

Innovair i internationell samverkan

Björn Jonsson Innovair



Internationell samverkan

- Förutsättningsskapande: Garteur, ACARE, Clean Sky SRG, Clean Sky MoU, Regeringsbeslut
- Tyskland
- Brasilien
- Storbritannien

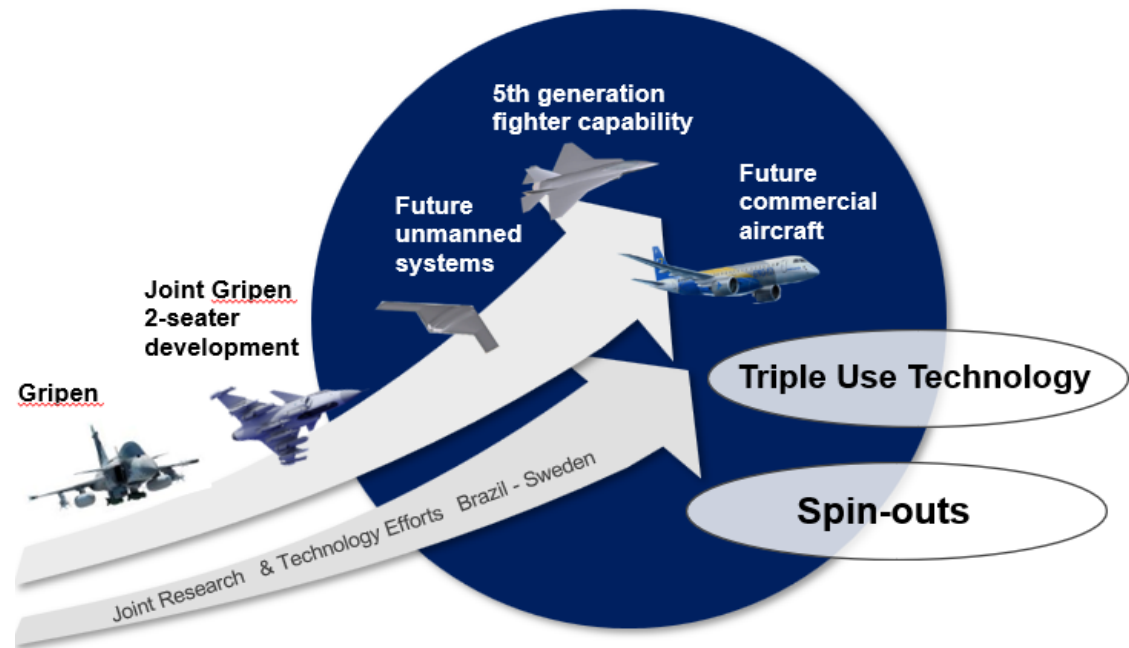
Internationell samverkan med Tyskland

- LuFo V
 - UAV/ Systems-of-Systems for forest surveillance and fire-fighting.
 - Thermo-Mechanical Fatigue – Effects of Defects for an Additive Manufactured Structure
 - New Aluminum Alloys for low weight jet engine components
- SARC-ZAL (ZAL Zentrum für angewandte luftfahrtforschung GMBH)
- LuFo VI ?

Internationell samverkan med Brasilien

- NFFP anpassning
- Pilotprojekt
- Utlysningar
- SARC/ Barinet
- HMI HUFLAB
- High Level Group
 - Air Domain Study

The Brazilian–Swedish Aeronautics Vision



Internationell samverkan med Brasilien

- Teknik- och metodspridning

- Gruvindustri
- Smarta städer
- Bio-ekonomi
- Life-sciences
- SGI

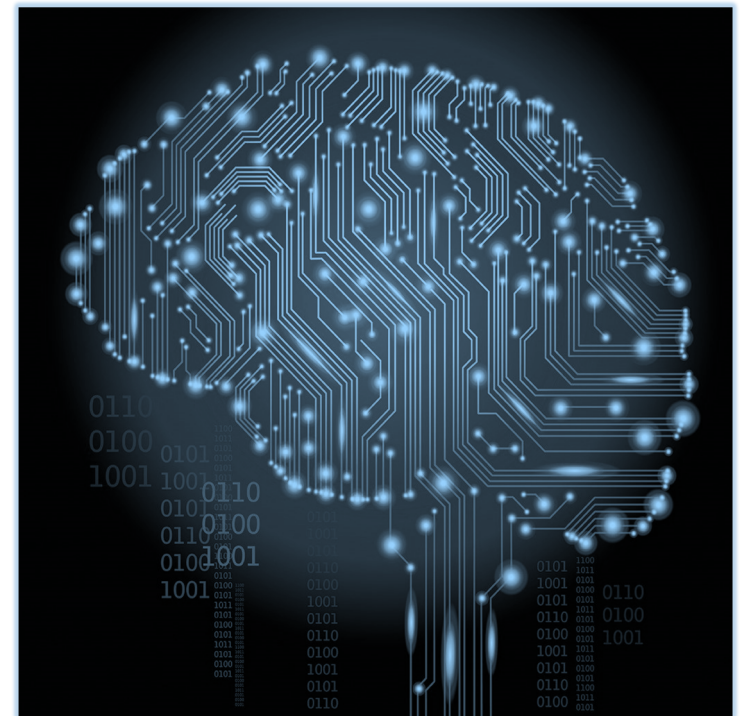
BACKGROUND

- Digitalization transforms industry and business
- ADS – Autonomy is key technology !

THEREFORE Nurture initiatives for Aeronautics etc

- AI business promoted - SE Innovation Days with BR partner
- Cooperating UAVs - SARC / BARINet COMPETITION
- Distributed AI for Air/Space - Project

Encourage joint Autonomy / AI initiatives



2. SARC-BARINet Aerospace Competition

Collaborating unmanned aerial vehicles



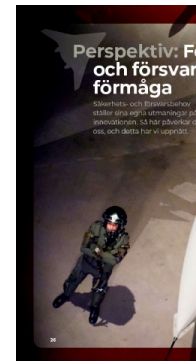
- Systems of systems and collaborating unmanned aerial vehicles is a field that is becoming increasingly important, as a result of the digital transformation. With this competition the multi-disciplinary approach needed for this is encouraged and fostered. Awards for the best projects in this field is therefore proposed with a backing from industry in each country.
- The competition is about presenting the best solution to a problem involving multiple unmanned aircraft. This could be a few aircraft flying in formation to perform a task or a swarm of smaller aircraft. The concepts could also involve dissimilar aircraft.
- The first round will be awarded at the end of June 2021. The presentations will be made on-line.

Categories:

- Prices will be awarded for best project in two classes:
 - Open class involves an open-ended innovative task:
 - PhD (master and undergraduate students are allowed to participate), young researchers and start-up companies
 - Student class is given a task to solve.
 - Restricted up to master level
- Presentation could be through simulation and/or a physical demonstration.
- Participants will be invited to special lectures during the course of the competition on a regular basis. The objective is to form a community among the participants.

Internationell samverkan med Storbritannien

- Pilotprojekt
- EUREKA programform
- SE UK utlysning 1
 - Fem projekt under genomförande
- SE UK utlysning 2
 - Sex + ett projekt i inledningsfasen



ACCELERATING AMBITION Technology Strategy 2019



Internationell samverkan med Storbritannien

- SE UK utlysning 2
 - **FibreSense** is led by Rolls-Royce with Saab. The project will develop on-engine sensing capability using novel fibre-optic technologies.
 - **COMPASS** will develop a new lightweight, energy efficient and cost-efficient solution for communication sensors and is a collaboration between Microchip and the Compound Semiconductor Catapult in the UK and Saab in Sweden.
 - **DEMAND-REPAIR** will be led by GKN Sweden and will involve Sweden's University West in Trollhättan and Phoenix scientific and TWI in the UK. The project will explore novel advanced manufacturing technologies

Internationell samverkan med Storbritannien

- **SIMLIGHT**, led by the ESI Group in Sweden and including Saab and the International technegroup in the UK will study the computational electromagnetic (CEM) simulation of the effects of lightning strikes.
- **Open Vista** is led by Saab in Sweden with GE Cheltenham as collaborators. The project will evaluate the integration of Saab's 3-D Terrain database and 3-D Synthetic Vision System.
- **AMASING IMC**, led by Renishaw in the UK and with GKN Sweden as partners will help develop the technology required to build large structures in a laser powder bed fusion machine.



Ambassador Torbjörn Sohlström
11 Montagu Place
Marylebone
London W1H 2AL

Ambassador Judith Gough CMG
Skarpölgatan 6
115 27 Stockholm

14th October 2020

RE: Note of appreciation – your support of the UK-Sweden aerospace R&D funding call 2020

Dear Ambassadors Sohlström and Gough,

This is a short note on behalf of Innovair in Sweden and the Aerospace Technology Institute in the UK to pass on our thanks to you for the support you and your respective teams gave to the recent bilateral funding competition. As you know, the unexpected covid crisis meant that our face to face events could not go ahead but you and colleagues were both very generous with your time, helping us to co-organise and promote the event through digital means and to great success. We are pleased to inform you that six projects were selected through the funding competition and in addition we are investigating the award of further funding for more projects. The successful projects, spanning propulsion, aerostructures and advanced systems, will significantly advance the development of new aircraft that are more efficient, quieter, and better for the environment and we have attached a list of those projects below.

Our respective communications teams will be working together to publicise the competition once the contracts are signed but in the meantime we wanted to sincerely thank you for your support.

In London, our warmest thanks go to yourself, Per Jenvald, Marika Amartei, and Anna Garmefelt and in Stockholm we thank you Ambassador Gough along with Steve Angus, Sabine Blomberg, Dario Lulianella, Isabel Save and Josh Ponce.

The support of both Embassies has been instrumental and we look forward to working together to support the development of future UK-Sweden aerospace-related funding competitions.

With very best regards,

Dr. Anders Blom,
Director Innovair – Strategic Innovation Programme for Aeronautics
anders.blom@innovair.org

Gary Elliott,
Chief Executive Officer, Aerospace Technology Institute
gary.elliott@ati.org.uk

Utmaningar

- LuFo 6 svenskt deltagande
- Breddning mot BR
- Europeisk vätgassatsning
- Regeringsbeslut om NFFP 8/ Internationalisering 2022 och framåt