

# RIT2021

SPACE

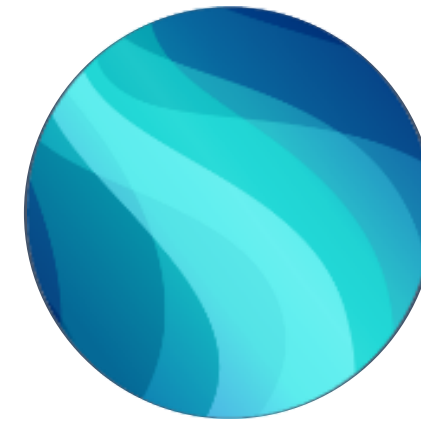
INNOVATION

GROWTH

COOPERATION

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# RIT2021

WE ARE WORKING TO BECOME  
A STRATEGIC ASSET FOR THE GLOBAL SPACE ARENA  
BY BUILDING UP AN OUTSTANDING ECOSYSTEM  
THAT ATTRACTS PEOPLE, NEW ESTABLISHMENTS AND INVESTORS

# TARGET GROUP

FOR THE RIT 2021 PROJECT

- ✓ The regional business in existing space companies
- ✓ SMEs in other industries that do not deliver to the space industry today but who could and would like to do so
- ✓ Academy in order to build excellence in specific areas that are in demand by the space industry

# PROJECT BACKGROUND

THE GOAL OF **RIT** WAS TO STRENGTHEN REGIONAL COLLABORATION BETWEEN  
INDUSTRY, ACADEMIA & ACTORS WITHIN THE INNOVATION SUPPORT SYSTEM

## BACKGROUND

## FROM INITIATING

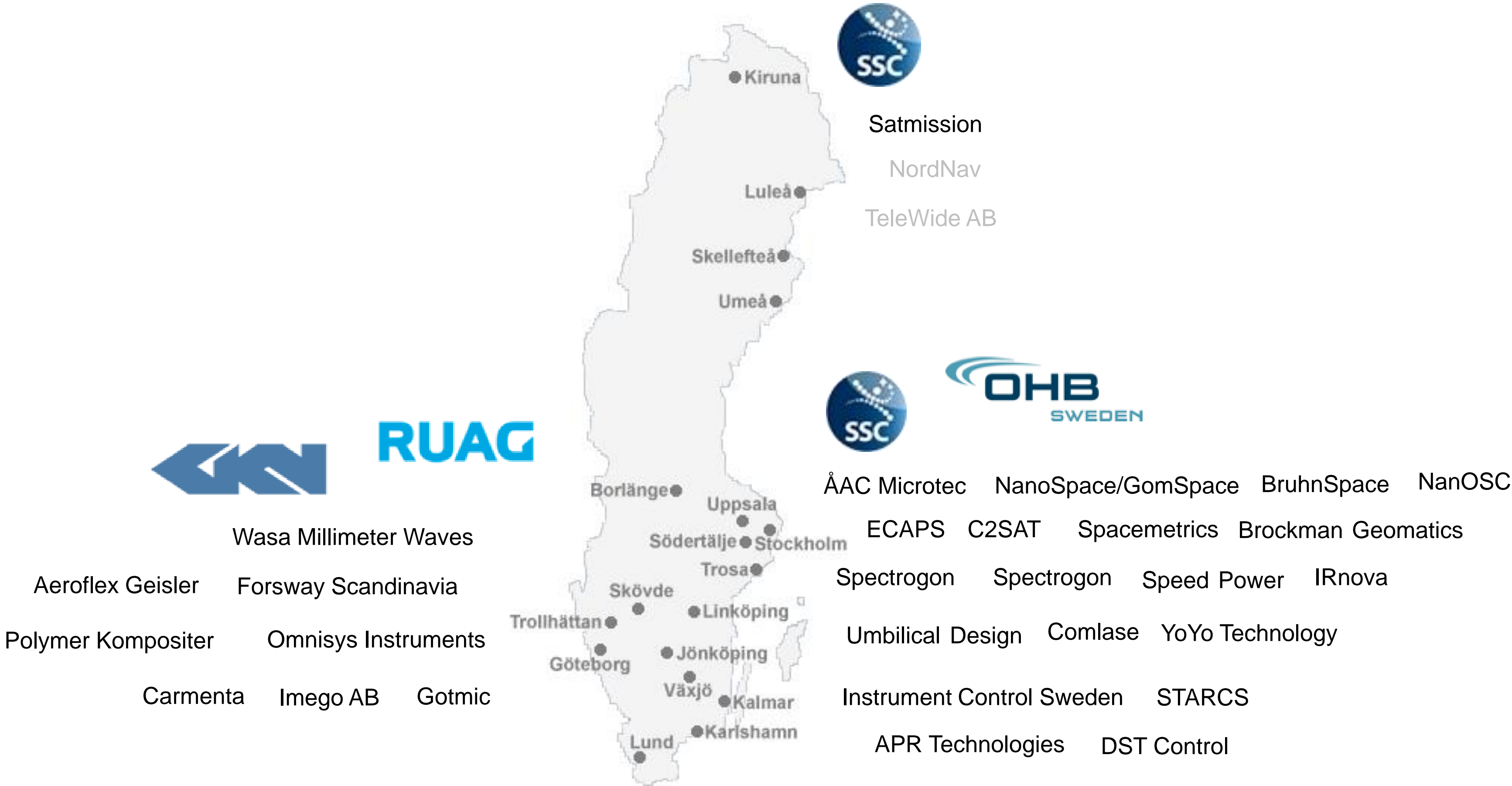
- R&D collaboration
- PhDs with the Space Industry
- Centre of Excellence for Space
- Space Innovation Forum
- New Innovation Support System for Space.

## TO ESTABLISHING

All our achievements within the RIT project now need to get  
established and further developed

# SPACE SPIN-OFFs IN THE NORTH

AROUND 2015 BEFORE THE RIT PROJECT



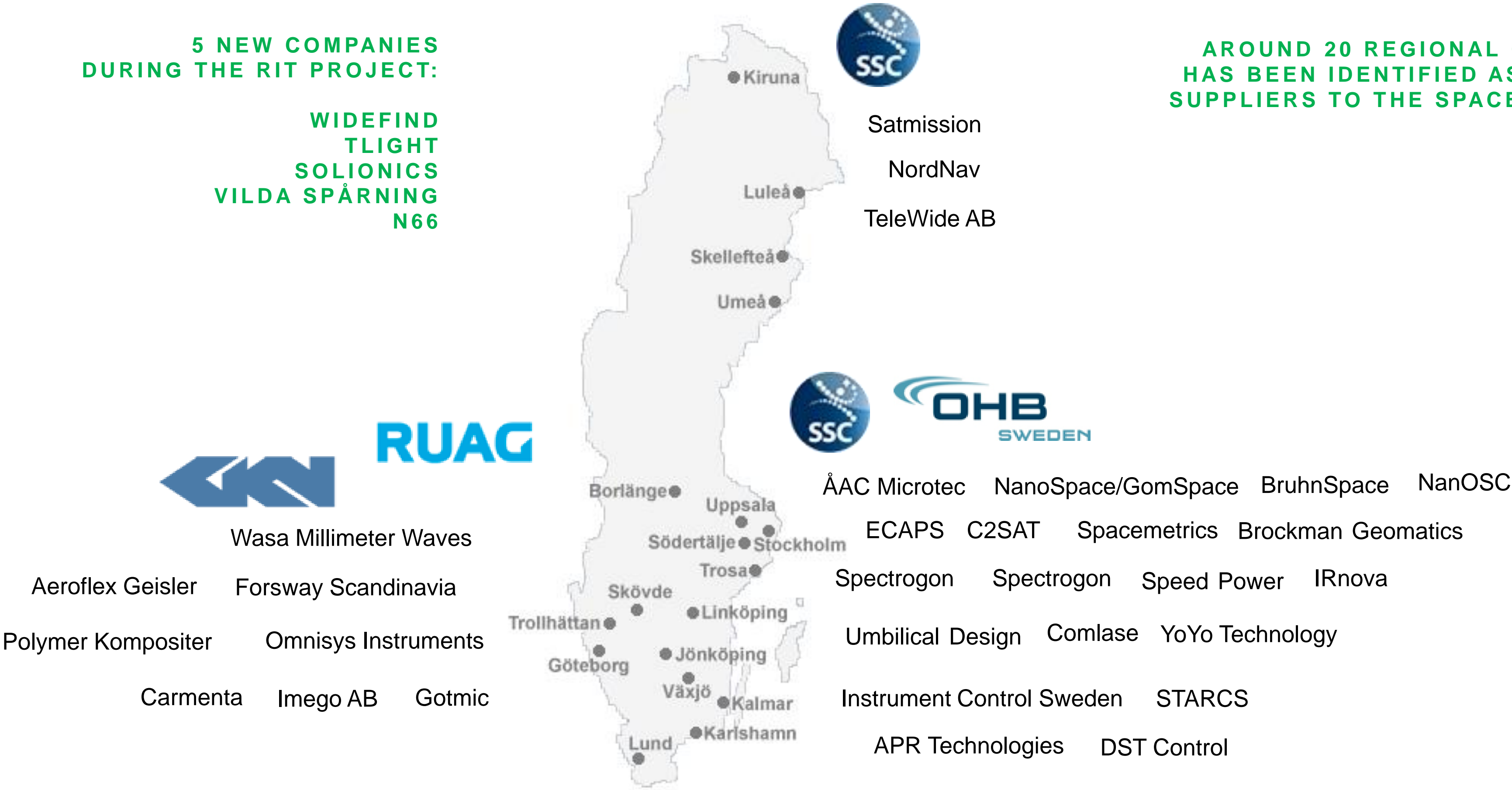
# SPACE SPIN-OFFs IN THE NORTH

2018 AFTRE THE RIT PROJECT

5 NEW COMPANIES  
DURING THE RIT PROJECT:

WIDEFIND  
TLIGHT  
SOLIONICS  
VILDA SPÅRNING  
N66

AROUND 20 REGIONAL COMPANIES  
HAS BEEN IDENTIFIED AS POSSIBLE  
SUPPLIERS TO THE SPACE BUSINESS



# COLLABORATION IN INNOVATION

AROUND 2015 BEFORE THE RIT PROJECT





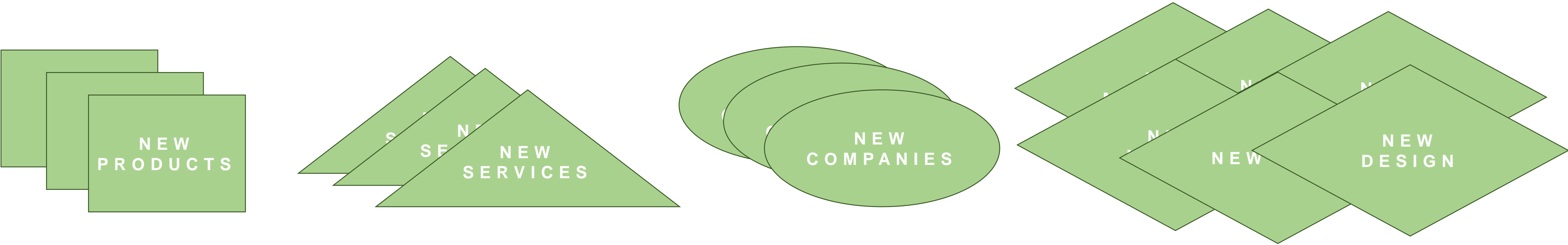
# COLLABORATION IN INNOVATION

2018 AFTRE THE RIT PROJECT



ACADEMIA-INDUSTRY-INNOVATION SUPPORT

INDUSTRY-INNOVATION SUPPORT





# RIT BY NUMBERS

GOALS WE PLANNED FOR AND EXTRA BONUS THAT CAME ALONG.

- ✓ A Centre of Excellence
- ✓ 7 new Master Thesis
- ✓ 7 Innovation PhDs
- ✓ 8 “Space Innovation Forum”
- ✓ 4 initiated collaborations with SMEs
- ✓ Around 15 regional SMEs interested in the space business
- ✓ LTU has become a major player and is invited to important arenas such as Paris Airshow, ESA-PAC, The Space Group of the Government, Space Forum, Almedalen etc.
- ✓ 6+6 research subjects at LTU interested in Space and connected to SSC, Omnisys Instruments, GKN, RUAG, OHB Sweden
- ✓ 3 new cross fertilizations (onboard space systems & Product Innovation, Material Science & Product Innovations, Mashin Elements & Atmospheric Science)
- ✓ 1 new match making event (space students & space Industry)
- ✓ 4 new regional space start-ups
- ✓ 1 new regional start-up within satellite communication
- ✓ 2 new national space start-ups testing in Testbed Kiruna
- ✓ 1 new node for Aerospace Cluster Sweden
- ✓ 1 new node for Big Science Sweden



# 4 WORK PACKAGES

## R&D PROJECTS

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Current PhD:s

New PhD:s

Postdocs

## TESTBED SPACE

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SpaceLab

New Business Models

Commercialization

## INNOVATION SUPPORT

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New Methods

New Processes

New Business Cases

## CLUSTER BUILDING

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Aerospace Business

Collaboration

Certification



# EXPECTED RESULTS

FOR THE RIT 2021 PROJECT

- ✓ The region's position as Sweden's space region has been strengthened
- ✓ The space industry in the region has gone from an initiated to a well-established and sustainable ecosystem that creates growth
- ✓ 7 PhDs have delivered innovative solutions to the space industry
- ✓ 7 PhDs has graduated and highly sought after by the space community
- ✓ 4 cases from the RIT project have been refined and are mature to be included in the space incubator
- ✓ 7 new R&D projects that meet the needs of the space industry have begun
- ✓ Space Innovation Forum is an established and well-attended meeting place
- ✓ New partners, suppliers and customers have found each other
- ✓ Knowledge and technology transfer leads to new business ideas and social benefits
- ✓ Twenty regional SMEs have taken the step into the space business
- ✓ Commitment, time and money are available for the continued operation of both northern nodes for Aerospace Cluster Sweden and Big Science Sweden



# EXPECTED RESULTS IN THE LONG RUN

LONG AFTER THE RIT 2021 PROJECT

- ✓ The space industry is a strong regional industry
- ✓ We have a regional development strategy for Space
- ✓ Esrange Space Centre is Europe's launch site on European ground for polar satellites
- ✓ SpaceLab is offering attractive state-of-the art testing facilities on the global space arena
- ✓ EISCAT 3D is contributing to world leading science and space applications for commercialization
- ✓ LTU is a world leading space university with a well respected Centre of Excellence for Space
- ✓ IRF has further consolidated its role as world leading in space physics
- ✓ Aerospace Cluster Sweden is well established and connected to the global space business

IN ADDITION

- ✓ We have a strong space eco system which contributes to regional growth
  - A strong ability in R&D collaboration creates good effects for the space community/society
  - More students are competing to study at Space Campus
  - Space students are considered to be one of the most important target groups for recruitment
  - SMEs are well integrated as suppliers to the space business
  - Etc.....





# THANK YOU

SPACE

INNOVATION

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