



HEALTH, DEMOGRAPHIC CHANGE AND WELL-BEING

H2020 Project Interests
SYNYO Expertise

About

SYNYO GmbH, an enterprise based in Vienna, Austria, is an independent research, innovation and technology hub that explores, develops and implements novel technologies to tackle business and societal challenges. The interdisciplinary team at SYNYO focuses on the intersection between ICT and Society to provide smart solutions to citizens, consumers and decision makers. SYNYO has designed and realised a number of modern concepts for national and international companies, ministries and municipalities. Additionally, SYNYO is a member of various networks and well-connected within the scientific community to keep up to date on new technologies, solutions, and methodologies.

<p>Future TDM</p> <p><i>Reducing Barriers and Increasing Uptake of Text and Data Mining For Research Environments</i></p> <p>Program: H2020 GARRI</p> <p>Role: Coordinator Number: 665940</p>	<p>iCareCoops</p> <p><i>Fostering Care Cooperatives in Europe by Building an Innovative Platform with ICT-Based and AAL-Driven Services</i></p> <p>Program: AAL</p> <p>Role: Coordinator Number: 802030</p>
<p>SciChallenge</p> <p><i>Next Generation Science Challenges Using Social Media To Make Science Education And Careers Attractive for Young People</i></p> <p>Program: H2020 SEAC</p> <p>Role: Coordinator Number: 665868</p>	<p>IMOPOL+</p> <p><i>iMobility and Police: Technologies, Concepts and Solutions for security related deployment scenarios</i></p> <p>Program: KIRAS</p> <p>Role: Coordinator Number: 8500180</p>
<p>City.Risks</p> <p><i>Avoiding and Mitigating Safety Risks in Urban Environments</i></p> <p>Program: H2020 FCT</p> <p>Role: Partner Number: 653747</p>	<p>Sicher Social</p> <p><i>Information and Knowledge Platform for Safe and Secure Handling of Social Media</i></p> <p>Program: NETIDEE</p> <p>Role: Coordinator Number: 1351</p>
<p>UrbanData2Decide</p> <p><i>Integrated Data Visualisation and Decision Making Solutions to Forecast and Manage Complex Urban Challenges</i></p> <p>Program: JPI Urban Europe</p> <p>Role: Coordinator Number: 847511</p>	<p>TAALXONOMY</p> <p><i>Development of a Feasible Taxonomy for Efficient Classification of Active & Assisted Living (AAL) Products and Services</i></p> <p>Program: BENEFIT</p> <p>Role: Coordinator Number: 846232</p>
<p>Graffolution</p> <p><i>Awareness and Prevention Solutions against Graffiti Vandalism in Public Areas and Transport</i></p> <p>Program: FP7 SEC</p> <p>Role: Coordinator Number: 608152</p>	<p>Social Media Crime</p> <p><i>Structured Analysis and Characterization of Criminal Activities in Social Media and Deduction of a Crime Pattern classification</i></p> <p>Program: KIRAS</p> <p>Role: Coordinator Number: 840799</p>
<p>OpenDataMonitor</p> <p><i>Monitoring, Analysis and Visualisation of Open Data Catalogues, Hubs and Repositories</i></p> <p>Program: FP7 ICT</p> <p>Role: Coordinator Number: 611988</p>	<p>SmartCareBase</p> <p><i>Web-based Information and Collaboration Platform to Support Independent Living of Elderly People</i></p> <p>Program: BENEFIT</p> <p>Role: Coordinator Number: 840699</p>
<p>UniteEurope</p> <p><i>Social Media Analytics and Decision Support Tools Enabling Sustainable Integration Policies and Measures</i></p> <p>Program: FP7 ICT</p> <p>Role: Partner Number: 288308</p>	<p>SMD4Austria</p> <p><i>Social Media Services and Mobile Applications for Security and Prevention in Austria</i></p> <p>Program: KIRAS</p> <p>Role: Partner Number: 836317</p>

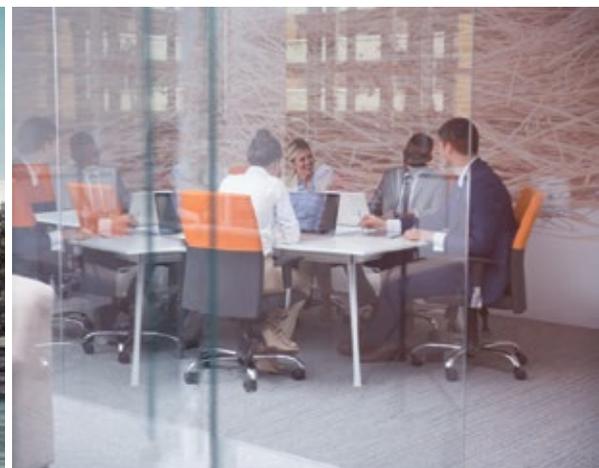
SYNYO has extensive experience in collaborative European-level and national research projects. Under FP7 and H2020 SYNYO is coordinating pioneering projects and participating in other interdisciplinary consortia. Strongly committed to project management and coordination, SYNYO is characterized by its integrity and cooperates closely with its partners and clients to meet their needs accordingly. By fostering collaboration across practices, disciplines, industries and levels, SYNYO stands for a culture of constructive communicative exchange, which is fundamental to developing solutions for businesses, economy and society.

SYNYO in H2020

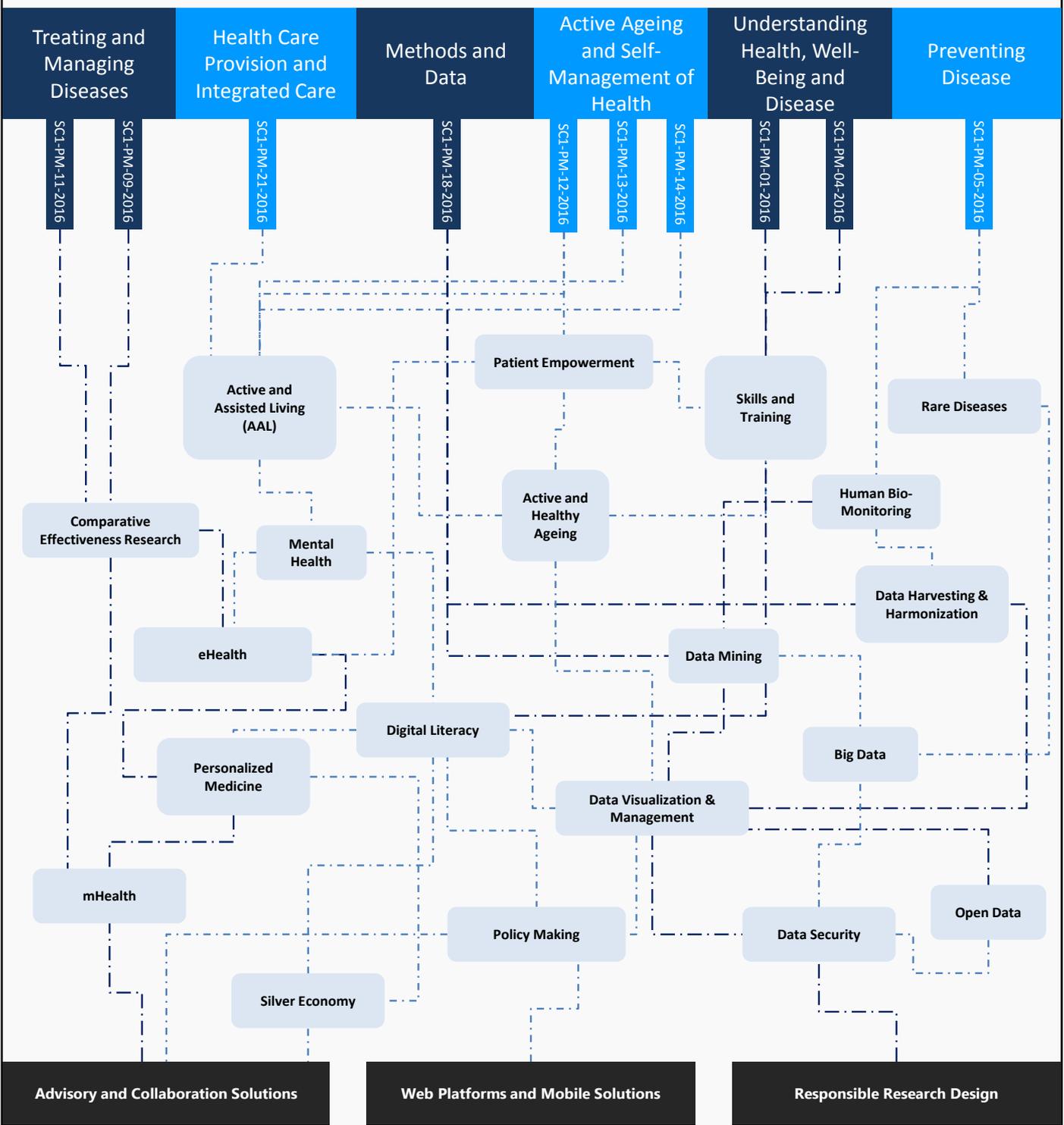
Designing Solutions for Personalised Health and Care.

Modern day technical innovation in the field of health and ageing is currently moving towards pluralization of expertise requirements, incorporating an ever-growing community of experts with highly different background. Through continuous advancement in means of ICT, novel ways to tackle health- and age-related problems are enabled, while further challenges are created. Current trends are set out to address various stakeholders, covering end user, businesses and decision makers in medical and care sectors as well as municipalities. Therefore, topics like patient empowerment, active and healthy aging, eHealth and mHealth, personalized medicine as well as the so-called Silver Economy are increasing in relevance among researchers across the world.

Due to our broad expertise in analysis, research and development, we at SYNYO are able to tackle challenges in developing novel Active and Assisted Living (AAL) solution, to foster digital literacy of end users and policy makers as well as to handle health-related data, covering relevant know-how on big data, open data and information aggregation, harmonization and visualization. Our strong commitment to responsible research design with special respect to security and privacy led to SYNYO's huge success as one of Europe's leading research and development SME in the field of active and healthy ageing.



SYNYO H2020 PROJECT INTERESTS



Foster Medical and Home Technology Uptake

Stimulate Medical Innovation

Enable Health Data Driven Research

IMPACTS

Advance Clinical and Home Applications

Support Medical and Care Staff

Increase Cost Effectiveness

Research

Interdisciplinary Expertise for Strong Insights.

At SYNNO we focus on the intersection between Information and Communication Technologies (ICT) and society to provide smart solutions to citizens, consumers and decision makers. Our team consists of highly motivated employees specialized in various technical fields, including software engineering, social media analytics and information visualization. This technical expertise is applied to tackle contemporary societal challenges in various disciplines such as big/open data research, smart technologies, web entrepreneurship, citizen inclusion, and urban security.

Understanding society, processes of social, cultural, economic and political change and social phenomena in general, are indispensable prerequisites for identifying technological demands as well as for designing and implementing new technologies. Therefore, SYNNO connects available data to a wide array of research fields from which valuable insights into issues of societal relevance can be deduced and for example social inclusion of marginalised groups can be fostered.

Instead focusing on particular area in regards to ICT and society, SYNNO assigns great importance to interdisciplinarity and considers the whole range of social and technological research, which enables to view and analyse issues of interest from various perspectives.

Roles

+ eHealth, mHealth, sHealth

+ Stakeholder Surveys

+ Ethical and Privacy Assessment

+ Dissemination Channels

+ Market-ready support

+ Demonstration Activities and Pilots



Research

A Strong Foundation for Stronger Solutions

Basic literature research, best practice analyses and comprehensive technical investigations form a powerful evidence base for a successful end-solution exceeding state of the art. Over the years SYNYO has established an all-encompassing knowledge base on AAL and health services enabling quick decision making and project planning.

eHealth, mHealth, sHealth Research

Building on the expertise and a network of experts and solution providers in the field of AAL and Smart Care, SYNYO is continuously engaging in new projects, exploring different related sectors like eHealth, mobile and social Health or inclusive work life, providing innovative software solutions as well as intelligent mobile applications.

Stakeholder Surveys with AAL Vendors

SYNYO's software projects are based on a profound requirements analysis and negotiation approach, which helps to address the specific needs of the clients and the end-users. In order to refine the specifications collected within this phase, we strategically employ various quality assurance techniques (i.e. expert surveys) in all stages of our projects.

Co-Create, Collaborate, Share

The idea of providing cooperative informal care in the community is not new and there are a number of best practices in the "offline world" which are already demonstrating the virtues of a community-based care approach. SYNYO is translating these advantages into the health and care context with intelligent ICT-solutions fostering cooperation and optimizing the coordination of care services.

Providing APIs for Seamless Communication

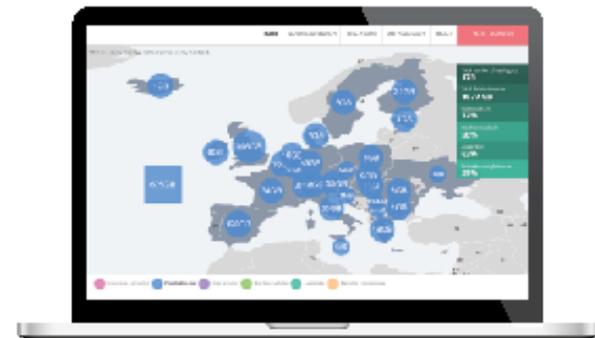
SYNYO aims to integrate existing AAL gateways, devices and services where ever possible. Our web-solutions serve as technical triggers for care actions and promote AAL solutions over an agent-based directory to established care organizations. Open APIs enable the seamless communication between the SYNYO core solution and third party applications.

Technical Expertise and Thought-leadership

Our technological portfolio is built around our analytical expertise to transform user requirements into technical concepts. Starting with system architecture and conceptual platform design we develop and code novel software solutions keeping in mind current interface trends and aiming for an open platform providing open data and APIs.

Beyond the Project

Health applications go beyond the project scope. Sustainable strategies for the rollout of the innovative concepts of care are vital fostering care efficiency and further distribution of AAL solutions. This includes defining specific adaptation measures according to given local conditions (legal, cultural, etc.) as well as elaborating opportunities for commercial exploitation.



SYNYO, with its interdisciplinary approach, has accumulated a rich Active and Assisted Living (AAL) project expertise through a thought-leading team. In addition to that, SYNYO has been able to deeply dive into the network of AAL partners and affiliates from governments, industry and research sectors to ensure wide-reaching impacts of proposals and projects. Understanding social, cultural, economic and political dynamics within a society are indispensable prerequisites for identifying technological demands, and for implementing inventive solutions. SYNYO builds social collaborative platforms to improve approaches in the fields of AAL, bringing state-of-the-art solutions to Connected Care and Health Communities, as realised with iCareCoops.

Development

Technical Excellence for Smart Solutions.

Modern software solutions require knowhow in more than one technology to be effective. At SYNNO, we have the skills and knowledge to turn your idea into a project which will include all the technologies needed and which will meet the highest standards in your industry. We offer the best realization of your project with the implementation of the latest and most advanced technologies.

Our experience in different business areas allows us to suggest the technologies that work best for your research project and business. We are here to listen to your requirements and provide best of breed solution for your particular web and mobile application to create something outstanding across you (research and industry) sector.

SYNNO evaluates user requirements and transfers them to comprehensive use cases which drive both design conception and technical implementation activities. Our digital solutions help turn ideas into the actions required to mobilize individual and collective engagement for the co-creation of a sustainable future.

Software Engineering Expertise

+ Requirement Analysis

+ Use Case Definition

+ Architecture Design

+ Database Processing Architecture

+ Design and Mockup

+ Usability Engineering

+ Application Testing

+ End User Validation

+ Visualisation Dashboards



Development

Software Engineering and App Development

SYNYO delivers outstanding web and mobile applications, collaborative platforms, open information hubs and decision support solutions to tackle emerging societal challenges and to support different stakeholders including decision-makers, businesses and citizens.

Requirements Analysis and Use Case Specification

To uphold consistent high quality standards, SYNYO emphasizes thorough and iterative communication techniques between all partners during the stages of requirements engineering.

Data Processing Architectures

Creating powerful and flexible architectures using state-of-the-art technologies are a key competency of SYNYO. We not only work with proven relational database solutions (e.g. MySQL), but also with new, innovative approaches to store and process an extremely high amount of data like NoSQL databases or scalable, distributed frameworks respectively solutions like Hadoop or HBase.

Design and Mockup

SYNYO's broad experience in the fields of rapid prototyping and interface design allows the quick creation of sophisticated yet intuitive applications. Extensive knowledge on human-computer interaction as well as user experience testing complete the usability engineering package.

Programming and Usability Engineering

SYNYO's broad experience in the fields of interface design, prototyping and mockup creation allows the quick creation of sophisticated yet intuitive applications.

Testing and Validation

In order to provide high quality software we place a strong focus on quality assurance during the testing of our applications. Techniques like Continuous Integration and Automated testing help to incorporate the evaluation process into our software development life-cycle.

Open Information Hubs

Raising awareness on relevant topics and starting participatory processes with the community is often a key element in research and business projects. SYNYO holds many years of experience in designing and developing Open Information Hubs that provide knowledge to a broader audience and create awareness among particular target groups.

Information Visualisation Dashboards

Using latest technologies and knowledge on intuitive user interaction and information visualisation the team of SYNYO is able to deliver outstanding solutions to tackle emerging societal challenges and provide useful applications for various stakeholders as proven in projects such as OpenDataMonitor and UrbanData2Decide.

SYNYO GmbH

RESEARCH // DEVELOPMENT // ADVISORY



SYNYO delivers outstanding web and mobile applications, collaborative platforms, open information hubs and decision support solutions to tackle emerging societal challenges and to support different stakeholders including decision-makers, businesses and citizens. Our enthusiastic research engineers and software developers create high-quality, customised solutions to provide highly useful applications using state-of-the-art technologies in areas such as safety and security, urban decision support, open data, active assisted living and many more.

Advisory

Customised Services for Project Success.

The team at SYNNO has invaluable experience in managing and coordinating research and development projects at national and European level. The primary goal of our project managers, dissemination specialists and researchers is to partner with collaborators and clients to deliver strong value and support to their projects.

Particularly international project proposals often require the composition of a large topic-attuned consortium including research, development and demonstration partners, as for example from academia, industry, NGOs public authorities and law enforcement agencies. SYNNO supports you in consortium construction activities such as structured scoping for potential partners establishing contacts, and clarifying content-related, financial and administrative questions.

Besides scientific and technical reports funding agencies generally require transparent, comprehensible and accurate financial and administrative reporting. SYNNO advises on the elaboration of respective project documentations and therewith contributes to the successful operational management of your research or development project.

Project Support Services

+ Proposal Setup

+ Project Management

+ Reporting

+ Research Marketing

+ Project Websites

+ Social Media Channels

+ Quality Assurance

+ Science Events

+ Exploitation Strategies



Advisory

Project Proposal Setup

SYNYO supports the partners in building a consortium through a structured mapping and screening of potential partners, establishing contacts, and clarifying content-related, financial and administrative questions. SYNYO provides efficient proposal management and helps to systematically develop national and international proposals for a broad range of topics.

Project Management

SYNYO provides you with experience in holistic project management and supports you professionally in implementing administrative, financial and coordinative tasks. SYNYO additionally provides quality assurance services for a successful project and elaborates roadmaps for establishing an ideal project-structure.

Scientific and Technical Reporting

Delivering reports and informing funding agencies continuously about the project status is an integral part of research and development projects. SYNYO provides comprehensive support regarding scientific reporting, including literature exploration, technical reports and the presentation of social-scientific research.

Budgeting and Financial Reporting

Funding agencies generally require a transparent and accurate financial and administrative reporting. SYNYO advises on the elaboration of financial documentations and contributes to the successful operational management of your research or development project.

Exploitation Planning and Implementation

It is vital that the project's exploitation potential is accurately assessed and that the business models, on which the innovative products or services will be based, are analysed. SYNYO develops exploitation plans, performs detailed analyses of possible business models and provides assistance in writing business plans.

Dissemination Planning and Execution

SYNYO offers the setup of websites, the creation of newsletters, factsheets, policy briefs, or user manuals. Additionally, the setup and maintenance of social media appearances are crucial for a successful knowledge and technology transfer within your initiative. These activities aim at an implementation according to the strategy defined in your project.

Science Events

In order to complement the research and development activities, SYNYO provides support in setting up events and conferences. In addition to rather classical formats, we are creative in meeting your expectations regarding other formats such as science events or product launches.



Europe's future economic growth is dependent on innovative products, services and business models. SYNYO has a representative record of national and international projects. Due to our positive reputation as successful project managers, we have built a broad partner-network with leading organizations all over Europe. Our network provides a strong foundation of collaboration and support that delivers unparalleled value for both our partners and customers.

Selected Research Projects

City.Risks

Avoiding and Mitigating Safety Risks in Urban Environments



The main objective of the **City.Risks project** is to **increase the perception of security of citizens in cities by activating in a more transparent and sustainable way their participation in communities**, through which information and interventions can be provided both to proactively protect citizens from falling victims to criminal activities as well as to reactively provide more timely and effective response and assistance. In order to do so, the **City.Risks project will leverage a set of innovative technologies, city infrastructures, and available data sources**, but more importantly will **aim at making the citizens' smart phones the modern tool for increasing their personal and collective sense of security**. The project will design and develop an innovative ecosystem of mobile services that will transform the smart phone or the tablet of the citizen into a tool that will collect, visualise and share safety-critical information with the appropriate authorities and communities. The project will rely on a wide spectrum of available technologies to design and implement an interactive framework among authorities and citizens through mobile applications that will allow in a collaboratively way to prevent or mitigate the impact of crime incidents or other security threats. Thus, it will contribute to an increase of the citizens' perception of security, which will be measured and validated in real-life scenarios and conditions through the deployment and operation of pilot trials at several selected cities by the project partners.

Graffolution

Awareness and Prevention Solutions against Graffiti Vandalism in Public Areas and Transport



Graffolution seeks to counteract the increase of graffiti vandalism in public areas and transportation networks by focusing on smart awareness and positive prevention solutions for all affected stakeholder groups, including those who have utilised street art as part of city regeneration and placemaking strategies. The project will work to deliver an extensive set of “Collaborative Tools and Resources” that would include:

- a secure space for duty holders, with cases studies and other methods of evidencing successful practice, to empower city administrations, public transport services and law enforcement agencies, to share knowledge and more widely promote best practices
- an interactive “Open Information Hub” addressing local communities, citizens and sprayers to strengthen public awareness and enforce the prevention of illegal spraying activities, using effectual tools and visualisations.

iCareCoops

Fostering Care Cooperatives in Europe by Building an Innovative Platform with ICT-Based and AAL-Driven Services



iCareCoops is a new, ambitious 2-year project funded by the AAL Programme, that tackles the increasing demand for elderly care at a time of limited resources. Eight partners from seven European countries create novel ICT-driven solutions to empower carers and elderly people to extend the time they can live in their preferred environment by facilitating the cooperative model. iCareCoops is designed as a three-level-concept with information, cooperative, and, AAL-driven service levels. These intelligent, interactive, and inclusive services will be developed with deep end-user involvement and will be provided via a powerful web-based platform, a mobile app, and an Open API.

Selected Research Projects

Social Media Crime

Structured Analysis and Characterization of Criminal Activities in Social Media and Deduction of a Crime Pattern classification



The rapid rise of social media (e.g. micro-blogs such as Twitter, social networks such as Facebook, video sharing portals such as Youtube), and subsequent user interaction, have led to the spread of criminal activities within such platforms. Besides well-known offences such as fraud also new criminal dimensions have appeared since the advent of this kind of communication technology. For instance, the public incitement of thousands of people to commit a crime (so called crime mobs) or the usage of a multiple fake identities to collect sensitive or confidential information from private persons as well as from companies are only two examples of steadily evolving crime phenomena. Additional examples include cyber grooming, profile cloning, social engineering, social phishing, cyber stalking and many more.

Due to these circumstances and the high dynamics of social media crimes, police departments and legal actors in charge face new challenges in handling respective cybercrime-related phenomena in a structured and systematic way. Therefore, a structured and case-related treatment and analysis of social media crimes and respective phenomena is urgently needed, but does not exist yet, within Austria or internationally.

The project "Social Media Crime" aims at supporting stakeholders, first and foremost the Austrian Federal Ministry for the Interior (BM.I) including the Federal Crime Police Office (.BK) as a member of the project team, with a scientifically sound, case-related and practice-oriented, structured, interactive and flexible grid for the systematic classification and evaluation of social media crimes, which as a next step can facilitate the drafting of social media crime laws. Completing the consortium is the Austrian Center for Law Enforcement Sciences (ALES), which provides comprehensive legal expertise. Systematic literature reviews and in-depth requirements studies using qualitative interview guides with relevant stakeholders, as well as with other experts (e.g. security researchers, experts in the field of cybercrime, legal experts and international stakeholders), will be conducted. The project will result in a comprehensive taxonomy of social media crimes and related phenomena, respective practice-oriented and intuitive resources for stakeholders, knowledge about best practices, strategies and methods to prevent and counteract social media crimes, a sound legal evaluation including recommendations for legislation and an interactive collection of cases with the possibility to include new cases and relevant phenomena.

Unite Europe

Social Media Analytics and Decision Support Tools Enabling Sustainable Integration Policies and Measures



The integration of third-country nationals is one of the most important topics for governments and policy makers in the European Union and has risen in prominence on the agenda because it is seen as one of the most visible challenges of globalization. UniteEurope aims at building scalable and flexible Social Media monitoring and decision support tools enabling sustainable integration policies and measures.

After the collection of citizen generated content and mass data related to integration issues out of Social Media and already existing participation platforms an intelligent filter and aggregation architecture delivers relevant information for policy makers. An integration issue grid model with multi-layer logic patterns is used for consistent categorisation of relevant integration areas (e.g. education, business, culture) in cities. Coherent layers with multilingual semantic tags, significant sources and parameters are used for the logical core of the tool. Supported with information on web-based dashboards with intuitive visualisations, local decision makers can initiate effective and efficient integration measures and policies. An integrated decision support system suggests adequate measures in case of critical integration issues. Users of the UniteEurope tool can save, monitor and track specific cases to measure impacts and to predict the effect of future decisions.

UniteEurope supports operational integration measures and strategic policy development at regional and pan-European level.

The UniteEurope team consists of system architects, software developers, E-Government, Social Media and integration experts from leading universities, competence centres, companies and three European cities considering integration **an agenda priority**.

Selected Research Projects

Open Data Monitor

Monitoring, Analysis and Visualisation of Open Data Catalogues, Hubs and Repositories



OpenDataMonitor brings open datasets to light. As a platform, it gives visitors an overview of available open data resources, allowing them to analyse and visualise existing data catalogues using innovative technologies. The framework harvests datasets, collecting metadata from diverse open data sources. The harvested metadata is then harmonised, in that the gathered information is structured and processed. Scalable analytical and visualisation methods allow end users to learn more about the composition of regional, national or pan-European open data repositories. For example, the aggregation of catalogues of one region or country can be easily visualised to draw an exact picture of the open data situation and allow comparison to other areas. Analysing and visualising metadata will reveal hidden potential and essential insights from existing resources and identify gaps where additional open data are needed.

One of OpenDataMonitor's main goals is to research and develop a harmonisation scheme and methodologies for addressing the diverse, largely interoperable and multilingual metadata available for open datasets. This will help us to analyse the harvested metadata consistently and understand open datasets better. In this context, we will concentrate on the following: metadata schemas (e.g. DC, CKAN, INSPIRE, ISO), vocabularies (e.g. GEMET), thematic domains, code lists (e.g. EuroStat), publisher taxonomies (e.g. public bodies, publisher roles), licensing (e.g. local vs. international licenses). Our work will be based exclusively on open standards, with emphasis on those formally adopted by the European Commission (e.g. INSPIRE, DC, DCAT). In the OpenDataMonitor project we will adopt CKAN as the underlying software architecture within which all our software contributions will be integrated as plug-ins. This will help make sure the platform is available to a wide population.

The OpenDataMonitor will allow a variety of analytical functions such as:

- comparing public bodies (national/local), indicating changes and updates of catalogues
- showing quality of meta data
- sorting available catalogues for specific thematic domains
- showing licensing information
- making data available in specific open formats
- diverging among available open data of EU member states
- showing the percentage of population (and SIGs) with access to purposeful data
- automatic scoring to indicate the level of openness

UrbanData2Decide

Integrated Data Visualisation and Decision Making Solutions to Forecast and Manage Complex Urban Challenges



The UrbanData2Decide project aims to extract and process information from two rich sources, namely public social media and open data catalogues. This information, combined with advice from expert panels, will support local governments towards a holistic, sustainable and well-founded decision-making process which takes into account the views and perspectives of all relevant stakeholders. Building on the broad data pools in the form of social media content and open data sets, the UrbanDataVisualiser will aggregate, structure and visualise this data using a multi-layered and multi-dimensional approach. The framework will extensively use data mining, sentiment analysis and visualisation techniques and lead to the development of a proof-of-concept demonstrator to showcase the information using intuitive and clear dashboards. The UrbanDecisionMaker on the other hand will complement this bottom-up approach by integrating external experts and advisors using scientific multi-round expert integration methods and tools such as the Delphi method, a structured communication technique, developed as a systematic, interactive forecasting method which relies on a panel of experts.

Selected Research Projects

FutureTDM

Reducing Barriers and Increasing Uptake of Text and Data Mining for Research Environments



The widespread growth of data in this current digital age has led to the development of powerful techniques for the effective harnessing of information from digital communications technologies. In this context, Text and Data Mining (TDM) is an inventive approach for analysing and extracting new insights and knowledge from the exponentially growing world of machine-read material, known as Big Data. TDM techniques and tools enable researchers from different disciplines to exploit datasets of increasing complexity and diversity from various forms of media. However, the present use of TDM tools across Europe is significantly lower than some countries in the Americas and Asia, likely due to limitations imposed by the European legal framework. As such, the FutureTDM project identifies and reduces the barriers that inhibit the uptake of TDM for not only researchers, but also innovative businesses. FutureTDM provides critical up-to-date assessments of legal regulations and policies on TDM within the EU, while maintaining an international scope of the competitive world of Big Data exploitation. Such assessments will lead to the development of novel policy frameworks and interdisciplinary case-driven practitioner guidelines to facilitate the spread of TDM activities. **Furthermore, the acquired knowledge base from both quantitative and qualitative research will be incorporated into a web-based Collaborative Knowledge Base and Open Information Hub using insightful and intuitive visualisations.**

SciChallenge

Next Generation Science Challenges Using Social Media To Make Science Education And Careers Attractive for Young People



Science education is tremendous in shaping the present and future of modern societies. Thus, the EU needs all its talents to increase creativity and competitiveness. Especially young boys and girls have to be engaged to pursue careers in Science, Technology, Engineering and Mathematics (STEM). However, statistics still show that enrolment rates in STEM-based degree programs are low and will lead to a workforce problem in industries, especially in many of the new member countries. The SCICHALLENGE project focuses on developing novel concepts to actively integrate young boys and girls in science education using a contest-based approach to self-produced digital education materials from young people for young people. Driven by inspirational topic sheets, guides and toolkits created through this project and distributed by partner schools, teachers, and other youth-oriented institutions, contestants (individuals or groups) between the ages of 10 to 20 will generate creative digital materials (videos, slides, or infographics). The initiative will broadcast and distribute content over various social media channels and aggregated on a modern SCICHALLENGE Web Platform to generate wide reaching awareness and promotion. Winning submissions will receive prizes funded by science-oriented industry and stakeholders. Intelligent cross-sectoral positioning of various awareness modules on the SCICHALLENGE Open Information Hub will increase awareness on science careers and open opportunities for youngsters on internships or taster days in STEM through the strong involvement of related organisations and industries. Additionally aggregated information on science events (slams, nights, festivals etc.) is shared. With this multi-level approach, SCICHALLENGE will boost the attractiveness of science education and careers among young girls and boys leading to more public engagement in science, economic prosperity and global competitiveness on a pan-European level.

Ideas inspire,
motivate and
encourage change.
Let's work together
to make this
happen.

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