



**SECURE
SOCIETIES.**

**EXPERTISE AND SKILLS
FOR H2020 PROJECTS**

SYNYO GmbH

RESEARCH // DEVELOPMENT // ADVISORY

SYNYO

Our Projects

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

SYNYO in H2020

A Vision for Security

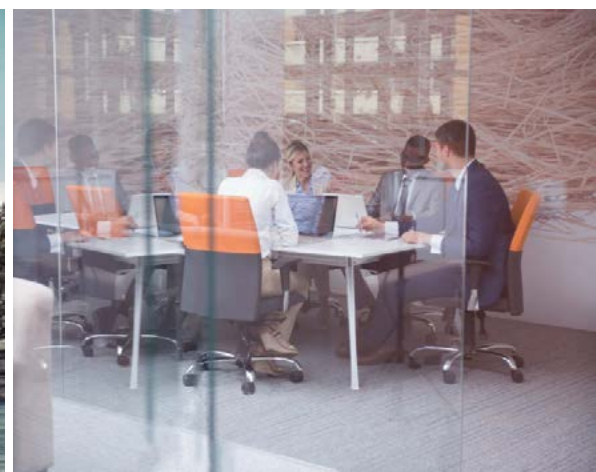
Due to the recent terrorist threats and attacks as well as the global security challenges, the European Union needs to get a better understanding of terrorism, terrorism networks and recruitment pathways. Only by combining profound scientific knowledge with practical approaches and technological solutions, societies have the chance to fight terrorism.

At the same time, organized crime incidents increased substantially and new forms emerged due to technological developments such as Crime as a Service. Hence, we also have to increase our insights and improve our capabilities for fighting and preventing organized crime (OC) and its drivers. At the same time, we also need to respect ethical issues and privacy. SYNYO has both experience and expertise on these issues, with a particular focus on cyber-related topics as well as on respective ethical questions.

In this context, also the infiltration of the legitimate economy by organised crime is a major challenge not only for the European Union but on a global level as well. The opportunities for criminal activities increase because of the economic globalization and the de-regulation of movement of goods or capital in the global “space of flows”. Furthermore, the capabilities of law enforcement agencies are limited due to responsibilities based on national borders, difficulties regarding cooperation and divergent jurisdictions. This paradox opens the path for new and different methods for groups involved in OC to infiltrate the licit economy.

Deviant and criminal behaviour has an essential influence on the security of a society. Research on causes and effects of crime is of utmost importance for the development of countermeasures. New technologies such as social media always imply new forms of criminal actions but also new opportunities of crime prevention.

Being a complex theme, safety and security research also needs to take further issues, such as natural disasters, major events, protest movements, emergencies, and the protection of the citizens from potential terrorist attacks or petty crimes. At SYNYO, security research combines both, the social science research and the technological analysis or assessment of technological approaches.



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

- + Safety and Security
- + Criminology
- + Conflict and Dispute Resolution
- + Migrant Integration
- + Ethical and Privacy Assessment

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- + Dissemination Channels
 - + Demonstration Activities and Pilots
 - + Network of Security Organisations
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Research

Empirical Security Research

The empirical research includes quantitative surveys among particular stakeholder groups on a national or European context as well as multivariate primary or secondary data analysis. Furthermore, it also includes qualitative approaches such as expert interviews, semi-structured interviews, focus groups and multi-stakeholder joint-evaluations as well as foresight scenario development.

Security Service Platforms

The team at SYNNO specializes in the design and implementation of user-friendly platforms for diverse user groups involved in prevention, protection and responding to crime and terrorism. The platforms include expert navigators, decision support tools, incidents mappings and social media analysis instruments as well as unique visualizations of data and services for different users, including law enforcement agencies.

Digital Security

Despite the opportunities, critical infrastructures and digital services are vulnerable. Digital security is a core field of SYNNO, where we can not only bring in knowledge on the technical aspects but combining it with social science expertise and research experience for developing tailored solutions.

Conflict and Dispute Resolution

SYNNO contributes to social conflict resolution by constructing theoretical frameworks and technological solutions of conflict resolution, conflict transformation and peacebuilding, Alternative Dispute Resolution (ADR) including mediation and Online Dispute Resolution (ODR), especially in the realm of social media, where people discuss issues of debate and decide to take action.

Ethical and Privacy Assessment

Using a unique combination of tools and technologies, we design specific solutions that address privacy, security and transparency in all phases of product development and implementation. Drawing on legal texts, past experiences, anonymization techniques, social and technological forecasting and social science experiments, we develop socio-technical strategies that help technological solutions incorporate human rights and ethical concerns.

Demonstration Activities and Pilots

In order to ensure wide uptake of the innovative products for the next generation of secure societies and cities, SYNNO connects providers and users to test and validate new services efficiently. To increase the overall quality of services we provide essential knowhow on piloting plans and respective techniques and tools in order to integrate real-life experiences into projects.

Network of Security Organisation

SYNNO is well connected to leading security authorities such as LEA's and as well as many non-governmental organisations that are dealing with safety and security.

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As Coordinator and Partner of European research projects (FP7, H2020, UrbanEurope) we are involved in various security-oriented projects such as PeaceTraining.eu, TAKEDOWN, City.Risks and PROTECTIVE. Having in mind that our team is highly interdisciplinary we are flexible in defining our roles and responsibilities during proposal preparation and are used to delivering our inputs and vision in a competitive manner.

With our diverse background SYNNO can bring, to your Secure Societies proposal, expertise and already developed frameworks in order to better integrate your proposal into certain work programme requirements.

SYNNO

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

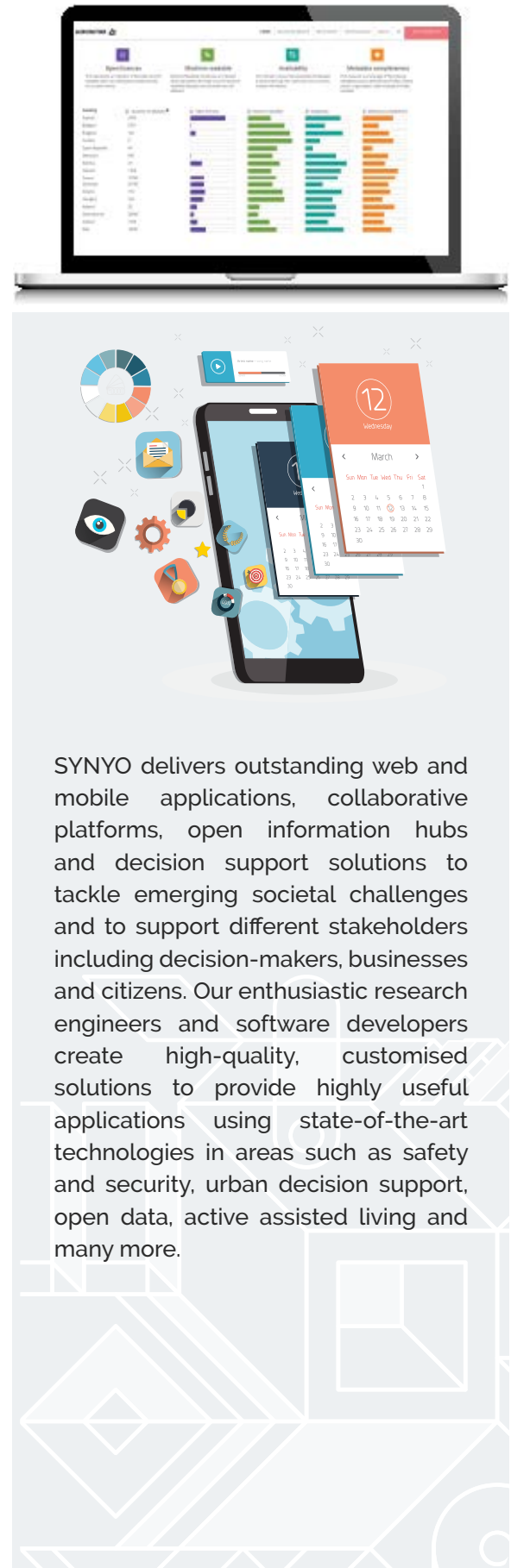
Raising awareness on relevant topics and starting participatory processes with the community is often a key element in research and business projects. SYNYO holds many years of experience in designing and developing Open Information Hubs that provide knowledge to a broader audience and create awareness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

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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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