

# Lithuanian Space-Tech Industry

Warsaw, 2021/11/25

# Lithuanian Space-Tech Industry

2017

- 27 economic entities with 270 employees in the Lithuanian aerospace sector

2019

- 30 economic entities with 325 employees in the Lithuanian aerospace sector

2021

- ESA industry days in Lithuania: 46 companies and organizations

# Lithuanian Space-Tech Environment

Lithuanian Space Association

- Business, academic and research institutions

Space Technology Cluster

- Business (Nanoavionics, Geomatrix, Elsis Pro, BlackSwan Technologies, ...)

# Space Technology Exapmples

Elsis Pro	Software applications dedicated for defense and aerospace customers. Galaxy – data management and communication platform for constellations of nanosatellites. NATO Personal Security Clearance and Facility Security Clearance.
Geomatrix	SAGRIS (Sentinels-based AGRiculture Information Service Component) automated service for satellite data pre-processing, operational mapping and per-parcel statistical sampling, providing a database back-end for application developers and Big Data analytics. CAP subsidies control service. Smart farming service.
Blackswan Space	Mission Design Simulator for developing complex autonomous missions. Vision Based Navigation system for rendezvous and docking. Robohands - a robotic manipulator for small satellite missions.
NanoAvionics	End to end small satellite infrastructure. Current production capacity : 40-50 custom satellites and 150-180 of identical design. NASA GEVS and ESA ECSS compliance.
Astrolight	Free-space optical communication transceivers for satellites, optical ground stations and UAVs.

# Companies' Projects

Persistent Earth Observation for Actionable Intelligence Surveillance and Reconnaissance  
EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME (EDIDP-ISR-2019)

Innovative and Interoperable Technologies for Space Global Recognition and Alert  
EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME (EDIDP 2020)

Nano-satellites based Global Infrastructure to Enable IoT/M2M Networks  
Horizon 2020

Enabling Chemical Propulsion System for the Growing Small Satellite Market  
Horizon 2020

CAPCON – Common agriculture policy subsidies control service using multi-sensor satellite data  
ESA PECS

COSFARM – Smart farming service using Copernicus satellite data  
ESA PECS

Ultra-wide Band, Reconfigurable Transmitter Front-End for Software Defined Radio High Data Rate Space Communication  
ESA PECS

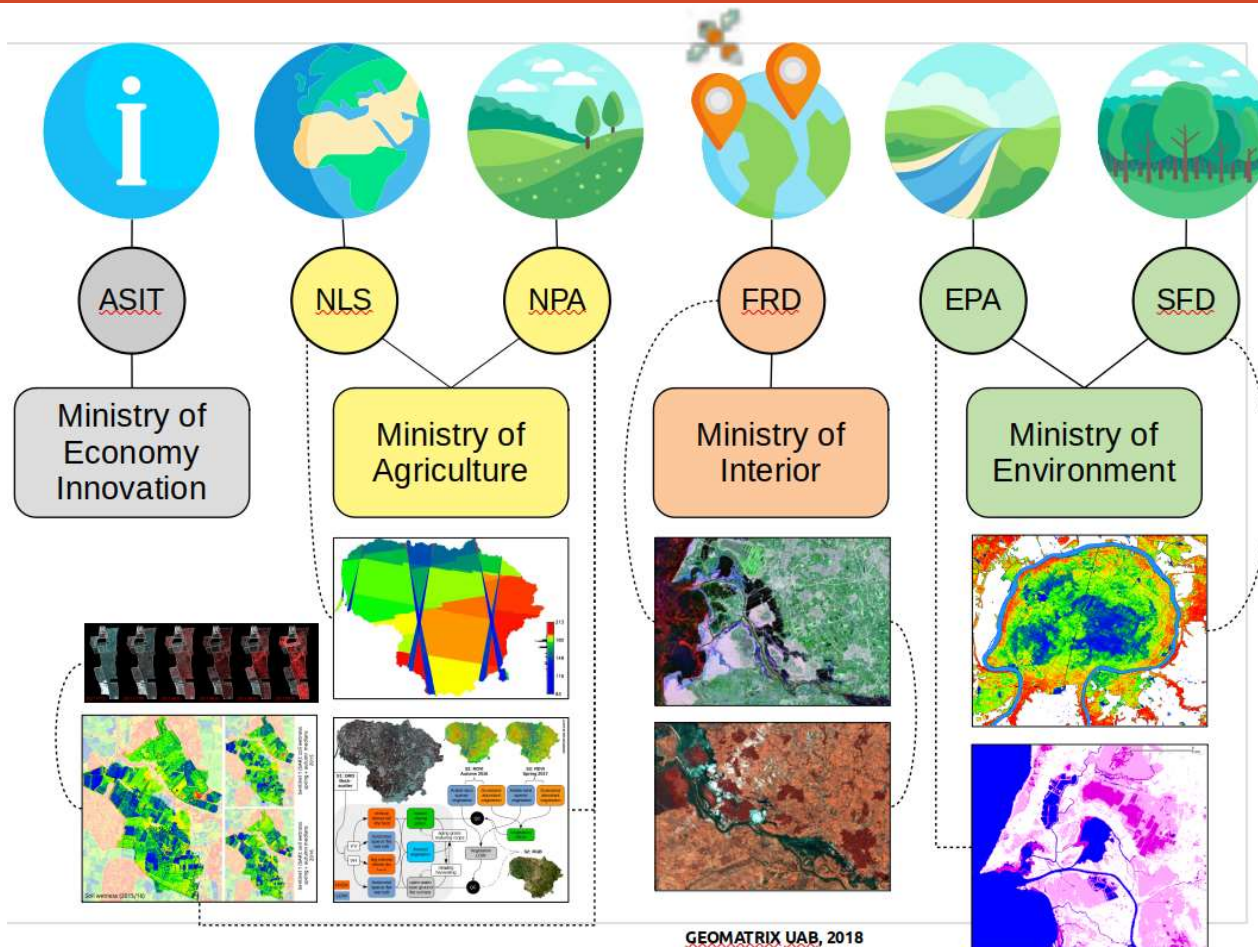
Mission Design Simulator  
ESA PECS

# Lithuanian Space Cluster

## Customers and project partners

- NASA
- ESA
- EDA
- NATO
- MIT
- Airbus Defence & Space
- Thales Alenia Space
- British Telecom
- Rheinmetall
- ADB Safegate
- Zuken
- Soliton Systems
- .....

# Joint project - Climate Change Impact Control



# Lithuanian Space Cluster





# VITP



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Thank you!