



Huoltovarmuuskeskus

Space industry as a part of national emergency supply

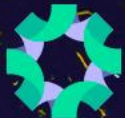
Space business forum, 2.12.2024

Tapio Tourula



Governments decision on goals of security of supply (24.10.2024)

- Two main topics: Space risk management and space business
- Main goals for space business (in the frame of security of supply):
 - Space based vital functions and services are available and secured in all situations to **ensure security of supply, security and defence.**
 - **Finland develops national capabilities** especially in signal processing and ground infrastructure. International cooperation also has a key role in building up space capabilities.
- Finland's preparedness and security will be strengthened by national **space situational awareness.**



Huoltovarmuuskeskus
Försörjningsberedskapscentralen
National Emergency Supply Agency

Vision

Shockproof Finland

Key phenomena in the operating environment

Changes in the
security environment

Climate change

Requirements for
critical infrastructure

Changes in the
regulatory environment

Economic preconditions
for security of supply

Mission

We work together to build a crisis-resistant society so that even in a crisis, Finnish society will keep functioning and life will continue with minimal disruptions.

Focus areas during the strategy period



Energy supply



Transport and
supply chains



Digital security and
security of information



Food and
water supply

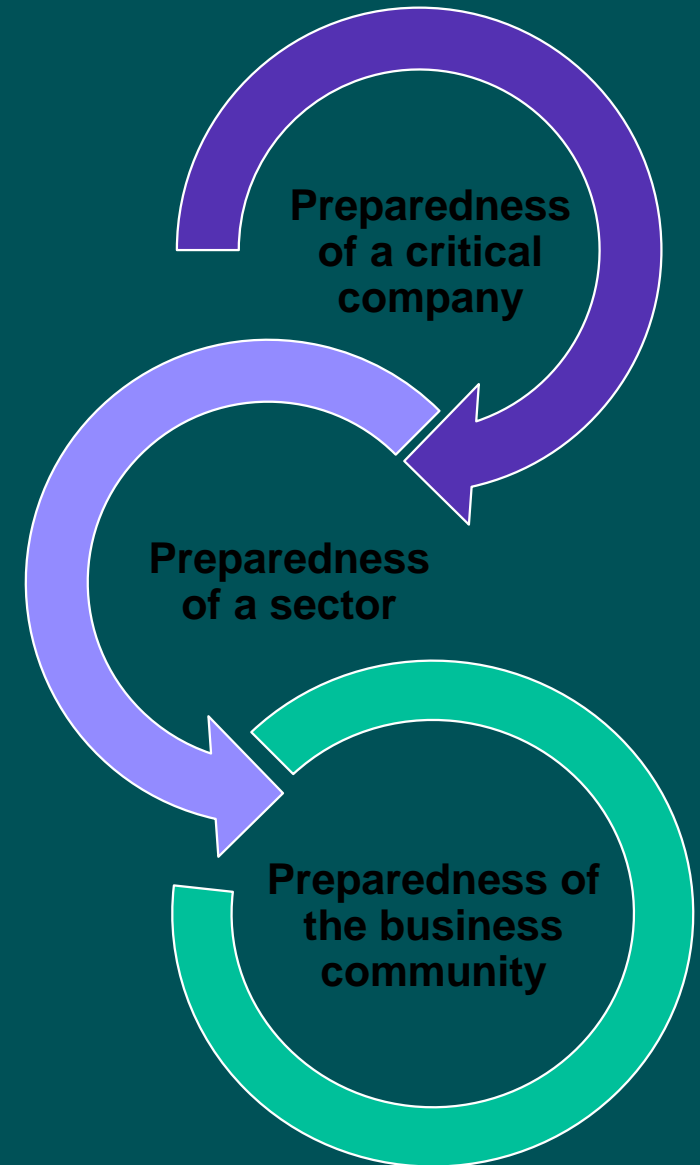


Industrial engineering
arrangements for serious crises



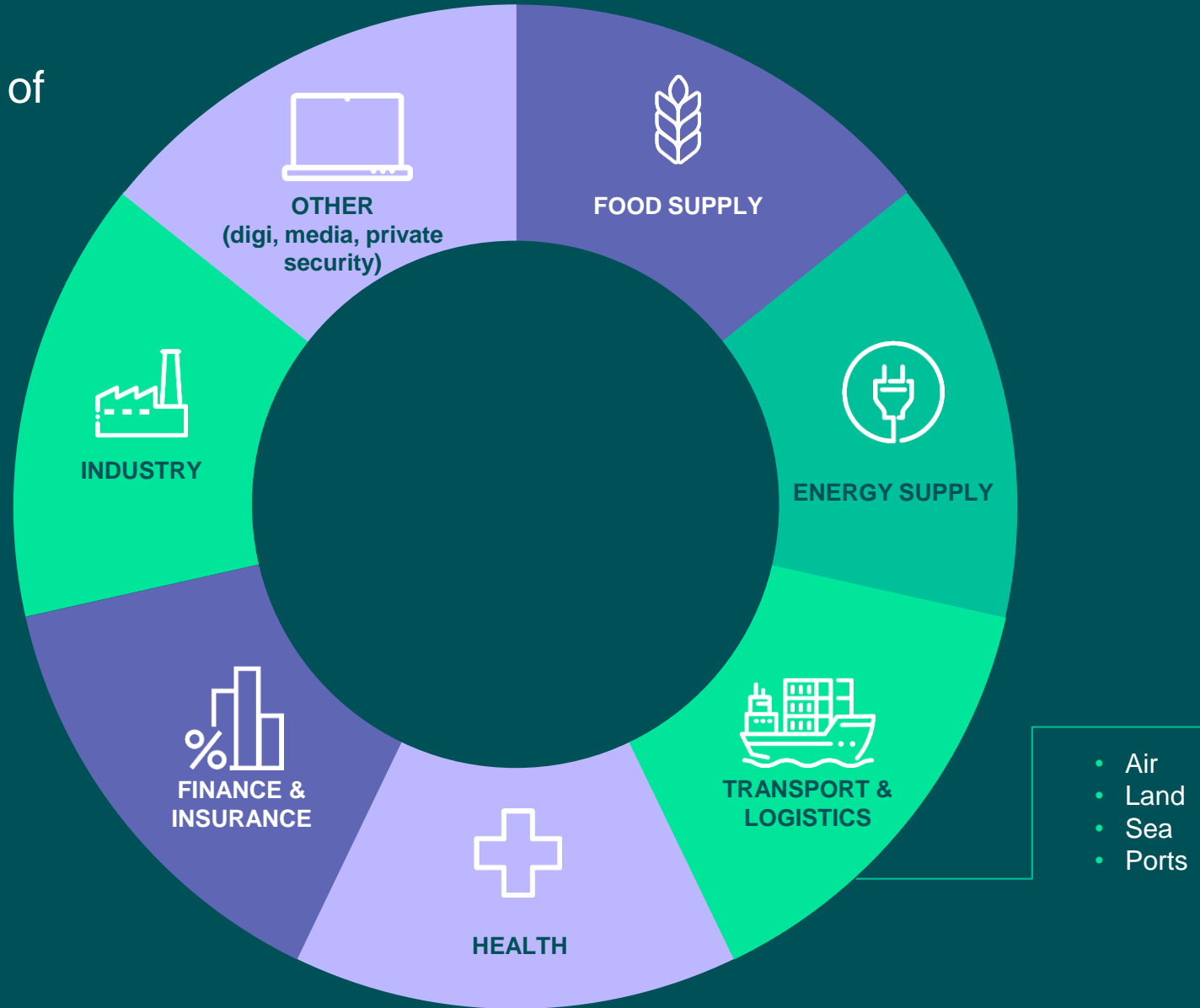
Public-private partnership, a key asset of security of supply

- **Security of supply network co-operation** is one of the key assets of NESAs: the private sector **maintains a significant proportion** of the functions critical to society.
- Collaboration between the public, private and third sectors is critical to ensuring security of supply.
- As regards the public sector, **Finnish ministries are responsible for steering and overseeing their administrative branches** so that the functions critical to society are safeguarded and their ability to operate is developed.
- The participation of **private sector operators in security of supply work is partly voluntary and partly mandatory** (e.g. fuel, electricity and medicine supply).
- Competition legislation compliance is taken into consideration at all times





- Sectors and pools in security of supply network. Around 1000 companies involved.





Pools: Central part of Security of supply network

Participants

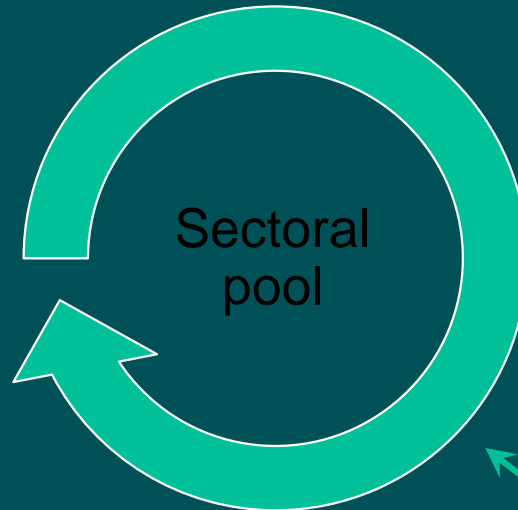
Companies identified as critical for the sector
Private sector participation in NESO pool work is voluntary!

Industry or trade association* representative
Associations act as NESO's contract partners in the pools

National Emergency Supply Agency
Referred to as NESO's "contact members"

Ministry or authority representative
Public sector preparedness responsibilities are mandated by law

Defence Forces representative
Present in the vast majority of pools



Activities

Meetings and seminars

Exercises

Sectoral policies

Best practices of preparedness

International cooperation



Reasons for finnish space industry participation in security of supply network

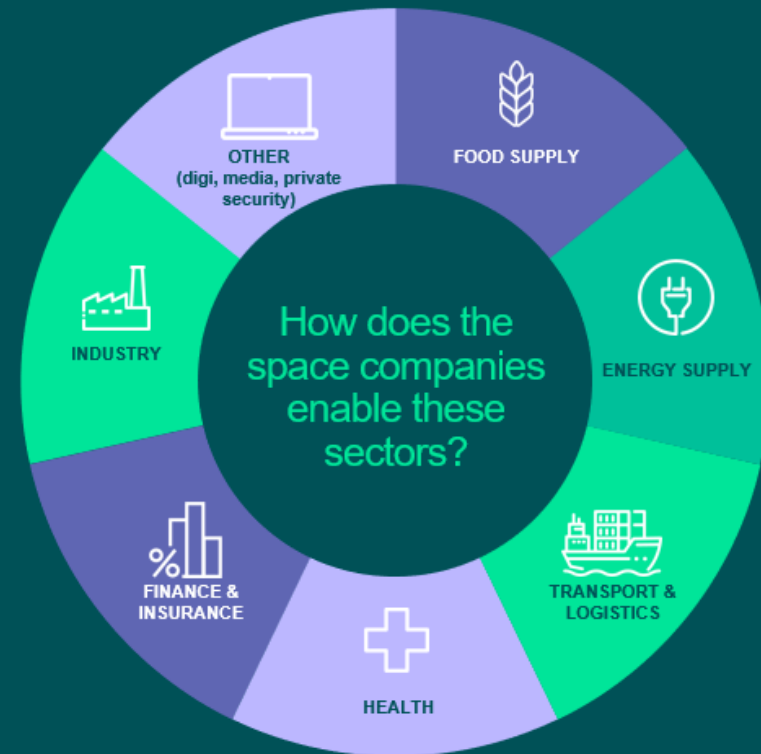
Two main issues:

1. Understanding the role and importance of space services and capabilities **in building a crises resistant society.**

- Are space services (which services?) necessary for sectors, pools and companies in security of supply network?

2. Understanding the meaning, role and activity of Finnish space industry for security of supply

- Who is producing what? How necessary is it?
- What space infrastructure do exist in Finland? Is it necessary?
- What are the necessary space capabilities?
- Are there some other reasons / justifications?

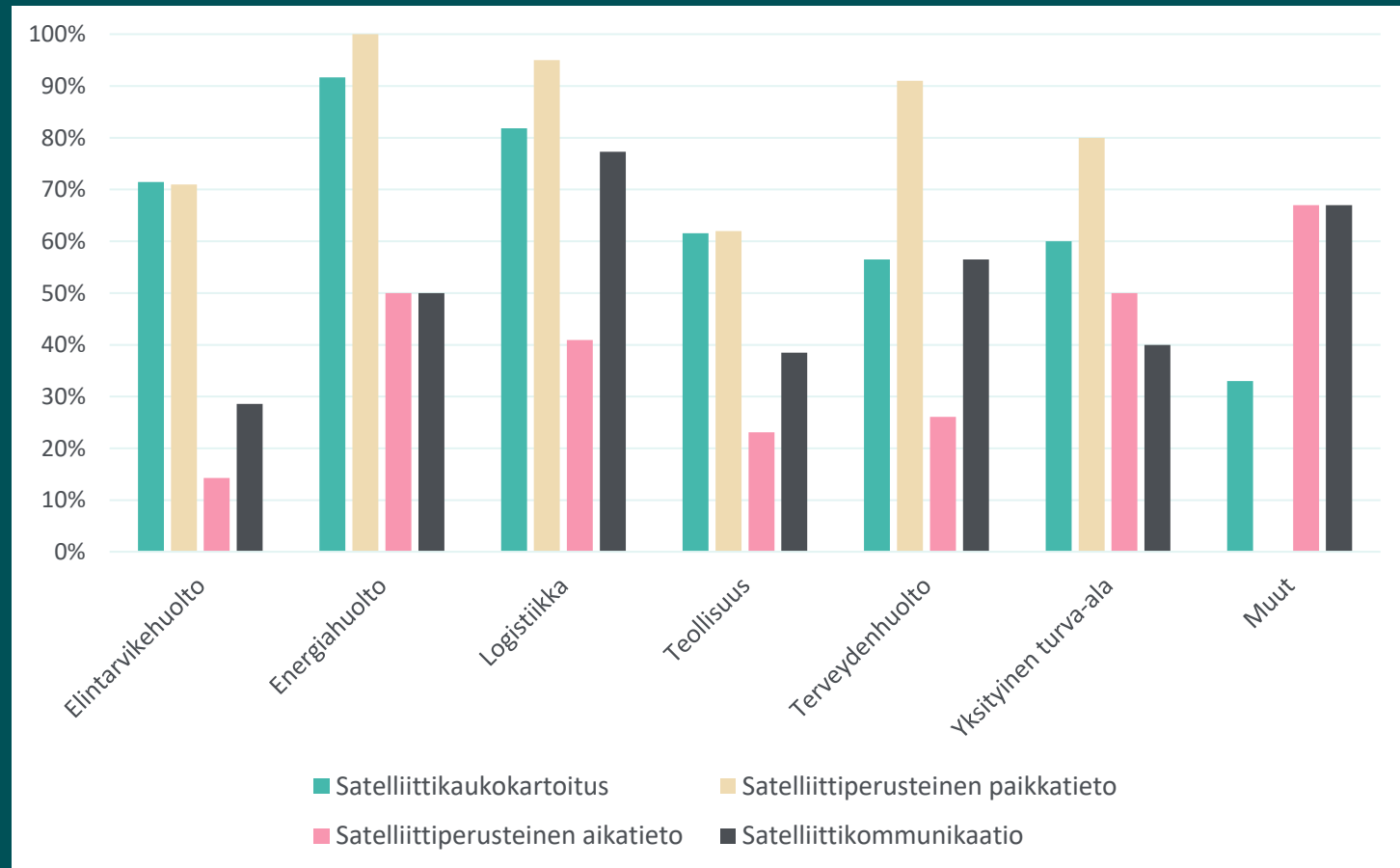




The importance of space based services in Finland

- Weather forecasts important for 60% of companies important for security of supply.
- Navigation and geoinformation important for almost all sectors. Logistics, energy.
- Satellite communication, a rising topic.

Proportion of the companies, which sees space based services important (%)





Authorities using space services

- National land survey of Finland,
 - Maintaining of coordination system, GNSS
- Rescue service,
 - Positioning and operative command ,GNSS
- Finnish meteorological institute
 - Remote sensing by satellites for the production of weather and sea services and warnings.
- Finnish Food Authority
 - Farming subsidy, supervision and operation by remote sensing
- Defence...



Kuvassa Sodankylän maa-aseman polaarirataisten satelliittien vastaanottoantenneja (Kuva: Ilmatieteen laitos).



Phase of work

1. Understanding the role and importance of space services and capabilities **in building Finland as a crises resistant society**

- Good understanding. Space services and capabilities have an increasing role and importance for security of supply.

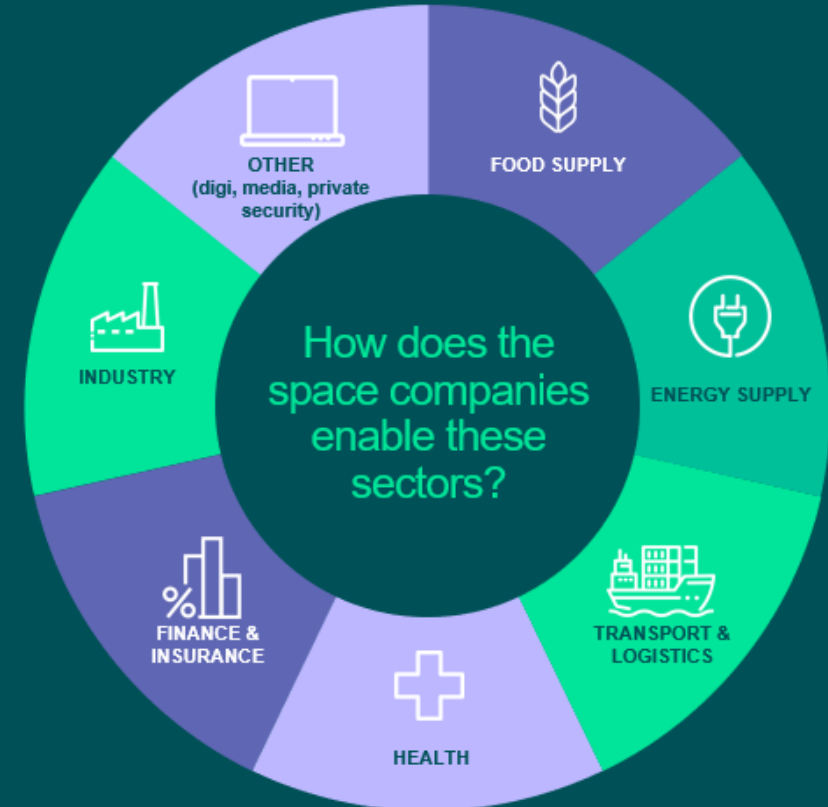
2. Understanding the role and activity of finnish space industry for security of supply

- Relatively good understanding at general level. It seems that Finnish space industry has a role in the security of supply.

But more detailed company level information needed to complete:

Companies identified as critical for the sector

This will be the next phase in coming year to make a decision about finnish space industrys participation in the security of supply network.





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Fiksua huoltovarmuutta
yhdessä.

Varmuuden
vuoksi.

huoltovarmuuskeskus.fi

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