



Update on Preparatory Action

EDA process for the Preparatory Action

- Workshops organised to consult MS
- Assessment of topics (from MS and industry)
- Clustering and Prioritization exercise
- Result: - narrowing down the topics
 - merging topics + integration of topics in larger topic
 - descriptions tailored
- Consolidated views of MS sent to the Commission for Technology Demonstrators (TD), Critical Defence Technologies (CDT), Disruptive Technologies (DT) and Interoperability, Complementarity and Standardisation (ICS)*

*Proposed options do not prejudice the final selection to be made by the Commission after consultation of the as if Programme Committee

Clusters used for the various types of projects

Technology demonstrator

- Information superiority, cyber defence and sensor technologies
- Maritime capabilities and Autonomous platforms technologies and RPAS
- Logistics and energy
- Force protection and soldier systems
- Offensive weapons and major platforms

Critical Defence Technologies

- Information superiority and cyber defence
- Sensor technologies and components
- Logistics and energy
- Force protection and soldier systems
- Offensive weapons and major platforms

Disruptive Technologies and Interoperability, Complementarity and Standardisation

- Autonomous platforms
- C4ISR
- Force Protection and Soldier systems
- Effects
- Transversal topics

Consolidated MS proposals for TD topics

1. Cross-border Cyber Situational defence awareness
2. Maritime Surveillance RPAS: a federative programme with projects on data exchange and fusion, sensor payloads, the platform (in a manned/unmanned mix), the integration of the platform in a C2 environment and various cyber defence aspects
3. Autonomous convoying of vehicles
4. Soldier system with a focus on an Open Soldier Reference Architecture, and integrating and the testing of new technologies
5. Counter hostile drones, including the effectors to destroy them such as lasers

Consolidated MS proposals for CDT topics (1/2)

1. Coalition Cyber Situational Awareness (area of interest; topic to be defined in greater detail)
2. Combined use of GNSS Systems (area of interest; potential topic to be defined in greater detail)
3. Advanced digital high performance System on Chip and in Package processing technologies for secure, safe and reliable defence applications including technologies such as reprogrammable FPGAs
4. Demonstration of next generation European key enabling sensor components technologies for military applications in radar, communications and electronic protection/warfare.
5. Use of Active Electronic Scanned Arrays (AESA) for Electronic Warfare (EW) applications
6. Cognitive Radar Platform

Consolidated MS proposals for CDT topics (2/2)

- 7. Biological Standoff Detectors
- 8. Optimized decontamination methods and procedures in urban areas
- 9. Procedures and new technologies for CBR-IED disablement.
- 10. Advanced holistic protective equipment (including blast, impact, C-agents, and camouflage)

11. A. Missile fuels, components and materials

OR:

11. B. Modularity and Precision for munition: Precision Guided Ammunition (PGA) aims to achieve precision effects.

Consolidated MS proposals for ICS topics

Autonomous platforms

1. Interoperability standards for unmanned ground systems

C4ISR

2. Combined use of GNSS systems
3. Kept in mind: Standards in Information Security and Cyber Defence

Force Protection and Soldier systems

4. Standards for CBRN defence equipment
5. Open Reference Architecture for Military Land Vehicles and Mission Systems

Effects

6. Architecture for NDOF Distributed Simulation for Ammunition Qualification

Transversal topics

7. Certification of 3D Printing

Consolidated MS proposals for DT topics

Autonomous platforms

1. Autonomous multi-robot systems for surveillance and reconnaissance missions
2. Miniaturized multi-frequency conformal AESA antennas
3. Multifunction RF sensors for RPAS payloads
4. Next Generation IR Detector Components and Cameras

C4ISR

5. Microwave Photonic components integration for Radar and Communication antennas
6. **Kept in mind:** High-speed/Quantum Computing with Military Cyber Implications

Force Protection and Soldier Systems

7. Smart textiles
8. New Protection technologies for CBRN agents

Effects

9. Nanoenergetic materials

Transversal topics

10. High temperature composites for defence systems

Next Steps for the Preparatory Action

- 30 June 2016: Commission's Budget proposal - € 25M for the P.A.
- October 2016: Finalisation of the Scoping Paper and Rules of Participation (content-related issues to be discussed: final selection of topics and supporting actions)
- November 2016: Agreement on work-programme
- December 2016: Adoption of 2017 budget / EC's communication on PA
- Before mid 2017: Launch of 1st Call (dependent on delegation agreement)
- Late 2017: Signature of 1st grant agreement(s)