

LEADERSHIP IN ENABLING AND INDUSTRIAL TECHNOLOGIES – SPACE



EXPERTISE AND SKILLS FOR H2020 PROJECTS

Our Projects

TAKEDOWN <i>Understand the Dimensions of Organised Crime and Terrorist Networks for Developing Effective and Efficient Security Solutions for First-line-practitioners and Professionals</i> Programme: H2020 FCT RIA Role: Coordinator Number: 700688	PeaceTraining.eu <i>Strengthening the Capabilities and Training Curricula for Conflict Prevention and Peace Building Personnel with ICT-based Collaboration and Knowledge Approaches</i> Programme: H2020 BES CSA Role: Coordinator Number: 700583
PROTECTIVE <i>Proactive Risk Management through Improved Situational Awareness</i> Programme: H2020 DS IA Role: Partner Number: 700071	ActiveAdvice <i>Decision Support Solutions for Independent Living using an Intelligent AAL Product and Service Cloud</i> Programme: AAL EU Role: Coordinator Number: 851908
FutureTDM <i>Reducing Barriers and Increasing Uptake of Text and Data Mining for Research Environments</i> Programme: H2020 GARRI CSA Role: Coordinator Number: 665940	iCareCoops <i>Fostering Care Cooperatives in Europe by Building an Innovative Platform with ICT-Based and AAL-Driven Services</i> Programme: AAL EU Role: Coordinator Number: 802030
SciChallenge <i>Next Generation Science Challenges Using Social Media to Make Science Education and Careers Attractive for Young People</i> Programme: H2020 SEAC RIA Role: Coordinator Number: 665868	SciShops <i>iMobility and Police: Technologies, Concepts and Solutions for Security Related Deployment Scenarios</i> Programme: H2020 SwafS RIA Role: Coordinator Number: 741657
City.Risks <i>Avoiding and Mitigating Safety Risks in Urban Environments</i> Programme: H2020 FCT RIA Role: Partner Number: 653747	BONSEYES <i>Platform for Open Development of Systems of Artificial Intelligence</i> Programme: H2020 ICT RIA Role: Partner Number: 732204
UrbanData2Decide <i>Integrated Data Visualisation and Decision Making Solutions to Forecast and Manage Complex Urban Challenges</i> Programme: JPI Urban Europe Role: Coordinator Number: 847511	FollowMe <i>Living Actively and Independently at Home</i> Programme: AAL EU Role: Partner Number: 2015-108
Graffolution <i>Awareness and Prevention Solutions against Graffiti Vandalism in Public Areas and Transport</i> Programme: FP7 SEC CP-FP Role: Coordinator Number: 608152	eCraft2Learn <i>Digital Fabrication and Maker Movement in Education: Making Computer-supported Artefacts from Scratch</i> Programme: H2020 ICT RIA Role: Partner Number: 731345
OpenDataMonitor <i>Monitoring, Analysing and Visualisation of Open Data Catalogues, Hubs and Repositories</i> Programme: FP7 ICT CA Role: Coordinator Number: 611988	UniteEurope <i>Social Media Analytics and Decision Support Tools Enabling Sustainable Integration Policies and Measures</i> Programme: FP7 ICT RP Role: Partner Number: 288308
MINDb4ACT <i>Mapping, IdentifiyNg and Developing skills and opportunities in operating environments to co-create innovative, ethical and effective ACTions to tackle radicalization leading to violent extremism</i> Programme: H2020 RIA Role: Partner Number: 740543	SPOT+RIDE <i>Digital Map-based Applications for Visualisation of Accident Rates and Documentation of Hazard Areas Including Pro-active Safety-features for Bikers and Strategic Decision Support-tools</i> Programme: VSF Role: Coordinator Number: 199962

SYNYO in H2020

A Common Future for the European Space Programme

In the European Union, but also worldwide, space is an important field of action from an economical perspective but also for key policy areas such as environment, security, mobility and resource management. Space is both, a strategic asset and enormous opportunity for our society and economy where space has a growing importance. Space provides data and connectivity for the digital economy. And as such, SYNYO supports to boost innovation as the domain of space creates new sources of jobs and growth, particularly through the development of value-added (downstream) products and services, which open new market opportunities for European companies, including SMEs and start-ups, and contribute to the competitiveness of our economy. Space can help increase the resilience of key sectors of the economy, such as transport networks, energy grids, or financial and banking services for which SYNYO is an expert partner. Not only the security but also the well-being of our citizens depends strongly on information and services provided from space.

Satellite navigation technology is an increasingly common component of innovative applications in different market segments because satellite navigation has become more affordable and more reliable over the years. The importance of space for the European society is expected to grow in the future as we move towards a more interconnected society and digital data-driven economy which will lead to an increase in the demand for space-based services. To bring the benefits of space to the European citizens and unleash the potential of space as a vector for growth, competitiveness and jobs creation in the wider European economy it is necessary to stimulate the integration of space into European society and economy, foster a globally competitive European space sector and ensure European autonomy in accessing and using space in a safe and secure environment.

SYNYO brings together professionals of diverse research domains, including data management, navigation systems and big data visualisation. SYNYO is a key partner that can actively contribute to the definition of research and innovation opportunities in the field of Big Data for the space sector.



Research

Interdisciplinary Expertise for Strong Insights.

At SYNYO 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, SYNYO 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, SYNYO 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

- + Space Research
 - + Space Scenarios and Modelling
 - + Training and Education
 - + Gender Mainstreaming
 - + Data-driven Solutions
-
- + Dissemination Channels
 - + Demonstration Activities and Pilots
 - + Space Networks



Research

Space Research

SYNYO has gained a broad expertise while working with partners across all the European Union and beyond to achieve best results in space-related trans-disciplinary research, briefing on trends and best practices, market research related to resilience of key sectors, marketing and businesses, innovation, space-related data, development of value-added (downstream) products and services as well as education and training services.

Space Scenarios and Modelling

Our extended expertise in data projecting and modelling are of high use in creating long term scenarios for European navigation satellite systems, as part of evidence-based policy recommendations.

Solutions with European Global Navigation Satellite System (EGNSS)

While working on different projects and other activities concerning the digital economy, we have expanded our knowledge and we have developed the best practices which can be applied also in the context of European Global Navigation Satellite System to function properly and to create new market opportunities.

Value-added (Downstream) Products and Services

SYNYO supports to boost innovation as the domain of space creates new sources of jobs and growth, particularly through the development of value-added (downstream) products and services, which open new market opportunities for European companies and contribute to the competitiveness of our economy.

Training and Education

Since training and education services are crucial for achieving a successful European Global Navigation Satellite System, our highly qualified team is willing to use its expertise in this field to establish programs and frameworks for related navigation systems and solutions based on EGNSS.

Space Networks

It is very important to share the space-related know-how and best practices among expert stakeholders as well as creating cooperation networks to promote cross sectoral interactions, and to bring downstream products and services into the markets. At SYNYO we are experienced in bringing all stakeholders together.

Gender Mainstreaming

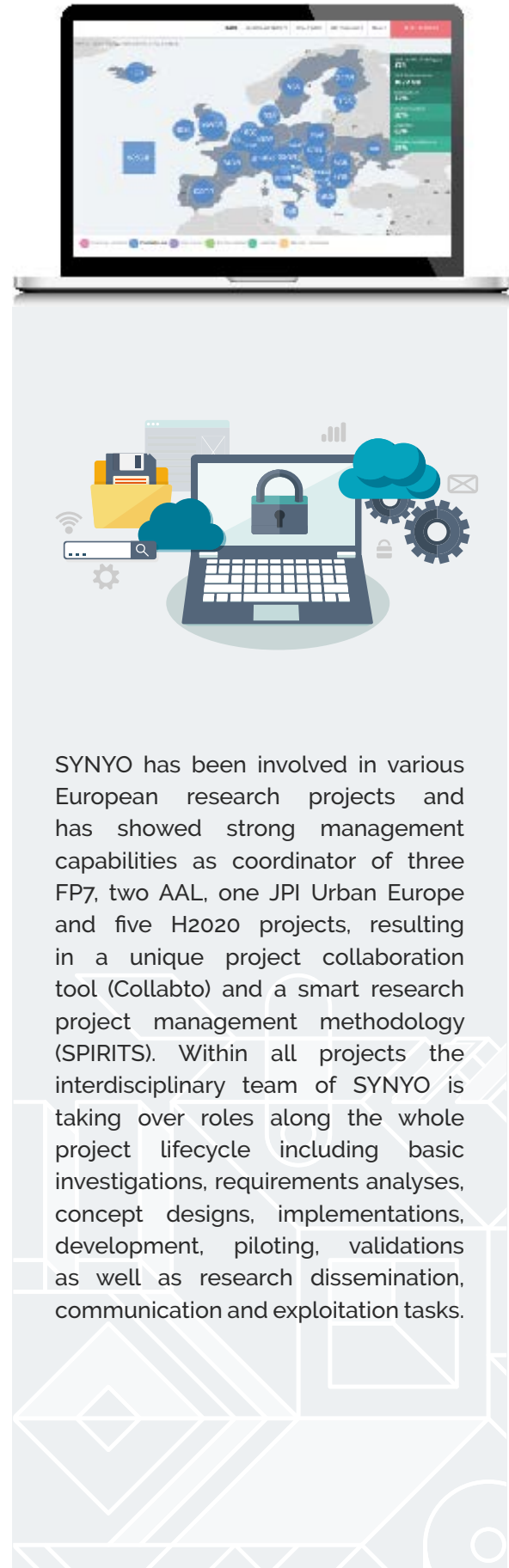
Advancing gender equality through and for sustainable development needs to be at the forefront of all projects affecting the society. SYNYO works together with its partners in assessing the implications for women and men in the planned actions at all levels.

Data-driven Solutions

The high volume of data available for a given problem does not represent a hurdle, but rather a potential toward the solution. This mind-set allows SYNYO to create the most suitable application for the end-user and to achieve the defined objectives.

SYNYO GmbH

RESEARCH // DEVELOPMENT // ADVISORY



SYNYO has been involved in various European research projects and has showed strong management capabilities as coordinator of three FP7, two AAL, one JPI Urban Europe and five H2020 projects, resulting in a unique project collaboration tool (Collabto) and a smart research project management methodology (SPIRITS). Within all projects the interdisciplinary team of SYNYO is taking over roles along the whole project lifecycle including basic investigations, requirements analyses, concept designs, implementations, development, piloting, validations as well as research dissemination, communication and exploitation tasks.

SYNYO

Development

Technical Excellence for Smart Solutions.

Modern software solutions require knowhow in more than one technology to be effective. At SYNYO, 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.

SYNYO 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

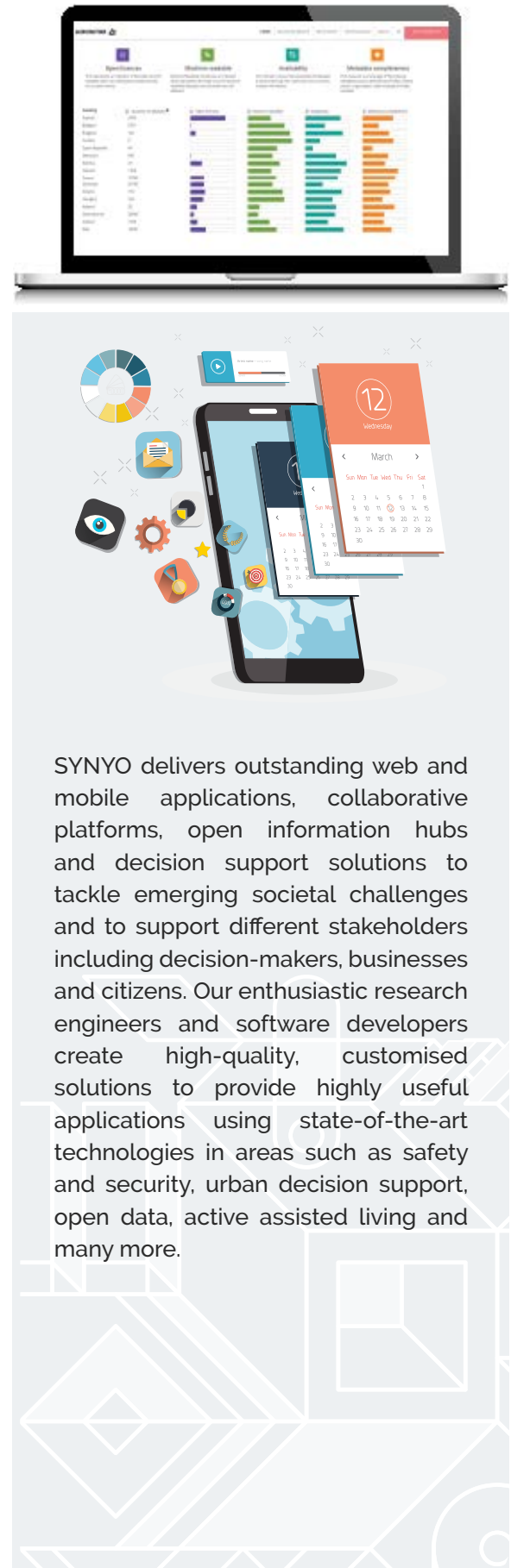
In order to provide high quality software we place a strong focus on quality assurance during the testing of our applications. Techniques like Continuous Integration and Automated testing help to incorporate the evaluation process into our software development life-cycle.

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 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.

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

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