

# CROWN

## Spectrum Dominance

PADR-EMS-03-2019

**NAME OF THE PROJECT** **European active electronically scanned array with Combined Radar, cOMmunications, and electronic Warfare fuNctions for military applications**

**SHORT NAME** **CROWN**

**GRANT AGREEMENT NUMBER** **882407**

### OBJECTIVE OF THE PROJECT

CROWN proposal is the first step towards a 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. The proposed activities are:

- R&D assessment and recommendations on critical technologies key for the development of future European multifunction RF AESA systems establishing roadmaps and priorities avoiding dependencies from non-EU suppliers.
- 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. Demonstrators for the different levels, system and component, will be developed taking in consideration the inputs of the R&D assessment in order to avoid as much as possible non-European technologies for CROWN demonstrators.

A small-scale prototype will be also designed, manufactured and tested in a laboratory environment and a System modelling will integrate models from the main building blocks studied (antenna, TRMs, DBF and RSM) to assess the performance of the defined system upon different scenarios.

**PROJECT DURATION** **30 months**

**STARTING DATE** **1 July 2021**

**GRANTED EU CONTRIBUTION** **€ 9.999.688,75**

## LIST OF PARTICIPANTS

#	NAME OF THE ENTITY	COUNTRY
1	INDRA SISTEMAS S.A.	Spain
2	THALES DM SAS	France
3	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	France
4	HENSOLDT SENSORS GMBH	Germany
5	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	Germany

6	SAAB AKTIEBOLAG	Sweden
7	TOTALFORSVARETS FORSKNINGINSTITUT	Sweden
8	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPLUK ONDERZOEK TNO	The Netherlands
9	LEONARDO - SOCIETA PER AZIONI	Italy
10	ELETTRONICA SPA	Italy
11	BALTIJOS PAZANGIU TECHNOLOGIJU INSTITUTAS	Lithuania