

# Poland's Space Policy

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# History

- 1954 – Polish Astronautical Association established
- 1975 – Polish Committee for Satellite Research
- 1977 – Space Research Centre
- 1978 – gen. M. Hermaszewski, first Polish astronaut
- 2001 – PECS program initiated by ESA, 2007 – Poland is a member
- 2011 – 2014 – three Polish satellites launched (1 cubsat, 2 Brite sat)
- 2012 – Poland becomes an ESA member
- 2014 – Polish Space Agency established

# Basic space policy documents

- Resolution establishing Polish Space Agency
- Polish Space Strategy
- National Space Programme

# Polish Space Agency (POLSA)

- **Established** in November 2014 by Resolution of Polish Parliament
- **Operational** since November 2015
- POLSA is **subject to** Chancellory of Prime Minister
- **President, 2 Vice-Presidents** (for science and for military programs)
- **Headquarters: Gdańsk**; two branches: Warszawa & Rzeszów
- **Staff: > 40 employees; Budget: 10 mln zł** (ca. 2.5 mln €)
- **Tasks:** support administration in space matters, represent Polish space sector abroad, prepare National Space Programme
- **Activities:** feasibility studies, workshops & conferences, experts to ESA delegates

# Polish Space Strategy

- Prepared by Ministry of Economy and introduced by the Resolution of Polish Parliament in January 2017
- Presents Vision, 3 Strategic goals till 2030 and 5 Specific goals
- Vision:

**Space sector is an important element of Polish economy based on knowledge and innovation and its links with other sectors of economy support the increase of their competitiveness**

# Polish Space Strategy (cont)

- Strategic Goals till 2030:
  - 1. Polish space sector will be ready to effectively compete on European market and the turnover will reach at least 3% of the total turnover of this market (in proportion to Polish economic potential)**
  - 2. Polish administration will use satellite data for faster and more efficient realization of its tasks, while Polish companies will be ready to fully respond to the domestic demand for such services and export them to other markets**
  - 3. Polish economical sector and public institutions will get full access to satellite infrastructure that allow to fulfil their needs, specifically in the area of security and defence**

# Polish Space Strategy. Specific Goals till 2030.

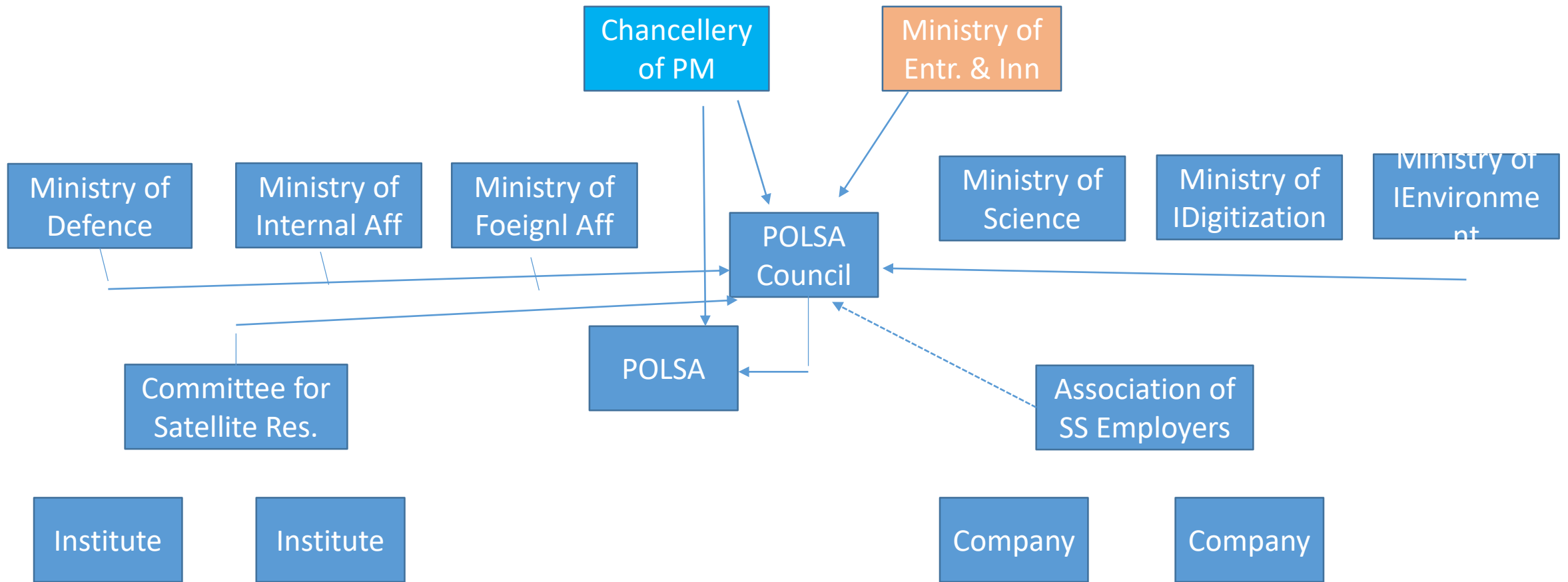
- **Increase of Competitiveness of Polish Space Sector and increase of its share in European space market turnover**
- **Development of satellite applications – contribution to digital economy building**
- **Capacity building in the area of State security and defence that is based on space technology and satellite applications**
- **Creating favourable conditions for space sector development in Poland**
- **Development of human resources for Polish space sector**

# National Space Programme (not yet approved)

- National Space Programme for 2019 – 2021 was prepared by Polish Space Agency and approved by POLSA Council in December 2018, but was not yet approved by the Council of Ministers
- Main points:
  - Big projects (e.g. national scientific satellite)



# Organisation of Space Activities in Poland



# High Priority Agenda

- Change of the Resolution on the Polish Space Agency (within weeks):
  - Subject to Ministry of Entrepreneurship and Technology
  - Headquarters in Warsaw (?)
  - Change of structure and position: mainly technical agency supporting Ministries
- Preparation to ESA Ministerial 2019
  - Choice of optional programmes: SSA, EO, NAVISP, ARTES, future launchers, robotic exploration
- National Space Programme
  - To be redefined

# Major Programs and Budget

- International
  - ESA; budget ca. 38 mln €, source : contributions from Ministries
  - EC; Polish share in the budget ca. 3%
- Central
  - National Space Programme; budget 150 mln zł (2019-2021), source ?
  - National Center for Research and Development; projects worth ca. 60 - 100 mln zł in 2017 - 2019 with own contribution of the industry
  - National Center for Science: ca. 10 mln yearly for projects in astrophysics and space science
- Regional
  - Space technology Park in Zielona Góra; budget 60 mln zł; to be built till 2021

# Industry

- More than 400 registration in EMITS
- More than 70 partners in Association of Space Sector Employers
- About 40 companies active in applying for ESA grants, 10 – 15 with major activity in space
- Types of space companies in Poland:
  - Daughter companies of foreign capital: GMV, Sener, TAS
  - Joint ventures: Astri Polska (CBK/ADS)
  - Spin-offs and start-up originating from research sector: Astronika, PIAP Space
  - Polish companies introducing space as a new activity: Creotech, Asseco, Hertz Systems
  - New Space companies: SatRevolution (constellation of optical nanosats), GT Labs (hyperspectral sats)

# International Cooperation

- POLSA has got agreements of cooperation with: CNES, ASI, Ukrainian SA, Brazilian SA, Mexican SA, ROSA and Israelian Space Agency; agreement of scientific cooperation with DLR in preparation
- Priorities in international cooperation:
  - Big ESA countries + selected ESA countries
  - USA, Israel, Canada, Ukraine, other ESA countries
  - Other countries,