are a highly active topic in the automotive domain. In limited ways, these applications can access status information, e.g. fuel level, or change non-critical settings in the vehicle (e.g. temperature). TAPPS will focus on highly-trusted Apps which can also access critical information and settings. For instance, changing settings in the stability or engine control of a vehicle is highly critical. Also, reading a video stream from a in-vehicle camera needs to ensure that the network resources are available for other critical services. The TAPPS results on this side can lead to a considerable range of opportunities in terms of new functionalities and also new security standards.

3.2. Stakeholders along Supply Chains

3.2.1. Tool Developers

Tool developers are responsible for the provision of adequate tooling for different purposes during the development of the system. Their products reach from simple programming tools and compilers up to complex integrated development environments as well as model transformation, design exploration and optimization tools and platform component configurations as part of model driven development methodologies.

The main objective of the development tools is to increase efficiency and productivity of the customers that apply the tools within their companies. This goes along with a reduction of the complexity by only focusing on the relevant parts. A model-driven engineering suite for mixed-criticality systems will enable the customer to concentrate on the model rather than having to deal with the implementation details directly. Other important groups of tool developers comprise providers of simulation environments and tool providers for system validation, verification and certification support.

3.2.2. Hardware Developers

Hardware platform developers need to be convinced of the benefits that are provided by the TAPPS architecture and the ensuing added value for their customers. They require that TAPPS

addresses the technological challenges required by the future application requirements in Healthcare, Automotive, etc. to consider TAPPS results in their services and products.

3.2.3. Software Developers

In analogy to hardware platform developers, software developers need to be made aware of the TAPPS results with the ensuing economic benefits and the technical characteristics (e.g. real time, security). Software developers will be interested in the model-driven methodology, TAPPS-specific applications and services and the TAPPS application tool chain.

3.3. Public

Achievements and results of the project will be made known to a wide public through effective dissemination material and activities. Examples are press-releases and high-level overviews (in addition to detailed technical information) on the project web page. The participation in public events related to application domains to address their own customers will also play an important role to increase public awareness and interest in innovative mixed-criticality solutions. Additionally, newsletters, articles and many of the project deliverables will be available to the public through the project's webpage.

4. Dissemination

TAPPS dissemination will focus on ensuring the project impact in the wider industrial and academic communities, with respect to project visibility, effective communication and dissemination of project ideas, as well as establishing the project as an innovation driver in CPS. Special attention will be turned to handling relationship with major European players (AUDI, Bosch, Magneti Marelli, Orange, BTicino, BMW, etc.) More detailed information on the covered domains and fields of research is provided in the following subsections.

4.1. Dissemination for Electrical Vehicles (CRP)

The technical and scientific dissemination of the project results within the Electrical Vehicles domain is guaranteed by CRP, as Energica Superbike manufacturer, in strong cooperation with the TAPPS research team involved in the Energica Superbike setting up and optimization, in terms of innovative potential applications to be developed and implemented.

The dissemination plan mostly aims at targeting scientific and professional audiences (industries and stakeholders at large) and end-users at EU level. The stakeholders' community will be managed both with proactive communication tools, such as conferences and workshops, e-newsletters, and through web-based networking techniques.

Targeted stakeholders identified for both awareness and dissemination activities are:

- Large industries and SMEs, addressing specific associations of the manufacturing scenarios where the demonstrations will take place; automotive, agricultural machinery and transport in general represent industrial sectors strongly interested in the technology transfer of the TAPPS results.

- Clients and users: key players providing their perspectives in the formulation and assessment of project results in terms of adoption of new apps, adaptability for the future and new business models.

The impact of dissemination of the project belongs to the mainstream of RTD and demonstration projects, namely to inform the scientific communities and the Automotive stakeholders, including policy makers and European platforms, of the achievements of the project and of the benefits that might derive from the adoption of the best practices by other actors.

The activities involved in dissemination include the participation to fairs, conferences and thematic workshops, the distribution of progress and results within scientific publications and also on the project website and associated tools such social networking, the distribution of the e-newsletter, press releases and other dissemination material.

4.2. Dissemination for Health Domain (FCSR)

FCSR will strive to disseminate the results collected through the TAPPS experience via a number of conferences and seminars: HEALTHINF⁴, eTELEMED⁵, Workshop on eHealth Standards and Interoperability⁶. FCSR will also organize workshops, open-days and seminars in its Science Park in order to reach an extended network of experts in different fields including medicine, telemedicine and eHealth .

4.3. Dissemination for Computing and Network Virtualization (VOS&TTTECH)

TTTech is committed to ensure the appropriate dissemination of project research results in relevant conferences and workshops and will thus involve the dedicated TTTech Labs department in this task. The dissemination activities will mainly focus on the work conducted in the extension of classic communication networks towards dependable networks that meet the requirements of trusted distributed applications. The work will include research on the virtualization of the physical network as well as touch the integration of these virtualized trusted network channels with the virtualized operating systems on top. Furthermore, TTTech will support a more general dissemination of the project towards a larger public and stakeholders (public authorities as well as potential customers and end users) through existing dissemination channels of the company website, LinkedIn accounts, presentations at public events and other miscellaneous events.

VOS plans to disseminate the TAPPS outcomes through scientific papers, industry and scientific conferences, seminars, company website dissemination, and most importantly open source code submissions to relevant software communities. Moreover, all the TAPPS open source contributions made by VOS will be publicly available as source code in a code repository⁷, that VOS will make available.

⁴ <http://www.healthinf.biostec.org>

⁵ <http://www.iaria.org/conferences2016/eTELEMED16.html>

⁶ <http://www.itu.int/en/ITU-T/Workshops-and-Seminars>

⁷ git.virtualopensystems.com

4.4. Dissemination for Trusted HW Development (ST&TEI)

TEI's and ST's dissemination plans involve promotion of TAPPS research results in the field of embedded HW infrastructure enhancements in the field of open CPS systems. Security enhancement methods (hardware and software security architectures, hardware and software modeling technology towards trusted embedded platforms while integrating with ST and other partners technology, are planned within the TAPPS scope. Research in the area will be based on the experimental results obtained during the development of the TAPPS hardware infrastructure. Several publications in international conferences and journals, as well as these are expected in 2015 and onwards on this domain.

4.5. Dissemination for App Store and M2M Protocols (Actility)

As an active participant in the early ETSI working groups related to defining standards and M2M protocols, Actility will contribute to standardize the TAPPS implementation and enhancements into ETSI Smart M2M and OneM2M standards. The purpose and goal of ETSI Smart M2M and oneM2M is to develop technical specifications which address the need for a common M2M Service Layer that can be readily embedded within various hardware and software, and relied upon to connect the myriad of devices in the field with M2M application servers worldwide. Eight of the worlds leading regional ICT standards bodies, including ETSI, have come together to create oneM2M.

Actility is also an active member of the LoRa Alliance IoT industrial standard. The LoRa Alliance mission is to standardize Low Power Wide Area Networks (LPWAN) being deployed around the world to enable Internet of Things (IoT), machine-to-machine (M2M), and smart city, and industrial applications. The LoRa alliance members included global player like Cisco, IBM... As member of the Technical Program Committee, Actility will promote the TAAPS outcomes to LPWAN public and private Networks.

Actility is also a frequent speaker at worldwide telecom and industry Internet of Things conferences and seminars where the TAAPS return of experience will be presented."

5. Exploitation and Eco-System Building

TAPPS exploitation will seek to identify and construct the most advantageous context for positioning the output of the project in ways that enhance its relevance in the EU business landscape and eco-systems, for the TAPPS consortium partners as well as in general. The contribution to standards plays an important role for the wide acceptance of the achieved project results. Also, the goal is to provide the basis for a larger user community and an eco-system of trusted Apps, based on the tool chain.

5.1. Exploitation and Eco-System Building for Electrical Vehicles (CPR)

The basic idea of the TAPPS exploitation in the Electrical Vehicle domain is to develop new knowledge to be used first of all in the partners' own businesses. CRP is mainly investing its own resources for the development and the market promotion of the Energica, which is now on the prototype stage.

Networked embedded ICT plays a key role for the success of the Energica Motorbike. The massive R&D effort deployed during the TAPPS project aims at overcoming relevant technical limitations (limited space for batteries, increased weight, etc.), in order to bring to the market an innovative product.

TAPPS will be a key contributor for Energica to reach its exploitation and eco-system building plan goals, as highlighted in the following points:

- The availability of trusted Apps will enable Energica to guarantee a set of critical features related to motorcycling that will represent an important market differentiation factor with regards to competitors;
- Advanced security mechanisms to be delivered through TAPPS (i.e. adjustment to brakes, suspension setup to weather and terrain conditions) will pave the way for a higher market acceptance of an innovative product such as Energica, thus helping to overcome the possible skepticism for traditional motorbike lovers;
- First-mover advantage on the availability of TAPPS for customers will reinforce the image of Energica as a technological forerunner, as today is the case thanks to the fact that CRP is bringing to the market an electric superbike with the performance features of an endothermic engine bike.

Furthermore, the exploitation for the Electrical Vehicles domain could be enlarged focusing also on sectors beyond the motorbikes. Both Automotive, Agricultural Machinery and Transport sectors will surely be interested in TAPPS results and their transferability.

5.2. Exploitation and Eco-System Building for Health Domain (FCSR)

FCSR is interested in exploring the potentiality of TAPPS solutions and technology to enable the creation of innovative services that the Hospital can provide to its patients, enhancing the quality of care as well as optimize hospital's staff resources. With the TAPPS project San Raffaele can thus investigate the opportunities and enhancements offered by the Cyber-Physical Systems and Marketplace for Healthcare Trusted Applications FCSR will also use the TASPP project to identify business connections, industrial collaborations, academic collaborations, and relationships with institutional stakeholders, access to venture capitals and evaluation of ad hoc spin-off. Moreover, through the participation in the regional clusters "Technologies for Smart Cities and Communities", FCSR has strong links to specific stakeholder networks able to drive and investigate new exploitation and business opportunities.

5.3. Exploitation and Eco-System Building for Computing and Network Virtualization (VOS&TTTECH)

5.3.1. TTTECH

The technologies researched and developed in TAPPS, especially the expected results on deterministic networking and network virtualization are of core interest for a later exploitation in the areas of Internet of Things, embedded and Cyber-physical systems and communications. The markets primarily addressed by TTTEch for an exploitation are found in the transportation industry (e.g. towards automated driving), but it is anticipated that selected technologies can be adapted and/or extended to be used in other areas such as Factory Automation and Cyber-physical production systems. TTTEch will thus continuously follow and investigate the developments of

TAPPS and identify results that are suited for exploitation. These results will be handed over to the respective business units in TTTech where they will be adapted and harmonized with the commercial products lines within and after the TAPPS project. Additionally, the business units will ensure that selected parts of the TAPPS technologies/developments are showcased early at relevant stakeholder events. TTTech is also active in standardization. Main focus of the company's activity is found in networking. Hence, TTTech is closely following relevant standardization bodies and a voting member in IEEE 802.x standardization as well as other committees, for example SAE. In this respect, TTTech intends to contribute selected developments in particular on the network and its virtualization to these standards. Furthermore, the company remains close ties with additional associations such as SafeTRANS and TTA-Group that are supporting the industrial uptake of technologies, in particular also of those related to TAPPS project. Eco-system building activities will hence be fostered by TTTech's membership in these associations.

5.3.2. VOS

VOS plans to exploit TAPPS outcomes delivering a Trusted Automotive Grade Linux (AGL) technology for next generation cars, which will be made available as a product by VOS. Moreover, specific parts of this technology will be protected by filing patents to the European Patent Office. In addition, VOS will interact with the QEMU, KVM and AGL communities to create an ecosystem which will foster the adoption of the TAPPS technologies in CPS environments.

5.4. Exploitation and Eco-System Building for Trusted HW Development (ST&TEI)

5.4.1. TEI

The foreground knowledge, results, are expected to be reused in the future for other embedded system domains, in particular mixed-criticality (health-care, communications). TEI plans to exploit TAPPS results in teaching, in security or embedded software courses. In particular TEI plans to expose Trusted CPS design, methodology and tools and reuse any acquired equipment through TAPPS project in two Master courses thesis associated with the MSc Informatics Engineering program. In addition, TEI will promote knowledge transfer through the Greek Microelectronics Cluster⁸ in which TEI is an associated member. As an academic institute TEI plans to strengthen its position in additional national and international collaborative research and technology transfer project. The experience and foreground developed within the TAPPS research will serve as the technological basis for future research projects. Also, the collaborative nature of an EC project allows us to build long-term relationships with complementary project partners, which can be a fertile foundation for join project in related areas.

5.4.2. STMicroelectronics

STMicroelectronics (NYSE: STM) is a global semiconductor leader serving customers across the spectrum of electronics applications. Focused in different areas in particular Internet of Things. where it has stronger position than our competitors (TI, NXP, Freescale, Invensense,..) and focused on applications such as fitness, healthcare, wearable. Another Area of business interest is the Digital Home where ST is leading with UltraHD and HEVC Video Decoding Set-Top Box Chips. Two products in this area are for instance Cannes and Monaco Ultra that deliver industry leading

⁸ <https://www.corallia.org>

performance for the first step of UHD and working in next generation products that will bring True UltraHD and 4K for live action.

The TAPPS project will be used by STM to have new product line for Smart Car & City area that combines the competences and technologies of IoT and Digital Home ST. This new product line will enable ST to realize an ad-hoc roadmap for Smart Car & City area by defining a new family of CPS related that include hardware and software technologies. This new family of CPS SoCs will deliver the high processing capabilities and analysis capabilities to extract raw data from multiple sensors in the surrounding environment. Furthermore, the CPS SoCs bring the power of the gateway of Digital Home to address the Connected Car market which forms part of the company's overall product portfolio. In fact, during next ten years will see the built-in connectivity become standard feature in vehicles, this means the most of the new cars will require ad high performance CPS SoC. Today ST is in unique position to drive high performance CPS SoC since is one of the world-wide company that can combine complex platform fully integrated, with Motion; Acoustic; and Environmental sensors such as humidity, pressure, chemical and infrared. As STM drove MEMS adoption by the mobile phone market five years ago, ST is unique in its having all the sensor technologies, together with the complex platform based on ARM processors to drive the high performance CPS market development and to create the next wave of products. With more than 3 billion motion sensors sold in the market to date and complete control of its design and production processes, ST is the one-stop MEMS supplier of choice, offering a comprehensive portfolio of micro-machined accelerometers, gyroscopes, pressure sensors, magnetic sensors, and microphones, and has the capability to integrate and to connect to high performance CPS. ST leads the way towards intelligent and independent sensing devices that will open new horizons in consumer electronics, healthcare, and many other domains as the smart cities and smart car. Stuffing car with battery of sensors gives to the car a 360 degree knowledge of surrounding environment. In other words the car is completing sensors panoply.

From Visual, Multiple mono vision cameras we can get 3D top & rear view and Stereo vision as well as detection of obstacles and moving traffic while LIDARs (Light Detection And Ranging) Creates 3D profile of surrounding car. Then Sensors can monitor car itself: Car motion/Dynamics, pressure, light measurements. Expanding senses leads to smartness, which requires big brain, high performance and open and connected CPS SoCs. From smart cities to smart car, STM believes M2M communications, which includes the car communication, will transform society and business. In fact, as reported by Machina Research, in 2013 by 2022 there will be 1.8 billion automotive M2M connections. This will comprise 700 million Connected Cars and 1.1 billion aftermarket devices for services such as navigation, usage-based insurance, stolen vehicle recovery and infotainment. Overall, the M2M market in the automotive sector will generate a staggering \$422 billion in 2022, up from \$22 billion in 2012. Today, 59% of this revenue is accounted for by services, including both the connectivity and the applications supported by it. By 2022 that will grow to 88%. STM plans to exploit TAPPS project results in 3 main directions. The first one, utilizing the experience and know-how gained from the development of prototype platform during the project to influence the internal product roadmap adding the necessary functionalities to better address the market requirements. Second, to drive the innovation for the smart car technology by addressing the incoming challenges. Furthermore, we expect to increase the STM market penetration significantly by the lighthouse project by CRP Energica.

5.5. Exploitation and Eco-System Building for App Store and M2M Protocols (Actility)

Actility will exploit the advances in the App Store architecture concept, security and execution environment achieved in TAPPS by implementing the concept in both application servers and devices. Thus security features of ThingPark® (Actility's M2M core network infrastructure) and Cocoon® (ETSI M2M Gateway Open source initiative) platform will be enhanced and competitiveness of the company will be increased due to the possibilities opened through the implementation of these features.

The TAPPS implementation will be directly integrated in the Actility's commercial product, such as ThingPark Store®, Datalogger and Smart-DR®. The project is also expected to lead to significant optimizations of the software footprint and performance. These enhancements will also benefit the M2M and Smartgrid community through the open sourcing of Cocoon. Smart-DR®, Actility Demand Response application for Energy management, will also leverage these enhancements of the ETSI M2M transport layer for its activation, management M2M communication and execution.

6. Dissemination and Exploitation Channels

6.1. Scientific Channels

TAPPS will participate in scientific dissemination by writing conferences papers and journal articles as well as preparing posters and giving presentations with TAPPS project results. Target conferences and workshops will be those with scientific audience interested in embedded platform solutions, architecture, software and hardware components and formal verification. Organizing conferences and special sessions for training and public contacts is very important for the dissemination strategy in TAPPS. Examples of conferences at which TAPPS will consider a participation are:

- COMPSAC 2015: The 39th Annual International Computers, Software & Applications Conference, Taichung, Taiwan, July 1-5, 2015
- IEEE International Conference on Emerging Technologies and Factory Automation
- IEEE/IFIP Intern. Conference on Dependable Systems and Networks (DNS)
- IEEE Real-Time Systems Symposium (RTSS)
- IEEE Europmicro Conference on Real-Time Systems (ECRTS)
- HIPEAC Conference Series

In order to widen the recognition of TAPPS and to ensure the scientific relevance of the project results, publications in conferences and journals are one of the key factors in disseminating scientific results of research project. Partner of the TAPPS consortium will consequently submit relevant results to important conferences and journals related to the mixed-criticality community.

The TAPPS consortium features various research and academic entities that offer post-graduate programs to young researchers. The TAPPS project proposes new aspects on research that are explored in the scope of the PhD projects. Also, university partners will use selected project results

in lectures as well as in bachelor and master theses, which will further disseminate the project results and raise awareness of mixed-criticality in the student communities.

6.2. Channels for Industrial Dissemination

A very important means for disseminating the results of the TAPPS project will be through commercial dissemination channels. TAPPS will participate in exhibitions and fairs of major conferences, as well as in specialized exhibitions. In these exhibitions, TAPPS will demonstrate the solutions and services developed by the project through direct presentation to the relevant associations and organizations. A preliminary list of industrial exhibitions is as follows:

- Embedded World exhibition and conference
- Automotive Linux Summit
- Design, Automation and Test in Europe
- International Forum on MPSoC for Software-defined Hardware
- Artemis&Itea Co-Summit
- IAA
- IEEE Internet of Things World Forum
- Automotive Linux Summit 2015, June 1-2, 2015 in Tokyo, Japan

6.3. Community Channels

The TAPPS website is one of the important means to publish and disseminate relevant project results. The project website has already been established, summarizing at the moment all relevant facts about the project. The website shall also contain all freely available material, such as links to published papers, public deliverables, newsletters and brochures. Furthermore, it will contain description of TAPPS organized events.

Another channel will be to set up a newsletters is to inform the TAPPS community and general public about the news and events related to the project, as well as about the project highlights (progress, major initiatives and outcomes, dissemination activities, etc...) The newsletter will be disseminated to a list of people that registered for the newsletter at the project's website. This way, we will begin to build and address a number of interested parties, which will be part of the community building process.

In the future, other channels in addition to e-mail, will be considered (e.g. Facebook, Twitter, LinkedIn, Mixed-Criticality Forum).