Conclusions

Olle Norberg
Luleå University of Technology

The main goal of RIT2021:

Build a strong innovation system for growth within the space domain, based on co-operation, research, test resources, and cluster development.

Make sure it attracts people, investors, and business.

Space Cluster Region Norrbotten

- The impact of aerospace in our region today and tomorrow

RIT2021

Alexander Bergström
Johanna Vesterberg

LTU Business

Capitalizing on opportunities

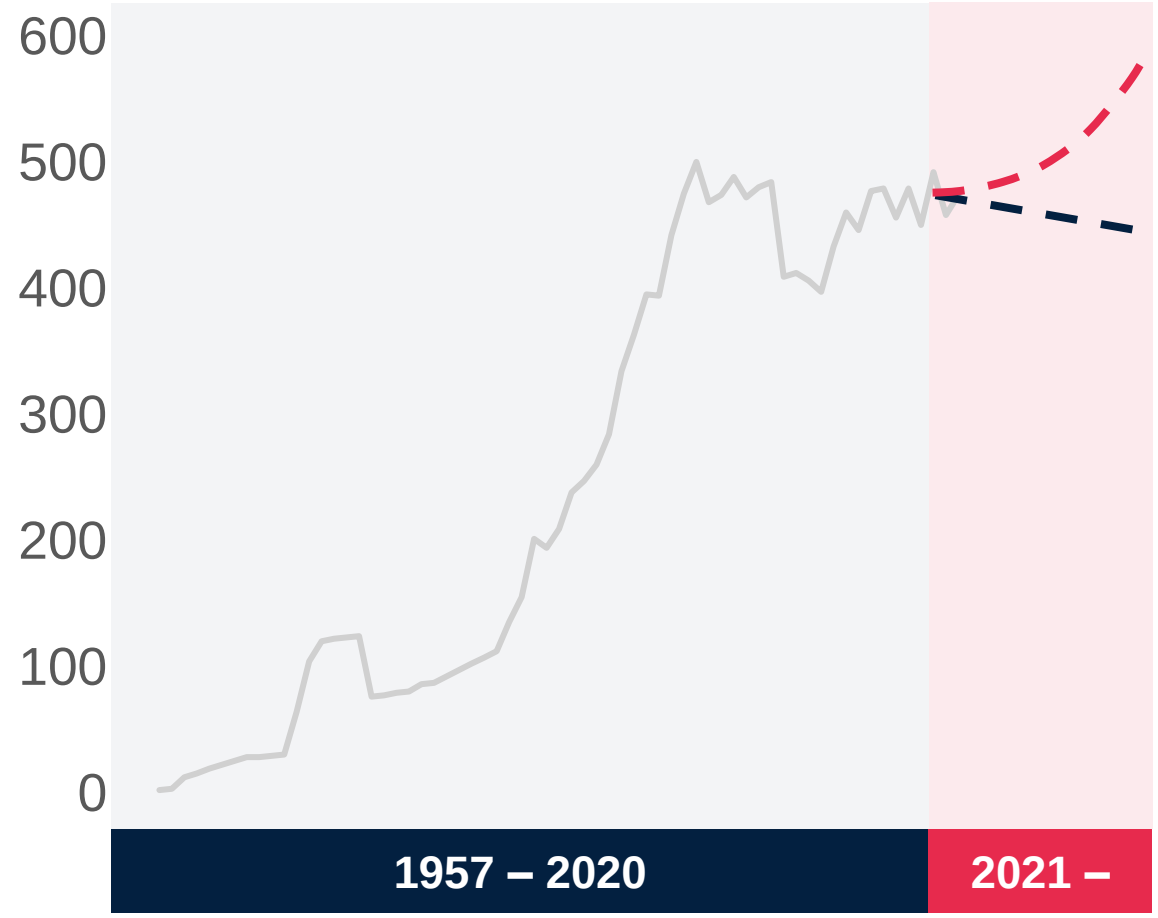
INDUSTRY	ACADEMIA
SSC builds launch site and will become a launch service provider	IRF – planning phase for New Spacelab
Establishment of 2 new rocket manufacturers	LTU - *Selected European university in space*
Business support - *ESA BIC and SME network*	Developing EISCAT_3D
More investments in global situational awareness – *Global watch center*	Plans to establish more research groups at LTU

We are performing relatively well in comparison

	Success factors	How we perform	Most critical to improve
National level	Laws, regulations and declarations		
	Ambitious targets and continuous evaluation		Measurable targets on government level, spread across cluster
	Cluster formation and infrastructure		Create ownership of cluster through resource dedication
	Financial incentives		Implement financial models that incentivizes innovation and new establishments, spinoffs, startups
Cluster level	Strong academic base		
	Ambitious targets and continuous evaluation		Measurable targets on cluster level with clearly divided responsibilities and continuous evaluation
	Tech and business support		Expand tech and business support – Support new players who want to establish
	Synergy utilization		Create a forum where actors can interact, collaborate and find synergies

Future growth is dependent on actions

Full Time Employees



13 NEW STARTUPS

N66 ACTAS Space Sky Alert

REMOS Widefind Arctic Space Technologies

HIPOR Fieldrobotics Porkchop

Centropy PASQ SOL-IONICS

Gemometrics AB

2 NEW MIDCAP

isaraerospace technologies

RFA Rocket Factory

Expecting a strong growth in the coming 10-15 years

50-70 actors
Mainly startups, some midcaps and possibly tier 1 players

800-1000 employees
Mainly gained through in-organic growth

Harwell Space Cluster is the Gateway to the UK Space Sector

105
Space Organisations

1,100
People

Multidisciplinary Innovation

Space

HealthTec

EnergyTec

National Facilities

Funding & Support

esa

CATAPULT Satellite Applications

UKRI Science and Technology Facilities Council

UK SPACE AGENCY

Accessible

What is a Cluster?

"Geographic concentrations of interconnected companies and institutions in a particular field"

Michael E. Porter, University Professor at Harvard

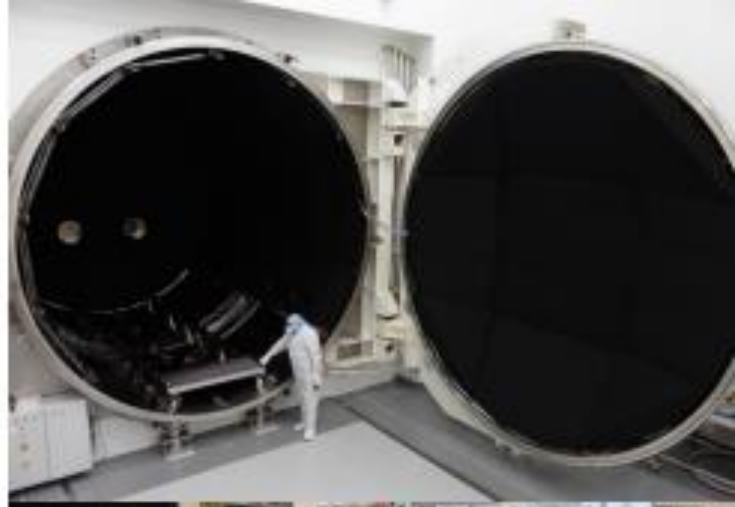
Harwell Space Cluster: Co-location of industry, academia & public sector bodies

UKRI Science and Technology Facilities Council

JBIS Paper: http://purl.org/net/epubs/work/47614523

Cluster Benefits

- Open Access to National Facilities
- Access to Talent
- Knowledge Sharing
- Showcasing
- Support for Start-Ups



UKRI Science and Technology Facilities Council

Access to world class facilities

esa

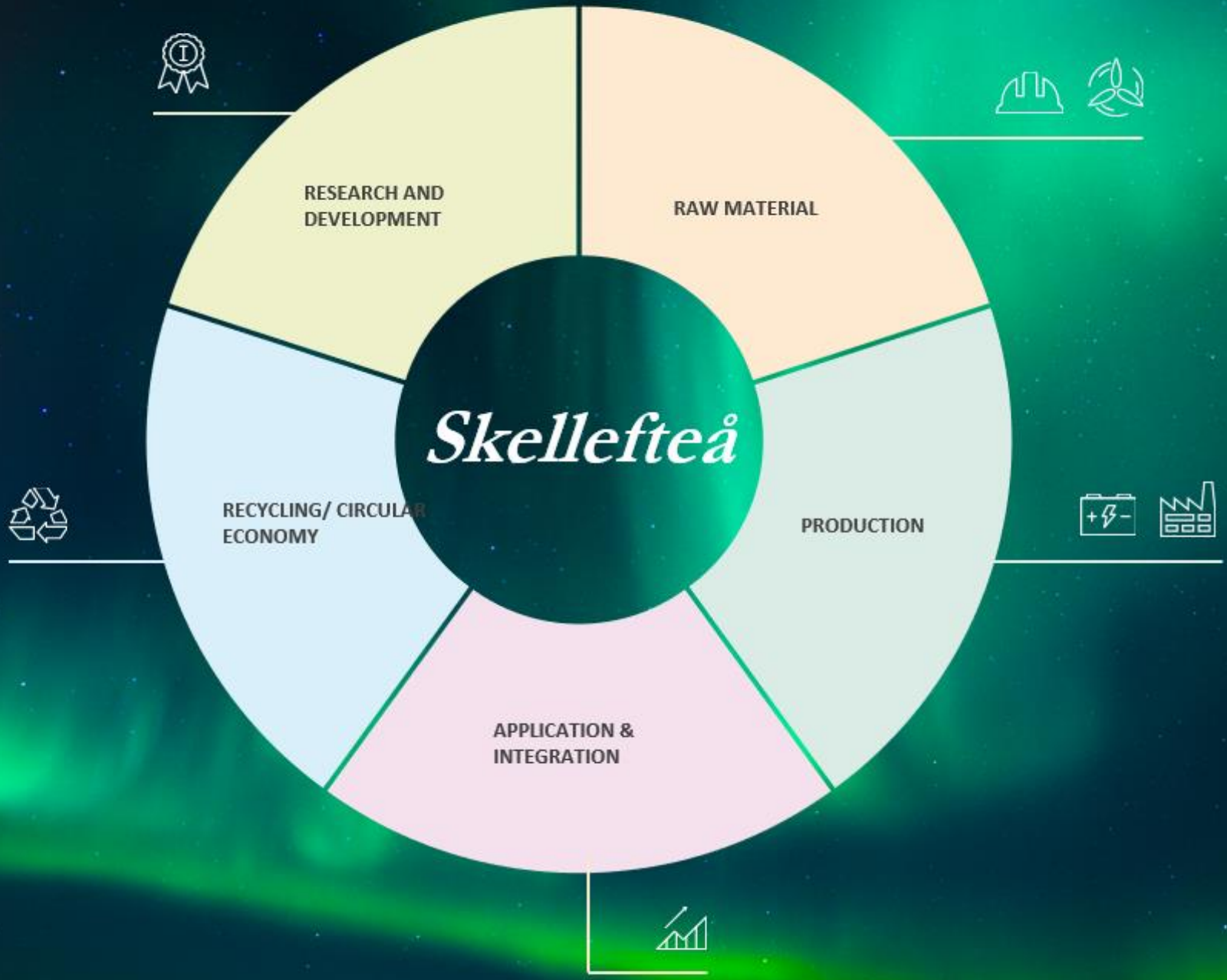
Advanced Manufacturing Lab, Climate Office and Business Incubation Centre

RAL Space

Design, test and validation facilities including clean rooms and thermal vacuum chambers.

CATAPULT Satellite Applications

Near and far field test ranges, satcomms lab, operations centre, Disruptive Innovation for Space Centre (DISC)



SKELLEFTEA
Make room for ideas.

För rymdstartups i Västsverige

- Coachning
- Expertkunskap & access till nätverk, support från extern kommitté
- Upstream / downstream / ESA IP bank
- Support för att söka finansiering (ESA BIC, Copernicus, Astropreneurs, etc.)

tillväxtverket

EUROPEISKA UNIONEN
Europeiska regionala utvecklingsfonden

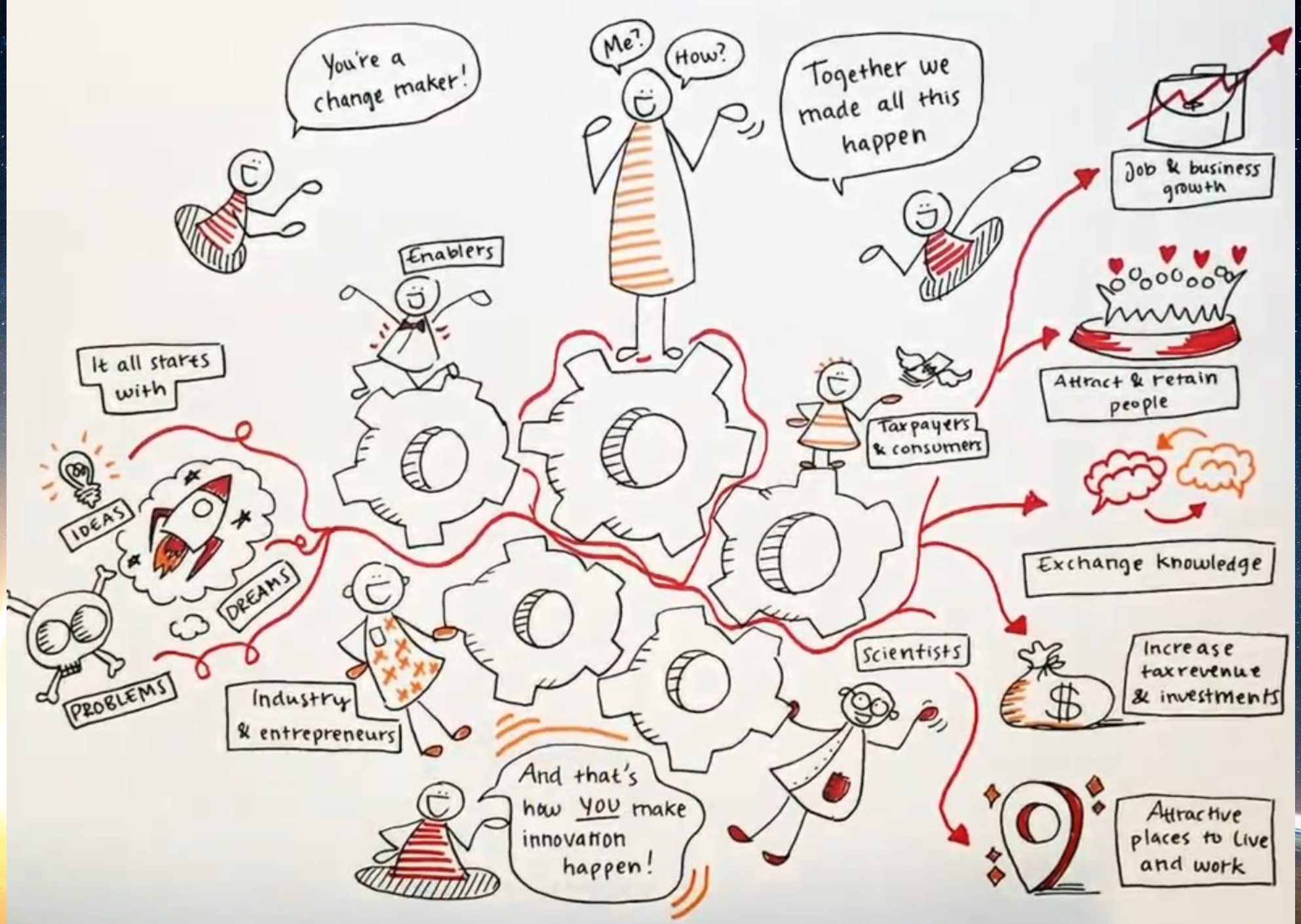
VÄSTRA GÖTALANDSREGIONEN

RIT 2021

- We are competing globally
- Investments is not just in the idea, it’s also about the talents and human resources
- More opportunities of investment is needed
- Secure soft-landing for companies is required
- Attracting and keeping talents in the region is neccessary

This is not a one-man job!

ARCTIC VENTURES


You're a change maker!
Me?
How?
Together we made all this happen
Job & business growth
Enablers
It all starts with
IDEAS
DREAMS
PROBLEMS
Attract & retain people
Taxpayers & consumers
Exchange knowledge
Industry & entrepreneurs
Scientists
Increase tax revenue & investments
And that's how YOU make innovation happen!
Attractive places to live and work

Thank You!

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