



This document proposes recommendations elaborated by the IMG-S members to:

- Allow a strategic and efficient work programme to be developed and implemented based on lessons learnt in the FP7 experience.
- Establish high-level objectives for the H2020 work programme.
- Address relevant IPR aspects.

Work Programme Development

The PASR and the FP7 security research programmes were major steps to develop new activities at the EU level. However, we consider that an overall roadmap covering the duration of the funding instrument would help provide a long term vision, allowing investment and competence development; increasing interest for suppliers and SMEs in selected topics; optimising effort and investments (avoid duplication); and properly sequencing projects based on their dependencies (e.g., from capabilities to integration).

Hence, IMG-S recommends the H2020 work programme to adopt:

- A collective definition driven by policies, users and market needs of High Level Capabilities and Innovation Objectives at theme level: developments should be planned for the remaining work programme. Individual topics can then be developed to meet high-level objectives.
- An assessment of the work conducted under FP7, other H2020 themes and ongoing/past research to identify the state-of-the-art and the remaining gaps.
- A percentage of the budget in each work programme to address short-term needs in form of:
 - Quick and flexible security dedicated innovation topics, in particular to address emerging threats;
 - Critical technologies ensuring the EU security of supply and competitiveness.
- A yearly competition for innovation.
- A fair and neutral monitoring and assessment of projects during and after their completion.
- A better alignment between the duration of the work programme and projects to the actual ability to introduce new capabilities to the market and meet short-term needs.

High Level Objectives

The IMG-S supports the specific goals of the security area to foster secure European societies in a context of unprecedented transformation and growing global interdependencies and threats, while strengthening the European culture of freedom and justice. To achieve those goals, the IMG-S proposes a number of objectives:

- Develop closer cooperation between Science, Policy and Industry by federating and supporting communities of users/scientists/suppliers;
- Support the leading role of the EU at the global scale and the European External Action Service by developing a dedicated action (theme) on external security;
- Enhance the European technological independence and leadership to tackle future societal challenges;
- Support key technologies' development in H2020 security;

- Implement a “master plan” (overall roadmap) by area to address different markets with different timeframes, reserving resources for short, medium and long-term solutions;
- Explore dual-use technologies, seeking synergistic effects (investments, competences and capabilities) and market enlargement in security and defence, also considering other sectors such as ICT, transportation and health;
- Devote more actions to the prevention domain in the whole security lifecycle and to restoration (addressing for example the economic and financial crisis, social impacts);
- Achieve economic sustainability of security services/products and their cost sharing/saving, by exploiting the interdependence of security with ordinary/extraordinary maintenance of infrastructures and urban settlements (namely security in smart cities and communities);
- Support market-driven innovation actions with clear rules, attractive timescales and funding for industry and SMEs;
- Promote Intellectual Property Protection to allow wide participation of Industry and SMEs, protect EU interests whilst providing end-users access to the general project results for procurement activities;
- Promote European leadership on Responsible Research and Innovation in the field of Security Technology, and support ethically and socially sustainable security research;
- Exploit capabilities developed in other areas such as space with Copernicus and Galileo, ICT and the new frontiers opened by the Web.

IPR Aspects

Innovations resulting from creativity thinking and R&D activities held in organisations are the outcome of significant investments, right governance models, human motivation and top-level management support. Especially in present times in Europe, these are held under conditions of high uncertainty. If the right IPR rules are not set, organisations may lose the incentive and/or interest to invest in R&D, which will compromise the long-term competitive value and sustainability of European Innovation Champions. Until the H2020, the IPR rules were clear and well accepted by participants: entities have full rights to their background and foreground IP generated within EU-funded actions. Where collaborative research took place, joint IP ownership applied.

The IMG-S recommends that rules of participation and model grant agreement as close as possible to the existing ones should be applied to all the instruments and that no special IPR provisions should be included in the work programme. The IMG-S recognises that there has to be a competitive market and pricing and considers that, for these type of instruments, special modalities could be introduced on a case-by-case basis to ensure fair market and pricing to all the parties concerned. In the case of IP, there should be fair and reasonable commercial terms and only for what is necessary to exploit the foreground IP generated under the instrument.



About IMG-S

The Integrated Mission Group for Security (IMG-S) is a wide European Network bringing together technology experts from Industry, SMEs, Research and Technology Organisations (RTOs) and Academia.

IMG-S aims to support the European Commission and its Member States to build world-class European technological capabilities. By defining research priorities for the security domain at all levels, from fundamental research to mission capabilities and system integration, IMG-S contributes to ensure that short, mid-term and long-term security needs are addressed.

With more than one hundred entities from 24 European countries, IMG-S covers the entire security RTD domain and is able to bring an answer to European and global security needs. Its members are well experienced in identifying the needs and requirements of security stakeholders and end-users and effectively transfer knowledge and R&D into innovations and market applications in the security sector.

The IMG-S organisation comprises seven vertical **Technical Areas** (TA), each addressing a specific security challenge; the **Aerospace Security and Defence - Strategic Research and Technology** (ASD-SRT), providing strategic orientation and advice on security and R&T priorities; and a **Synthesis and Coordination Group** (SCG), to orient, steer and produce integrated reports and holistic research priorities.



Visit us: <http://img-s.eu.org>

Contact us: scg@img-s.eu.org

Connect with us:

<http://www.linkedin.com/groups?gid=5187282>

IMG-S Organisation

SCG Coordination: Marco Manso (Rinicom, UK), Brenda Wiederhold (VRMC, BE), Andrew Proudlove (αBXL, BE).

ASD-SRT Members: Cristina Leone (Finmeccanica, IT), Laila Gide (Thales, FR), Nicolas Renard (Dassault, FR), Brigitte Serreault (Airbus, FR).

TA1 (Surveillance and Identification) is focused on surveillance for citizens, infrastructure protection, urban security, crisis management and identification management of people and assets. TA1 topics span across many domains of Security missions and technologies, thus representing a high priority for Europe.

Contact: ta1@img-s.eu.org

TA2 (Communications Systems) focuses on identifying innovative technologies and applicable cross-platform solutions for secure and critical communications. Its scope includes analysis of communications media, hardware, protocols, services and data efficiency meeting stringent requirements on security, privacy, reliability, availability and maintainability.

Contact: ta2@img-s.eu.org

TA3 (Ethics, Human Factors, Societal Impact) is a cross-cutting area devoted to new concepts recently emerged - such as societal security and the notion of human security - that are integral to the European security philosophy. TA3 aims to inject into the technological and industrial matrix the main ethical, human rights, privacy and societal implications of security.

Contact: ta3@img-s.eu.org

TA4 (Resilience) focuses on delivering innovative and adaptive technology and societal solutions to strengthen recovery to man-made and natural disasters, addressing all 'systems' employed in Prevention, Preparedness, Response and Recovery.

Contact: ta4@img-s.eu.org

TA5 (Information Processing and Management) is at the core of human sense-making, dialogue, analysis, decision-making, design, government and any organised human activity today. TA5 aims at identifying, exploring and developing concepts, architectures, technologies and support for information infrastructures that will enhance information processing and management for security applications.

Contact: ta5@img-s.eu.org

TA6 (CBRNE) is a group of European experts working in the Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) fields. The group addresses the complete range of technologies, methods and procedures taken to provide effective Prevention, Resilience, Resistance, Reaction and Recovery concerning the CBRNE environment.

Contact: ta6@img-s.eu.org

TA7 (Cyber Security) focuses on studying innovative technologies and applicable solutions for the cyber security domain, cyber crime fighting and cyber crime prevention.

Contact: ta7@img-s.eu.org