



# **Space Opportunities and Challenges – A view from Poland Brussels, 30<sup>th</sup> of January 2013**

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Ministry of Economy**

# Poland - full member of ESA

19<sup>th</sup> of November 2012



# Space in Poland – institutions (gov)



Main actors:

- ❖ **Interministerial Board for Space Policy**
- ❖ **Ministry of Economy – relations with ESA, overall coordination of space policy (EU and PL)**
- ❖ Ministry of Science and Higher Education – scientific research (including FP7) and Copernicus (*GMES - Global Monitoring for Environment and Security*)
- ❖ Ministry of Administration – Galileo
- ❖ Ministry of Internal Affairs – Galileo PRS
- ❖ Ministry of Foreign Affairs
- ❖ Ministry of Defence – military aspects
- ❖ Ministry of Environment, Transport, Agriculture
  
- ❖ Operational assistance and relations with industry – Polish Agency for Enterprise Development

# Space in Poland – institutions (science)



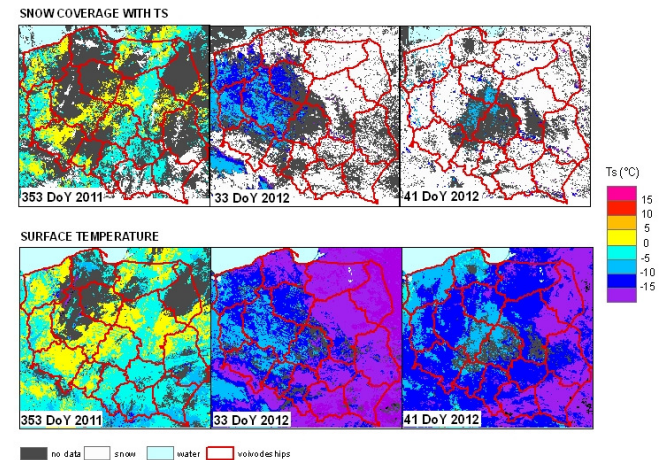
MINISTRY  
OF  
ECONOMY

## Main actors:

- ❖ Committee on Space Research of Polish Academy of Sciences – established in 1966, member of COSPAR, five Commissions: Space Physics, Satellite Geodesy, Remote Sensing, Astronautics and Space Technology, Space Biology and Medicine
- ❖ Space Research of Polish Academy of Sciences – established in 1977
- ❖ Institute of Geodesy and Cartography – created in 1945, Department of Remote Sensing since 1976
- ❖ Institute of Meteorology and Water Management – using satellite data since 1967
- ❖ Institute of Aviation
- ❖ Technical universities in Warsaw, Wrocław, Gdańsk, Poznań etc.
- ❖ Other universities and research institutes – UWM in Olsztyn, AGH, Institute of Oceanography PAS, Naval Academy, Airforce Academy in Dęblin, Zielona Góra, etc.



SNOW COVERAGE and SURFACE TEMPERATURE  
OBSERVED BY TERRA/MODIS



# Space in Poland – institutions (industry)



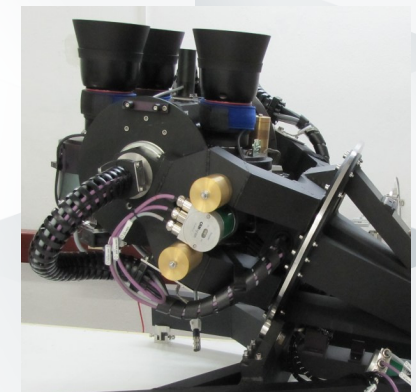
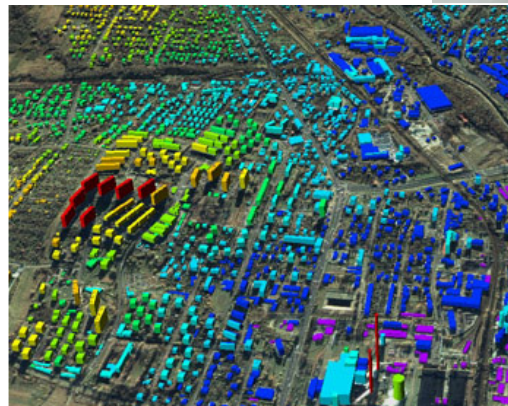
MINISTRY  
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**So far 60 interested companies and 50 R&D institutes  
Polish Space Industry Association – 19 founding  
members, to be enlarged**

Astri Polska, Bumar Group, Space Research Centre PAS, Cież i Passella S.C., GEOSYSTEM Ltd., GMV Polska, HERTZ SYSTEMS Ltd., Institute of Aviation, Institute of Telecommunications, ITTI Ltd., Industrial Research Institute for Automation and Measurements, Piktime Systems Ltd., Radiotechnika Ltd., Robotics Inventions Ltd., Sener Polska, Solaris Optics S.A., TS2 Satellite Technologies, UNICORN, Wasat Ltd.



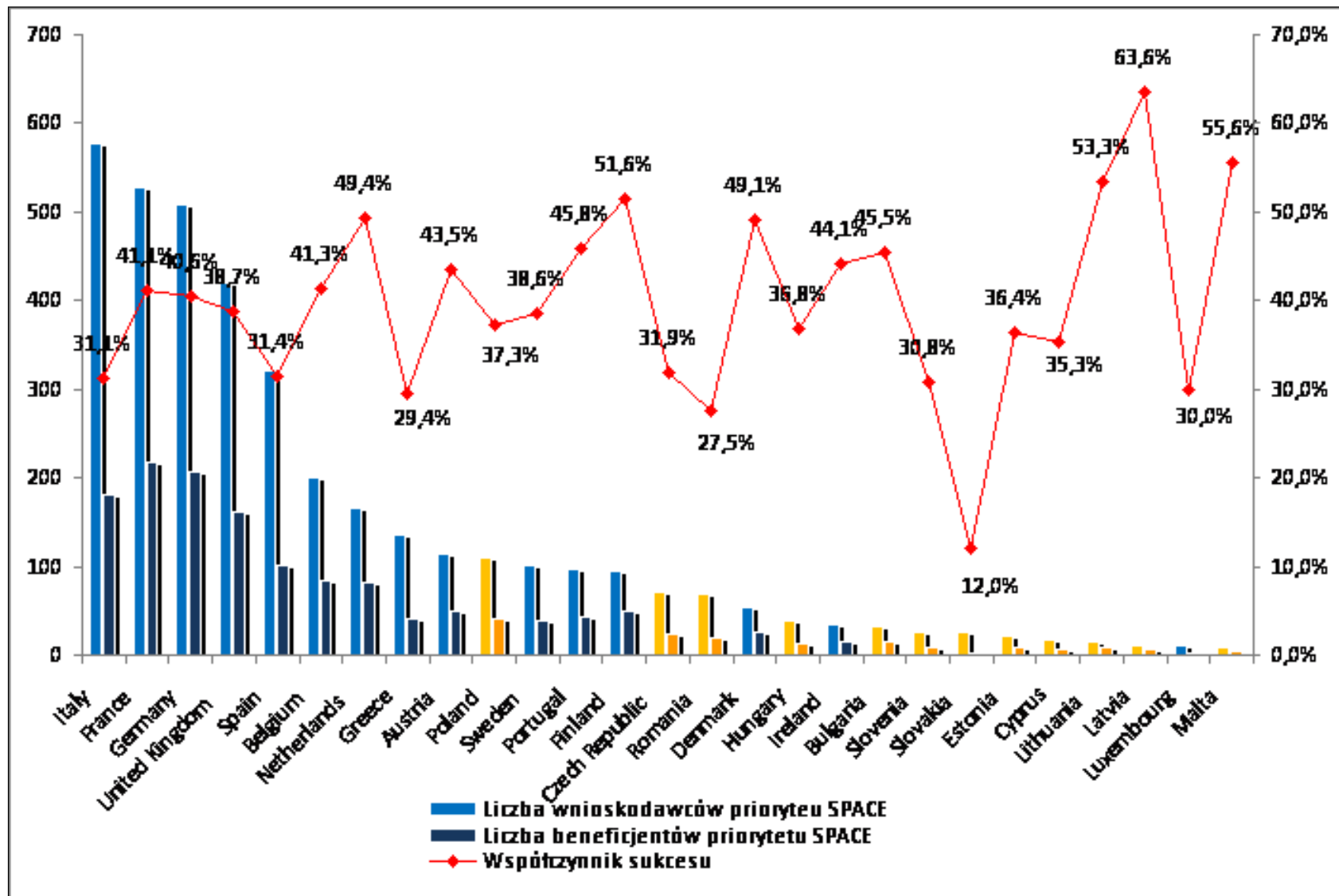
- ❖ Aviation Valley, Silesian Aviation Cluster
- ❖ A number of application and service companies (EO, Nav)
- ❖ Well-developed IT sector



# Polish Space Sector in FP 7 (after 4 calls)



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## Polish Space Sector in PECS

- ❖ PECS Agreement with ESA signed on 27<sup>th</sup> April 2007
- ❖ Obligatory contribution 1 M€ in 2001 e.c. per year
- ❖ Additional funding made available 5 years
- ❖ 5 years
- ❖ 3 PECS calls
- ❖ Overall results: 45 projects
- ❖ More than 11 M€
- ❖ Average success rate about 30%
- ❖ Good basis for future activities



# Polish Space Action Plan (1)



## Strategic aims

- To stimulate innovation and improve competitiveness of Polish companies** by developing advanced technologies and fostering cooperation between R&D sector and business,
- To increase efficiency and effectiveness of public administration** by developing and implementing space-based applications in order to optimise the use of existing infrastructure and resources,
- To meet national security needs** by using existing instruments and developing autonomous capabilities in chosen domains.



# Polish Space Action Plan (2)



## Operational objectives

Development of cooperation with the European Space Agency and future membership,

Participation in European space projects, including European Defence Agency,

Establishment of an organisational structure coordinating Polish space activities,

Development and implementation of a national space programme.

# National space programme (to be created)

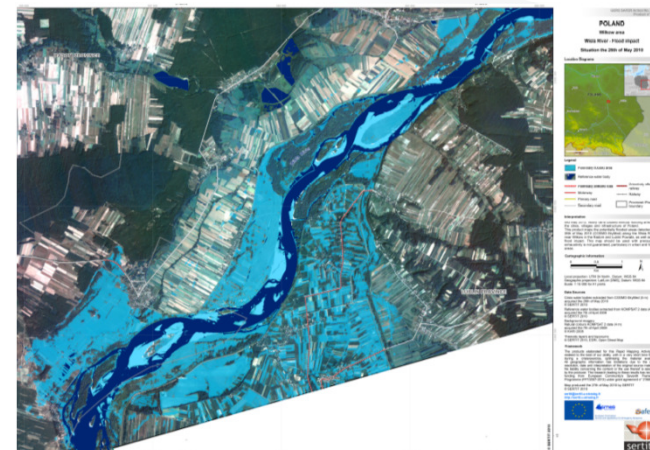
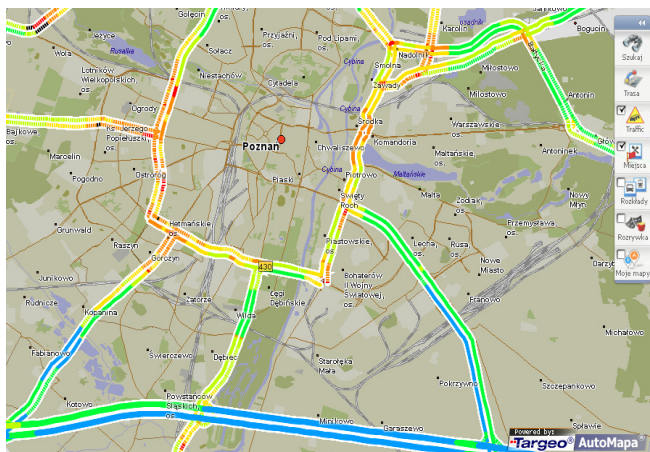


## Possible thematic areas

- ❖ Earth observation
- ❖ Navigation and positioning
- ❖ Telecommunication
- ❖ Space technologies
- ❖ National security and defense
- ❖ Crisis management

N.B. Focus on space applications, especially in order to meet the needs of public administration.

Important role of space technologies as well.



*[www.mg.gov.pl/Wspieranie+przedsiebiorczosci/Polityka+kosmiczna](http://www.mg.gov.pl/Wspieranie+przedsiebiorczosci/Polityka+kosmiczna)*

Thank you for your attention

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