

Regionfonderna – satsningar på flyg och samarbetsavtal med EU Clean Sky

Innovair årskonferens 2017

Hans Fogelberg, VGR
Peter Larsson, RÖ

Regionalt intresse

Resandet ökar
Antalet flygplan ökar
Produktion ökar



Ny teknik utvecklas
Ny produktion utv.

**ENVIRONMENTAL GOALS
FLIGHTPATH 2050**

- 75 % red. in CO₂ emissions
- 90 % red. NO_x emissions
- 65 % red. in noise

www.nriaflyg.se/2013/acare

Expanderande industri
Hur facilitera i SE, RÖ,
VG?



Region Västra Götaland and Region Östergötland

- Aerospace industry
- Manufacturing industry
- R&D Cluster

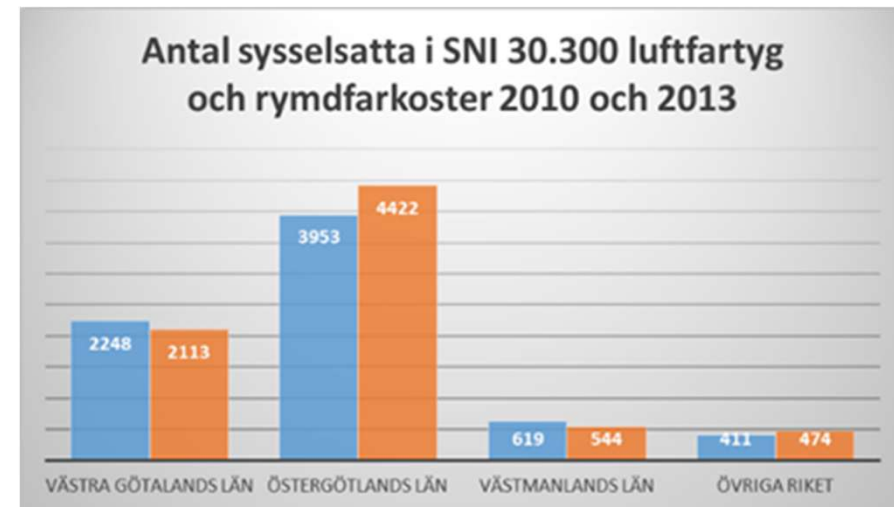


Flyg och rymd

Teknikdrivande sektor
Hög utbildningsnivå
Expanderande sektor



- 3 ggr fler om indirekt sysselsatta räknas
- Väst + Öst = 87% av sektorn i Sverige

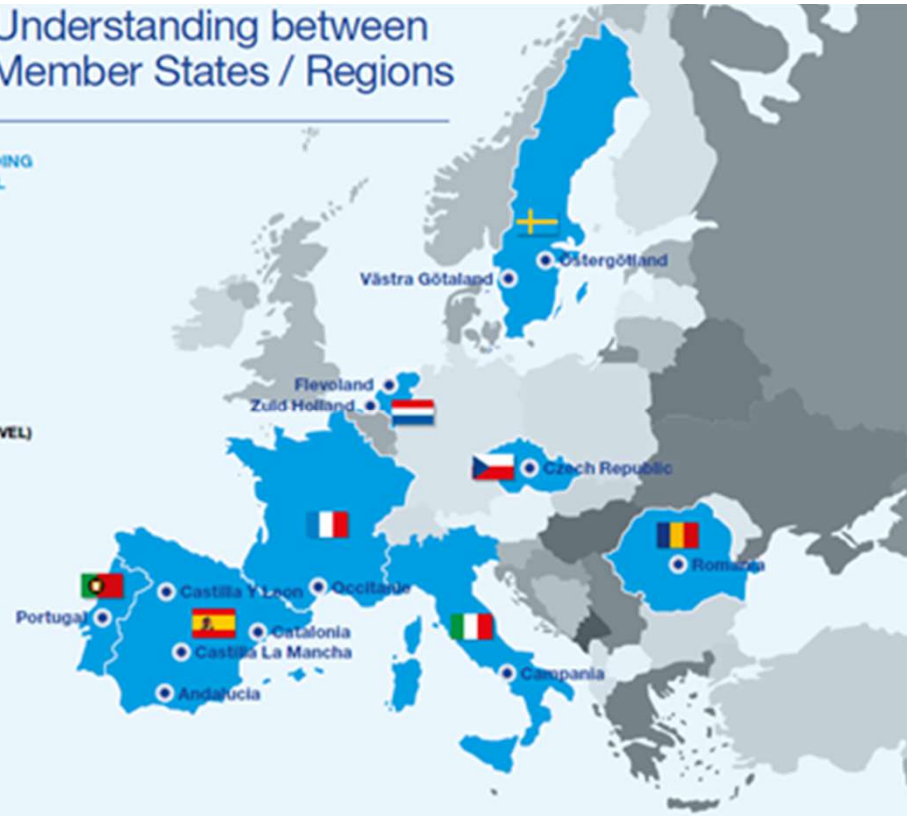


Memoranda of Understanding between Clean Sky and Member States / Regions

13 MEMORANDA OF UNDERSTANDING AT NATIONAL OR REGIONAL LEVEL

- OCCITANIE (FR)
- CATALONIA (ES)
- CASTILLA LA MANCHA (ES)
- VÄSTRA GÖTALAND (SE)
- ÖSTERGÖTLAND (SE)
- ROMANIA (NATIONAL LEVEL)
- ANDALUCÍA (ES)
- CAMPANIA (IT)
- CZECH REPUBLIC (NATIONAL LEVEL)
- ZUID-HOLLANDE (NL)
- FLEVOLAND (NL)
- PORTUGAL (NATIONAL LEVEL)
- CASTILLA Y LEON (ES)

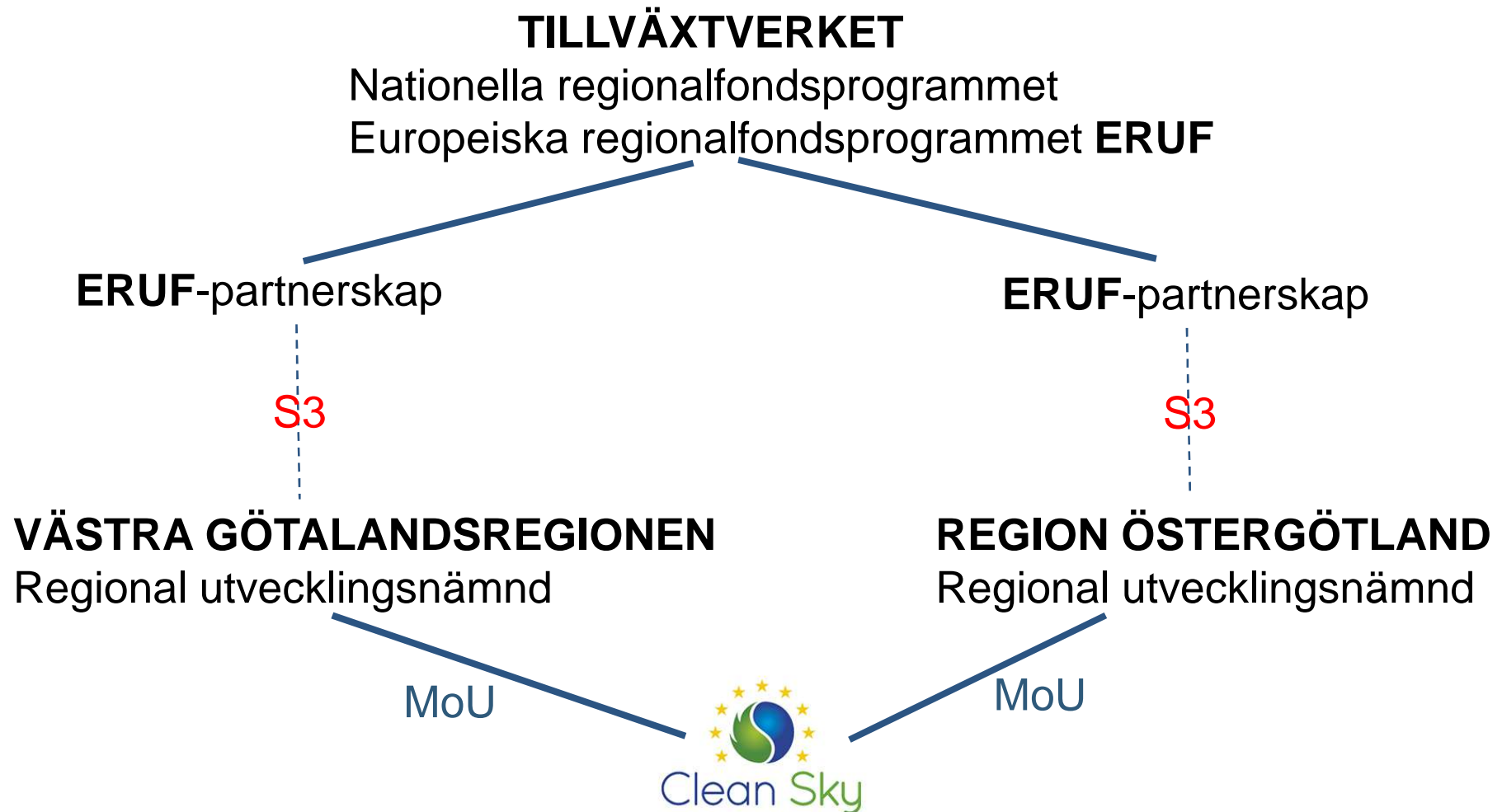
MoU in Place
Countries/Regions



Regionalfonder
(ERUF)
+
Clean Sky 2

- identification of common priorities
- identify potential synergies between (EU) funding instruments
- establish procedures and arrangements between instruments
- monitoring and follow-up system
- complementary activities
- information policy

Regionfonderna och CS2 MoU





Activities and achievements under the MoU

- Establish the **Innovative Materials Arena** in a new innovation park called **Aviation Park**, ESIF funds
- Support "**SME Automation Lab**" - an open environment with dedicated lab resources to enable technology transfer of novel composite manufacturing technologies to SMEs
- Cooperation around **infrastructure** and virtual project room/mobility/Labs that collect competence in **aerospace technology and advanced material**, ESIF funds and local funds for investment in the infrastructure.
- Initiate and start **technical pilots** connected to CS calls for SAAB and GKN
- **Linköping University**, strong research connected to Clean Sky, WASP, nanotechnology, 2 active projects with CleanSky



Aktiviteter och resultat inom MoU



Clean Sky working together with the Member States and Regions Synergies with European Structural and Investment Funds (ESIF)

www.cleansky.eu/structural-funds-and-regions

AM

Additive Manufacturing Lab, in the area of 3D printing, approved under the Swedish Agency for Economic and Regional Growth

SWEDISH PILOT PROJECT (I)

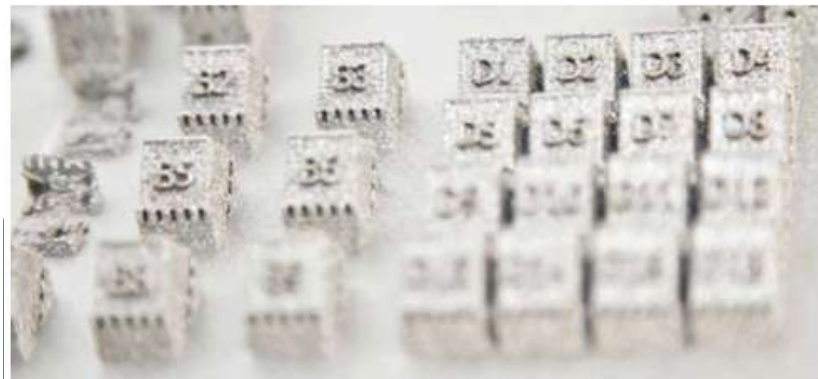
This project approved under the national call issued by the Swedish Agency for Economic and Regional Growth and supported as a result of the MoU objectives between Clean Sky and the Region Västra Götaland

Additive Manufacturing Lab: University West was granted regional funding to set up a lab for additive manufacturing at the manufacturing technology centre innovatum in Trollhättan, Sweden (Region Västra Götaland).

Project objective: The 3D printing in metal that will contribute to reducing aviation emissions, strengthen the Swedish aviation research and the West Swedish industry. This equipment will be used in the development of GKN's (Clean Sky member) lightweight structural engine parts for the engine demonstrators in Clean Sky 2.

• Budget: 1.7 M€ total public funding + 50% from industry in-kind contribution.

Clean Sky synergies scenario 1&2: **Capacity building and parallel funding within a thematic approach.**



Klusterprojekt

SVIFFT approved by the Swedish Agency for Economic and Regional Growth

SWEDISH PILOT PROJECT (II)

Evolving Sweden's Future Aerospace Industry through collaboration (SVIFFT): Aerospace Cluster Sweden was granted regional funding with the aim to establish a national aerospace cluster through a joint effort between the Eastern and Western Regions.

Project objective: to establish a national collaboration platform in order to form a strong supply chain for Aerospace companies. The project will also expand one of the production arenas for composites by establishing a SME Automation Lab, thus supporting and increasing the number of Swedish companies participating in national and European large demonstration programmes such as Clean Sky.

SVIFFT receives ESIF funding through the European Regional Development Fund, approved by the Swedish Agency for Economic and Regional Growth.

Budget: 1.3 M€; 50% through ESIF, 40% in cash by Eastern and Western Regions and 10% in cash by aerospace industry companies.

Clean Sky synergies Scenario 1&2: **Capacity building and parallel funding within a thematic approach**

Participants: Aerospace Cluster Sweden, Swerea SICOMP, Eastern Region, innovatum AB, Swerea IVF, Western Region

Flexibel automation

FIA in the area of automation approved within a specific R&I call that gave priority to projects linked to CS2

SWEDISH PILOT PROJECT (II)

Demonstrator Environment for Flexible and Innovative Automation (FIA): University West was granted regional funding to set up an experimental flexible automation cell at the manufacturing technology centre Innovatum in Trollhättan, Sweden.

Project objective: aims to establish a national resource for innovative and flexible automation and enhance the competitiveness for GKN and SMEs in the Västra Götaland Region. It will be used for the manufacturing of GKN's lightweight structural engine parts for the engine demonstrators in Clean Sky 2 and will be not only a demonstrator engine part but also a high TRL manufacturing system demonstration.

FIA was approved within a specific national R&I call that gave priority under a specific axis to projects linking to CS 2 and that CSJU delivered a synergy assessment.

Budget: 400.000 €

Clean Sky synergies scenario 1&2: **Capacity building and parallel funding within a thematic approach**

Participants: University West, innovatum AB, Swerea IVF, GKN Aerospace



