

POLAND IN PECS

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Topics which will be addressed:

- 1) Polish co-operation with ESA**
- 2) From Co-operation Agreement to PECS**
- 3) PECS rationale**
- 4) PECS overall objective**
- 5) PECS Polish projects**
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- 9) Some examples of networking opportunities offered by ESA**
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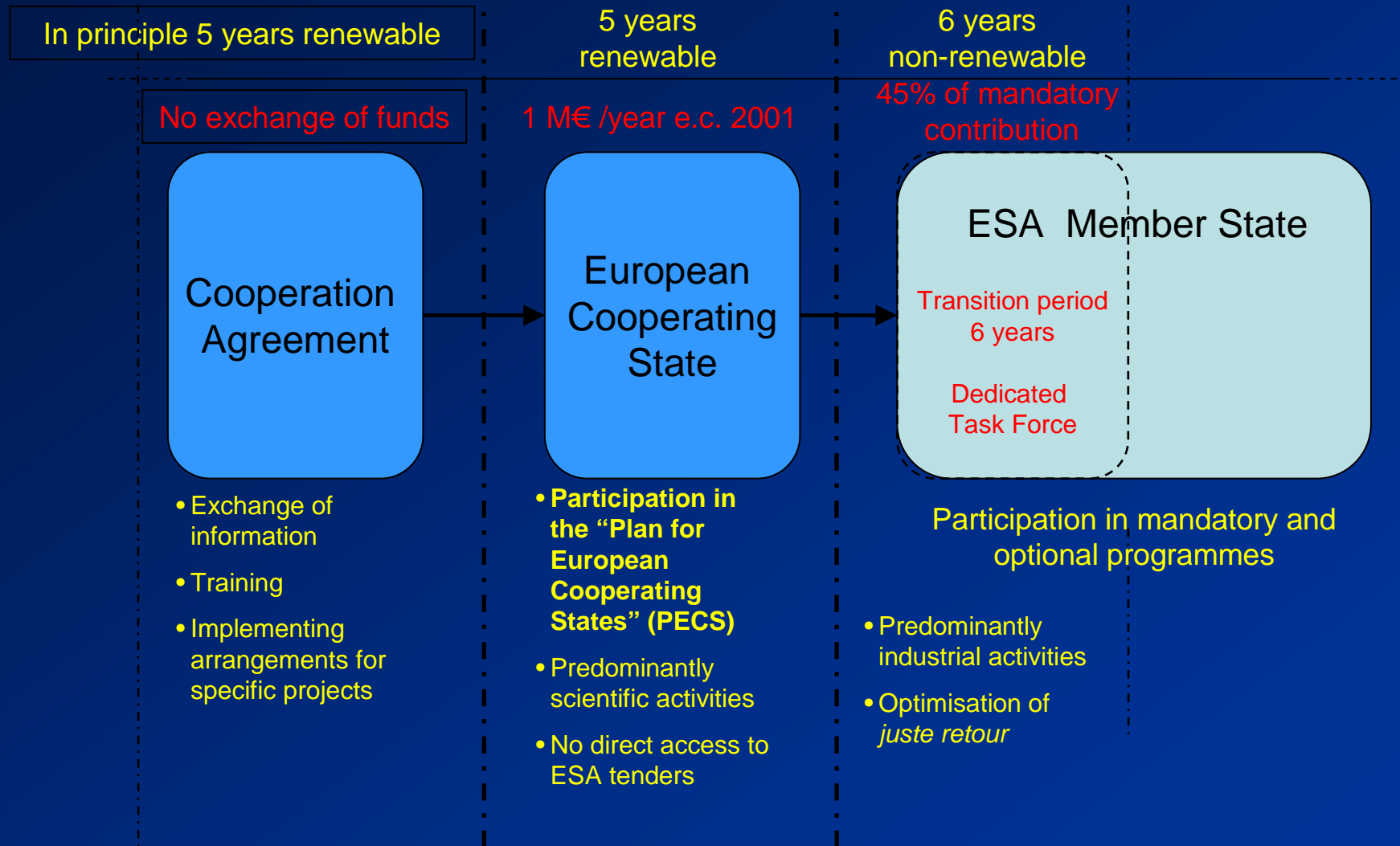
1) Polish co-operation with ESA

- ❖ Poland started to co-operate with ESA in the 1980's.
- ❖ Poland signed a first Co-operation Agreement with ESA in 1994.
- ❖ Poland has a very long tradition in space science activities and participated as co-investigator in almost all ESA science missions :
Ulysses, ISO (archive data), SOHO, XMM (archive data), Cluster, Double Star, Huygens, Mars Express, Herschel/Planck, Integral, Rosetta, BepiColombo.
- ❖ Poland renewed its Co-operation Agreement with ESA in 2002.

2) From the Co-operation Agreement to PECS

- ❖ In April 2007, Poland decided to strengthen its links with ESA and signed the European Co-operating States Agreement with ESA.
- ❖ One year later (April 2008), Poland signed the PECS Charter containing more than 20 projects to be performed under the PECS scheme.
- ❖ Doing so, Poland became the 4th ESA PECS Participating State, after Hungary, the Czech Republic and Romania.

2) From the Co-operation Agreement to PECS (cont.)



3) PECS rationale

- ❖ **PECS was created at the request of the Central and Eastern European countries.**
- ❖ **Main reason for this request:**

to help these countries to bridge the gap between the existing co-operation with ESA and the full ESA membership.

4) PECS overall objective

- ❖ The overall PECS objective is twofold:
 - to associate the ECS participants with ESA programmes and activities
 - to prepare them in the most efficient manner for possible future accession to the ESA Convention.

4) PECS overall objective (cont.)

To achieve this objective, PECS intends to:

- ❖ Develop co-operation between ECS scientific / industrial users and ESA Member States.
- ❖ Create and strengthen industrial expertise in view of the full ESA membership.
- ❖ Provide indirect access to nearly all ESA programmes and activities.
- ❖ Foster the understanding of ESA's functioning and European space standards and procedures.
- ❖ Ensure a coherence between the PECS activities and ESA programmes (no duplication of activities)

5) PECS Polish projects

- ❖ In order to be eligible for funding, a PECS project needs to be linked to the ESA programmes.
- ❖ Presently Poland has 18 running PECS projects.
- ❖ The repartition of these projects according to the various ESA programmes is as follows:

1 Space Science (mandatory programme of ESA)
5 Space Technology
5 Earth Observation
4 Navigation
2 Education
1 Space Situational Awareness (SSA)

5) PECS Polish projects (cont.)

- ❖ In contrast to other PECS countries, Poland decided to put the emphasis on Space Technology rather than on Space Science where its involvement has already been successfully proven in the past.
- ❖ Doing so, it was acknowledge that coherence for space technology projects should be ensured with the European Harmonisation. An European perspective is needed to avoid duplication.

6) PECS Polish contribution

- ❖ Polish PECS commitment is for a five year period (2008-2013).
- ❖ Present PECS contribution is about 1,2 M€ *per annum*.
- ❖ Possible increase of this contribution is presently under evaluation by Ministry of Economy (many new PECS projects are desperately waiting!).

7) PECS Polish actors

- ❖ Polish Space Research Centre, Warsaw
- ❖ Polspace sp. z o.o., Warsaw
- ❖ University of Technology, Warsaw
- ❖ University of Warmia and Mazury, Olsztyn
- ❖ GEOSYSTEMS Polska sp. z o.o., Warsaw
- ❖ Polish Naval Academy, Gdynia
- ❖ Institute of Geodesy and Cartography, Warsaw
- ❖ University of Technology, Wroclaw
- ❖ Institute of Aviation, Warsaw

7) PECS Polish actors (cont.)

To be noted:

- ❖ Even if most of the actors are presently located in Warsaw, efforts will be made to reach the other “centres of excellence” overall the country.
(PECS contribution is coming from all Polish tax payers!)
- ❖ The industrial involvement is supposed to be progressively increased towards the end of the five year period.

8) Few recommendations for an increased industrial PECS participation

- ❖ DO NOT try to bid yourself until you have gained some practical ESA experience.
- ❖ DO establish partnership with experienced companies from ESA Member States.
- ❖ DO start by joining existing running ESA projects.
- ❖ DO NOT sit in your office waiting for an opportunity to arrive, but participate in person in ESA space events to establish personal relationships, get to know the participants and get yourself be known.

9) Some examples of networking opportunities offered by ESA

- ❖ ESA various “industry days” including regular biannual ESA industrial space days, where over 600 companies meet in pre-selected one to one meetings; up to 20 individual meetings in one event!; next event in 2010.
- ❖ *Ad hoc* GMES industrial days with individual meetings with prime contractors for Sentinel satellites.
- ❖ *Ad hoc* telecommunication industrial days with presentations of individual projects and one to one meetings.
- ❖ ESA events especially tailored for SMEs and SME associations.
- ❖ GALILEO / EU various industry days.

10) Conclusion: Guideline for an effective PECS participation

- ❖ **Define early-on a National Space Strategy and stick to it. Evaluate if it is properly working regularly.**
- ❖ **Know very well your national space capabilities and interests.**
- ❖ **Ensure that there is a progressive space industrial involvement showing to other European players your national capabilities.**
- ❖ **Create from early-on a Polish Space Industrial Association to represent national interests.**
- ❖ **Continuity of resources and good strategy are fundamental, otherwise created capabilities will be destroyed.**
- ❖ **Transparency in this competitive process is a must.**
- ❖ **And ... keep your fingers crossed !**

10) Questions and answers

- ❖ All questions related to this presentation are most welcome.
- ❖ For specific issues, individual meetings can be organized during the break.

THANK YOU FOR YOUR ATTENTION