AIR, SYSTEMS

(ES) Next Generation Small RPAS (NGSR)

(established in November 2021)

For Public Release

PROJECT DESCRIPTION

The project intends to develop a tactical UAS to be use at ground, maritime, air and special force operations, as well as non-military agencies such as border control, law enforcement or disaster management. The UAS can be operated remotely or on pre-programmed autonomous routes, can be expendable or recoverable, and can carry a lethal or nonlethal payload. The system provides multi-role capability on demands, including real-time situational awareness, communications, ISR, targeting acquisition and BDA, EW and armed response.

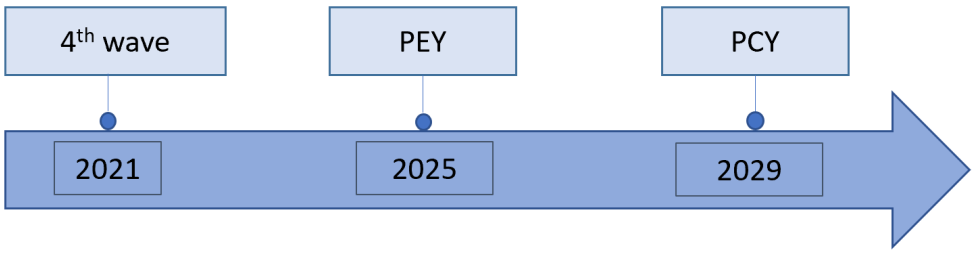
OBJECTIVES/PRODUCTS

This project aims to develop the next generation of tactical UAS. The design characteristics and expected performance provide a potential use for tactical Army units (Brigade/Division size), for Maritime and Air domain, as well as for dual use (civilian / military), namely by law enforcement organizations or disaster/emergency agencies. A multi-purpose/multi-role system to provide tactical commanders a wide multiplicity of tools. This UAS will possess capabilities to deploy, operate, and employ autonomous behaviours to reduce pilot and operator workload. The system will be able to deploy, take off, land and operate in a tactical environment without runway.

Technology advancements will allow an open architecture, autonomy, modularity, and interoperability to maximize system effectiveness. Standards and interface specifications need to be established to achieve modularity, commonality, and interchangeability across payloads, control systems, video/audio interfaces, data, and communication links. This openness will allow different countries, services and civilian agencies to use it.

INDICATORS

Project Execution Year (PEY) and Project Completion Year (PCY):



DELIVERABLES ACHIEVED

- Terms of Reference (ToR)
- Common Staff Targets (CST)
- Common Staff Requirements (CSR)

CRITERIA FOR SUCCESS

Participants' acquisition of a Small Remotely Piloted Platform in accordance with the objectives of the project, thus requiring a common effort in the definition of requirements, a common financial framework, the collaboration of European Industry, and the harmonization of the lines that support the development of a capability.

ES, HU, PT, RO, SI

AT, DE, EL, FR, IE, NL, SK, SE

IDEATION
INCUBATION
EXECUTION
CLOSING

Contribution to the more binding commitments
Yes

Capability Perspective

EU CDP priority
Air Superiority

CARD references
Tactical Remotely Piloted Aerial Systems (RPAS)

Operational Viewpoint

HICG
Land ISTAR

EDA support
Yes
Ah hoc Cat.B support