

Information day on ESA Insentie scheme for the Czech Republic, Praha, 20 March 2009

Czech participation in ESA programmes



Jan KOLÁŘ

Development of Czech-ESA Relationships

- Framework Cooperation Agreement (1996)
- PRODEX program (2000)
- European Cooperating State (2003)
- ESA Member State (12 November 2008)

ESA activities

- Mandatory programmes
- Optional programmes
- Open competition through tender system
- Assessment of bids by ESA evaluation board
- Rule of georeturn:
84% return of all contributions to ESA programmes over 5-year period is guaranteed

ESA Mandatory programmes

- Financed from yearly mandatory contributions of all member states
- derived from national GDP

CR contributions to Mandatory programmes

- CR: 5,6 million Euro/year (0,8%):
 - Basic Activities – 0,9 M€
 - Scientific Programme – 1,97 M€
 - CSG Kourou – 0,37 M€
 - **Incentive Scheme – 2,36 M€**
- Paid by Ministry of Education

ESA Optional programmes

- Approved at ESA Council on Ministerial level – once in 3 years (2008, 2011,...)
- Countries decide on their participations
- Specific rules in frame of ESA Convention (implementation, financial, **procurement**, decision-making, duration)
 - Advanced approval of the Czech delegation is required in some programmes
- Managed by Programme Boards & Committees

Czech participation in optional programmes

- CR participates in 13 optional programmes of 4 domains:
 - Space Applications – 8 prog's
 - Research experiments – 2 prog's
 - Space Transportation – 2 prog's
 - Generic technology development – 1 prog
- Financial contributions from Ministry of Transport and Ministry of Education

Space Applications

Earth Observation Programmes

- Earth Observation Envelope: 2,6 M€ till 2010
- GMES Space Component: 1,75 M€ till 2018
- Meteosat Third Generation: 2,2 M€ till 2020

- Earth Observations Programme Board (PBE0)

Space Applications

Telecommunication programmes

- ARTES 1: 0,12 M€ till 2013
- ARTES 3-4: 1,7 M€ till 2013
- ARTES 10 (IRIS): 4,14 M€ till 2011
- ARTES 20 (IAP): 0,16 M€ till 2013

- Joint Board on Communication Satellite Programme (JCB)

Space Applications Navigation programme

- European GNSS Evolution: 0,5 M€ till 2013
- Programme Board on Satellite Navigation (PB-NAV)

Research Experiments Programmes

- ELIPS Programme Period 3: 2,76 M€ till 2012
 - PB for Human Spaceflight, Microgravity and Exploration (PB-HME)
- Scientific experiment development programme (PRODEX): 0,5 M€ till 2010
 - Science Programme Committee (SPC)

Space Transportation Programmes

- Future Launchers Preparatory Programme: 0,5 M€ till 2012
 - Launcher Programme Board (PB-LAU)
- European Transportation and Human Exploration Preparatory: 0,2 M€ till 2012
 - PB for Human Spaceflight, Microgravity and Exploration (PB-HME)

Generic technology development

- General Support Technology Programme (GSTP 5): 3,2 M€ till 2013
- All programme boards except JCB

Czech participation in ESA overview

Through competitive tenders eligible for
Czech Republic (CZ) published in
EMITS for:

- Mandatory activities
- 13 optional programmes
- Incentive Scheme (Task Force) – limited to Czech organisations only

Additional information

- Ministeries' contact persons
 - RNDr Jana Bystřická, MŠMT jana.bystricka@msmt.cz
 - JUDr Bohumil Jirkal, MD bohumil.jirkal@mdcr.cz
- Czech Space Office
 - Website: <http://www.czechspace.cz>
 - EO: Josef Šobra sobra@czechspace.cz
 - Telecom + Nav: Martin Šunkevič sunkevic@czechspace.cz
 - Technology: Jiří Fuchs fuchs@czechspace.cz
 - Human SF + Launchers: jan.kolar@czechspace.cz

Czech Space Office

- Administration and advisory centre supporting space in CR
- Contact point for collaboration with ESA
- Czech Republic representation in international institutions
ESA bodies, HSPG, FP7 Space, GAC, IAF
- Supports decision-making/financing bodies:
 - Ministry of Education, Youth and Sports
 - Ministry of Transport
- Supports Czech implementation bodies:
 - Technology development – companies, associations
 - Research institutions – academia, universities

Main goal: to increase level and volume of the Czech space activities