"Welcome to the Club"

An Introduction into
ESA's Business from Industries'
Point of View



Content

- European Space Agency ESA
- Astrium a prime contractor to ESA
- ESA Members & Mandate
 - ESA Programs
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 - ESA Organisation
 - ESA C-Min 2008



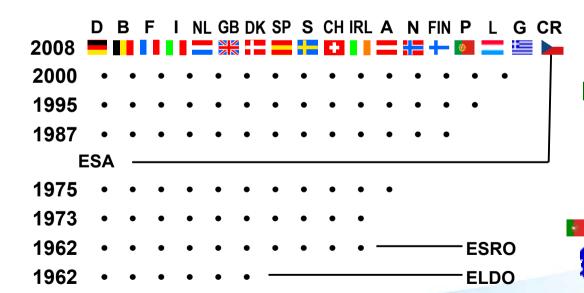
European Space Agency (ESA)

Founded 1975 as an association of states, actually 18 members:

• Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxemburg, Norway, Netherlands, Portugal, Spain, Sweden, Swiss and United Ki

Canada is a cooperating member state

Czech Republic signed ESA agreement on the 8th of July 2008





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Astrium: the EADS space division

Three key areas

Astrium Space Transportation

The European prime contractor for civil and military space transportation and manned space activities



Astrium Satellites

A world leader in the design and manufacturing of satellites and scientific systems



Astrium Services

At the forefront of satellite services in the secure communications, imagery and navigation fields





Astrium main figures and locations

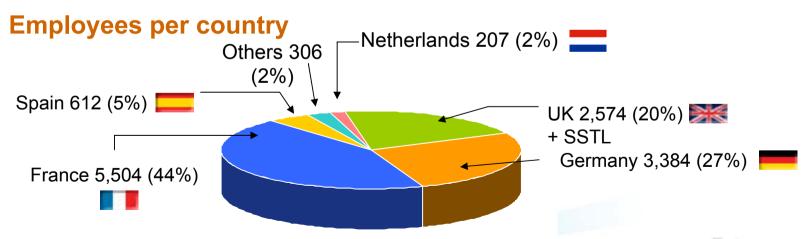
Employees: 12,587

€3.5 billion **Turnover:**

Order backlog: €12.9 billion

France, Germany, UK (including SSTL), E, Sites:

NL, Hungary, etc





ESA Members & Mandate



ESA's mandate:

For peaceful / civil purpose ESA is engaged in the following space domains

- Science and Research
- Technique and Infrastructure
- Utilization and application

Objectives of industrial policy

- geographical return (!)
- improvement of international competitiveness
- development of innovative space technologies

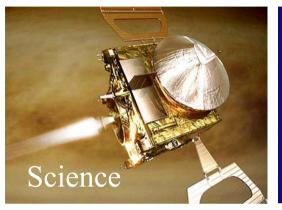
Rules for human resource policy within ESA:

- competence
- proportional balanced between member states



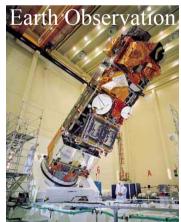


esa Programs:

















ESA Organization

Galileo u. Navigation

R. Oosterlinck

Director General

J.-J. Dordain

Program Directors

Earth observation

V. Liebig

Communication and integrated application

M. Vaissière

Manned Space

S. di Pippo

Launcher

A. Fabrizi

Support Directors

External relation & Law

Science & robotic

exploration

D. Southwood

P. Hulsroj

Resource-Management

L. Kronthaler

Technique and Quality Management

M. Courtois

Operation & Infratstructure

G. Winters



Council Delegate Level

Plenary Subordinate Bodies

SPC Science Program Committee

AFC Administration and Finance C.

IPC Industrial Policy Committee

THAG Technology Harmonisation Advisory Group

IRC International Relations C.

SEC Security Committee

ATB Agency's Technol. Transfer Board

Programme Boards

JCB Communication

PB-EO Earth Observation

PB-Lau Launcher

PB-NAV Navigation

PB-HME Human Spaceflight,

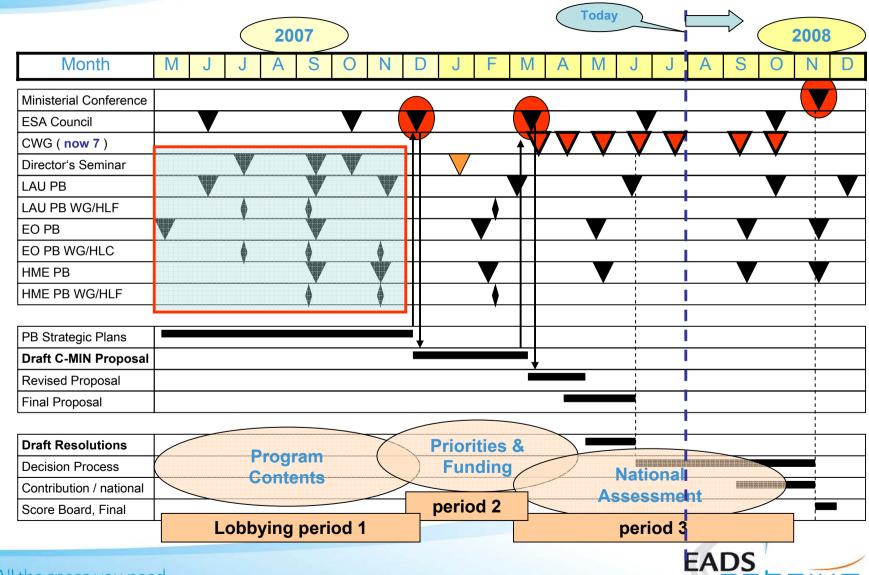
Microgravity & Exploration

Each member state sends representatives in all boards to ensure consideration of national interests

ESA C-Min 2008

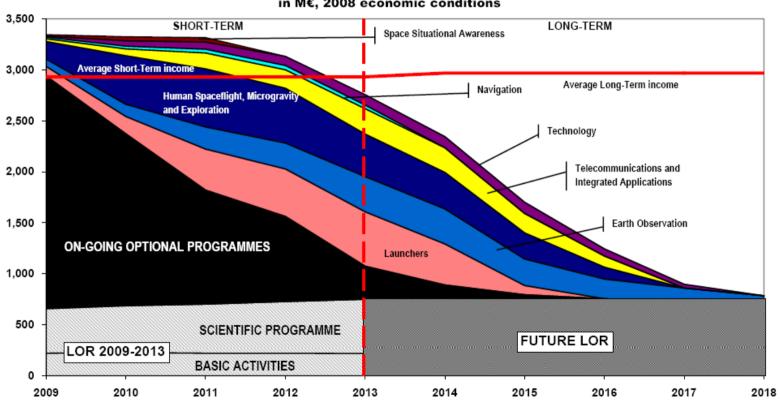


C-MIN 2008 Preparation Schedule



ESA Ministerial Council 2008

Proposed Overall Payment Appropriation Requirements and Average Income in M€, 2008 economic conditions





ESA	C-MIN Progr Prop. / M€
MAN	SCI, Science, mandatory, 5 %/y → ~426/y
	GB, General Budget, 2,5 %/y → ~ 204/y
LAU	LAU, CSG funding → ~ 82/y
	LAU, AR 5 ARTA → 720 total
	1. slice → 302 LAU, AR 5 Post ECA → 1550 total (?)
	Itau, AR 5 Post ECA → 1550 total (?) first period → 340
	LAU, VEPP Vega evo. → 90 (total 160)
	LAU, VERTA → 91 (total 226)
	, ,
	LAU, FLPP periode 2, step 2 → 110 (total 316)
EOP	EO, GMES segment 2 → 383 (total 987)
	EO, Meteosat MTG ph. C/D → 826 (was 1170)
	Compl Progr +G/S+Ops+launch → 3,1 B€
	EO, Climate Change CCI → 80 (total 170)
HME HSF	HSF, ISS Exploitation period 3 → 1612
	HSF, ISS ELIPS period 3 → 319
	HSF, ISS APAP (ATV prod. acc.) → 118
	HSF, CSTS → 140
	HSF, ISS Extension & Evo. → 165
HME SRE	SRE, Rob. Expl. Exomars → 626 on top
	SRE, Rob. Expl. MSR NET → 65
	SRE, Rob. Expl. Aurora Core → 100 (was 140)
TIA	ARTES, No. 10, ATM, phase 2 → 70 (was 195)
	ARTES, No. 07, EDRS → 170 (total 300)
	ARTES, No. 20, IAP → 70 (total 160)
	ARTES, core (1,3,4,5,8,11) → 124 (total 610)
GAL	NAV, EGEP, period 2 → 120 (was 150)
SSA	SSA → 270 planned / → 100 reduced
TEC	Technology, NewPro, GSTP → 223 (was 423)



Potential Participation of Czech Republic













Objectives of national interests:

- European Integration <u>AND</u> reflection of national interests
 - Geographical return
 - Personnel
 - National profiled participation
- Successful implementation of Galileo and GMES
 - Define profiled national contribution
- Ensure clear national profile within decisions of C-Min
 - Analyse and define participation in mandatory & optional programs
 - Secure budget participation and obtain shares in a.m. programs
 - Support R&D activities on national level with "National Space Plan & Budget"

