



Pitot Project & Preparatory Action on Defence Research

31 May 2017, Brussels

Agenda

- ✓ Background of the Preparatory Action
- ✓ Roadmap to the Grant Agreement
- ✓ Project Management
- ✓ Focus: Preparatory Action Topics

Preparatory Action: policy context (2016)

- President Juncker stresses importance of security & defence at EU level
- HR/VP Mogherini presents the EU Global Strategy for the EU's Foreign and Security Policy
- European External Action Service: Implementation Plan
- Commission Communication: European Defence Action Plan

„the process of developing military capabilities taking into account Research and Technology (R&T) and industrial aspects“

- EC Conclusions December 2016

Also: GoP Group of Personalities report was issued in February 2016

The Goal of the Preparatory Action

Preparatory Action on defence research is to test and prepare the basic act for defence research at EU level

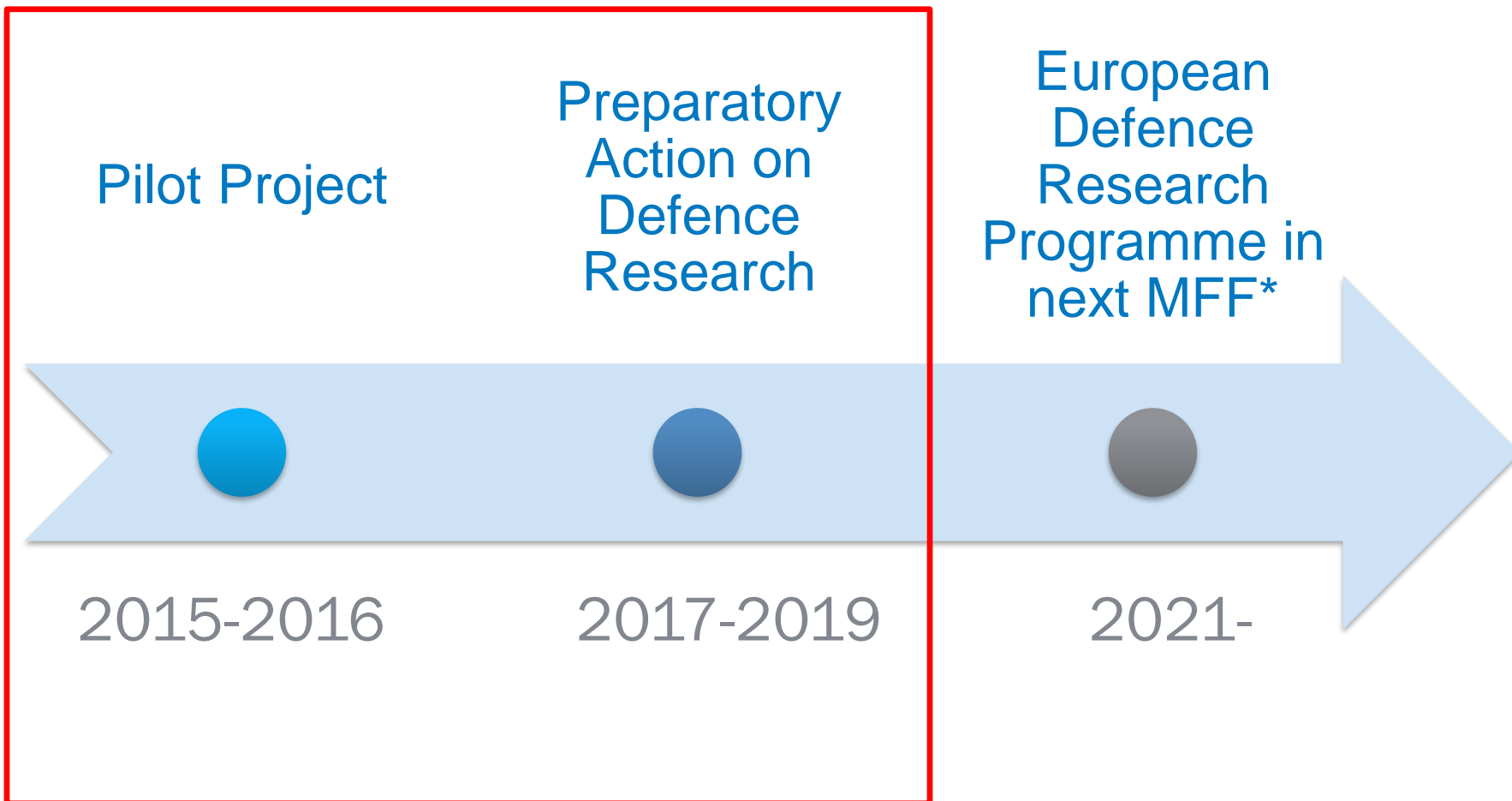
EDA'S contribution :

- Bring expertise on capability development and defence research through capability development planning and strategic research agenda setting
- Upstream role: platform for discussion among defence experts and refinement of topics for work-programme
- **Implementation**
- Downstream role: supporting the exploitation of results



Background of the Preparatory Action

Timeline



*Multi-annual Financial Framework

Summary of the Pilot Project

- Delegation Agreement EDA-Commission signed on 16 November 2015
- Budget: 925,000€ (2015) + 500,000€ (2016)
- Launch of Call for Proposals: 23 March 2016. Deadline proposals: 23 June 2016
- One call with 3 topics
- Closure: 2018

Summary of the Pilot Project

- Unmanned Heterogeneous Swarm of sensor platforms, 1 year, 434,625€
- Inside Building Awareness and Navigation for Urban Warfare, 1 year, 475,000€
- Standardisation of Remotely Piloted Aircraft System (RPAS) Detect and Avoid, 1.5 years 434,625€

Towards the work programme

- Preparation of Work Programme for 2017
 - Commission leadership
 - MS involvement: As-if Programme Committee
 - EDA upstream role. Involvement of CapTechs and Working Groups
- Outcome of the discussion is in the public domain, annexed to the Commission Financing Decision on “*the financing of the 'Preparatory action on Defence research' and the use of unit costs for the year 2017*” (11 April 2017)

The upcoming calls

- Technological demonstrator for enhanced situational awareness in a naval environment:
 - Integration of platforms with improved sensors capacity, persistence and autonomy
 - Integration of data from multiple sources in a single predefined tactical picture
- Force protection and advanced soldier systems beyond current programmes:
 - Generic Open Soldier Systems Architecture
 - Tailor-made blast, ballistic and CBRN protection of military personnel
 - Adaptive camouflage
- The European Defence Research Runway:
 - Strategic technology foresight to gain understanding of important trends and their defence and security implications

Roadmap to the Grant Agreement

Next Steps



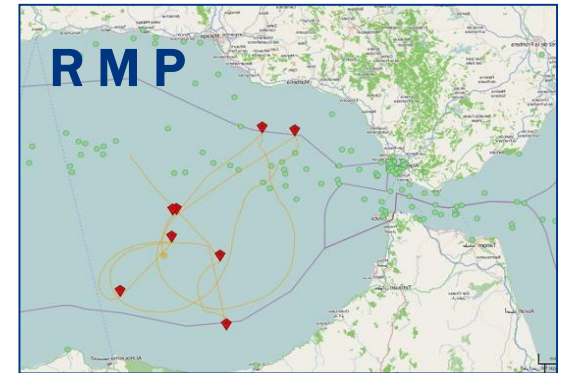
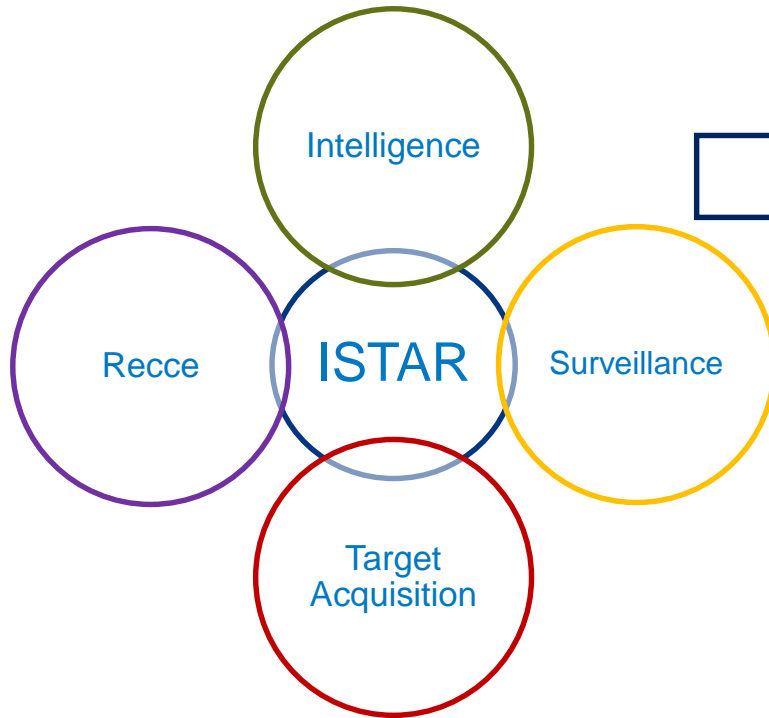
Financing Decision for 2017	11 April 2017
Delegation Agreement Commission EDA	31 May 2017 (TBC)
Set up of IT tools	ongoing
Publish first call	June 2017
Info Day at EDA	27 June 2017
Exp deadline for submission proposals	Second half Sept 2017
Evaluation of proposals	October 2017
Signature of Grant Agreements	End 2017/Early 2018

Management of the activities

- During project implementation EDA will regularly monitor the development of the activities, e.g.:
 - Continued relevance and feasibility of the project
 - Progress in achieving the objectives and resources used
 - Quality of management including risk management
 - Sustainability of the benefits / outcomes
- Establishment of effective management tools to manage the interaction among the different entities in Consortia
- Effective interaction between Consortia and EDA for the success of the initiatives (e.g. regular reporting, periodical meetings, reviews)

Focus on Preparatory Action Topics: Unmanned Systems

Specific Challenge



- Detection
- Identification
- Tracking
- Target Acquisition
- Interoperability

Technological demonstrator: UAS, USS, UUS

***to enhance situational awareness for
defence operations in naval environment***

The proposal

- The implementation of this topic is intended to:
 - start at TRL 4 and
 - target TRL not lower than 6 and not higher than 7.
- Total contribution 32-36 M€
 - 14-16 M€ - core part, 2017 Budget (approved)
 - Up to 4 additional research modules, 5M€ each from 2018 (planned, pending budget approval)
- Single submission of a full proposal, followed by a single evaluation
- No more than one action will be funded
- The participation of SMEs in the proposal is strongly encouraged (“Implementation” criterion)

Focus on PA Topics: Force protection and Soldier Systems

Specific Challenge

Interoperability

- Vehicle, infrastructure and soldier systems open standards
- Enable:
 - Effectiveness
 - Adaptability to mission profile
 - Maintaining state of the art
 - Reducing life cycle, logistic and human resource footprint

Safety

- Individual ballistic protection still essential
- Main challenges:
 - Weight reduction
 - Inflexibility to better fit differences in anatomy
 - Protection against kinetic threats only
- Current technology based on fibre technology and hard plate technology
- New solutions e.g. shearthickening fluid known but not yet fully implemented

Defence specificity

- Short wave infra red, thermal infrared and radar

The proposal

- The implementation of these topics are intended to:
 - Focus on TRL 2 to 3 for topic (a)
 - Focus on TRL 2 to 4/5 for topics (b) and (c).
- 5 – 7,5 M€, 2017 Budget (approved)
- One or more actions concerning research in technologies and products

Specific Challenge

- Rapid changes in many domains with huge impact on the global security situation
- Monitor important trends and their defence and security implications
- Includes Horizon Scanning & Technology Watch
- The strategic technology foresight should be coupled to a process and method for scoping EU-funded defence research based on scenarios to illustrate potential future conflicts
- Proposals should include elements to ensure continued monitoring and updating beyond the action's lifetime

The proposal

- EU contribution: EUR 0.8 to 1.0 M€ 2017 Budget (approved)
- No more than one action will be funded



Thank you for your attention!