

RIT

RYMD FÖR INNOVATION OCH TILLVÄXT

2021

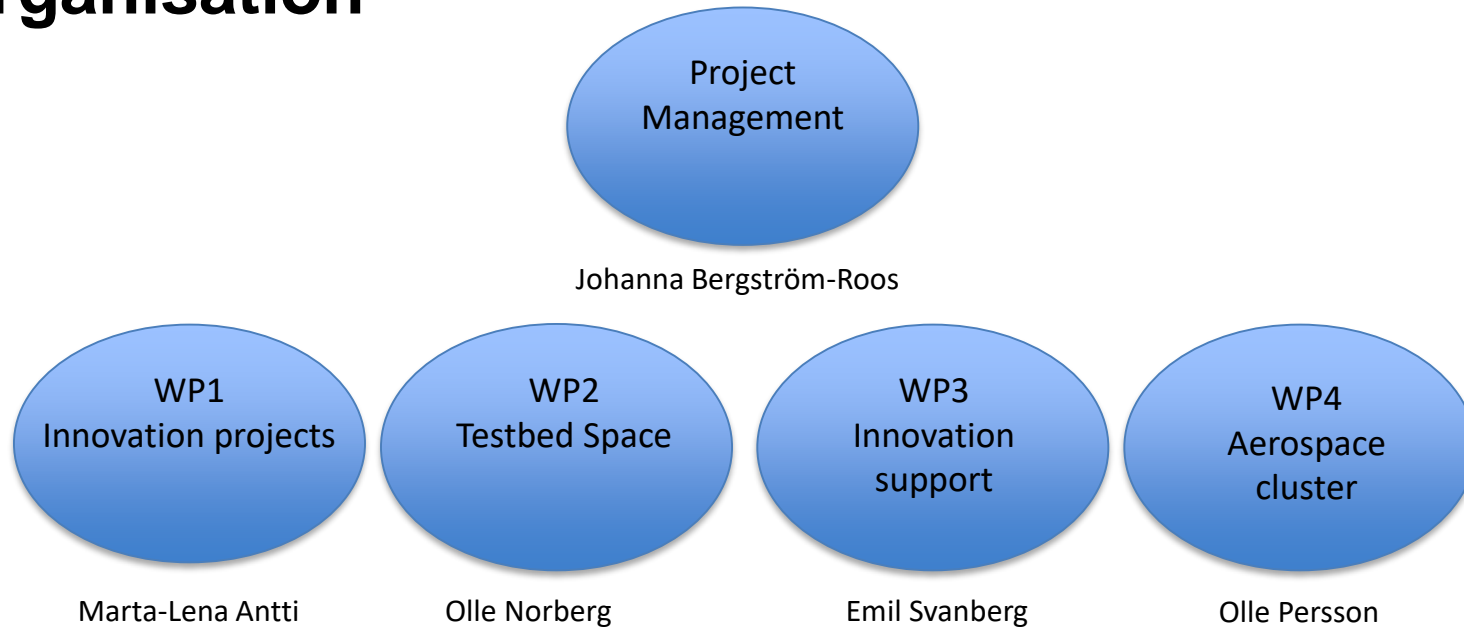
RIT 2021

..... taking the next step for our Space Region

Backgruond

- The ongoing RIT project aims to increase the region's capacity for research and innovation cooperation between academia, industry and actors in the innovation support system
- Now we want to take a step further by building on the knowledge we gained and establish the initiatives taken within RIT.
- From **Initiative** to **Establish!**

Organisation



Work packages

WP1

Innovation projects

- 8 PhD:s
- 4 Post docs
- 8 new PhD:s
- New products and services

WP2

Testbed Space

- A platform for advanced testing
- attractive and competitive service
- SpaceLab (IRF)
- SmallSatExpress (SSC)
- NanoSatLab (LTU)
- Planning- Design- Realization
- New products and services

WP3

Innovation support

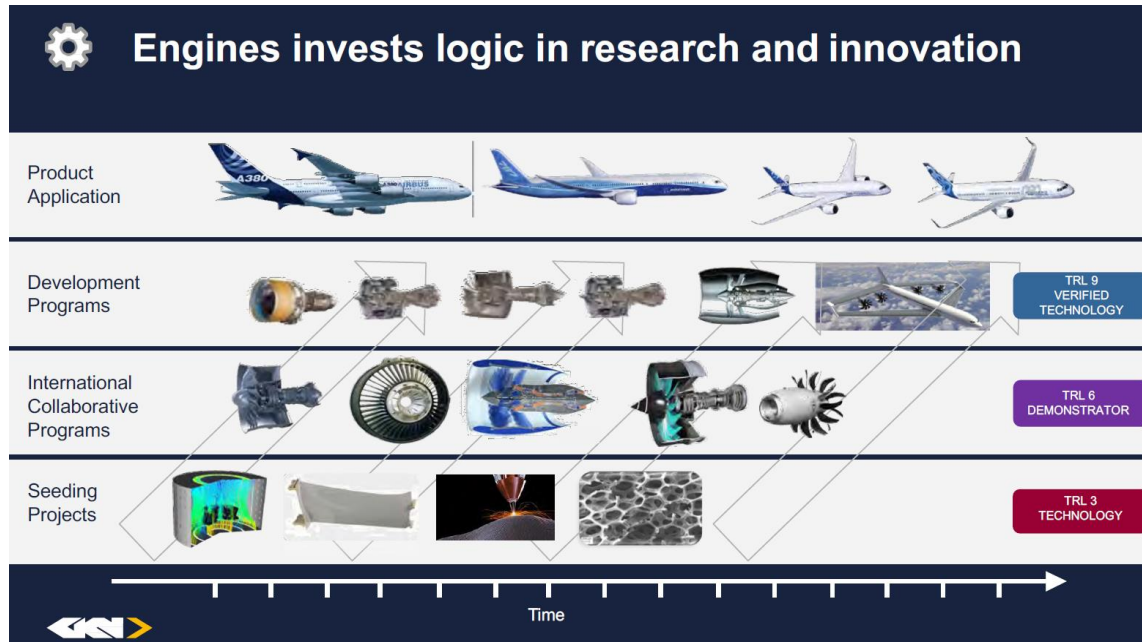
- Idea generation
- Intellectual Asset Inventory
- Innovation Due Dilligence
- Incubation
- Entrepreneurial environment at Space Campus
- Business development for SMEs

WP4

Aerospace cluster

- Meeting points
- Development of the cluster
- Interdisciplinary Networking
- Operational plan

R&D-projects are fundamental for innovation



Close collaboration with the innovation support system is required to realize the benefits

Figur 3 Innovation model at GKN, presented at Space Innovation Forum 6, May 2018

Overall goal / vision / purpose

- Our region is Sweden's leading space region, which offers a productive and attractive innovation environment.
- We build sustainable growth that attracts women, men, investors and companies.

Target groups

Primary

- Existing space companies
- SMEs that can and wants to enter the space industry
- Academy to build excellence in specific areas demanded by the space industry.

Secondary

- Municipalities in Norrbotten, the space business in Sweden and Europe are some examples

World Surveillance and Collaboration

- The space industry has a **strong global character** and RIT 2021 will invite a number of players, both regional, national and international.
- The space industry is in strong growth, both nationally and internationally. It is **a modern space race** with a growing number of private investors.
- **Sweden's space strategy** clearly points out the possibility of **launching small satellites** as one of the most important points to be carried out at Esrange
- The **number of launches of small satellites** is expected to increase, as the costs go down.
- **Several national space companies actively participate in RIT** and want to continue doing so.
- **A number of interesting space projects** are under development - the total value exceeds 1.5 billion kronor: Testbed Space, Spacelab, Smaller Express, Eiscat 3D are some

World Surveillance and Collaboration

- RIT2021 has **an important coordinating role to fill**
- RIT2021 becomes **a facilitator for collaboration – the cohesive force**
- Space Innovation Forum is **needed as meeting point**
- **Strong links** to the LTU Center of Excellence, Graduate School of Space Technology and ESA BIC Sweden
- **Opportunities** with Big Data and Data Centers – **Global Watch**
- **A strong and unique value chain:**
Design and build platforms and instruments, launch space vehicles, operations, measure and analyze data, data acquisition on Earth, store and process data, develop applications
- **Links to other regional activities/projects:**
NAIR - Enterprise-Academic Cooperation in the Region, **EEN** - Europe Enterprise Network, **DIR** - Data Centers Innovation Region, **Composite Cluster** in Piteå are some

Expected results

- **The Space Region is stronger**
- **From an initiated to a well established and sustainable innovation system** that creates growth
- **Around twenty regional companies** are involved in the space industry
- **Resources are secured for R&D-projects**
- **8 graduated innovation PHD:s** have delivered innovative solutions to the space industry
- **4 cases from the RIT project** have been refined and are ready to be part of the space incubator
- **8 new innovation projects** built on the space industry needs
- **Space Innovation Forum** is an established and well-attended space event
- **Collaborators, suppliers and customers** have found each other
- **Knowledge and technology transfer** leads to new ideas and benefit in society
- **Aerospace Cluster Sweden and Big Science Sweden** are well established in the region

Expected long-term effects

- **The space region is strong**
- **The regional network around the space community is strong** and attracts stakeholders nationally and internationally
- We have a well-established common **regional development strategy for space**
- **Esrangle is Europe's launch site** for polar satellites

- **Collaboration** leads to competence, competitiveness and attractiveness
- **Attractiveness** which leads to strong customers, partners, talents and investors

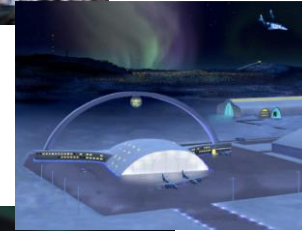
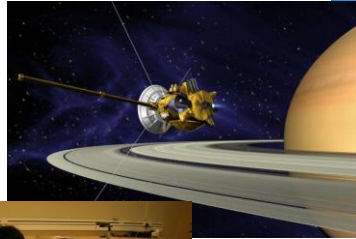
- **The Centre of Excellence involves** both large and small companies and contributes to regional growth

Expected long-term effects

- **Strong ability in research and innovation cooperation** between academia and industry
 - The **space industry benefits** greatly from young creative students and researchers
 - **Space students involved in business activities** are considered to be one of the most important target groups for recruitment.
 - **Researchers participates in R&D projects** that are too time consuming and costly for industry to implement on their own.
 - **Academic and industry** meet regularly to exchange information and inspiration
 - **The space industry provides development assignments** that enrich both research and education
- **The regional innovation support system** for the space community is well integrated with the national and international system
- **Space Innovation Forum** is an established and well-attended **internation space event**
- **Several regional SMEs** deliver to the space industry
- The space industry has **significant access to competent regional suppliers**

When people meet things happen!





Thanks!

