

GMES and SPACE related issues in Poland

Piotr Świerczyński

**SPACE PC Member, SPACE & SECURITY NCP
Coordinator of National Technology Platforms
National Contact Point
for Research Programmes of EU**

**Institute of Fundamental Technological Research
Polish Academy of Sciences**



Polish Space Sector - STRENGTHS

- **several achievements of Polish companies (navigation, Earth observation) – big potential eg. PECS**
- **research potential of Polish research institutes (40 years of experience)**
- **one of the biggest markets in Europe (size and population of the country)**
- **very well developed ICT area**
- **high level of education in technical science (potential employees for space/GMES sector)**
- **competitive labour costs in comparision to EU15**



Polish Space Sector - WEAKNESSES

- **limited cooperation between Poland and ESA (only PECS programme)**
- **lack of national space programme**
- **lack of National Space Agency (coordination of SPACE/GMES related issues, promotion, national programme management)**
- **relatively weak contacts of PL companies with European ones e.g. very bad results of GMES SPACE Component Programme-EC-ESA Agreement)**
- **lack of involvement of big PL companies in space related issues**



Polish Space Sector – OPPORTUNITIES and THREATS

OPPORTUNITIES:

- increasing importance of SPACE/GMES in the EU policy
- increasing importance of SPACE/GMES for security and defence
- intensive increase of geoinformation market

THREATS:

- competition of large EU companies which are experienced with ESA
- „*brain drain*” risk (qualified and experienced employees will emigrate to work for EU large companies)



Participation of Polish institutions in 1st and 2nd SPACE CALL – funded projects

1. Space Research Centre PAS (5)
2. Institute of Fundamental Technological Research PAS(2)
3. Polish Geological Institute (2)
4. Institute of Aviation in Warsaw (2)
5. Institute of Geodesy and Cartography in Warsaw
6. Maritime Institute in Gdańsk
7. Institute of Meteorology and Water Management
8. Gdańsk University
9. Institute of Environment Protection
10. Satellite Center for Regional Operations (SCOR)
11. Institute of Nuclear Physics PAS in Cracow
12. Institute of Hydro – Engineering PAS in Gdańsk
13. MIKROMA SA
14. Wasat Sp. z o.o.
15. TopGaN Sp. z o.o.

EC contribution to all funded projects with PL participation after two calls.
3 mln € (22 partners in 14 projects)



PECS in POLAND (1) (great potential of PL institutions and companies)

PECS 1st Call – facts and figures

47 proposals submitted to the Ministry of Economy

(20 led by commercial enterprises and 27 by R&D institutes)

Total applied financing: **EUR 43mIn** (current PECS allocation:

EUR 5 mln / 5 years (increase in consideration)

39 proposals transferred to ESA

20 projects chosen by ESA for implementation (9 led by commercial enterprises and 11 by R&D institutes)

19 projects in implementation – overall budget 5,8 mln EUR

High quality projects submitted.

Many projects proposed by consortia composed from enterprises and scientific units

PECS (2) Polish institutions and companies funded after the first call

1. Space Research Centre PAS (5)
2. Polspace sp. z o.o. (3)
3. Warsaw University of Technology, Institute of Heat Engineering (2)
4. Institute of Geodesy and Cartography (2)
5. Institute of Aviation in Warsaw
6. University of Warmia and Mazury
7. GEOSYSTEMS Polska Sp. z o. o.
8. Polish Naval Academy
9. Transbit
10. Wroclaw University of Technology Faculty of Electronics
Institute of Telecommunications, Teleinformatics and Acoustics
11. Techmex
12. Noma2



Challenges

- **full membership of Poland in ESA**
- **establishment of National Space Agency**
- **SPACE/GMES programme at national level**
- **raising awareness of GMES products at national and regional level and potential of end users/society**
- **involvement of companies from all EU Member States incl. EU 12 (NMS)**
- **EC-ESA agreement for GSC – so far benefit only for EU15**



What could be improved?

- Sustainable development of GMES programme in all European countries incl. EU12 (change the rules?)
- Promotion, dissemination and raising awareness of GMES programme in EU12 – support of EC?
(Two levels: public administration / society)
- Training and workshops in EU12 about GMES/ESA ITTs – support of EC/ESA
- Involvement of companies from NMS in building of GSC



Thank you for your kind attention!

Piotr Świerczyński

e-mail: piotr.swierczynski@kpk.gov.pl

Phone: +4822 828 74 83



**National Contact Point
for Research Programmes of EU**

**Institute of Fundamental Technological Research
Polish Academy of Sciences**

ul. Żwirki i Wigury 81
02-091 Warszawa

phone: +4822 828 74 83

fax: +4822 828 53 70

e-mail: kpk@kpk.gov.pl

