Space Capacity Building

Pre-study of the regional capacity to develop EU 's most innovative space region.

Business

REGION





Background Pre-study

- The space sector develops rapidly
- The ERDF-project RIT is about to end
- Ambition to develope space as a regional industry
- The Region has unique assets, Esrange, LTU, SSC, IRF, ICE data lab, ABI/ESA BIC and a co-operative approach

Identify next phase

- To further develop the regional capacity
- Hands-on approach by using a small satellite mission as a vehicle for our analysis
- To develop the obtained structure, work methods and co-operative culture

Identify the future regional focus and how to work together

Space Öfvre Norrland

The Pre-Study

Three main blocks

- 1. Description of the space value chain for a small satellite mission
- 2. Identify the gaps in the value chain
- 3. Analysis of the pre-requisites for an over time and financially sustainable body

Carried out the work by:

- 20 Local, regional, national space organizations
- 4 International clusters
- 3 Workshops

The Value chain

- An exact science?
- Where to put the boundaries?
- What level of details?
- Could a value chain exist entirely on its own?





Gaps – summary

Value chain and supporting functions

- Regional space capacities "are all over the place" but with few resources in each competence area (highly senstitive)
- Not complete test infrastructure (from world leading to just started)
- Edge competence and niched at low TRL but industrialization capacity is immature
- Regional space efforts would gain from further presence and commitments from governmental administrations in the value chain
- No clear view of benefits for commercial establishments

Surrounding functions

- A physical gathering place for space organization is missing
- Individual regional space capacity providers miss out comittment and power to support the region as a whole
- Regional logistics and transportation challenges
- Housing, office space and kindergarten capacities

Supporting functions

Satellite value chain

Surrounding functions

Conclusions

- Regional space efforts risk to be too scattered
- Lack of ownership, co-ordination and momentum of "surrounding functions"
- Best leverage related to assets that physically bound new investments to the region i.e. upstream and operations
- The scope of the result from the pre-study became broad and ERDF is not the answer to everything

Recommendations and next step

Next ERDF project: Tentatively four tech. areas

General recommendations

- An immediate start among regional space organizations (LTU, SSC, IRF, ISAR, RISE, etc...) to fine-tune and elaborate on the four tech areas above
- Appoint a regional space council/board
- Develop a common regional space vision and strategy
- An agile approach by a **quick launch** of a lasting body/platform to:
 - Further strengthen the academia and industrial co-operative work
 - Develop a regional space brand

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Thank you!

572