

Emerging military scenarios with increasing complex threats are demanding new and advanced RF systems to ensure the strategic autonomy of the European Union (EU).

CROWN unites the EU's major defence contractors, radar manufacturers, and research institutes and takes an initiative to define the steps towards the availability of a fully digital multifunction RF AESA-based system for the end users within the next decade.



[www.crown-padr.eu](http://www.crown-padr.eu)

Follow project activities on  

Having the objective to design, develop and test a compact, lightweight multi-function radiofrequency system prototype integrating radar, electronic warfare, and communication in one single system, without any end-user restrictions, CROWN encompasses a total of

**11**  
participants from  
7 countries



For further information please contact us: [info@crown-padr.eu](mailto:info@crown-padr.eu)



This project has received funding from the European Union's Preparatory Action on Defence Research under grant agreement No 882407 [CROWN]



EUROPEAN ACTIVE ELECTRONICALLY SCANNED ARRAY WITH COMBINED RADAR, COMMUNICATIONS, AND ELECTRONIC WARFARE FUNCTIONS FOR MILITARY APPLICATIONS

Follow project activities on  



- **CROWN includes two main and connected activities as first step towards an EU programme for a multifunction RF (radar, EW, communication) AESA-based system, using technology without end-user restrictions in TRL7, for a single aerial platform by 2027.**

**1.**

R&D assessment and recommendations on key critical technologies for the development of future European multifunction RF AESA systems, establishing roadmaps and priorities avoiding dependencies from non-EU suppliers.

**2.**

R&T activities on system and component level. These activities will be based on the requirements identified from the main stakeholders and on the architecture study fulfilled.

In addition, a small-scale prototype will be also designed, manufactured, and tested in a laboratory environment. Laboratory results will be conveniently scaled to the system level through modelling.



## CROWN Objectives

- **EU supply chain assurance**

EU supply chain assurance regarding critical defence technologies and particularly for the domain of multifunction RF AESA-based systems.

- **Tangible progress**

Tangible progress for the future development of a high performance European multifunctional RF AESA-based system, combining radar, electronic warfare, and communications functions.



- **Active collaboration**

Active collaboration in the project of main stakeholders and end users for requirements identification and demonstration activities.

- **Solid base for future development**

Constitution of a solid base for a future joint Union development program for a European multifunction RF AESA-based system.

