

# **Horizon 2020 Research Programm**

## **Secure societies – Protecting freedom and security of Europe and its citizens**

### **Call 2014-2015**

Helmut Schwabach

AIT Austrian Institute of Technology  
Safety & Security Department

Vienna, 7<sup>th</sup> October 2013  
V 1.0



## Comming Horizon 2020 Call (1)

- Overall H2020 budget: € 77 billion € (current prices)
- Formal steps towards adoption of the MFF and the 2014 budget acts to be taken by EP and Council during Oct/Nov 2013
  - Security Call:                      expected March 2014 - August 2014
  
- First call in Horizon 2020
  - ICT Call:            planed13.12.2013 – 23.4.2014

## Horizon 2020 Secure societies

Draft WORK PROGRAMME 2014 – 2015

### Disaster- Resilience

- Crisis Management and Civil protection
- Disaster Resilience and Climate Change
- Critical Infrastructure Protection
- Communication Interoperability
- Ethical/Societal Dimension

### Fight against Crime and Terrorism

- Forensics
- Law enforcement capabilities
- Urban security
- Ethical/societal dimension

### Border Security and External Security

- Maritime Border Security
- Border Crossing Points
- Supply Chain Security
- Information Management in the context of External Security
- Conflict Prevention and Peace Building
- Ethical/Societal Dimension

### Digital Security

- Privacy
- Access Control
- The role of ICT in Critical Infrastructure Protection
- Secure Information Sharing
- Trust eServices
- Risk management and assurance models
- Ethical/Societal Dimension

## Area: Disaster-resilience: safeguarding and securing society, including adapting to climate change

- Objective of this call is to reduce the loss of human life, environmental, economic and material damage from natural and manmade disasters, including from extreme weather events, crime and terrorism threats.
- This call is divided in five parts:
  1. Crisis Management and Civil protection with a view to strengthening prevention and preparedness against natural and man-made disasters by underpinning an all-hazard approach to risk assessment across the EU;
  2. Disaster Resilience and Climate Change with a view to developing solutions, for climate change adaptation in areas affected by natural disasters , such as for port cities, critical infrastructures, tourism;
  3. Critical Infrastructure Protection with a view to building up community resilience and resilience of critical infrastructure, including against cybercrime and cyber terrorism.
  4. Communication Interoperability facilitating disaster management, notably through communication technologies for crisis response actors and the linking of situational awareness centres;
  5. Ethical/Societal Dimension.

## Crisis Management and Civil protection – 2014 (1)

- DRS 2 – 2014: Crisis management topic 2: Tools for detection, traceability, triage and individual monitoring of victims after a mass CBRNE contamination with dual-use applications
  - Expected impact:
    - monitoring technologies of CBRNE substances
    - new integrated, interoperable and centralised system to improve the triage and monitoring of victims.
  - Type of action: Innovation Action 70% funding
  - IP, contribution between €5m and €12m
  
- DRS 4 – 2014: Crisis management topic 4: Feasibility study for strengthening capacitybuilding for health and security protection in case of large-scale pandemics
  - Expected impact:
    - increasing our capacity to anticipate, prepare and respond to disasters occurring outside the EU
    - assessments, monitoring and planning, including an improved use of existing assets and logistics;
    - improved prevention, preparedness, response in line with the EU and the UN
  - Type of action: Innovation Action 70% funding
  - Phase I Demo

## Crisis Management and Civil protection – 2014 (2)

- DRS 5 – 2014: Crisis management topic 5: Situation awareness of Civil Protection decision-making solutions – preparing the ground for a PCP
  - Expected impact:
    - create a network of potential procurers, including through the exchange of experiences between (public) stakeholders on civil protection and;
    - initiate a concrete debate on the mid-to-long term public needs that would require the development of new civil protection technology solutions with a potential role for precommercial procurement strategies;
    - create a roadmap for a future PCP topic to be included for an upcoming Horizon 2020 Secure Societies research call;
  - Type of action: Coordination and Support Action 100% funding
- DRS 7 – 2014: Crisis management topic 7: Crises and disaster resilience – operationalizing resilience concepts
  - Expected impact:
    - the development of European Resilience Management Guideline and demonstration through pilot implementation;
    - more efficient uptake of risk assessments through Member States and Critical Infrastructure Providers; and
    - more effective and coherent crises and disaster resilience management.
  - Type of action: Research & Innovation Action 100% funding
  - Contribution between €2m and €5m
- DRS 8 – 2014: Crisis management topic 8: Trans-national co-operation among National Contact Points (NCPs) for Security → only for NCP's

## Crisis Management and Civil protection – 2015 (1)

- DRS 1 - 2015: Crisis management topic 1: potential of current measures and technologies to respond to extreme weather and climate events
  - Expected impact:
    - more effective and faster emergency responses to extreme weather and climate events;
    - improved coordination of emergency reactions in the field;
    - improved capacity to provide adequate emergency responses to extreme weather and climate events;
  - Type of action: Innovation Action 70% funding
  - Contribution between €5m and €12m
  
- DRS 3 – 2015: Crisis management topic 3: Demonstration activity on large scale disasters' governance and resilience of EU external assets against major identified threats or causes of crisis
  - Expected impact:
    - increasing our capacity to anticipate, prepare and respond to disasters occurring outside the EU, through better risk assessments, monitoring and planning, including an improved use of existing assets and logistics;
    - enhanced capability to develop, test and validate crisis systems for real situations outside the EU;
  - Type of action: Innovation Action 70% funding

## Crisis Management and Civil protection – 2015 (2)

- DRS 6 – 2015: Crisis management topic 6: Addressing standardisation opportunities in support of increasing disaster resilience in Europe
  - Expected impact:
    - establishment of a standardisation roadmap; I
    - improved coordination of activities and cross-fertilisation among different sectors;
    - reduced fragmentation of the respective EU market(s).
  - Type of action: Coordination and Support Action 100% funding



## Disaster Resilience and Climate Change – 2014

- DRS 9 -2014-2015: Disaster Resilience & Climate Change topic 1: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices
  - Expected impact:
    - Better coordination, dissemination and communication of research and innovation activities
    - Improved and concise information for decision making (at both public and private sectors)
    - Rapid large-scale deployment and market uptake
  - Type of action:
    - a) Coordination and support actions – Single stage
    - b) Research and innovation actions (100%) – Two stage
    - c) Innovation actions (70%) – Two stage
  
- DRS 10 – 2014: Disaster Resilience & Climate Change topic 2: Natural Hazards: Towards risk reduction plans at national and European level
  - Expected impact:
    - Consolidation of and enhanced synergies between European and Member State funded research and innovation activities in natural hazards/disasters risk reduction.
  - Type of action: Coordination Action 100% funding – single stage

## Disaster Resilience and Climate Change – 2015

- DRS 11 – 2015: Disaster Resilience & Climate Change topic 3: Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts
  - Expected impact:
    - More sustainable and effective safeguarding and management of European cultural heritage through more reliable predictive and cost effective maintenance, improved risk management, diagnosis and treatment and a better understanding of the historical and technological contexts of heritage materials and objects.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m

## Critical Infrastructure Protection – 2014

- DRS 17 – 2014: Critical Infrastructure Protection topic 6: Improving the aviation security chain
  - Expected impact:
    - Higher level of security and a reduced operational impact on passengers and industry.
    - Faster, more accurate and reliable, less invasive, and overall more efficient to operate systems and processes than existing ones throughout their lifetime.
  - Type of action: Research & Innovation Action 100% funding
  - Contribution between €2m and €5m
  
- DRS 18 – 2014/2015: Critical infrastructure protection topic 7: SME instrument topic: “Protection of Urban soft targets”
  - Expected impact:
    - Enhancing profitability and growth performance of SMEs by combining and transferring new and existing knowledge into innovative, disruptive and competitive solutions seizing European and global business opportunities.
    - Market uptake and distribution of innovations tackling the specific challenge(s) protecting urban soft targets
    - Increase of private investment in innovation
  - Type of action: SME instrument 70% funding
    - Phase 1: feasibility study
    - Phase 2: innovation projects

## Critical Infrastructure Protection – 2015 (1)

- DRS 12 – 2015: Critical Infrastructure Protection topic 1: Critical Infrastructure “smart grid” protection and resilience under “smart meters” threats
  - Expected impact:
    - higher protection levels of energy distribution grid infrastructures:
    - more effective and systematic approach to resilience enhancements of smart grid critical infrastructures
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m
  
- DRS 13 – 2015: Critical Infrastructure Protection topic 2: Demonstration activity on tools for adapting building and infrastructure standards and design methodologies in vulnerable locations in the case of natural catastrophes
  - Expected impact:
    - More effective building standards and design methodologies for infrastructures and households located in vulnerable areas. Enhanced security of citizens and assets in such areas. Reduced socio-economic impact of natural catastrophes.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Critical Infrastructure Protection – 2015 (2)

- DRS 14 – 2015: Critical Infrastructure Protection topic 3: Critical Infrastructure resilience indicator - analysis and development of methods for assessing resilience
  - Expected impact:
    - Better risk assessment of different areas of critical infrastructures (energy grid, water supply, transport, communication, etc.).
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m
  
- DRS 15 - 2015: Critical Infrastructure Protection topic 4: Protecting potentially hazardous and sensitive sites/areas considering multi-sectorial dependencies
  - Expected impact:
    - better preparedness to Seveso type site/area related accidents via improved protection measures (including people training and education);
    - more effective assessment and decision-making related to the potential severity of a CBRNE accident, in particular regarding ways to decrease the cost of this kind of crisis and develop adequate protection measures in the light of established policy goals:
  - Type of action: Innovation Action 70% funding
  - CP, contribution between €2m and €5m

## Critical Infrastructure Protection – 2015 (3)

- DRS 16 -2015: Critical Infrastructure Protection topic 5: Cybercrime on Industrial Control Systems protection
  - Expected impact:
    - Reducing the risk of cyber attacks on IACS. Avoid adverse panic situations after cyber-attacks against key economy actors. Improved competitiveness of European industry through the development of new products and services against cyberattacks. Higher resilience levels of IACS. Stronger dissuasion effect against possible penetration attempts.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Communication Interoperability – 2014

- DRS 19 – 2014: Communication technologies and interoperability topic 1: interoperable next generation of broadband radio communication system for public safety and security – **PCP**
  - The proposed project must be structured in phases
  - Expected impact:
    - To create an EU interoperable broadband radio communication system for public safety and security over the next 15 years.
  - Type of action: Programme co-fund - Pre Commercial Procurement (70%)
  
- DRS 20 – 2014: Communication technologies and interoperability topic 2: Next generation emergency services
  - Expected impact:
    - This project shall contribute to the implementation of a common standard of emergency call services throughout Europe, ensuring, that the future media for daily communication can also be used for emergency calling.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Ethical/Societal Dimension – 2014/15

- DRS 21 -2014: Ethical/Societal Dimension topic 1: Improving protection of Critical infrastructures from insider threats
  - Expected impact:
    - to strengthen the protection of national and European Critical Infrastructures from insider threats brought by violent radicals.
  - Type of action: Coordination and Support Action 100% funding
  
- DRS 22 - 2014: Ethical/Societal Dimension topic 2: Better understanding the links between culture and disasters
  - Expected impact:
    - increased effectiveness and a more resilient society by ensuring that cities are better prepared
  - Type of action: Coordination and Support Action 100% funding
  
- DRS 23 – 2015: Ethical/Societal Dimension topic 3: Impact of climate change in third countries on Europe's security
  - Expected impact:
    - This action will help stakeholders to better understand consequences of climate change events in Third Countries and its security implications for the EU.
  - Type of action: Coordination and Support Action 100% funding



## Area: Fight against crime and Terrorism

- The ambition of this call is both to avoid an incident and to mitigate its potential consequences. This requires new technologies and capabilities for fighting and preventing crime (including cyber-crime), illegal trafficking and terrorism (including cyber-terrorism), including understanding and tackling terrorist ideas and beliefs to also avoid aviation related threats.
  
- This call is divided in four parts:
  1. Forensics
  2. Law enforcement capabilities
  3. Urban security
  4. Ethical/Societal Dimension.

## Forensics – 2015 (1)

- FCT 1 – 2015: Forensics topic 1: Tools and infrastructure for the fusion, exchange and analysis of big data for forensic investigation
  - Expected impact:
    - Improved capabilities and accessing relevant data sources and retrieving information for the LEA
  - Type of action: Research & Innovation Action 100% funding
  - IP, contribution between €5m and €12m
  
- FCT 2 - 2015. Forensic topic 2: Advanced easy to use in-situ forensic tools at the scene of crime
  - Expected impact:
    - development of novel easy to use in-situ forensic tools, customised to the specific needs of EU LEA
  - Type of action: Innovation Action 70% funding
  - IP, contribution between €5m and €12m

## Forensics – 2015 (2)

- FCT 3 – 2015: Forensics topic 3: Mobile, remotely controlled technologies to examine a crime scene in case of an accident or a terrorist attack involving CBRN materials
  - Expected impact:
    - Improved identification / detection and collection of forensic evidence in case of accidents or terrorist attacks involving CBRN materials
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m
  
- FCT 4 – 2015: Forensics topic 4: Internet Forensics to combat organized crime
  - Expected impact:
    - improved LEA capabilities to conduct investigations by using information travelling and stored on the Internet obtained under a lawful warrant. ;
    - improved training of LEA staff able to perform these investigations. increased crime prosecution capabilities:
  - Type of action: Innovation Action 70% funding
  - Similar CP, contribution between €2m and €5m

## Law enforcement capabilities – 2014

- FCT 5 -2014: Law enforcement capabilities topic 1: Develop novel monitoring systems and miniaturised sensors that improve Law Enforcement Agencies' evidence- gathering abilities
  - Expected impact:
    - improved LEA capabilities to conduct investigations by using novel monitoring systems and miniaturised sensors; increased crime prosecution capabilities:
  - Type of action: Innovation Action 70% funding
  - CP, contribution between €2m and €5m
  
- FCT 7 - 2014: Law enforcement capabilities topic 3: Securing the vehicle supply chain from production to destruction
  - Expected impact:
    - To stop the criminal supply chain related to vehicles in Europe by enabling a comprehensive integration of information currently managed independently by all major stakeholders.
    - To strengthen public-private approach against vehicle crime in Europe and beyond through strong and structured cooperation between major stakeholders along the (criminal) supply chain.
  - Type of action Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Law enforcement capabilities – 2014/15

- FCT 8 – 2014: Law enforcement capabilities topic 4: Trans-national cooperation among public end-users in security research stakeholders
  - Expected impact:
    - It is expected to improve networking and coordination of various Member State activities relevant to security research at European level.
  - Type of action: Coordination and Support Action 100% funding (Coordinating action)
  
- FCT 6 – 2015: Law Enforcement capabilities 2: Detection and analysis of terrorist generated content on the Internet
  - Expected impact:
  - Projects under this topic should lead to:
    - More effective prevention of terrorist activities planned and organized via the Internet through automated analysis of terrorist-generated content.
    - Faster detection of grassroots terrorist cells from their online activities.
    - Faster and more accurate detection and analysis of malicious content published by terrorists.
    - Faster detection and analysis of terrorism trends. Reduction of the "information overload" on web intelligence experts due to automated summarization of the relevant content.
  - Type of action: Innovation Action 70% funding
  - CP, contribution between €2m and €5m

## Urban security – 2014

- FCT 9 – 2014: Urban security topic 1: Innovative solutions to counter security challenges connected with large urban environment
  - Expected impact:
    - Reduce the fear of crime and enhance the perception of security of the inhabitants of large urban environments, better addressing security challenges in large urban environments.
    - Providing new market opportunities, especially for SMEs and entrepreneurs, to develop and produce innovative technologies for urban security.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m
  
- FCT 10 – 2014: Urban security topic 2: Countering the terrorist use of an explosive threat
  - Expected impact:
    - Better understanding of the effectiveness of the supporting method/technology used to counter the terrorist use of an explosive threat.
    - Allowing those involved in counter-terrorist activities (e.g. Law Enforcement Agencies, bomb disposal units, Security & Intelligence Agencies, and Government Laboratories) to make proper choices in the application of new tools and technologies.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Ethical/Societal Dimension – 2014

- FCT 11 - 2014: Ethical/Societal Dimension Topic 1: Factors affecting (in-) security - Phase 1 Demo Project
  - Expected impact:
    - Identification of research gaps and priorities for understanding different factors defining public and personal (individual) assessment of (in)security.
    - Better understanding of how demographic background influences the feeling of (in)security.
  - Type of action: Coordination and Support Actions 100% funding
  
- FCT 12 – 2014: Ethical/Societal Dimension Topic 2: Enhancing cooperation between law enforcement agencies and citizens - Community policing
  - Expected impact:
    - Strengthened community policing principles through effective and efficient tools, procedures and approaches.
    - Early identification, timely intervention, as well as better crime reporting, identification of risks, unreported and undiscovered crime.
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m

## Ethical/Societal Dimension – 2015

- FCT 13 – 2015: Ethical/Societal Dimension Topic 3: The role of new social media networks in national security
  - Expected impact:
    - Better understanding of how social media can be used for national security purposes. Better understanding of the challenges, opportunities and risks for national security agencies of using social media. Via social media better prediction and identification of possible future threats.
  - Type of action: Coordination and Support Action 100% funding
  
- FCT 14 – 2015: Ethical/Societal Dimension Topic 4 - Understanding the underlying social, psychological and economic aspects of the genesis, methods and motivation of organized crime (including cyber related offenses)
  - Expected Impact:
    - Better understanding of the origins and development of organised crime and terrorist networks;
    - Better understanding of the process underpinning the progression of individuals from non-violence into violence;
  - Type of action: Research & Innovation Action 100% funding
  - CP, contribution between €2m and €5m



## Area: Border Security and External Security

- The ambition of this call is both to avoid an incident and to mitigate its potential consequences. This requires new technologies and capabilities for fighting and preventing crime (including cyber-crime), illegal trafficking and terrorism (including cyber-terrorism), including understanding and tackling terrorist ideas and beliefs to also avoid aviation related threats.
  
- This call is divided in the following parts:
  1. Maritime Border Security
  2. Border Crossing Points
  3. Supply Chain Security
  4. Information Management in the context of External Security
  5. Conflict Prevention and Peace Building
  6. Ethical/Societal Dimension

## Maritime Border Security – 2014

- BES 1 – 2014: Maritime Border Security topic 1: radar systems for the surveillance of coastal and pre-frontier areas and in support of search and rescue operations
  - development of surface wave and sky wave Over the Horizon radars for early and long distance border surveillance
  - Type of action: Innovation Action 70% funding
  - CP, Contribution between €2m and €5m
  
- BES 3 - 2014: Maritime Border Security topic 3: Light optionally piloted vehicles for maritime surveillance
  - New technologies for low weight/high performance radar and electro-optic systems for the detection and early identification and tracking of moving targets
  - Type of action: Innovation Action 70% funding
  - IP, Contribution between €5m and €12m

## Maritime Border Security – 2015

- BES 2 – 2015: Maritime Border Security topic 2: Low cost and “green” technologies for EU coastal border surveillance
  - Research and development are expected to include:
    1. further development of devices and sensors for maritime targets and environment (e.g. for mobile platforms)
    2. development of specific tracking and fusion algorithms
    3. operation in network configurations together with other systems for improved performances
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m
  
- BES 4 - 2015: Maritime Border Security topic 4: Detection of low flying aircraft at near shore air space
  - Research and development may include:
    1. Mobile units which can be quickly deployable in remote areas with communication links with command and control centres.
    2. Multi-mode radar technologies for the early detection, target pre-classification and tracking of low flying aircrafts.
    3. Integration of radar data and correlation with repositories of information to predict most probable landing areas.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m

## Border Crossing Points – 2014

- **BES 5 – 2014: Border crossing points topic 1: Novel mobility concepts for land border security**
  - Expected impact:
    - Research should lead to novel mobility concepts for land border security enabling authorities to achieve higher throughput at the crossing points whilst guaranteeing high security level, enabling fast processing of passengers within vehicles or pedestrians and improving the efficiency of passengers flow management. Harmonization of requirements across Member States (and standardization) is expected to also automatically greatly improve affordability.
  - Type of action: Research & Innovation Action 100% funding
  - CP like, Contribution between €2m and €5m
  
- **BES 7 – 2014: Border crossing points topic 3: Improving border checks at railway Border Crossing Points**
  - Expected impact:
    - The research should be assessed in terms of its potential to provide a novel border control paradigm that strikes a balance between facilitation, security and cost effectiveness. The expected impact is to make the daily work of border control authorities more efficient and to significantly facilitating non-EU citizens in crossing EU external borders.
  - Type of action: Research & Innovation Action 100% funding
  - CP like, Contribution between €2m and €5m

## Border Crossing Points – 2015

- BES 6 – 2015: Border crossing points topic 2: Exploring new modalities in biometric based border checks
  - Expected impact:
    - The outcome of the research should be assessed in terms of potential to improve border management and control modalities facilitating travel without compromising security.
    - The expected impact is to make the daily work of border control authorities more efficient and to significantly facilitating non-EU citizens in crossing EU external borders.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m
  
- BES 8 – 2015: Border crossing points topic 4: Optimization of border control processes and planning
  - Expected impact:
    - The outcome of the research should be assessed in terms of improved border control modalities with a view to dedicate more time and resources to identify those who may pose a threat.
    - The expected impact is to make the daily work of border control authorities more efficient and to significantly facilitating non-EU citizens in crossing EU external borders.
  - Type of action: Coordination and Support Action 100% funding.

## Supply Chain Security – 2014/15

- BES 10 – 2014: Supply Chain Security topic 2: Technologies for inspections of large volume freight
  - Expected impact:
    - The research is expected to provide a substantial contribution in the prevention of the unlawful transport of dangerous and illicit materials, also protecting critical elements of the supply chain from attacks and disruptions.
    - A technology which could scan a load with high probability of detection of particular key commodities would increase efficiency and throughput and reduce cost and delays to innocent shippers.
  - Type of action: Research & Innovation Action 100% funding
  - IP, Contribution between €5m and €12m
  
- BES 9 – 2015: Supply Chain Security topic 1: Development of an enhanced non-intrusive (stand-off) scanner
  - Expected impact:
    - To exceed the capability, improve security at the border, constitute an effective tool against organised crime
    - to lead to increased crime prosecution capabilities and to lead to increased privacy and data protection.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m

# Information Management in context of External Security 2014/15

- BES 12 – 2014: Information management topic 2: Information management, systems and infrastructure for civilian CSDP missions
  - Expected impact:
    - The research should lead to the creation of a strong community of interest for EU civil CSDP missions. Additionally, the selected proposal should develop key research priorities and thus pave the way for a demonstrator, which should be entirely focused on the needs of the end-users. The envisaged platform should allow end-users to enhance their common understanding of crisis management in EU civil CSDP missions. It should also improve the management of the EU resources' allocated to combating crisis and help federating the Community of Interest (CoI) amongst CSDP entities.
  - Type of action: Coordination and Support Action 100% funding
  
- BES 11 – 2015: Information management topic 1: Intervention forces tracking
  - Expected impact:
    - This project should lead to the development of novel secure communication and tracking solutions/ technologies for civilian CSDP missions. Through better tracking of intervention forces it should lead to more efficient and effective humanitarian missions. Ultimately, it should reduce threats to intervention forces on the ground and contribute to a more efficient implementation of the CSDP.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m

## Conflict Prevention and Peace Building – 2014/15

- **BES 13 – 2014: Conflict prevention and peace building topic 1: Enhancing the conflict prevention and peace building capabilities of the EU**
  - Expected impact:
    - Projects resulting from this topic should develop a clear assessment of the capabilities of the EU for external conflict prevention and peace building and identify the best means to enhance these capabilities.
    - A set of clear policy priorities and technological needs on conflict prevention should be developed, with a focus on the exploitation of civilian-military synergies.
  - Type of action: Coordination and Support Action 100% funding
  
- **BES 14 – 2015: Conflict prevention and peace building topic 2: Training curricula for Crisis Prevention and Peace Building personnel**
  - Expected impact:
    - New training curricula for enhancing the preparedness and skills of personnel for conflict prevention and peace keeping missions. Thus contributing to more efficient and effective conflict prevention and peace keeping missions. Ultimately, this should reduce the costs of such missions, whilst at the same time contribute to a more efficient implementation of the CSDP.
  - Type of action: Coordination and Support Action 100% funding



## Ethical/Societal Dimension – 2014

- BES 15 – 2014: Ethical Societal Dimension topic 1: Human factors in border control
  - Expected impact:
    - This research should make a major contribution in improving the effectiveness of EU border control. It will contribute to the implementation of the Smart borders initiative (and future regulation), reinforcing checks while speeding up border crossing for regular travelers, optimizing procedures and enhancing the security at the moment of the crossing of the EU external borders.
  - Type of action: Research & Innovation Action 100% funding
  - CP, Contribution between €2m and €5m

## Area: Digital Security: Cybersecurity, Privacy and Trust managed by DG CNECT

- The ambition of this call is both to avoid an incident and to mitigate its potential consequences. This requires new technologies and capabilities for fighting and preventing crime (including cyber-crime), illegal trafficking and terrorism (including cyber-terrorism), including understanding and tackling terrorist ideas and beliefs to also avoid aviation related threats.
  
- This call is divided in the following parts:
  1. Privacy
  2. Access Control
  3. The role of ICT in Critical Infrastructure Protection
  4. Secure Information Sharing
  5. Trust eServices
  6. Risk management and assurance models

## Privacy – 2014 & Access Control – 2014

- DS 1 – 2014: Privacy
  - Expected impact:
    - The actions supported under this objective are to provide a practical, user friendly and economically viable implementation of the legal obligation for prior consent.
    - The actions will not only identify but more importantly implement privacy by design architectures. It is expected that the actions will lead to an increased user trust online, resulting in a higher uptake of online services.
    - Actions should generate positive business cases for online privacy.
  - Type of action: CP, Funding level: 70%
  
- DS 2 – 2014: Access Control
  - Expected impact:
    - Actions supported under this objective will deliver secure, but user-friendly, access to ICT systems, services and infrastructures, resulting in a consumerisation of devices for access control. The level of security of online services and critical infrastructures protected by these access systems should be demonstrably higher than by the state-of-the-art approach. The proposed solutions are expected to support the creation of commercial services making use of electronic identification and authentication.
  - Type of action: CP, Funding level: 70%

# The role of ICT in Critical Infrastructure Protection – 2014 Secure Information Sharing – 2015

- DS 3 – 2014: The role of ICT in Critical Infrastructure Protection
  - Expected impact:
    - Resilient and robust communication networks offering a reduced attack surface to the supported critical infrastructures. Reduced criticality of ICT components installed in critical infrastructures. Increased preparedness, reduced response time and coordinated response in case of a cyber-incident affecting communication and information networks.
    - Reduced possibilities to misuse ICT as a vehicle to commit cybercrime or cyber-terrorism.
  - Type of action: CP, Funding level: 70%
  
- DS 4 – 2015: Secure Information Sharing
  - Expected impact:
    - The pilots will establish an operational information sharing between the public and private sector, building trust between the public and private sectors. The actions are expected to lead to a faster response to incidents and/or vulnerability through faster sharing of information and an enlarged source of information. Ultimately the actions will reduce the impact of incidents and in particular increase the level of preparedness of SMEs.
  - Type of action: CP, Funding level: 70%

# Trust eServices – 2015

## Risk management and assurance models – 2015

- DS 5 – 2015: Trust eServices
  - Expected impact:
    - Demonstrate a positive business case and the economic value for the use of and reliance upon trust eServices. By paving the way for global interoperability of trust eServices, the initiative should contribute to empower and protect users in their digital experiences like e-contracting, e-bidding, e-invoicing, accessing social networks, or accessing the services of local or national administrations (e.g. issuing documents like driver's licence, visa, ...).
    - The initiative should create the conditions for more commercial applications and services to integrate the use of e-signatures, timestamps, e-seals and certified electronic delivery. Enhancing the trustworthiness of electronic transactions will ease the dematerialisation of processes, reduce administrative overhead for citizens and businesses and, last but not least, facilitate higher availability of eGov services.
  - Type of action: CP, Funding level: 70%
  
- DS 6 – 2015: Risk management and assurance models
  - Expected impact:
    - A risk management framework has to be put in place addressing not only legal requirements (such as imposed by the NIS Directive), but allowing the comprehensive comparison between the sector specific or national approaches, and providing an assessment on the residual risk. The framework will facilitate the implementation of legal obligations on risk management and identify gaps in existing legislation.
  - Type of action: CP, Funding level: 70%

# Thank you!

*An idea is not a single thing.*



*The trick to having good ideas is not to sit around in glorious isolation and try to think big thoughts. The trick is to get more parts on the table, which enable us to combine and bring different parts together.*

***A good idea is a network - it is all about bringing people and ideas together .....***

*Steve Johnson,  
„Where do innovation or good ideas come from?“, 2010*

Helmut Schwabach  
Business Development  
helmut.schwabach@ait.ac.at

AIT Austrian Institute of Technology  
Safety & Security Department