## Swedish Aeronautical Research Center (SARC)

Dan Henningson, KTH Petter Krus, LiU, Tomas Grönstedt, Chalmers

SARC Swedish Aeronautical Research Center



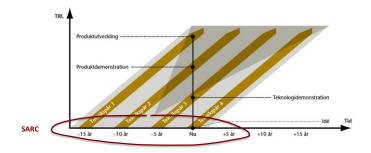
SARC is a national aeronautical research center hosted by LiU and funded by INNOVAIR, one of the first VINNOVA strategic innovation programs

SARC Swedish Aeronautical Research Center



### Background

- Increased international competition makes it important to ensure Sweden's future competitiveness.
- It is crucial that we have a complete innovation system, from basic research, through demonstrators to products on the market.
- Collaboration between basic research (VR) and research on higher TRL levels (Vinnova) needs to be strengthened.
- Within basic aeronautical research, there is an increased need for research at low TRL levels at universities.
- As a leading strategy player INNOVAIR can facilitate increased collaboration between basic research and research at higher TRL levels



# How can an aeronautical center at universities address this?

- A center can act collectively towards funding agencies and ministries to increase funding for basic aeronautical research and coordinate such funding
- A center of universities can bring together researchers focusing on different TRL levels
- University research has had a minor role during the startup of INNOVAIR and but is now becoming more prominent

# What activities should such a center have?

- Activities for funding and focus point for basic aeronautics research
  - Discussions with VR, VINNOVA/INNOVAIR, Ministries, etc
  - National and international focus point where the main Swedish Aeronautics Universities can identify common issues
- Activities forstering synnergies
  - Annual conferences and workshops
  - Graduate school in basic aeronautics
  - Fostering international collaboration
  - Funding of research cooperation measures
  - Funding of basic research

#### SARC strengthens the research network

- All researchers funded by NFFP are naturally associated with the center
- SARC identifies additional researchers whose activities contribute to aeronautics
- Coordination of research and financing of TRL-raising activities
- Annual conferences, workshops and website puts the center on the map
- The position of aeronautics is strengthened at universities, as well as the possibility of additional funding for low TRL research
- Possible to extend to broader aeronautics activities and aerospace

#### SARC creates new collaborative arenas

- Centre gives Swedish universities an arena to strengthen internationalization
  - Initial focus on UK & Brazil
  - Both countries have strong academic focus on aeronautics
- The national Graduate school will prioritize activities that make international collaboration possible
  - International competitions (e.g. SAE BRASIL AeroDesign project)
  - Double degree programs
- Investigate possibilities for collaboration between master programs by e.g. course sharing:
  - Continued education & elective courses & 60 credit masters
  - Industry collaborative programmes

#### Vinnova decision of 12 milj SEK



Diarienummer 2018-01-24 2018-00063 1 (5)

#### BESLUT OM BIDBAG

Diarienummer:	2018-00063
Projekttitel:	Flygtekniskt Forskningscentra
Koordinator:	Linköpings universitet Institutionen för ekonomisk och industriell utveckling Hus A, Campus Valla 58183 LINKÖPING
Organisationsnummer:	202100-3096
Firmatecknare/prefekt:	Per-Olof Brehmer
Projektledare:	Petter Krus Linköpings universitet Institutionen för ekonomisk och industriell utveckling
Vinnovas handläggare:	Ebba Lindegren
Vinnovas administratör:	Lena Dalsmyr
Startdatum-Slutdatum:	2018-02-01 - 2021-12-31

#### Er ansökan om bidrag har beviljats

Tack för er ansökan om bidrag inom utlysningen "Enskilda projekt - SIP Innovair 2018". Vi har beslutat att bevilja er ansökan.

#### Center structure and initial activities

- The Swedish Aeronautical Research Center (SARC) hosted by LiU, with • leadership mainly from the largest aeronautical research universites (KTH, Chalmers, LIU), Innovair and industry
  - Anders Blom, Innovair, Chairman of the Board
  - Peter Värbrand, vicerektor LiU, Board
  - Angela Hillemyr, Head of Department, Chalmers, Board
  - Tomas Ireman, Saab, Board
  - Henrik Runemalm, GKN, Board
  - Mats-Olof Ohlsson, FMV, Board
  - Dan Henningson, KTH/LiU Director
  - Tomas Grönstedt, Chalmers, co-Director
  - Petter Krus, LiU co-Director
- ٠ In 2018 the center starts and the first years are planned
  - LiU established the National Center and appointed the Board and Directors in May
  - Kick-off meeting 18-19/6 at LiU
  - Graduate schools and other acitivites starts in the fall
  - Involve other universities in leadership roles such as advisory board and management group



### http://www.sarc.center



