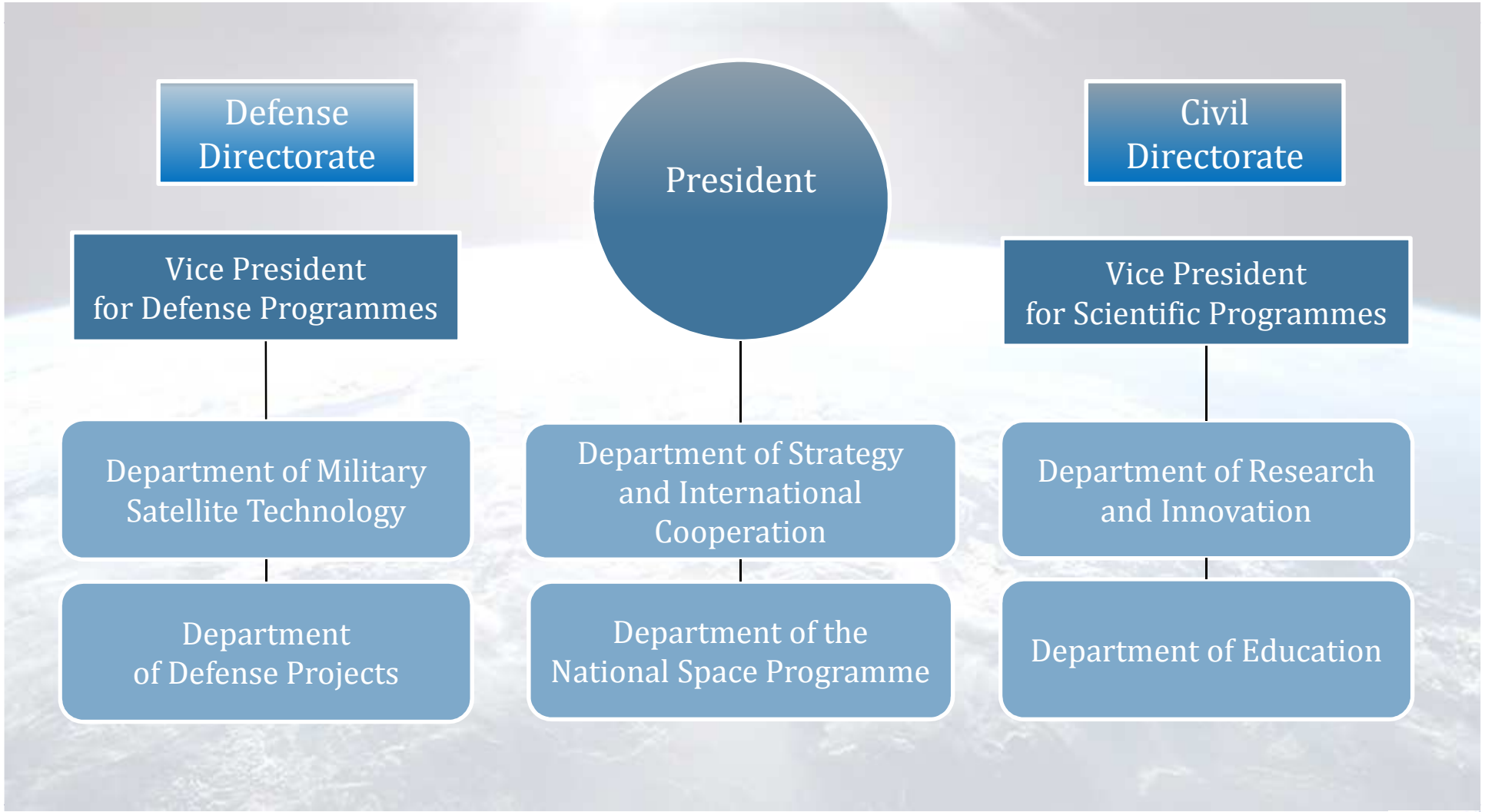
POLISH SPACE AGENCY AT A GLANCE

POLSKA
AGENCJA
KOSMICZNA

POLISH SPACE AGENCY

- Established in November 2014
- Executive agency supervised by the Prime Minister
- President of POLSA – prof. Marek Banaszkiewicz
- Headquarters in Gdańsk
- Subsidiaries in Warsaw and Rzeszów
- Budget ca. 2.5 mln €/year
- Staff: approx. 40 employees

POLSA – ORGANISATION CHART



NATIONAL SPACE PROGRAMME

- Concept study in cooperation with:
  - Ministry of Economic Development
  - Ministry of Defense
  - Ministry of Science and Higher Education
- Space budget lines in:
  - National Centre for Research and Development (NCBR)
  - National Science Centre (NCN)
- Annual budget approx. 100M PLN (24M EUR)

POLSA – AREAS OF ACTIVITY

- INDUSTRY
- SCIENCE
- SECURITY AND DEFENCE
- SOCIETY
- EDUCATION

POLSA FOR INDUSTRY

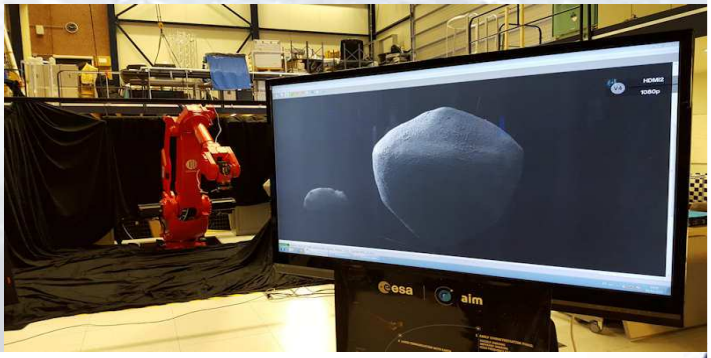
- Supporting and strengthening the competitiveness of Polish space industry
- Transferring technology from space to non-space applications
- Harmonisation of space sector activities in national and international programs
- Supporting space research and industry cooperation

CONSULTING SERVICES

- Main goals:
  - support of space sector development
  - improvement of knowledge about ESA programmes, especially PLIIS
- initiative implemented in late 2015
- 2 editions completed
- support for 6 economic operators provided

POLSA FOR SCIENCE

- Cooperation among scientific institutions
- Enabling:
  - the future science
  - service driven missions
  - infrastructure
- Fostering innovation and technical excellence
- Ecouraging Polish space sector to participate in international programs



POLSA FOR SECURITY AND DEFENCE

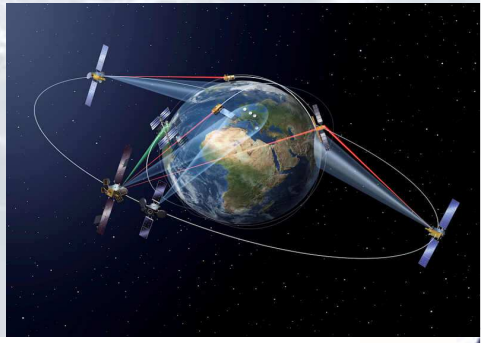
- Increasing Polish defense and security capacity for defense requirements
- Assuring non-dependence on critical space technologies
- Supporting good policy making

FEASIBILITY STUDY:
POLISH SPACE AWARNESS SYSTEM ARCHITECTURE

- Joining the European Union Space Surveillance and Tracking (SST) Support Framework initiative
- Define the possibilities and conditions for realisation of works related to Space Domain Awareness (SDA) / Space Situational Awareness (SSA) systems
- Fulfil the needs of the armed forces, security services, administrative crisis management and the Polish economy.
- Definintion the scope of task for:
  - support of the implementation
  - the creation of individual system components
- Contractor: Astri Polska Sp. z o.o.

PRE-FEASIBILITY STUDY:
RADAR IMAGING SATELLITE SYSTEM

- Review the Polish Radar Technology
  - current state of industry
  - scientific development
  - potential over the next few years
- Select the most adequate variant of radar satellite system for Poland
- Make recommendations for the policy-makers and the executive
- Contract signed in December 2015 with PZL Warszawa-Okęcie



PRE-FEASIBILITY STUDY:
SCIENTIFIC REASEARCH SATELLITE FOR UV ASTRONOMY

UV-SAT project:

- establishing ability to perform unique research concerning UV/multiwavelength spectroscopy and monitoring simultaneously,
- scale suitable for current Polish experience in space,
- possibility to use proposed payload platform in missions planned for the future.
- Contractor: Nicolaus Copernicus Astronomical Center, Warsaw

POLSA FOR SOCIETY

- Representing Polish interests related with space sector abroad
- Fostering space solutions supporting Polish administration
- Organizing public events promoting space and space technology (open days, picnics etc.)
- Building national space community identity and pride

PILOT PROJECTS FOR POLISH ADMINISTRATION

Main goal: increasing the efficiency of public administration by enabling it to use services based on satellite data in everyday work

- 31 project proposals submitted and evaluated
- 5 projects were selected in 3 areas:
- Crisis management
- Green Energy
- Environment

Initiative has to be reformulated

COOPERATION WITH ACADEMIA

- IRMAST (Innovative Research and Maritime Applications for Space) – declaration on cooperation among POLSA, Gdańsk University of Technology, Gdynia Maritime Academy, Polish Naval Academy, Gdańsk Science and Technology Park and Pomeranian Special Economic Zone (July 2015)
- Memoranda of Understanding for close cooperation between academia and industry, support for space education, establishing common initiatives
  - Rzeszów University of Technology
  - Poznań University of Technology

POLSA FOR EDUCATION

- Increasing knowledge about space and space technology
- Conducting educational and PR activities to increase understanding of space technology and its practical benefits
- Supporting and inspiring next generation of Polish high educated specialists (scientists and engineers)
- Encouraging future students to study space science (mechatronics, robotics, space engineering etc.)

NEW SPACE DEGREE COURSES

- Since December 2015 POLSA supports establishing new degree course, i.e. *Space and Satellite Technologies* in Tricity (Gdańsk, Sopot, Gdynia).
- Course will be provided simultanously by Gdańsk University of Technology, Gdynia Maritime Academy and Polish Naval Academy. POLSA is actively involved in preparations.
- POLSA has declarations of cooperation with University in Warmia and Mazury as well as University of Zielonagóra, which will establish the new degree course *Space Engineering* in October 2016

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