

Project ref no	AAL-4-032
Project acronym	T&Tnet
Project full title	T&Tnet: Travel & Transport solutions through emotional-social NETworking
Dissemination level	Public Document
Date of delivery	11/30/2014
Deliverable number	4.5
Deliverable name	Dissemination and exploitation activities
Type	Report (R)
Status	Final
WP contributing to the deliverable	WP4
WP / Task responsible	REPLY
Other contributors	GEO, ITAINNOVA, TELLU, SN, KARDE, AIT, AP-HP, ISOIN
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Keywords	Dissemination, Exploitation, Activities
Abstract (for dissemination)	This deliverable provides a clear list of the overall activities performed during the project's period.



**T&Tnet: Travel & Transport solutions through emotional-social
NETWORKing**

AAL-4-032

Deliverable

<D4.5>

<Dissemination and Exploitation Activities>

<public>

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1. T&Tnet Consortium

The consortium's partners have been selected for their unique expertise and complementary skill sets in the areas of:

- Multimodal Travel and Transport Infrastructure
- System Intelligence and artificial Reasoning
- Journey Planner

from the technology point of view, and:

- Social Care
- Active Users Involvement
- Social Inclusion/e-Inclusion
- ICT for elderly

The consortium is carefully composed to provide the scientific, technical and market expertise that is necessary to achieve the project goals; when combined, the partners hold all of the skills and competences required to ensure that the project has a high impact. Furthermore, all consortium partners have previously collaborated on large-scale research projects, which will ensure a swift launch and efficient execution of the project.

Ingeniería y Soluciones Informáticas (ISOIN) is a Spanish SME working in Information Technology fields, with a deep experience and a highly qualified labour in ambient intelligence, mobile communication, collaborative work and system integration. ISOIN has been qualified as Technological Agent by the Innovation Regional Agency, and is a service provider of the European Space Agency. ISOIN has been participating to a relevant number of research projects in National and European level, building a reference in research and innovation in our competences.

Tellu AS is a software company that provides applications within the mobile phone domain. Tellu developed a solution to track mobile units in collaboration with Telenor Objects. After the collaboration ended, Tellu has extended the solution into a complete

sensor integration and application platform called SmartTracker. Tellu has developed the frontend, rule engine as well as Android and iPhone clients for SmartTracker. Tellu's expertise lies in building solutions by integrating and combining a number of service enablers to form new services in an efficient way.

Austrian Institute of Technology (AIT) is one of Europe's leading organizations in the area of Human-Computer Interaction (HCI), User Experience Research, User Interface Design, User-Centred Design, Usability Engineering, and Next Generation Interfaces. It specialises in the utilisation and development of user experience engineering and user-centred design methods, the study of user experience and its influencing factors, and research of diverse contextual situations as well as the methodological transfer of the attained knowledge into alternative interface design approaches.

Karde AS is an SME offering R&D-services within innovation and project management and as specialists on assistive technologies for persons with dementia or intellectual disability, usability and accessibility. User requirements analysis and user-centric design are also Karde's areas of expertise.

GeoImaging Ltd (GEO) is a leading SME in Cyprus, established in 2002 at Nicosia. The company offers scientific and professional solutions in Geo-informatics and IT. It is also active in Research and Development (R&D) programmes, in EU & national funded projects and provides consultations services as well. The services and consultations of GeoImaging are tailored towards Geo-informatics area that helps public and private sector succeed with improving their performance and implementing projects. The products and services span state of the art knowledge and technology from spatial/image information acquisition, processing, analysis to representation and visualisation.

ITAINNOVA is the Technological Institute of Aragon, a public Technology Centre whose mission is to help companies, technology leaders, institutions and anyone who shapes our society towards achieving a new future through innovation and technological development.

ITAINNOVA offers its services with a clear market orientation, providing real and innovative solutions from our lines of research and development, which transform and accelerate the technological processes of companies or new challenges in our society.

Reply S.p.A is a leading Consulting, Systems Integration, Application Management and Business Process Outsourcing company, specialized in the creation and implementation of solutions based on new communication networks and digital media. Founded in 1996, Reply closed 2012 with consolidated sales of about 500 million euros, and about 4000 employees. Reply [Rey.MI] is listed in the Star segment of the Italian stock exchange, operates in Italy, Germany, UK, USA and Brazil and is included in the top 10 ten list of the IT European Companies in terms of turnover. Santer Reply S.p.A., part of the group Reply S.p.A., operates from 2002 in system development and integration for many industrial sectors, public administrations and Healthcare.

Seniornett Norge (SN) is an NGO working for the inclusion of elderly people in the “e-” world: PC, Internet etc. As is the case all over Europe, the elderly people (of 55+ years) lags behind in the use of modern “e-“ tools thus causing exclusion. Seniornett Norge, through its voluntary work, seeks to counteract this sad state of affairs.

City Council of Zaragoza, Urban Mobility Department. (ZGZ) Zaragoza is the fifth Spanish city, with more than 700,000 inhabitants, equidistant to Madrid, Barcelona, Valencia and Bilbao. It is the centre of a 350 km radius area that aggregates 55% of the Spanish population and 60% of its GDP. Zaragoza works constantly to find new methods to achieve a sustainable mobility in terms of accessibility to all citizens, environmentally-friendly and economy-focused innovations.

The activities of the **Broca Hospital**, which belongs to the Cochin-Broca-Hotel-Dieu hospital and to Assistance Publique des Hôpitaux de Paris (**AP-HP**), include medical care, research and teaching in Geriatrics with (1) Geriatric network in the community (2) Acute and rehabilitation care hospitalisation, (3) Long-term hospitalisation, (4) Day care hospitalisation, (5) day care centre.

2. Introduction

This section is divided in two parts. The first one will explain the main purpose of the document. The second part, instead, will present the structure of the document.

2.1. Purpose and scope of the document

This document, entitled D4.5 “Dissemination and Exploitation Activities” is prepared in the context of the Work Package 4 (WP4) “Raising Awareness and Exploitation Activities”.

The focus of this deliverable is to provide the complete list of the activities performed during the project’s evolution.

2.2. Structure of the document

This deliverable is organized as follows:

- *Section 1*: Brief description of the whole consortium.
- *Section 2*: Purpose, scope and structure of the document.
- *Section 3*: Brief description of the T&Tnet project.
- *Section 4*: List of the dissemination and exploitation activities per Partner
- *Acronyms Table*: This table provide a list of all the acronyms used in this deliverable.
- *Templates*: This section will include the complete list of templates (web-site, flyers, brochure, etc.) used during all the events and all along the project development.
- *Annexes*

3. T&Tnet description

The main idea of **T&Tnet** (<http://ttnet-aal.eu/>) (Twitter Account: @TTnet_AAL), 30-months project submitted for the AAL-JP Call 4, is to provide to elderly people:

- personalized context-based multimodal and multinational social journey planning with affective capabilities,

and an

- easy to follow adaptive real time guidance making use of artificial reasoning based on an information manager.

This solution will allow elderly to carry out and solve movement tasks and problems independently in a totally new way by offering a service of navigation and orientation adapted to the user preferences in real time. This process of personalization will be done thanks to macro-services:

- Transport information.
- Real Time emotions.
- Collaborative Evolutionary Platform.

The system will be improved and constantly updated taking into account changing user's preferences, surrounding and feelings in different situations. The application will also provide a help on demand system, which allows the user to contact directly with families or caretakers.

3.1. Mission and Vision

The Mission and Vision Statements represent the “what” and the “where” of the project and identify its main purpose, scope and willingness in the market.¹

- **Mission:** To make a difference in the elderly life and giving them the chance, through our system, to move, meet people, share ideas, emotions and live more easily and serenely.
- **Vision:** To help people to live intensely and continue to share experiences and ideas between them all along their life.

¹ See the D4.2 “Dissemination and Exploitation Plan” for further information.

4. Dissemination

Dissemination Mission: to communicate, to share and to promote the achievements, services and methodology of the T&Tnet project and create a feedback between the consortium and the various stakeholders.

4.1. Specific T&Tnet events

In the table below is provided a list of all the events held by the Consortium and where it participate, structured as:

- *Partner:* The Partner/s holding/participating the event.
- *Who:* The intended audience.
- *What:* The main topic of the event.
- *When:* The period when the event will be held.
- *Where:* The Event identification and the location where it will be held.
- *Why:* The main objectives the partner want to reach and outcome expected. (e.g. awareness generation, exploitation chance, networking etc.)
- *How:* The kind of activity that will be included during the event. (e.g. Official Presentation, Content Audio/Video, Demos etc.)

Partner	Who	What	When	Where	Why	How
Tellu	Public Authority		27 February 2013	Conventions and Stakeholders forums	Awareness Generation and Data Collection	
APHP	Researchers in technologies for health	social media, mobile apps and internet/web 2.0 in medicine, health and biomedical research	September 23 & 24 2013	London, England	Networking	Official presentation (oral or poster)
AIT	AAL Forum 2013	General AAL networking event	September 24-26, 2013	Norrköping, Sweden	Networking	(Poster, Extended abstract, Presentation, ...)
Reply	eHealth specialist, ICT Specialist, Public Authority, Target Users	E-Health, Social Inclusion, Active and Healthy Ageing	May 28, 2013	eHealth Forum, Rome, Italy	Networking, Awareness Generation	Presentation, WoM, Brief Description
Reply	AgeingWell Thematic Network	Active and Healthy Ageing	Newsletter of May 2013	International Newsletter	Awareness Generation, Networking	Brief Description
Reply	End-Users,	World Masters	Turin, from 28 th July 2013 to 11 th	World Masters	Awareness	Presentation,

KARDE	Public Authority	Games	August 2013	Games	Generation, Networking	WoM, Brief Description
	AAL Forum 2013, Practitioners	General AAL networking event	September 24-26, 2013	Norrköping, Sweden	Awareness Generation, Networking	Poster, WoM
ITAINNOVA	End-Users, Public Authority	Innovation Fair	October 10 th to 13 th , 2013	Saragossa's Fair Innovation Pavilion	Awareness Generation, Networking	Presentation, WoM, Brief Description
KARDE	Scientific and practitioners	On-line with age and dignity	23.5.2013, Scandic Gardermoen, Oslo Airport, Norway.	IT without thresholds. Final conference of IT Funk 1998-2012.	Scientific dissemination	General oral presentation of project
KARDE	Scientific and practitioners	Technologies for mastery, pleasure and well-being	Velferdsteknologikonferansen 2013 – VELKON 2013 23.10.2013	Rica Hell Hotel, Værnes, Norway.	Scientific dissemination	General oral presentation of project
KARDE	Scientific and practitioners	Karde's involvement in AAL-projects (Call 3,4,5)	12.11.2013, Oslo, Norway.	POSEIDON Kick-off (7FP, Grant agreement no. 610840)	Scientific dissemination	General oral presentation of project
GEO	End-Users, Public authorities	Workshop organized by GEO	30 June 2014	Paphos, Cyprus	Awareness raising	Workshop
ITAINNOVA	XI Foro de Innovación Social	social innovation	28 Nov 2014	Huesca, Spain	Awareness Generation, Networking	Official presentation (oral)
ITAINNOVA,	Engineers,	XI, Congreso de	9,10,11 June 2013	Santander, Spain	Scientific	Official

ISOIN	Municipality mobility responsables	Ingenieria del Transporte				dissemination	presentation (oral)
ITAINNOVA, ZGZ	Public authority	newsletter de la actividad internacional del ayuntamiento de zaragoza	Spring 2014		Zaragoza	Awareness Generation, Networking	Brief Description
ITAINNOVA	End-users, citizens	news on newspaper	26 nov 2013		Newspaper	Awareness Generation, Networking	Extendend project presentation
ITAINNOVA	Public authority, end users	Tercer Milenio, Speciall issue of Heraldo de Aragon	16 Dic 2014		Special supplement	Awareness Generation, Networking	Brief description
KARDE	Scientific and practitioners	Creating accessible mobility apps for seniors through user-centric design process	16-18. June 2014		Universal Design 2014	Karde	Scientific and practitioners
KARDE	Scientific dissemination	Oral presentation				Lund, Sweden	Scientific dissemination
KARDE	Scientific and practitioners	What do we need assistive	September 21014		AAL Forum 2014		Scientific and practitioners

KARDE	technologies for?					
	Scientific dissemination	Oral presentation			Bucharest, Romania	Scientific dissemination
	Scientific and practitioners, C-Level	Health and Social Care	September 2014	Healthcare Efficiency through Technology Expo	London	Extendend project presentation, Brief Description
	C-Level	Health and Social Care	November 2014	Health 2.0	London	Brief Description
	AAL Forum 2013	General AAL networking event	September 24-26, 2013	Norrköping, Sweden	Networking	(Poster, Extended abstract, Presentation, ...)
	AAL Forum 2014	General AAL networking event	September 9-12, 2014	Bucharest, Romania	Networking	(Poster, Extended abstract, Presentation, ...)
Local & Regional Authorities	Raising the awareness of AAL JP activities and AAL JP projects "	27.11.2013	Science 14 Atrium Bruxelles	Match making activities and demonstrations	Project presentation & face to face meetings	

Table 1 - T&Tnet Events

4.2. Scientific Dissemination

Partner	Publication	Objective	When	Audience	Description
AIT	“I need to know, I cannot, I don’t understand”: older users’ requirements for a navigation application	Scientific dissemination	AAATE 2013 (September 19-22, 2013)	Scientific	Summary of the results of the T&Tnet requirements analysis
KARDE	HCI and usability issues in mobility (Poster)	Scientific dissemination	AAL Forum 2013	Practitioners	Design methodology of the system and its HCI
ISOIN/GEO/ITA	T&Tnet – Towards the standardization of collecting urban mobility data in the cities: gtfs	Scientific Dissemination	AAL Forum 2013	Mobility managers and travel planners	Description of a common transport data format
AIT	T&Tnet – Older users’ requirements for a navigation application (Poster)	Scientific Dissemination	AAL Forum 2013		
APHP	Seniors Navigation: Understanding Their	Scientific Dissemination	September 23 & 24 2013, London, England		The aim of this exploratory study is to

	Needs as to Create an Adaptive Smartphone Application	identify the daily navigation needs and issues of seniors from four countries (France, Austria, Norway and Spain).
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Table 2 - T&Tnet Papers

4.3. List of Action per nations

ITAINNOVA:

- In their personal web site, (www.ita.es) and the other related to logistics division, ITAINNOVA presents the T&Tnet project and allows the upload of the videos and other multimedia content generated.
- ECITL event was held by ITAINNOVA in 2013 (<http://www.ecitl.eu/index.php>).
- ITAINNOVA performed some dissemination activities to other relevant partners involved in other projects (e.g. CarCoDe, GoRural, LOGINN, SoCool).
- The ITAINNOVA twitter account is active and linked to the T&Tnet account and will be used to spread content and information through the social platform.
- The focus group users involved in the process actives participants in training sessions; volunteers in Zaragoza social house and others tried T&Tnet services and application during the project.
- During some Master Classes, ITAINNOVA performed also some dissemination activities to let the master students be aware about the potentiality and the benefits of the whole T&Tnet application.

Reply:

Reply uses its entire network to disseminate the T&Tnet project focusing the attention on the benefits that the application with all the high level services will provide to the end-users:

- *Workshop and Conventions:*
 - 28 May, Rome, National Health Forum
 - 29-31 October, Genova, CpExpo
- *Thematic Network:* Submission of T&Tnet project to the Ageing Well Thematic network (<http://www.ict-ageingwell.net/>) and network exploitation.
- *Web-Site and Social Communication:* Reply uses its network to promote T&Tnet; the use of the TamTamy platform will be used for internal dissemination.

- *World Masters Games* (<http://www.torino2013wmg.org/>²): During the entire event, Turin 28th July 2013-11th August 2013, Reply had a permanent stand presenting its offering and projects. The T&Tnet project was presented as well using the dissemination material
- *Xchange 2013/2014*: This is an international conference managed by the Reply S.p.A. to disseminate and share ideas and innovation between the Reply's network and the relative stakeholders. During this event Santer Reply presented the T&Tnet project as an innovation in the AAL field.
- *HETT 2014* ([Healthcare Efficiency through Technology Expo](#))
- [Health 2.0, London](#)
- *Other*: Presentation of T&Tnet project and benefits to relevant partners in the e-health, tele-health, tele-care and e-social-inclusion sector.

Tellu:

Tellu's partner, Karde handles most dissemination activities for the Norwegian part of the project so Tellu assisted them when required, specifically in providing technical information for dissemination material. In addition Tellu talked about the project every time an opportunity arisen and hosted all the relevant information on their own web site. Moreover they presented the project also at their partners in the tracking and AAL fields.

GEO :

- *Workshop*: GEO organized a workshop in Paphos, Cyprus (30.6.2014). In the workshop, GEO invited local stakeholders such as relevant ministries, local authorities, NGOs, academia and research institutes. A dedicated invitation was sent to 89 local participants..

² Link checked as available at 2th august 2013



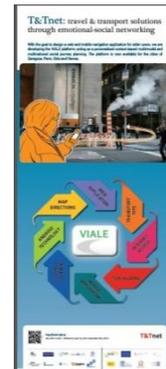
Paphos Workshop invitation folder



Reference to local Media



The Mayor of Yeroskipos Mr. Michalis Pavlides addressing the workshop



Roll-up banner for Paphos Workshop

- **Papers:** GEO is planning to prepare 2 papers to present the work to be done for the social collaborative and journey platform. The papers are scheduled either to be presented in relevant workshops/conferences or in appropriate journals. At this stage is impossible to define both the exact titles and the fora to be presented.
- **Website:** All project activities are presented in our website at www.geomaging.com.cy. At the same time, GEO is providing text and useful input the update of the project website www.ttnet-aal.eu.
- **Video-DVD:** according to the national contract signed by GEO, a promotional video was prepared and delivered as DVD in order to promote T&Tnet project and enhance visibility during and after the termination of the project. The video is used

by all partners in dissemination activities and is available also through online streaming through the partners' websites.

KARDE:

Throughout the lifetime of the project KARDE foresees the following activities aiming at both creating interest for the coming application in the Norwegian society as well as getting feedback that can be used in the further development:

- *Karde's website*: covering the professional network of ICT-related companies and individuals, as well as user groups representing elderly citizens and volunteer associations.
- *Focus group members*: Spreading information about technology opportunities by "word of mouth" in collaboration with Seniornett Norge.
- *Oral presentations*: Spreading by word of mouth in everyday working contexts and using presentations at conferences, seminars and meetings in Norway.
- *Popular scientific papers at conferences that cover*:
 - Elderly citizens' ICT/AT needs
 - HCI design, soft methodologies
 - AT consumer market

SN:

Throughout the lifetime of the project Seniornett foresees the following activities aiming at both creating interest for the coming application in the Norwegian society as well as getting feedback that can be used in the further development:

- *The Seniornett website*: Thanks to the website (<http://www.seniornet.org/>), covering the member population (7000) and the Norwegian elderly population in general, will be presented an extensive overview of T&Tnet and will be uploaded all the videos and the other dissemination material that will be elaborated.
- *Focus group members*: Seniornett will spread the information and the relevant content by "word of mouth".

- *Local Clubs Demo:* Demo, presentation and other content will be used to present T&Tnet and to prove the efficiency and the performance of the entire system developed, to their 175 clubs all over Norway. Moreover there will be invitation to local newspapers thereby reaching the local community.
- *Selected members in groups:* Seniornett will also participate in some Interactive Training Session with a pool of selected member with the final objective to provide useful feedbacks and to spread the information of T&Tnet by “word of mouth”.

ISOIN:

ISOIN took T&Tnet as a key project in the development of one of its strategic field of knowledge and business. ISOIN has taken the commitment to spread the project’s idea effectively. Then, organized and carried out a set of events to accomplish such dissemination. Namely:

- *Presented the project to companies, universities, research centres and institutions* at a national & EU level involved in the innovation and inclusion of ICT technologies in telemedicine and healthcare.
- *Organized workshops and conferences.* In addition, ISOIN took advantage of social networks (mainly Facebook and Twitter) and specific e-resources such as specialized webs, blogs, journals, etc.
- *Published the project in the company website,* and all the relevant content generated throughout the project to engage partners and other companies both at national and international levels.
- *Disseminated results to Spanish Technological Platforms* (e.g. eHealth, wellbeing and social eInclusion, Mobile and Wireless Communications and Systems with integrated intelligence, as well as the Mobility Regional Office of Seville).

5. Acronyms Table

Acronyms	Description
ISOIN	Ingeniería Y Soluciones Informáticas S.L.
TELLU	Tellu AS
AIT	Austrian Institute of Technology
KARDE	Karde AS
GEO	GeoImaging Ltd
ITAINNOVA	InstitutoTecnológico de Aragón
REPLY	Santer Reply S.p.A.
SN	SeniornettNorge
ZGZ	Zaragoza City Council
AP-HP	AP-HP/HôpitalBroca

6. Templates

6.1. Web-Site

T&Tnet
Travel & Transport solutions through emotional-social NETWORKing

Menu

- Home
- Project Overview
- Benefits
- Consortium
- Dissemination
- News
- Events
- Contact

March

S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

T&Tnet – Travel & Transport solutions through emotional-social NETWORKing

Nowadays, the use of GPS devices or smart phones is increasingly widespread for travelling between cities or to navigate inside a town. However, there is a complete lack of pedestrian navigation systems specially adapted to elder people needs and skills.

The idea of T&Tnet is to provide personalised context-based multimodal and multinational social journey planning with affective capabilities and an easy to follow adaptive real time guidance making use of artificial reasoning based on an information manager (filtering and combining). This solution will allow them to carry out and solve movement tasks and problems independently.

T&Tnet not only provides solutions helping elderly to get to a specific destination making use of a different transport means, but offers navigation/orientation adapted to the user preferences in real time which makes use of transport information (schedule, delay, occupation ...), emotions, social networks, a collaborative evolutionary platform and message/alarm/bring-back to the route system.

User login

Username *

Password *

Request new password

Log in

The project T&Tnet is cofunded by the AAL Joint Programme

(Ref. AAL-2011-4-032)

and the following National Authorities and R&D programs in Spain, Norway, Austria, Cyprus, Italy and France.

Templates 1 - Web-Site Home Page



Video 1 - T&Tnet video³



Figure 1 - Twitter account home page

³ <https://www.youtube.com/watch?v=3z9iawMRteg&feature=youtu.be>

6.2. Posters, Leaflets and Brochure

T&Tnet
Travel & Transport solutions through emotional social NETWORKING
http://ttnet-eu.eu

OBJECTIVES

- T&Tnet is intended to provide personalized customized multimodal and multimodal (social) journey planning with effective capabilities by means of:
 - Real-time guidance
 - Artificial reasoning
 - Guidance based on personal preferences
 - Geolocated accessibility context-aware to sensors
 - Collaborative maps
 - The route takes into account friends on the surroundings and activities

KEY CONCEPTS

system USER information

BASIC ARCHITECTURE

TECHNOLOGIES

Multimodal base and transport infrastructure

- Time-dependent, intermodal, optimum path algorithms
- Network logical modeling, user-sourcing techniques and metaheuristic algorithms

System intelligence and artificial reasoning

- Real-time multimodal sensor measurement
- Multimodal user integration
- Adaptive Reasoning
- Event generation, action triggering
- Social collaboration platform
- Changing/generating the selected route
- Geolocated context related with accessibility

T&Tnet PREFERENCES

- The system asks user's preferences only the first time
- The user preferences will be updated only based on user's actions and decisions
- The user can control his preferences at anytime

CONSORTIUM
Coordinators: **ISGIN**, **telu**, **ita**, **Zaragoza**, **Geo**, **Karde AS**, **Reply**, **Sunornett**

Templates 2 – Poster 1

T&Tnet
Travel & Transport solutions through emotional social NETWORKING
http://ttnet-eu.eu
@Ttnet_AAL

Technological Excellence

Active Learning

System Learned

Social Collaboration

Emotional Feedbacks given by the users using the T&Tnet application

Safety and Serenity

Improve the system

Report an adverse event

Notification request for help for the interested user

CONSORTIUM
Coordinators: **ISGIN**, **telu**, **ita**, **Zaragoza**, **Geo**, **Karde AS**, **Reply**, **Sunornett**

Templates 3 - Poster 2

T&Tnet
Travel & Transport solutions through emotional social NETWORKING
http://ttnet-eu.eu
@Ttnet_AAL

The main idea of T&Tnet: 20-months project submitted to the AAL-4 call, it is provided a daily assist:

- personalized context-based multimodal and multimodal social journey planning with effective capabilities
- an idea to follow adaptive real-time guidance making use of a virtual reasoning based on an information manager (filtering and combining)

The solution will allow users to carry out the active movement in a safe and problem-independent in a totally new way by offering a service that integrates and combines the user's preferences in real-time. The proposed full personalization of the user preferences will be designed to control multi-modalities:

- Transport information, such as real-time, delay, occupation, etc.
- Real-time activities of the user using the T&Tnet application
- Collaborative evolution in platform

The system will be designed and developed using the following emerging user's preferences, surrounding and the existing in different situations. The application will also provide a help on demand system, which allows the user to contact directly with friends or companions.

The objectives will be achieved by a series of pilot studies in Spain, Norway and France that will test end-user usability in order to provide user behavior, usability and their real needs and to collect user's feedback on the proposed development. This process will allow the whole consortium meaningful information that will contribute to enhance the development of the services in order to fully meet the end-user requirements. Summarizing the pilot application has the following goals:

- Involve end-user in the development process in order to evaluate outcomes
- Measure the implementation quality in terms of user experience
- Validate the final product's outcomes

In this process the involvement of end-user association and Public Entities, part of the T&Tnet Consortium, will assure the user-centered approach for the development of the services of T&Tnet Application. This process will allow to explore preliminary concepts regarding the product and to gather quantitative information about user's judgments, preferences and needs with regard to the use of transportation systems and corresponding information content. Moreover, quantitative will be developed to the others activities to gather additional quantitative data to the qualitative feedback collected from focus groups.

CONSORTIUM
Coordinators: **ISGIN**, **telu**, **ita**, **Zaragoza**, **Geo**, **Karde AS**, **Reply**, **Sunornett**

*Funded by the EU commission, the ambient assisted living program and the national funding agencies of Spain (MINECO), Norway (RCY), France (ANR and OCA), Austria (FFG), Cyprus (RRF) and Italy (INFNIST).

Templates 4 - Leaflet Front

Isabelle is an old woman (75 years old) who lives in the village of... in the 2nd quarter of Paris. Her driver is located in the south-west of Paris 2 km from her apartment. She has a high blood pressure and several family members suffer from cancer or diabetes. She generally communicates to the doctor through her mobile. In the 2nd quarter of Paris, the medical examination is expensive. She wants to be sure to arrive on time and not to be late about facing unexpected events regarding bus to transport, such as technical problem on the line, bus lane train, etc.

As a 75-year-old person, she has many problems, as she needs to go in the public transport and climbing stairs might be painful. This is why she often has to have one or two errors on the application. Except when it's raining, she also likes to walk with a dog. Her dog is not used to go with her from some parts of the city. Additionally, if possible, she would like to see her doctor more often when a technical problem occurs, because the delay might affect her appointment, and a doctor's fee is not provided. Her doctor's consultation schedule is planned every six months usually at 2:00 pm, as she wants to arrive at the hospital at 2:00 pm. The first time Isabelle opened the T&Tnet app she and she configured it according to these requirements she entered the following preferences:

- She selected to use public transport as her main mode of transport.
- In order not to get up she configured walking time with a 2 km radius and selected to use only accessible stations with facilities (e.g. elevators or stairs).
- She always not considered transport option in order that she could sit.

The T&Tnet app suggested Isabelle to drive bus 22 from Annexe - Musée Pasteur station to the bus stop Pasteur - Métro. Isabelle would have used from her home to Annexe bus stop and then a normal 15 minutes to reach the hospital from Annexe stop.

As an error occurs in the route Pasteur: The traffic is disrupted and it will take 25 minutes to reach the hospital. The T&Tnet user reports the accident in the application. The user proposes to Isabelle an alternative way, in order to avoid the bus 22.

Isabelle has to take the metro to the 2nd district in order from Pasteur to Glacière station. There will be a walk 2 minutes to Pasteur and 12 minutes from 2 to Glacière station.

When Isabelle arrives to hospital the T&Tnet application asks her to enter the name of the bus stop but her attention is not on the screen. She is very nervous because the doctor's appointment and she has to arrive on time to her appointment. At this time in the application that she is very attached with it.

Templates 5 - Leaflet Back

<p><i>"Primary Users: are the person who is actually using an AAL product or service, a single individual, 'the well-being person". This group directly benefits from AAL by increased quality of life"</i></p> <ul style="list-style-type: none"> • Mobility and navigation solution tailored to primers users' needs. • Mobility and wayfinding is facilitated • Social Inclusion <p><i>"Secondary Users: are persons or organizations directly being in contact with a primary end-user, such as formal and informal care persons, family members, friends, neighbors, care organizations and their representatives. This group benefits from AAL directly when using AAL products and services (at a primary end-user's home or remote) and indirectly when the care needs of primary end-users are reduced."</i></p> <ul style="list-style-type: none"> • Increased activity, thus better health • More independence <p>http://ttnet-aal.eu</p> <p>@TTnet_AAL</p>	 <p>Coordinator Contact: Víctor Sánchez (Innovation and Technology department director). Email: vsanchez@isoin.es Mobile: +34 685 48 39 12 Phone: +34 954 21 90 13 http://www.isoin.es</p>	 <p>Travel & Transport solutions through emotional-social NETWORKing</p> <p>The AAL JP is a funding activity that aims to create better condition of life for the older adults and to strengthen the industrial opportunities in Europe through the use of information and communication technology (ICT). It carries out its mandate through the funding of a cross-national projects that involves small and medium enterprises (SME), research bodies and users organizations (representing the older adults).</p> <p>T&Tnet is a 30-months project submitted for the AAL-JP (Ambient Assisted Living – Joint Programme) Call 4 "ICT-based Solutions for Advancement of Older Persons' Mobility".</p>  <p><i>"Partially funded by the EU commission, the ambient assisted living joint programme and the national funding agencies of Spain (MINETUR), Norway (RCN), France (ANR and CNSA), Austria (FFG), Cyprus (RFF) and Italy (MIUR)."</i></p>
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Templates 6 - Brochure Front

 <p>The main idea of T&Tnet is to provide to elderly people:</p> <ul style="list-style-type: none"> • personalized context-based multimodal and multi-national social journey planning with effective capabilities, and an • easy to follow adaptive real time guidance making use of artificial reasoning based on an information manager. <p>This solution will allow elderly to carry out and solve movement tasks and problems independently in a totally new way by offering a service of navigation and orientation adapted to the user preferences in real time. This process of personalization will be done thanks to micro-services:</p> <ul style="list-style-type: none"> • Transport information. • Real Time emotions. • Collaborative Evolutionary Platform. <p>HOW DOES IT WORK</p> <p>Maria has been given for her 73th birthday a new dress but it doesn't fit her because it's too small and she wants to change it. The dress was bought in a shop located in a new shopping center in the south of Vienna.</p>	<p>She can't drive and she doesn't want her daughter to take her by car to the shopping center, so Maria decides to use public transport. She has never been there before and she doesn't know exactly how to reach it.</p> <p>Additionally, she needs to pass by a pharmacy to buy medicine without deviating much from her main route. That's why she uses the T&Tnet web site to calculate the best route.</p>  <p>The shop is open until 12.00h and she wants to arrive at least one hour before the closing time to have time enough to decide. She introduces 12.00h as the desired arriving time.</p> <p>The application gives her several routes with different combinations of public transports and walking stratoes and Maria selects the desired route.</p> <p>She follows the indications as usual. She gets off one bus at 11:00 and walks to the pharmacy. The bus she has to take at the station will arrive in 30 minutes (11:30) so she has time enough to buy the medicine. When she is about to arrive to the pharmacy the application detects that the bus is delayed by 30 minutes and a sound alarm to advise Maria. The application offers her an alternative route which suggests taking a different bus line and arriving to the shopping center at 12:10h. She accepts the new route. After buying the medicine, she goes to the bus station, gets into the bus and arrives to the shopping center at 12:10h instead of 12:00h.</p>  <p>Once Maria has changed the dress, she wants to go back home but she is very tired. She feels sick and unable to return home by her own. She needs her daughter's help so she fires an alarm in T&Tnet, her daughter receives it with the address where Maria is and then Maria's daughter takes her car, drives up to the shopping center and carries her back home. Upon the arrival, T&Tnet asks Maria for feedback.</p>	<p>In order to gain knowledge about context, interaction and the user's mental model, exploration of users' personal experiences, opinions and wishes is required, because the added value of a product is not proportional to the amount of functionality that it includes; the user should be able to understand without much effort and use effectively the functionality provided to complete his tasks. Otherwise, unnecessary complexity can reduce the benefits of the application by overwhelming the user.</p> <p>For this purpose, different types of platforms, interaction techniques and a variety of use cases, initially suggested according to the T&Tnet project idea, have been proposed to users by focus groups and questionnaires.</p> <p>The T&Tnet application assumes a good level of mobility and capability of using mobile technology; therefore it is designed on the needs of relatively healthy and independent older individuals: thus the secondary users do not have the role of the carer, but are mostly engaged in mutual social interactions with the primary users, are interested in their wellbeing and available to support them if needed. Such users can be identified in family members, friends and relatives of the target users as well as organizations which support seniors' well-being and mobility (e.g. travel agencies organizing trips for seniors).</p> 
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Templates 7 - Brochure Back

6.3. Others

6.3.1. T&Tnet Logo

The logo for T&Tnet features the letters 'T&T' in a bold, red, sans-serif font, followed by 'net' in a bold, black, sans-serif font. The ampersand is stylized and integrated between the two 'T's.

Travel & Transport solutions through emotional-social NETWORKING

[Templates 9 - T&Tnet Logo](#)

7. Annexes

7.1. Contact Points

Company Name	Country	Company Logo	Contact Point	Telephone Number	E- Mail
ISOIN	Spain		Víctor Sánchez	+34 954219013	vsanchez@isoin.es
			Martín		elisa.jimeno@isoin.es
TELLU	Norway		Lars Thomas Boye	+47 90572929	lars.thomas.boyetellu.no
AIT	Austria		Angeliki Angeletou	+43 664 88964942	Angeliki.Angeletou@ait.ac.at
			Markus Garschall	+43 664 88964934	Markus.Garschall@ait.ac.at
KARDE	Norway		Riitta Hellman	+47 98211200	rh@karde.no
GEO	Cyprus		Dr Stratos Stylianidis	+ 357 22 447770	stratos@geoimaging.com.cy
			Valari Elena		elena@geoimaging.com.cy
ITAINNOVA	Spain		Pablo Perez	+34 976011065	pperez@itainnova.es
			David Escuín	+34 976011888	descuin@itainnova.es

			Miguel Angel Gracia	+ 34 974 012 565	mgracia@itainnova.es
REPLY	Italy		Fulvio Marchetti	+39 02535761	f.marchetti@reply.it
			Nicola Bottone		n.bottone@reply.it
SN	Norway		Helge Klitzing	+47 90019343	helge.klitzing@seniornett.no
ZGZ	Spain		José Antonio Chanca Cáceres		jchanca@zaragoza.es
AP-HP	France		Victoria Cristancho- Lacroix	+33 1 44 083351	Victoria.cristancho@gmail.com

Table 3 - Contact Points

7.2. Abstracts

7.2.1. Seniors navigation

Seniors navigation: Understanding their needs as to create an adaptive smartphone application

Victoria Cristancho-Lacroix, Angeliki Angeletou, Riitaa Hellman, David Escuin , Helge Klitzing, Fernando Benavides, Victor Sanchez and T&Tnet consortium.

Background Navigation applications are nowadays widely available in mobile devices. Despite the variety of scopes used for their development, to best of our knowledge, seniors' needs, and requirements are not addressed by any navigation application, at least at a commercial level. Nevertheless, there is evidence that a navigation application for senior citizens would be increasingly valuable. Engaging in social activities is cited as one aspect that would improve quality of life [1]. Thus, the aim of T&Tnet project is to provide a personalized context-based multimodal and multinational social journey planning with affective capabilities, and an easy to follow adaptive real time guidance making use of artificial reasoning based on an information manager (filtering and combining). Identifying the needs according to the lifestyle of the target population is a crucial preliminary stage to develop an adapted social navigation application.

Objective The aim of this exploratory study is to evaluate the navigation needs, wishes, and opinions of older populations in four countries (France, Austria, Norway and Spain). The results of this study T&Tnet Consortium (European AAL Project) will establish the first mock-ups and technical requirements of the application.

Methods Four countries participated in this exploratory study following the same methodological protocol. The recruitment was based on a clear definition of end-users (seniors having some experience with mobile devices). A total of 49 participants accepted and signed the consent to participate in the focus groups and fill in a questionnaire. Each focus group session was moderated by one researcher and observed by one or two researchers and the number of participants ranged between countries from six to sixteen. The focus group included a discussion, a brainstorming phase, and a brief

evaluation of ideas generated both by the T&Tnet Consortium and end-users during the brainstorming phase.

Results Different navigation profiles are identified due to the city's infrastructure and external conditions, which determine the choices and personal preferences of navigation. Social encounters, going for a walk, groceries and other everyday tasks are the main motivations behind seniors' mobility, according to French and Spanish participants. Their needs for route planning are very limited, as they visit places already known. Inside their cities, public means of transportation are preferred over private vehicles (taxi, relative's vehicle, own car) in Spain, Austria, and France; the use of private cars is on average limited to 1-2 times per week. On the contrary, in Norway, possibly due to climate, landscape and urban infrastructure, transportation with own car seems to be the norm, scoring the highest use ('almost every day') among other means; metro, bus, tram and transportation with relative's vehicle follow in preference with a frequency of use around 1-2 times per week. It is important to note that all participants need more information regarding public means of transportation. Accessibility information is also highly appreciated by Spanish, French, and especially Norwegian users.

Future directions The T&Tnet services will considerably facilitate end-users everyday journeys encouraging them to maintain their active participation in society. The system will improve mobility and autonomy of the target population by providing assistance for traveling and by stimulating their reasoning and perceptual abilities in everyday life.

8. References

- [1] T&Tnet Deliverable 1.1 – User needs analysis
- [2] T&Tnet Deliverable 4.2 – Dissemination and Exploitation Plan
- [3] T&Tnet Document of Work
- [4] T&Tnet Deliverable 5.1 – Project Management and quality Guidelines
- [5] T&Tnet Deliverable 5.2 – Risk Management Plan