



SIMCLAIRS Innovation and Technology partnership Results of the first Call for Research Proposals by the ITP Consortium.

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 have to be organized by the consortium, without discrimination on grounds of nationality, type of research suppliers and so on. The first call started in September 2009 and the final selection ended in December 2009.



The result of the First call:

The first call was initiated by a flyer, posted on different forum, including EDA extranet website. A bidder conference session was organized in each participating member country. A programme handout booklet was provided to the participants, attached to a two page short form to be fulfilled by the candidates. After the first selection, the candidates corresponding to the criteria were requested provide a detailed proposal. This proposal was evaluated by the consortium, including the MOD members, according to the contractual criteria. For some proposals, a run-off presentation was necessary for final selection. The final list of selected projects is in the following table. The contractual launching of the competed programmes was finalized in March 2010.

We kindly thank all the candidates, including the non selected ones, for the effort they have provided.

SIMCLAIRS consortium will issue a second competed call, with roughly the same funding. The next flyer will be published on November this year.

As for the first call, call 2 will also be fully funded by the consortium.



<i>TD N°</i>	<i>Ref.</i>	<i>HandoutTitle</i>	<i>Company</i>	<i>Proposal</i>	<i>Duration</i>	<i>Total Amount</i>
TD2	C04	Interference Mitigation Techniques for Low-Frequency	Univ. of Bristol	LF Radar cohabitation strategies with existing Comms Systems: Interference Assessment and Suppression	T0+12	1930K€
TD2	C04	Interference Mitigation Techniques for Low-Frequency	Chalmers Univ.	Co-Existence of Low-Frequency Radar and Commercial Wireless Systems by Means of Adapted Waveforms and Interference Rejection	T0+18	
TD3	C06	Low Profile Dual Polar Wide Bandwidth Radiating Elements	SART	Planar self-complementary structure for wideband antenna	T0+18	
TD3	C07	RF Switch Technologies for Antenna Reconfiguration	Univ. of Sheffield	Reconfigurable antenna systems using high impedance surfaces	T0+11	
TD3	C08	- GaN Foundry Processes for Miniaturized High Frequency Building Blocks.	UMS	Miniaturized high frequency building blocks	T0+6	
TD3	C09	Modelling for Cold GaN FETs and Diodes	AMCAD Engineering	Modelling for Cold GaN FETs and Diodes	T0+6	
TD3	C10	Noise - Linear and Non-linear Modelling of Hot GaN FETs	MC2-T	Noise -Linear and Nonlinear Modelling of Hot GAN FETs	T0+07	
TD4	C11	Miniature Reconfigurable RF Filters.	Herio Watt Univ.	Development and Demonstration of Miniature Reconfigurable RF Filters	T0+18	
TD4	C12 & C13	Multi-Mode ADCs & Wideband DACs for Waveform Generation	Univ. of Cardiff	Multi-mode Sampling ADC system and Wide band DAC using Direct Interpolation	T0+18	
TD4	C12	Multi-Mode ADCs	SP Devices Sw AB	Combined Interleaving and Linearization of Analogue to Digital Converters	T0+4	
TD4	C14	RF/ IF Switch Technologies.	Univ. of N'castle (INEX™)	Monolithic RF/IF MEMS Switch Matrix Technology Demonstrator	T0+18	
TD4	CXX	Spontaneous Proposals	TEMEX	Compact, lightweight and low power Master Oscillator Low power SAW oscillator	T0+15	

Selected companies, SMEs & universities for the SIMCLAIRS competed programme call 1