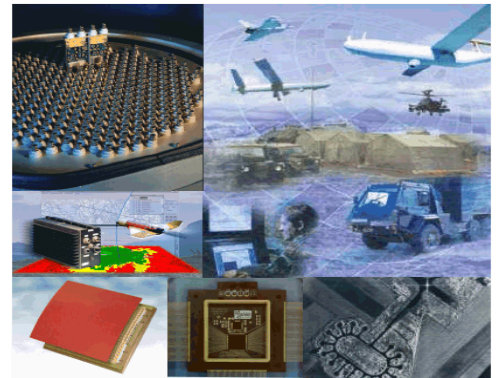




SIMCLAIRS Innovation and Technology Partnership

A call for proposals is to be held in September 2009 for competed research programmes starting in early 2010.

On 31st March 2009 the European Defence Agency (EDA) signed the contract on the Studies for Integrated Multifunction Compact Lightweight Airborne Radars and Systems (SIMCLAIRS) with a consortium consisting of national industrial companies from three EDA participating Member States: France, Sweden and United Kingdom. The consortium consists of 4 European companies, all of which have already been successfully involved in past and present airborne radar and equipment development in Europe.

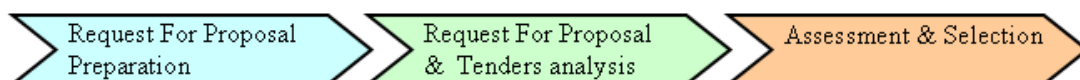


The project started in April 2009 and lasts for 48 months; the value of contract is €21 million (excluding VAT). If the first four year phase is successful then a second phase is expected.



Project Aims

The main aim of SIMCLAIRS is to deliver new technology solutions in the field of light and compact Unmanned Aerial Vehicle (UAV) Radio Frequency (RF) payloads with the combination of Synthetic Aperture Radar / Moving Target Indicator (SAR/MTI), Foliage Penetrating (FOPEN), Electronic Support Measures (ESM) and possibly communications. Expected results of the project will be a response to the projected capability needs arising within the time horizon of 2015–2020. To achieve the best results in terms of the technology solutions available, the project establishes a new mechanism called the Innovation and Technology Partnership (ITP) where a competed part of the project will ensure the capture and exploitation of novel technologies from Industry, small and medium enterprises and academia, and provide the free flow of technology and information across national boundaries between the participating entities. In order to guarantee the best technology knowledge available in Europe two open calls for Research Supplier Proposals will be organized by the consortium, without discrimination on grounds of nationality, type of research suppliers and so on. The first call will be in September 2009.



Technical Domains/ Initial Research Topics

- **TD1 -Sensor systems objectives**

Requirements for sensor systems, Sensor systems analysis, performance objectives, Analysis of critical technology

- **TD2 -Low frequency surveillance technologies**

Digital sampling, synthesis and distribution, Antenna systems combining radar and passive technologies, Covert and cohabitant radar

- **TD3 - High frequency surveillance technologies**

Multifunction RF digitised receiver technologies, Antenna architecture, Wideband High SFDR MMIC receiver

- **TD4 - Multi-band sensors**

Very wideband transmitter/receiver subassemblies, including power amplifiers, Multifunction IF digitised receiver technologies, Compact waveform generation for multifunction, multiband sensors, Wideband MMICs for low mass multifunction antennas and RF systems

- **TD5 - Multi-platform sensors**

Synchronisation and Platform Localisation, Mode Scheduling and Multiplatform COMINT'

Potential List of Research Topics for the First Call (non-exhaustive list):- Architectures to Partition Safety-Related Functions; Interference Rejection for Low-Frequency SARs; Vertical SAR; Miniature Reconfigurable RF Filters; Multi-Mode ADCs; RF and IF Switch Technologies; Data Compression; Miniaturized high frequency building blocks; GaN process: hot and cold GaN FET modelling; Noise GaN FET modelling.

The Bidding Process for the First Call

- Bidders' conferences are to be held in September 2009 in Paris, London and Stockholm. Potential Research Suppliers have two (2) weeks to submit an outline technical proposal for initial down selection.
- "Short-listed" suppliers will be requested to provide a more detailed technical and commercial proposal (5 pages max) for further down selection.
- Following SIMCLAIRS Management Board approval, sub-contracts for successful bids will then be placed through the national competition leaders: Thales in France, SELEX Galileo in the UK and Saab AB in Sweden.
- Project Kick-off will be around Jan/Feb 2010 at the latest with the programmes expected to be of up to 18 month duration. Successful programmes may be extended via the second call.

Further Information /Bidders' Conferences

- **Email Contacts:** To be put on our mailing list and to register your interest in attending one of the bidders' conferences please send an email to one of the consortium companies:
France : Alexandra.muzotte@fr.thalesgroup.com **UK:** john.a.robertson@selexgalileo.com
Sweden: birgitta.bohlin@saabgroup.com
- **Webpage:** Further information, nearer the bidder conference dates, will be available via the EDA at: www.eda.europa.eu
- **Bidders' Conference Arrangements**
France: THALES Research & Technology France Campus Polytechnique, 1 avenue Augustin Fresnel F-91767 Palaiseau cedex on 8th September 2009.
UK: Whittle Theatre, Cody Technology Park, QinetiQ Limited, Farnborough on 15th September 2009.
Sweden: The World Trade Center, Stockholm on 17th September 2009.