



Ministerstvo dopravy

# Coordination of Czech Space Activities

*5<sup>th</sup> December 2011*

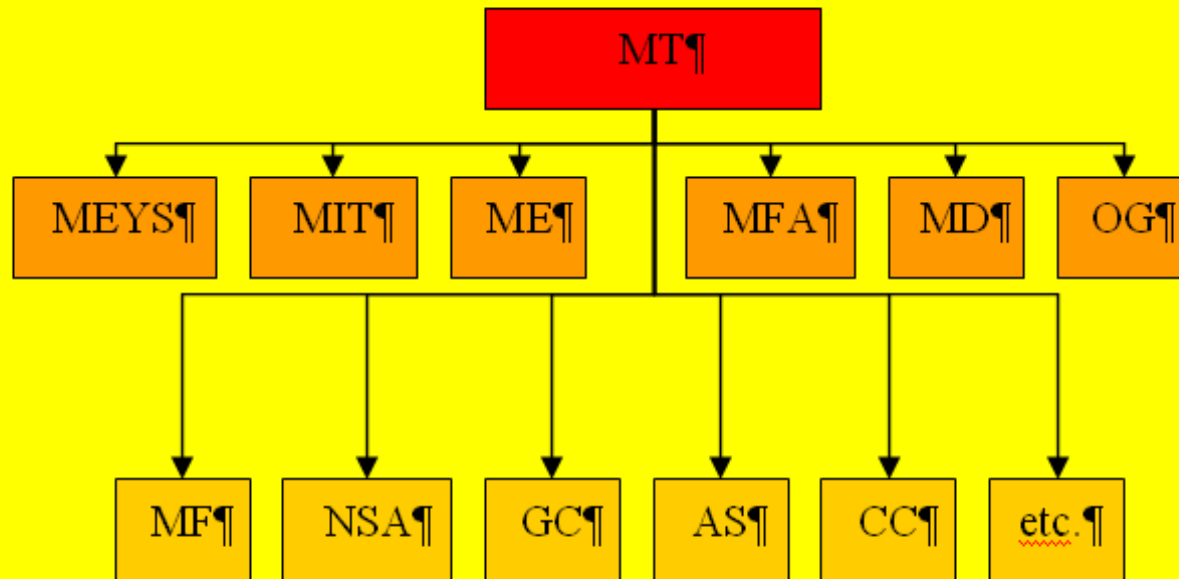
*Dr. Václav Kobera, Ministry of Transport*

# Coordination Council of Minister of Transport for Space Activities

- Government decision No. 282 from April 2011
- MT became a coordinator of space activities in the Czech Republic
- MT took over a responsibility for ESA and EU space policy
- MT established a Coordination Council of Minister of Transport for Space Activities

# COORDINATION COUNCIL OF THE MINISTER OF TRANSPORT FOR SPACE ACTIVITIES ¶

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WG - Industry and Applications ¶

WG - Scientific Activities ¶

WG - Security and International Relationships ¶

SECRETARIAT (MT) ¶

# Role of the State

- Role defined in
  - National Space Plan (approved by government in May 2010)
  - Implementation Plan (approved by government in August 2011)
- The ultimate goal is to create a *favourable environment* for industry and academia
  - awareness, dissemination, motivation, training
  - national regulation and law, financial and institutional support
  - international agreements on cooperation and membership in international organizations

# National Space Plan in a Nutshell

- National Space Plan (NSP)
  - is a document **addressed** to policy/decision makers
  - **contains strategy** for space and **recommends** associated programme by
    - defining the context of space and its activities
    - proposing guidelines and actions to maximize the return of the public investment
- NSP can be obtained in English from
  - <http://www.spacedepartment.cz/en/wiki/National-Space-Plan>

# Space Technologies and Satellite Systems Department

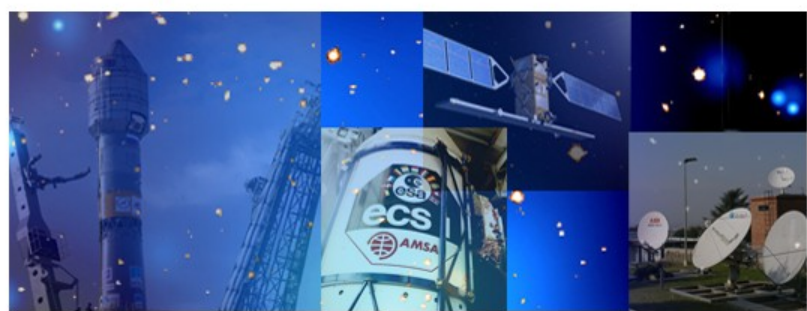


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## National Space Plan



(Image: ESA source)

## National Space Plan

was discussed and approved by the government Committee for the EU on 3rd May 2010 (Resolution of the government Committee for the EU from May 3, 2010, No. 14). It represents the plan for the development of Czech industries and academia and their integration into the international space community. The main purpose is to enhance the competitiveness of Czech industries and its technological and innovative level.

National Space Plan was prepared by the Ministry of Transport in accordance with the tasks set in paragraphs II.2 and II.3 of the resolution of the governmental Committee for EU as of April 2008, No. 15, in cooperation with the Ministry of Education, Youth and Sports, Ministry of Trade and Industry and the Government Commissioner for the nomination for the seat of the GSA agency.

Material was also continuously discussed with other government bodies, academia, Czech industry and other relevant stakeholders.

Detailed implementation plan of the National Space Plan will be processed by Ministry of Transport in cooperation with the Ministry of Education, Youth and Sports, Ministry of Trade and

- EMITS
- Useful Links
- Abbreviations
- News
- Event Calendar

December 2011						
Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	1	2	3	4
5	6	7	8	9	10	11
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26	27	28	29	30	31	1

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# Vision and Objectives

- Long-term vision is the Czech Republic that
  - has an international image of industrial and scientific **excellence**,
  - is a high **value-added economy**,
  - is **competitive** and **innovative**,
  - is capable of absorbing and retaining the **intellectual capital** it creates,
  - is an example of a virtuous **complementarity** and **cooperation** between its **industrial** and **academic** tissues,
  - is an **expert user** of space resources and infrastructure in operational products and services (EO, Navigation, etc).

# Vision and Objectives

- Mid-term objectives (2016)
  - To ensure that Czech Republic is on the way to accomplish the Long-term Vision it will necessary to achieve the following:
    - Czech **investment** in space has an **appropriate return**,
    - the Czech Republic has the **necessary competences** (industrial, academic, project management) and **infrastructures exist** to the long-term vision,
    - the **interaction** between Academia and Industry exists and is **well balanced**,
    - the Czech Republic has efficient and effective **space coordination** and recognizes space as a **strategic element of national policy**.

# Evaluation Criteria (2016)

- To evaluate whether the mid-term objectives were achieved in 2016 it is necessary to define quantifiable evaluation criteria. The following are proposed:
  - An overall **geo-return** in ESA of at least 86%
  - **Balanced participation** of academia and industry in space projects with at least 80% of the budget spent in industry).
  - A minimum of 1 Czech-owned **sustainable space product** is being supplied or about to be supplied
  - At least one **sustainable commercial activity** related to services or applications exploiting space
  - One on-going project, **outside** of ESA Space Science Programme, with an excellent example of **cooperation/integration of academia/industry**
  - Has a **formalised structure** supporting space activities

# Highlights

- Space as an **economic instrument** for **development and innovation**
- Emphasis on **return of investment** and **intellectual property rights**, stress on SMEs
- Large amount of **attention** dedicated **to analysis and recommendation** to current and envisaged **ESA programmes**
- **ESA** seen as **main** instrument for space however
  - **Czech Space Support Programme** needed to be established to complement and financially back up **non-ESA projects** or projects **complementary** to ESA projects
  - Recognized need to establish **bi-lateral agreements** which follows interests of the Czech Republic and strategic guidelines of NSP
- Establishment of the **Steering Committee at ministerial level** that will govern the Czech space activities **and an Agency executing** the will of the Steering Committee is envisaged
- **Human Resources** and **Awareness/Outreach** accented
- Analysis of **financial implications** based on **ESA long term plan (LTP)**

# Implementation Plan in a Nutshell

- Implementation Plan
  - is a document **addressed** to public sector
  - **contains** tasks to be implemented concerning
    - Promotion of Awareness on Space Activities
    - International Cooperation
    - Educational Programme
    - National R&D Space Programme
    - National Space Industry Incentive Scheme

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**STATE**

Executive power

Legislative and executive power

Coordination body

**Active policy in the field of space activities**  
•awareness securing  
•support of education and training  
•motivational programmes

Creating of active environment

**Legal regulations concerning space directly or indirectly**  
•institutional a financial issues  
•support of academia and industry  
•etc.

Creating of passive environment

**International agreements, concerning space directly or indirectly**  
•Creation of conditions for effective cooperation  
•Membership in international organisations  
•etc.

Creating of passive environment

Inputs, needs a feedback

**General Public**

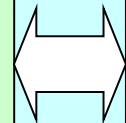
- To secure:
- Awareness on space in general
  - Awareness on possibilities in space (education, training, employment etc.)
  - Motivation for engagement in space (scholarships, competitions etc.)

**Professional Public**

- To secure:
- Awareness on space in general
  - Awareness on possibilities in space (education, training, qualification increase, employment etc.)
  - Motivation for engagement in space (motivational and supporting programmes, grants, R&D programmes etc.)

**Industry**

**Academia**



Questions?

Thank you for your attention!

[www.spacedepartment.cz](http://www.spacedepartment.cz)