

Polish actions with respect to perspectives on the security, safety, and sustainability of space activities.

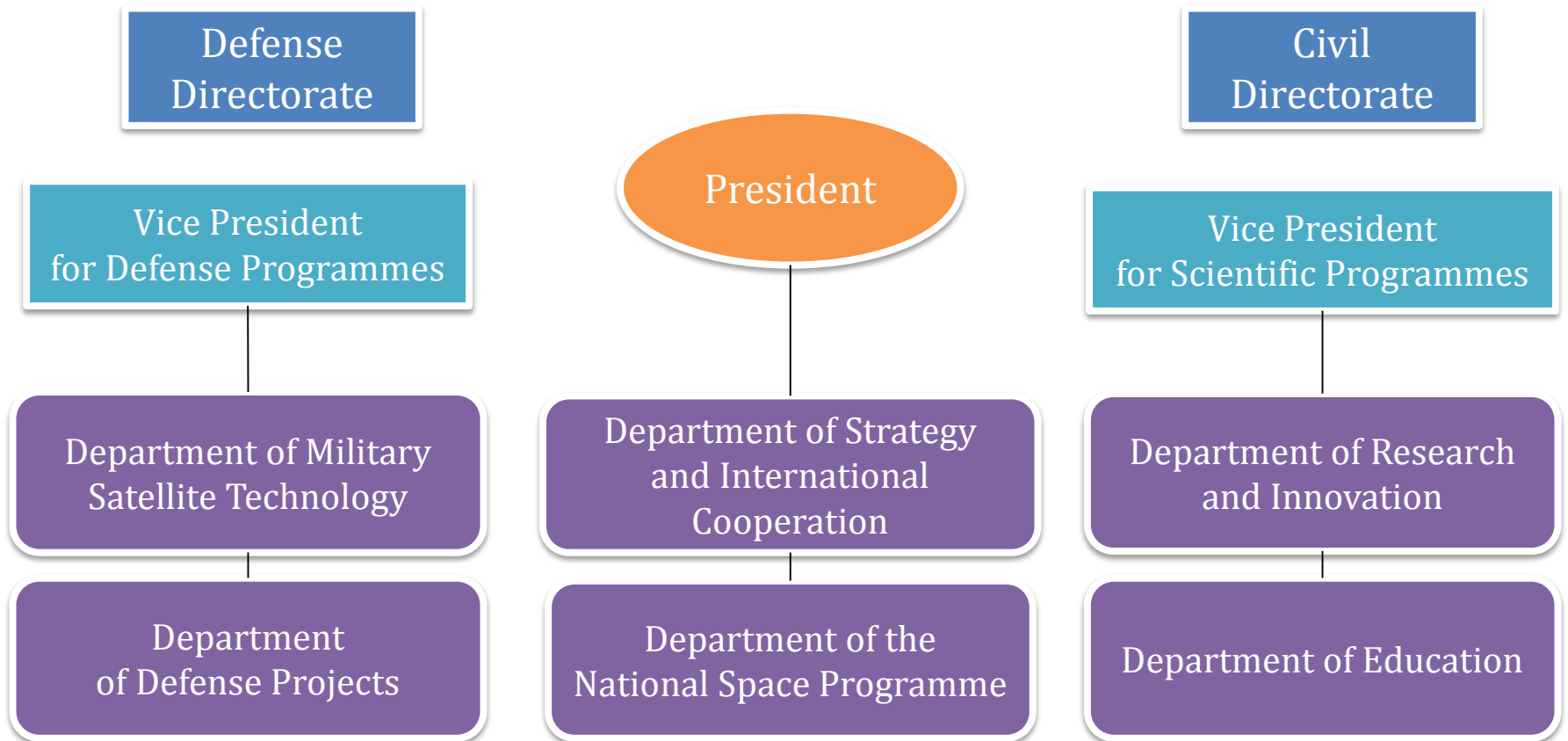
*Polish Parliamentary Group*

*18th Interparliamentary European Space Conference, Bucarest*

# ACTIONS

- Polish Space Agency (POLSA) established in November 2014
- **SAT-AIS-PL** - microsatellite dedicated for maritime related activities.
- Feasibility Study to set-up a Polish Component to **SSA**
- Established Galileo Competent PRS Authority (CPA) in 2014 in the Ministry of Interior.
- Legal and political aspects of exploitation of European satellite navigation systems GALILEO and EGNOS
- The Crisis Information Centre and Space Security Programms

# POLSA - organisation chart



# **POLSA for security and defence**

- Increasing Polish defense and security capacity for defense requirements
- Assuring non-dependence on critical space technologies
- Supporting good policy making

# **SAT-AIS-PL - microsatellite dedicated for maritime related activities**

- The purpose of the SAT-AIS-PL Phase A is to provide at the level of the feasibility study a mission of microsatellite dedicated for maritime related activities.
- Main objective of the mission is detection of Automatic Identification System (AIS) messages generated by vessels and providing this data to a data center localized in Poland.
- Satellite reception of the Automatic Identification System (AIS) packet data transmitted by the ship's AIS transponder is a challenging task. The AIS system in its early stage was not designed as a system which can deliver data via satellite link.
- Nowadays it is becoming one of the basic tools for ship traffic monitoring and e-navigation, while still providing navigational information to the ship's Master

# Feasibility Study to set-up a Polish Component to SSA

Poland express of interest to submit application to become a Member of European Space Surveillance and Tracking Support Framework.

POLSA as designated national entities to European SST Consortium conducts work to demonstrate compliance of the SST asset with the criteria.

ESA by ITT encourages the main objective to explore and identify existing and future Polish infrastructures and assets as well as their applicability in the frame of European Space Situational Awareness (SSA) Programme.

# The Galileo Public Regulated Service – PRS

## Competent PRS Authority -CPA

- The management of security is at the heart of the PRS system. Several Member States have established CPAs tasked with managing and controlling the use of PRS.
- In Poland the CPA has been established in 2014 in the Ministry of Interior.
- The PRS is primarily intended for use by EU Member State government agencies, including emergency services and police.

# **Legal and political aspects of exploitation of European satellite navigation systems GALILEO and EGNOS**

Institute of Aviation and Space Law at University of Warsaw starts the investigation on:

- Legal and political questions related to the satellite navigation systems
- Regulated act on Space Activity in Poland



# The Crisis Information Centre and Space Security Programms

- The role of the Centre is to support te State Fire Service, Institution responsible for crisis management by satellite imagery and technology. **Programms:**
- **EDEN**-End –user driven Demo for cbrNe, nuclear and explosive substances (FP-7)
- **SimSpace**-Training Simulation System for Crisis management (ESA)
- **DRIVER**- Driving Innovation in Crissis Management for European Resilience (FP-7)
- **Anti-flood**- early warning and prevention (Polish Ministry ForeignAffairs)

# Crisis Information Centre *operational activities*

Optimal use of space-derived information in the context of user needs



Working closely with users in operational environment

Tests of new technologies in real conditions



Integration of satellite and UAV data