



# Sweden and Space

New arena and emerging capabilities

NDIS 24 May 2018

Dr. Eva Bernhardsdotter  
Space Programme Manager, Air & Space Systems Department  
Swedish Defence Materiel Administration



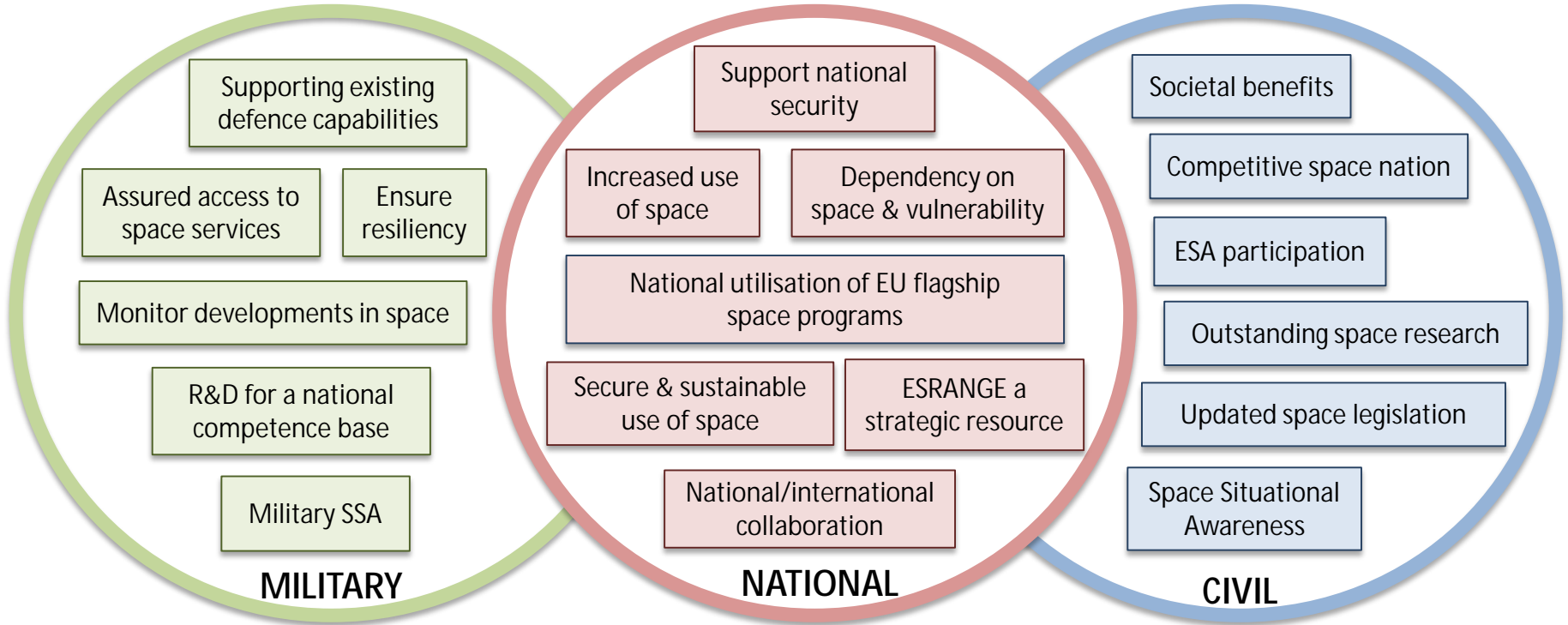
# Sweden & Space Policy

- A **National Strategy for Space**: presented by the Government to the Parliament in May 2018.
- The Swedish National Space Board **Long-term Strategy for 2016-2020**.
- The **Swedish Armed Forces Strategy for Space**: in the formal approval process.

Annual government spending around 1.7 billion SEK on space activities (as of 2015).



# Strategic Themes



# FMV & Space

FMV enables access to and use of space-derived services.

Procurement of equipment and services

International collaboration

Space-related R&D



ISR



PNT



SATCOM



SSA

Credit: EU, ESA, Swedish Armed Forces & FOI



Credit: SSC

# FMV Space Collaboration



Responsive Space Capabilities

Ministry of Defence

Ministry of Education and Research

Ministry of Justice

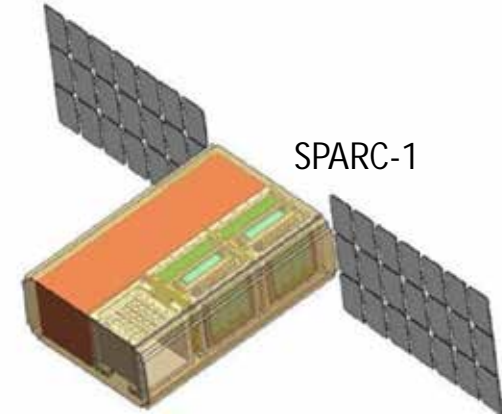


Academia

Space & Defence Industry

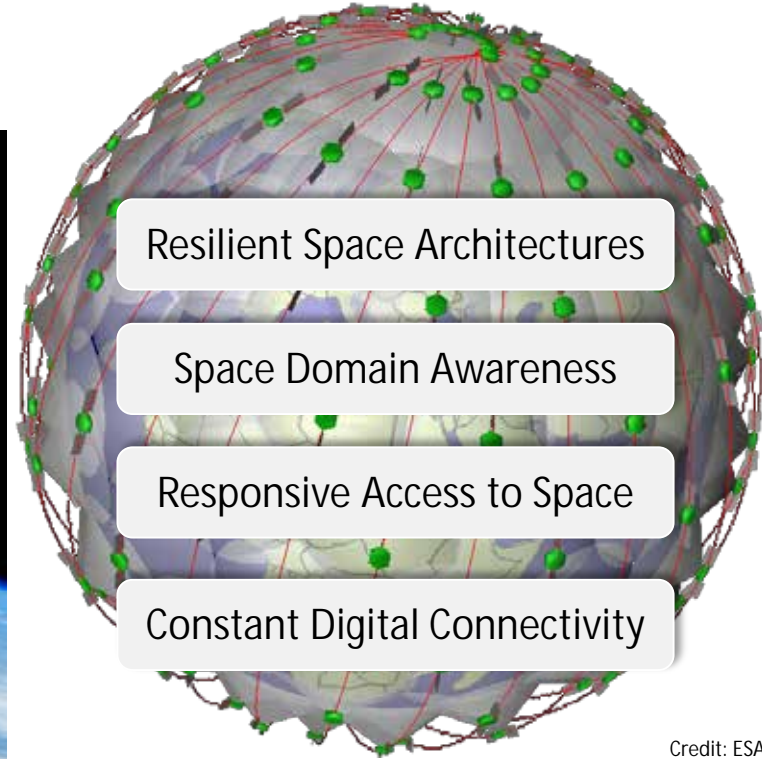
# FMV Space R&D Approach

- § Competence base in space matters
- § Horizon scanning & tech watch military space
- § Nanosatellite demonstrator with SSA payload
- § Green propellants
- § Military SSA capability



# Trends & Emerging Capabilities

Space is Contested, Congested & Competitive



Credit: ESA

# Technology Watch

Pseudo satellites

Adaptive/cognitive  
/intelligent radio

Additive  
manufacturing  
3D/4D-printing

Quantum  
technology

Miniaturization

Triple A: Automation,  
Augmentation & AI

Hypersonic space  
transport vehicles

Optical  
communication

Pulsar  
navigation

*"Recognising that future defence capabilities remain technology-rich."*

John Louth and Trevor Taylor, Occasional Paper "A Defence Industrial Strategy for the UK", RUSI (Royal United Services Institute for Defence and Security Studies), April 2018

Credit: NASA



# Thank you for your attention!

[eva.bernhardsdotter@fmv.se](mailto:eva.bernhardsdotter@fmv.se)

