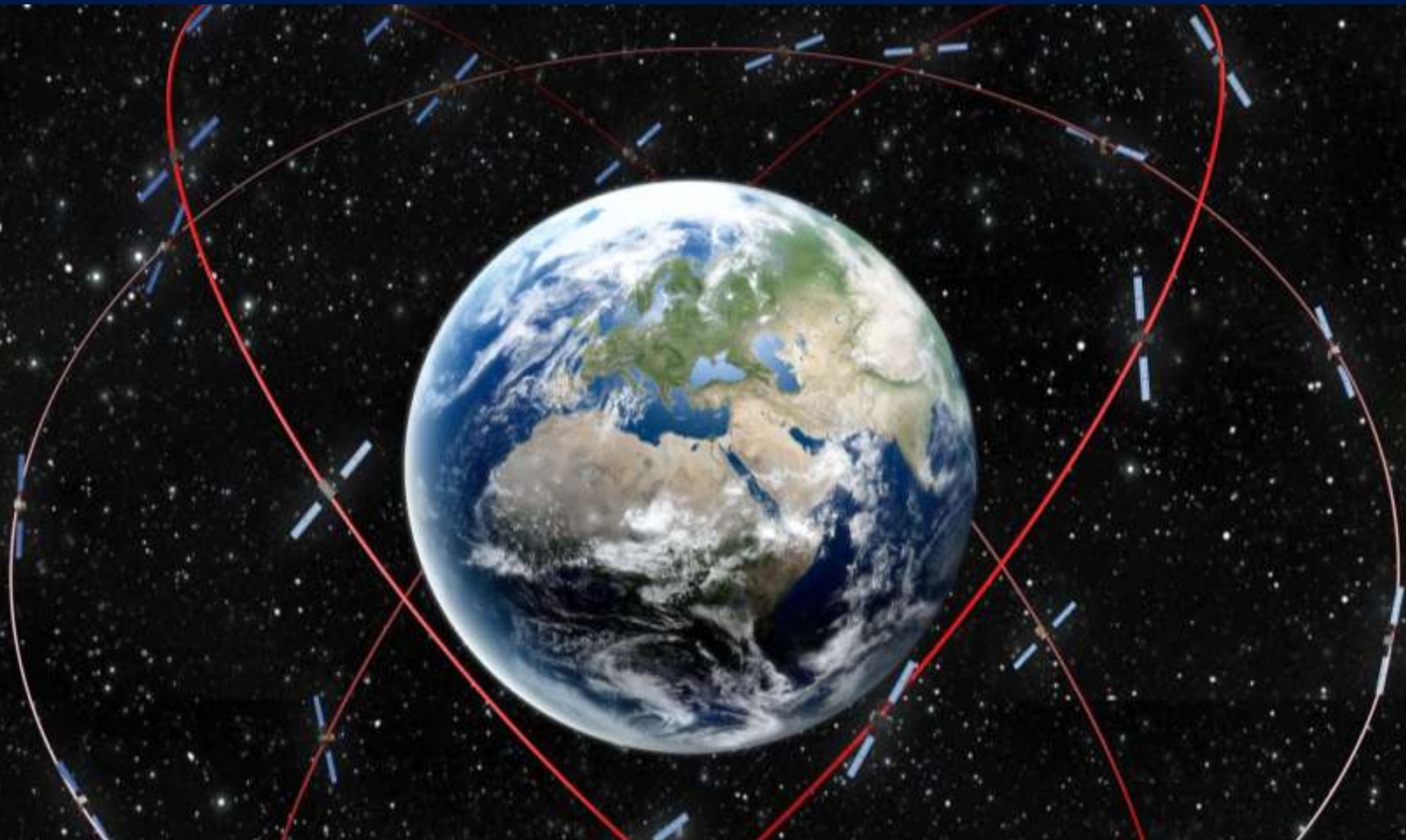
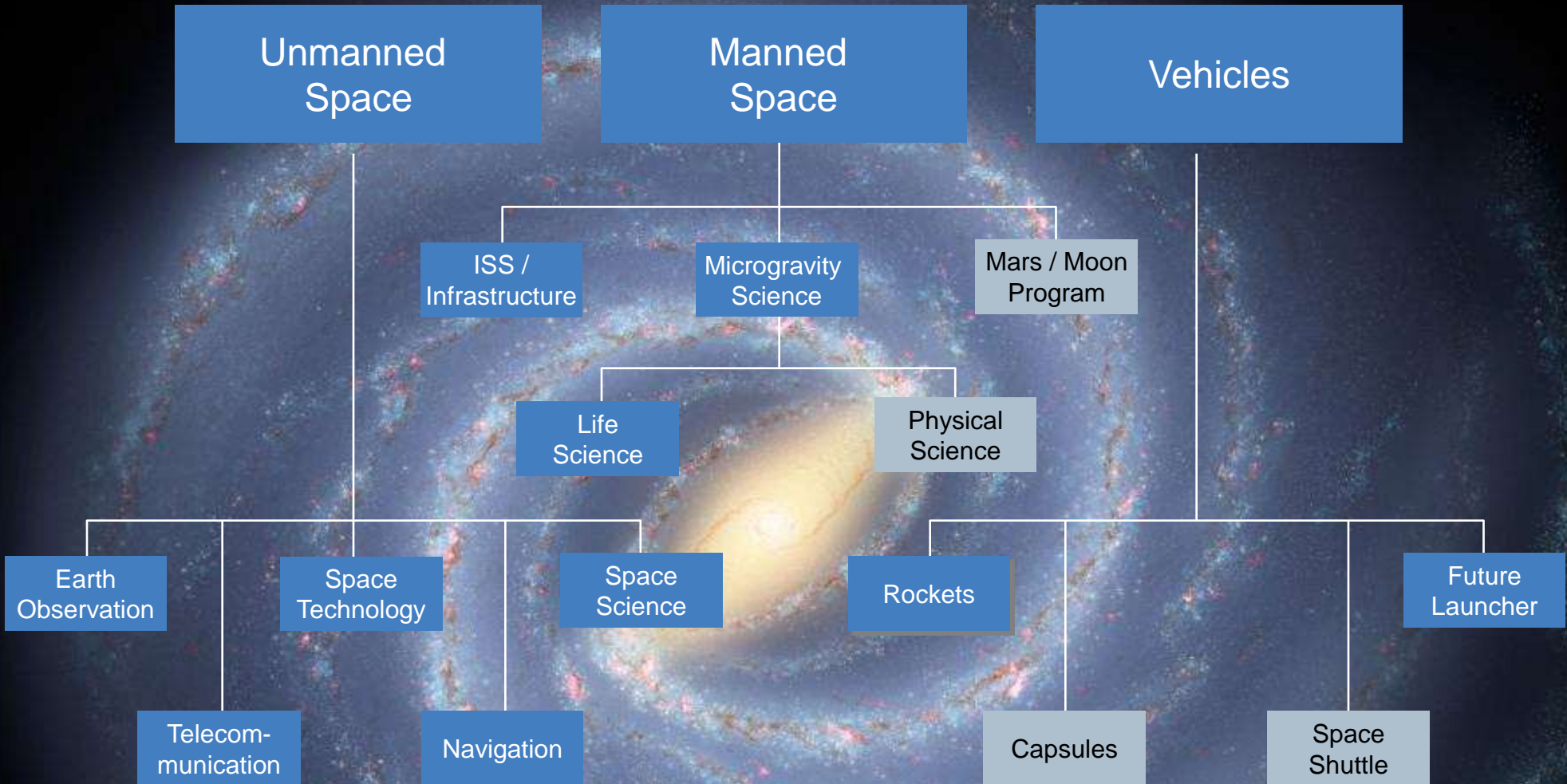


WELCOME TO OUR UNIVERSE





OH B – No. 3 in Europe

- Acquisition of Carlo Gavazzi Space and Antwerp Space strengthened the position of OH B in Europe
- OH B’s business is clearly focused on space
- OH B is involved in all major European space programs (e.g. Ariane 5, Galileo, MTG, Columbus/ISS, Small Geo, etc.)
- Additionally OH B concentrates on attractive markets (e.g. Small, Mini and Micro Satellites) and high-tech solutions

No. 3 in the European satellite manufacturer market

	(million)	2008
1 EADS Astrium		\$6.046
2 Thales Alenia Space		\$2.890
3 OH B Technology		\$440
4 Swedish Space Corp.		\$86

Source: Space News Top 50 (2009)



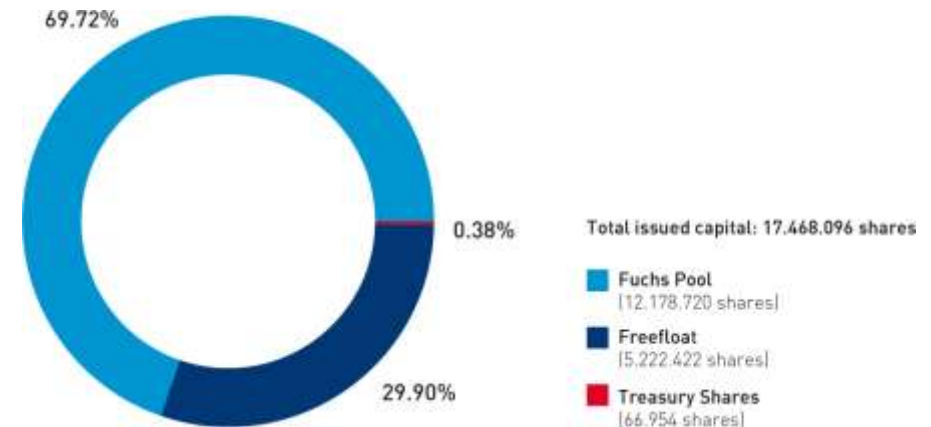
Christa Fuchs
Chairwomen of
the Supervisory
Board

Ulrich Schulz
COO

Marco Fuchs
CEO

**Prof. Manfred
Fuchs**
COO

**OHB Group is family run,
independent and flexible**



Space Systems

- Satellites, manned and unmanned space systems, space transportation/exploration
- Development and implementation of payloads, scientific devices and equipment for aerospace, science and the industry



Aerospace + Industrial Products

- Space products, aerospace products, antennas and mechatronics
- On-board computers, GIS software and worldwide satellite-based data communication

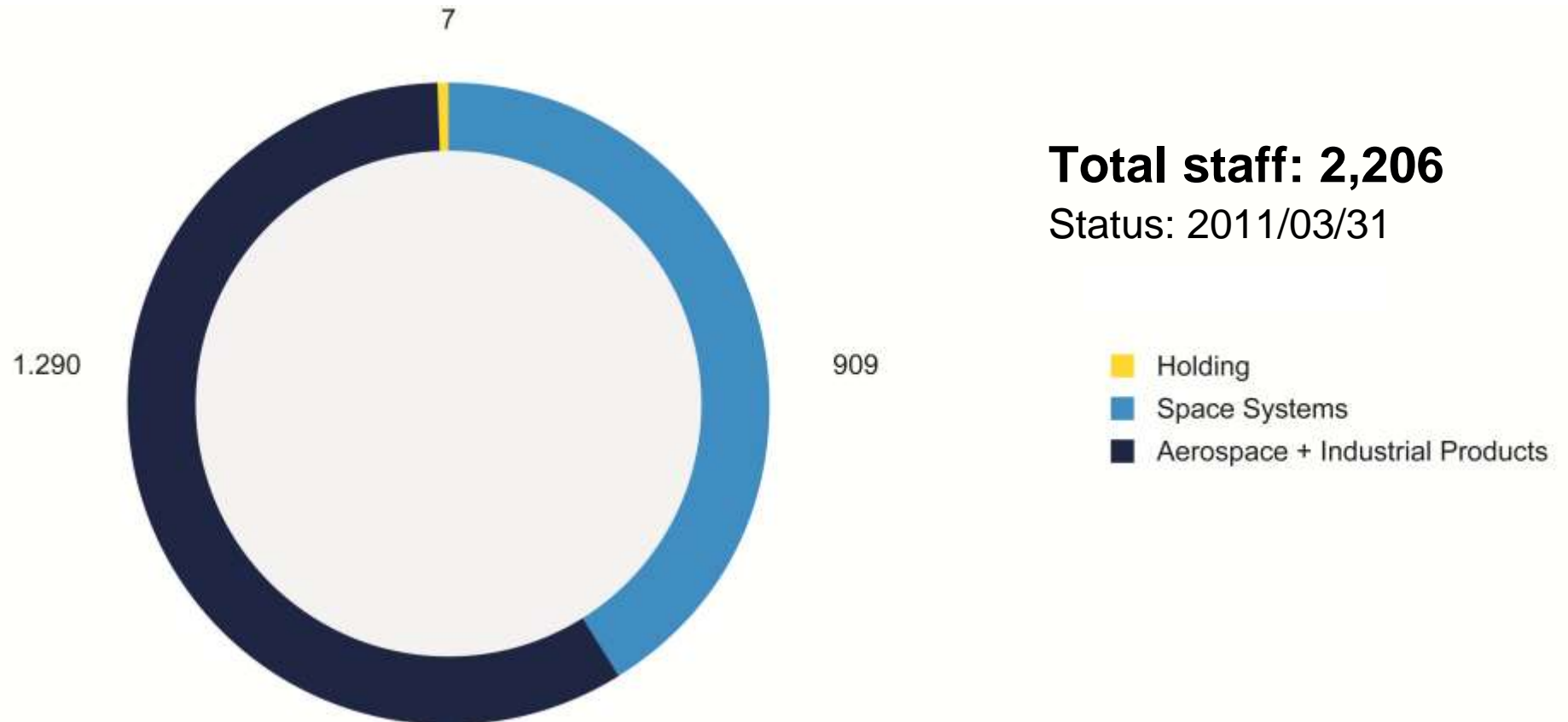


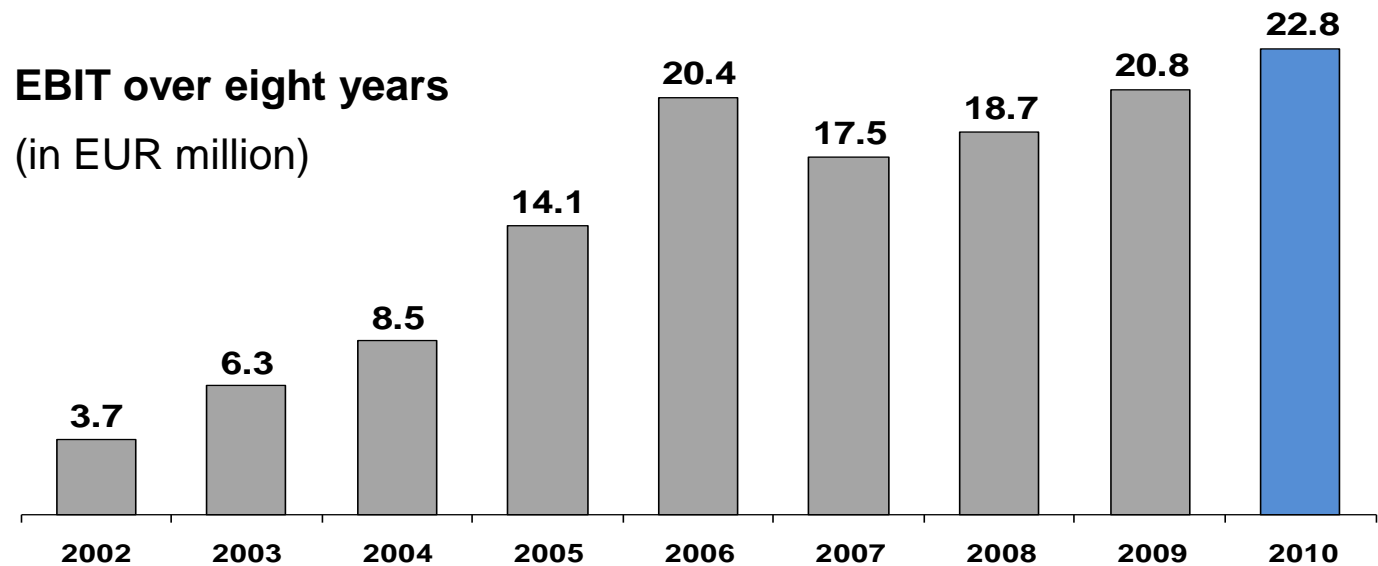
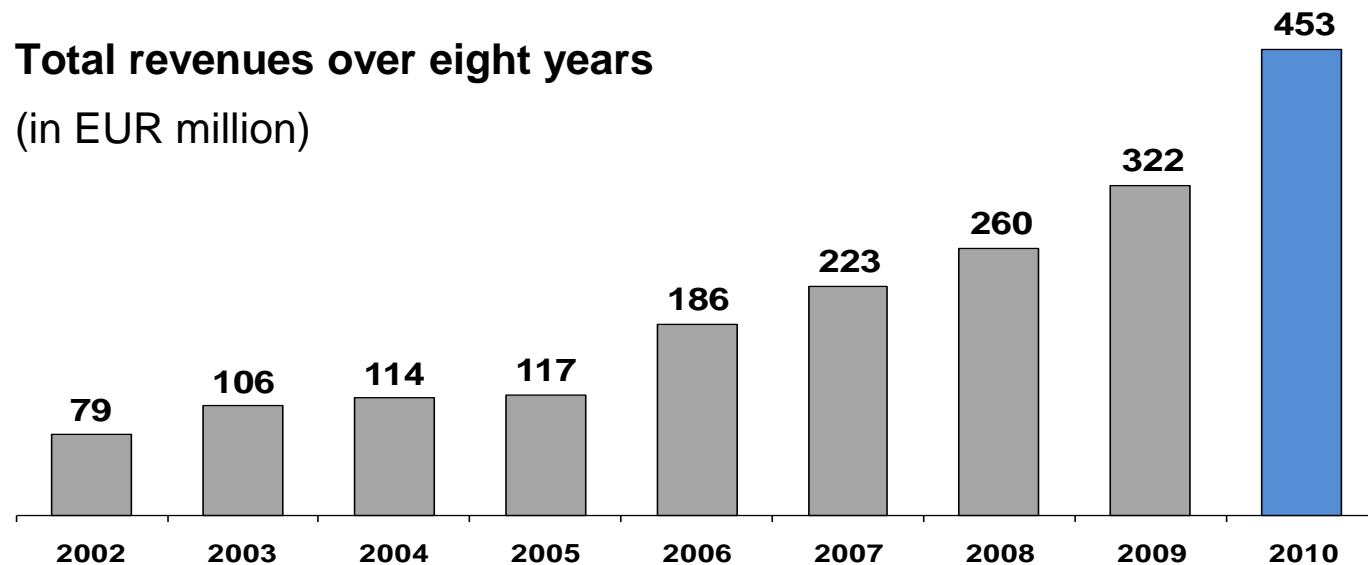
New OH B Group structure

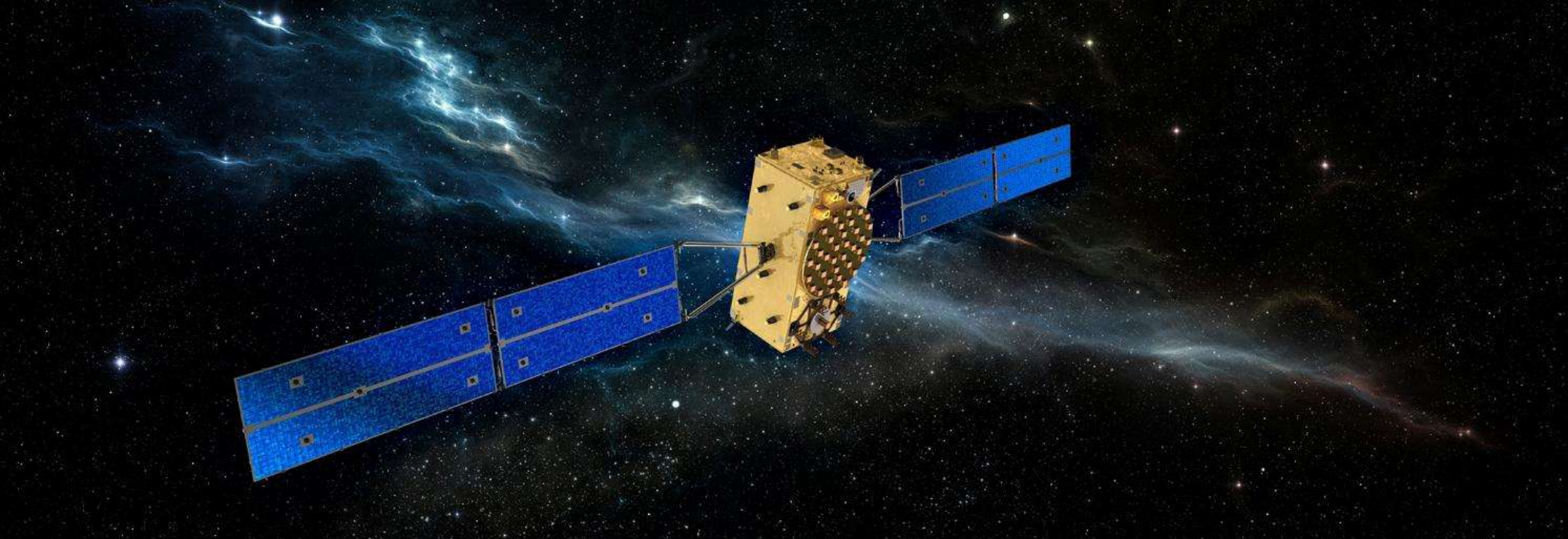
Space Systems	Aerospace + Industrial Products
<p>100% OH B System AG Bremen Germany</p>	<p>70% MT Aerospace AG Augsburg Germany</p>
<p>100% Kayser-Threde GmbH Munich Germany</p>	<p>70% Aerotech Peissenberg GmbH & Co.. KG Peissenberg, Germany</p>
<p>100% CGS S.p.A. Milan Italy</p>	<p>100% OH B Teledata GmbH Bremen Germany</p>
<p>100% LUXSPACE Sàrl Betzdorf Luxembourg</p>	<p>74,9% megatel GmbH Bremen Germany</p>
<p>100% Antwerp Space N.V. Antwerp Belgium</p>	<p>100% Telematic Solutions S.p.A. Milan Italy</p>
<p>100% OH B Sweden AB Stockholm Sweden</p>	

Total staff: 2,206

Status: 2011/03/31







PROJECT HIGHLIGHTS

SPACE SYSTEMS

Small GEO / HISPASAT

Small GEO

- Design & development of a cost-effective satellite platform for GEO applications, like
 - Communication, earth observation/meteo, scientific missions

HISPASAT

- Contract for development of “Hispasat AG1” signed in 2009
- Mission based on the new Small GEO platform will be launched end of 2013



SGEO for data relay applications (EDRS)

EDRS program

- ESA ARTES-7 program to serve the GMES earth
- Observation satellites for data downlink via GEO data relay
- SGEO satellite optimized for data relay functions

Status

- Authorization to Proceed was signed on April 13, 2011 (EUR 7.4 million)
- Order volume for OH B: EUR 150 million
- Launch planned in 2015



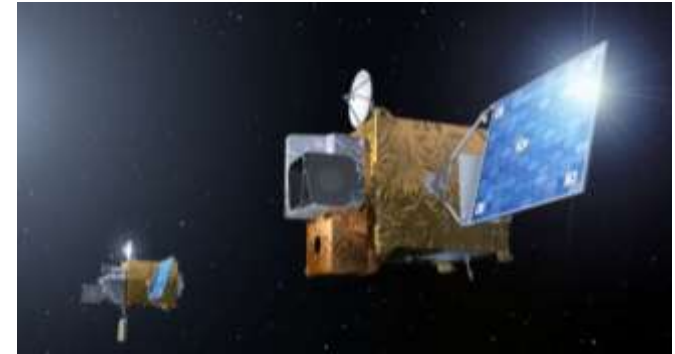
METEOSAT Third Generation (MTG)

ESA/EUMETSAT program

- Constellation of 6 satellites in geostationary orbit
- 2 MTG-S satellites with an infrared sounding instrument (IRS) for cloud and rain forecast improvement and further payloads, OHB-System MTG-S mission prime, Kayser-Threde is payload prime, first launch in 2019
- OHB-System is also prime for the 6 platforms, based on SGEO platform
- Expected OHB order volume EUR 750 million

Program status

- First contract (ATP) signed with Thales Alenia Space in November 2010
- Development and procurement activities already started



Galileo – European Satellite Navigation System

Program

- Contract signed for construction, testing and assembling of 14 satellites in January 2010
- Launch of the first two satellites planned for end of 2012, system should be operative in 2014
- Order volume: EUR 566 million



Program status

- First Hardware (Common Security Unit, CSU) in test phase
- Progress according to schedule
- All relevant suppliers and subcontractors are selected
- Build-up of the first structures (EM) started in April 2011



Future mission based on Small GEO platform

German telecom mission: Heinrich Hertz

- DLR program for in-orbit validation for innovative SatCom technologies based on COMED and SGEO
- Ka-Band and X-Band payload
- Utilization planned by German Bundeswehr
- Phase 1 study finished
- Program decision expected in 2011
- Launch planned in 2015



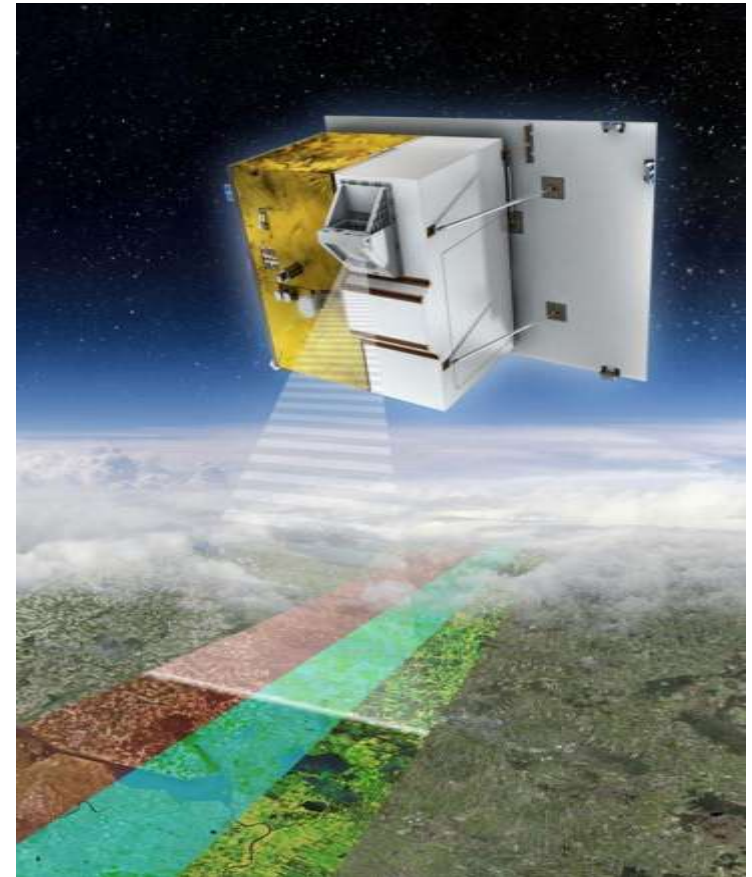
Project EnMAP – Hyperspectral Satellit

German hyperspectral EO-Mission

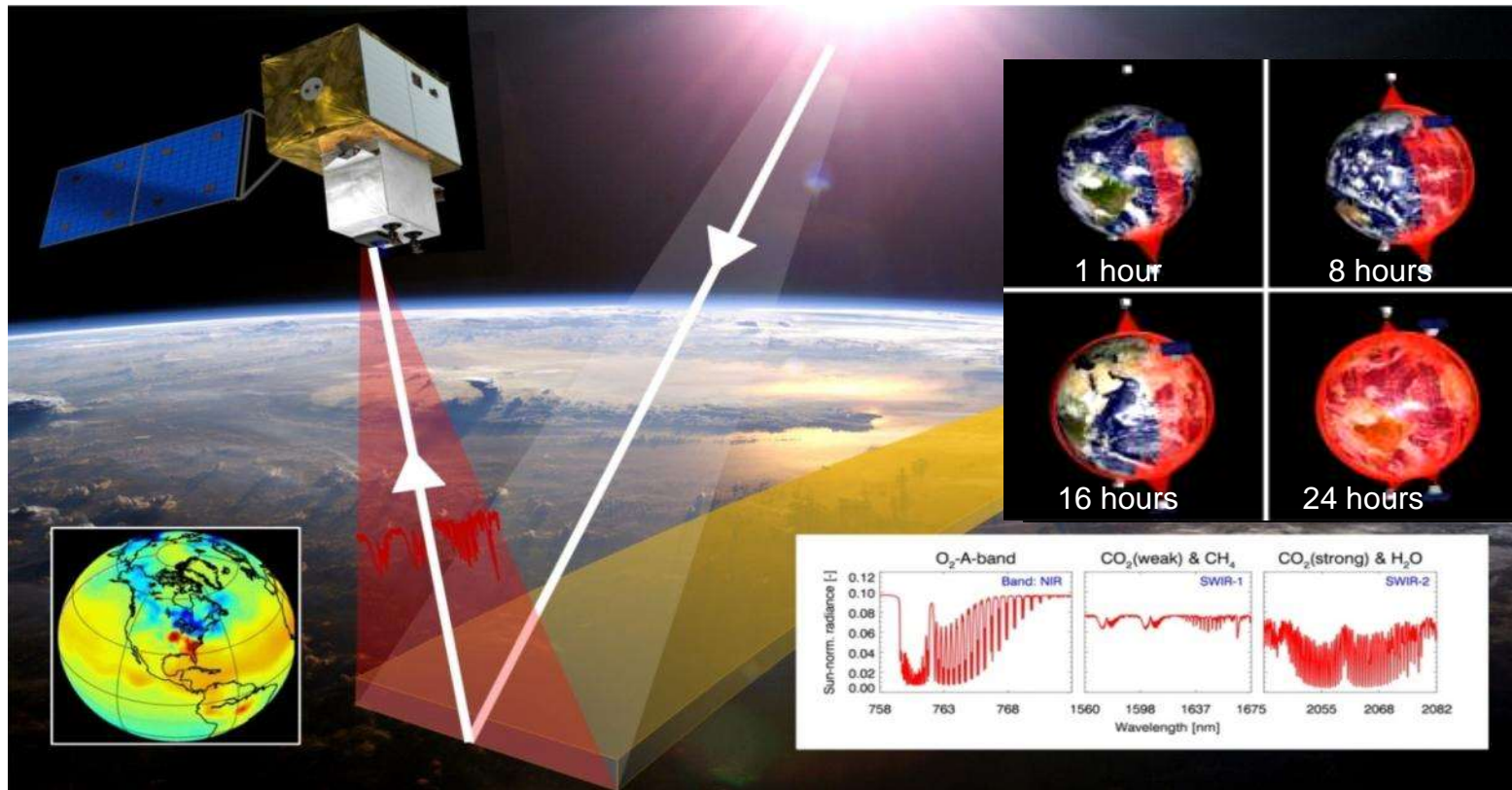
- Global determination of ecosystem parameters and bio-physical, bio-chemical and geo-chemical variables
- Potential for analysis after natural disaster and pollution of land and water
- Kayser-Threde (KT) is prime, OHB-System is co-prime for the platform
- Mass: 900kg; Power: 800W, X-band downlink: 320Mbps

Status

- Launch planned in 2014
- Mission duration : 5 years



CarbonSAT- constellation for coordinated CO₂ & Methane measurements from space



- 5 satellites will cover a complete global coverage per day
- Allows a transparent monitoring of the compliance of climate protection targets

SAR-Lupe follow on

- SAR Lupe: First German satellite-based radar reconnaissance system
 - 5 satellites and 1 ground station
 - Satellites and ground station fully operational since December 2007, all satellites in service since July 2008
 - 10 years operations service contract with the Bundeswehr until 2017
- Preparations for SAR-Lupe next generation competition
 - OH B has been selected for a concept study of SAR-Lupe follow on (BWB, BMVg)



Exomars - Spacecraft und Rover

OHB is responsible for the orbiter of the 2016 mission
(structure, thermal design und drive based on SGE0)

KT: significantly involvement of the payload of the rover (2018 mission)

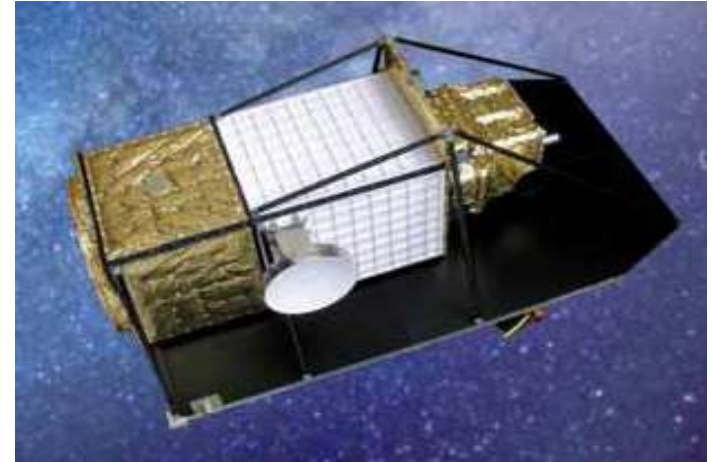


Rover (2018)



PRISMA (Precursor of Hyperspectral Application Mission)

- Earth remote sensing mission with unique hyperspectral payload
- Contract in December 2007
- Launch planned 2011/12
- Project volume EUR 69 million
- CGS is the prime contractor of the program
- PRISMA is proving the capability of CGS to act as a strong prime contractor





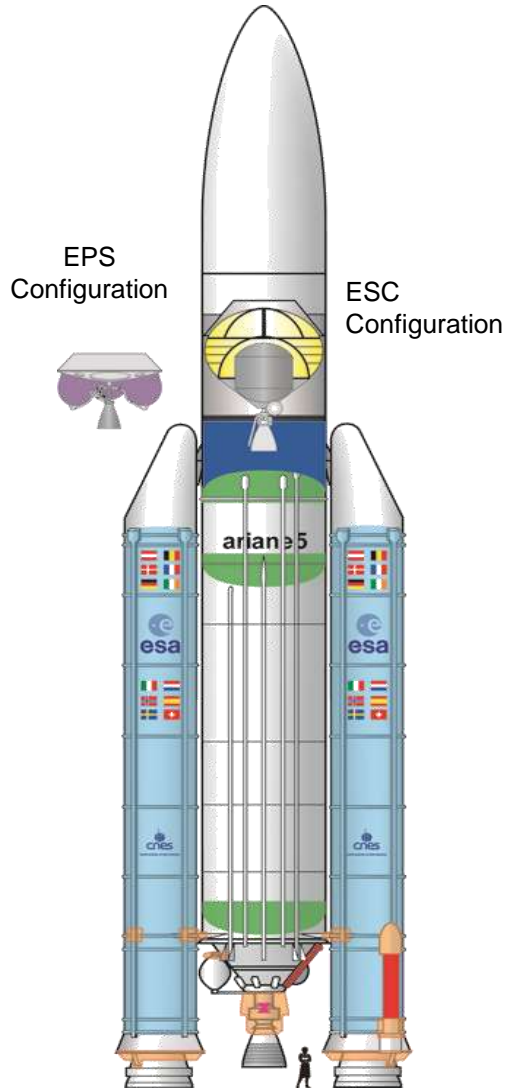
ESA-CNES-ARIANESPACE / Optique Vidéo du CSG - MARTIN



HIGHLIGHTS

AEROSPACE + INDUSTRIAL PRODUCTS

ARIANE 5



Booster Cases



Front Skirt



Bulkheads



ESC LH₂-Tank Comp.



EPS Tanks



Thermal Protection Comp.



Hydraulic Pressure Vessels



Cardan

- ▶ MT Aerospace manufactures 10% of the launcher hardware
- ▶ With a capacity of up to 8 launchers per year
- ▶ This is the largest contribution to ARIANE outside of France
- ▶ Production contracts to MT Aerospace comprise 35 ship sets

Products

MT Aerospace supplies

- Tanks and booster casings
- Satellite & orbital transfer system components
- Structures
- Ceramic matrix composites



Tanks and tank components



Ariane 5 - EPS Tanks for MMH and NTO



Ariane 5 - LH2 Tank Bulkheads

Aeronautic Products





OH B SWEDEN

OHB Group Strategy

- Core business is space
- Strategy is focussed on Europe with an opportunistic approach for opportunities outside Europe
- Presence in ESA member states is key to generate new programs
- Decentralized management allows multi-domestic approach
- Master key system capabilities in order to handle all kinds of space programs

OHB interest in „SSD“

- Well fitting in the vision of OHB to position as a leading supplier of space systems and technologies in Europe
- Excellent know-how in OHB's core business (space systems) where resources are scarce
- Access to Swedish geo-return helps to initiate future ESA programs
- SSD is present in key subsystems of SGEO which is a strategic program for OHB
- Formation Flying technology can be a key asset for future programs

OHB Sweden will play a key role in the future strategy of the OHB group

Future benefits of „SSD“ as OHB Sweden

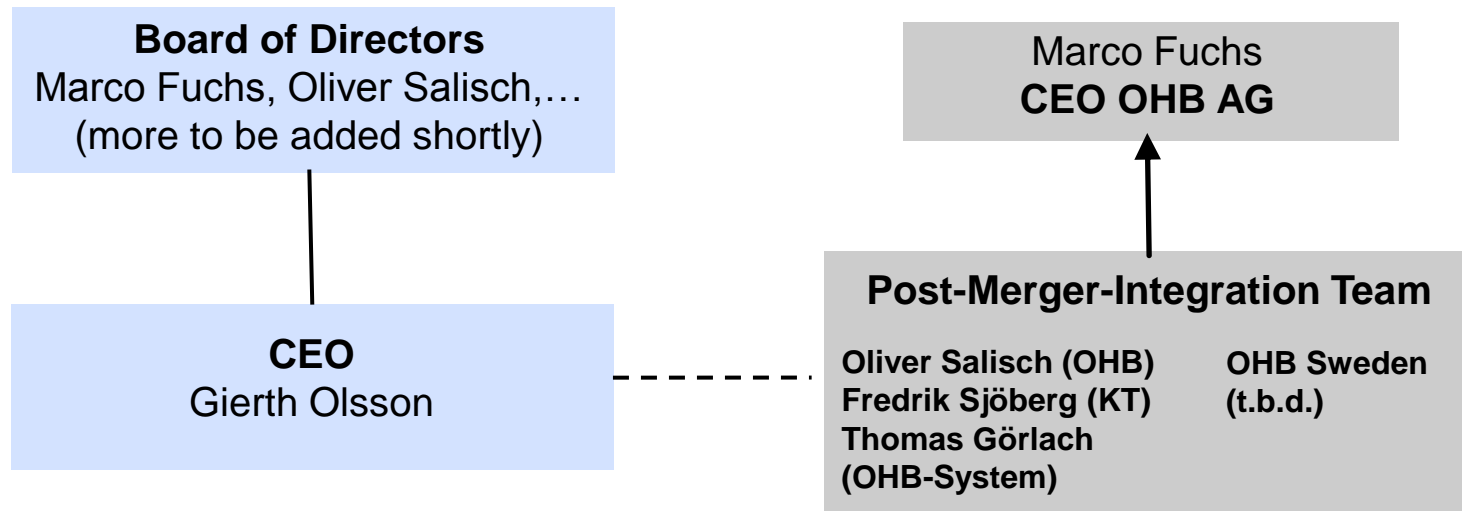
- Direct access to multi-national group mainly focused on system integration allowing to be more largely involved in new programs (science, exploration, EO, defence) from beginning or increase involvement in existing programs
- Growth strategy of OHB can benefit SSD
- Marketing power increase on European level through the group and/or sister companies
- Management responsibility at local level, low hierarchy, quick routes for decisions
- Only few technology overlaps (no risk of business reduction or know-how swap through synergies)
- Backing of a financially strong group

Future Role of OHB Sweden in the OHB group

- Together with the OHB group companies strengthen the position as one of the three big Primes in Europe
- OHB Sweden can become "The Smallsat Expert" in the OHB group
- Project managers and System engineering to strengthen and off load current OHB projects (MTG, Galileo, Heinrich Hertz etc)
- Co-operation with Kayser-Threde on Payloads (MTG, Sentinel-4, Post-EPS etc.)
- Promote and execute bilateral missions in cooperation between Germany/Belgium and Sweden



Organization



Role of the PMI-team:

- Secure short-term involvement of OHB Sweden in the running and upcoming programs of KT and OHB System
- Secure integration into the group processes on financial and administrative level
- Support to OHB Sweden in setting up stand-alone company



Mission Statement

We deliver Swedish Satellite Systems with the following core values:

- High content of reliable innovations
- Done by efficient and committed people
- Strengthened by the European Groups clout and knowledge



Products and Competences

- Continue strong developments on mission/system and subsystem level
 - Focus at complete small platforms
 - Focus on complete AOCS, Propulsion and Payload Subsystems

- To do this we need competences and capacities within
 - Electronics and Power
 - Software
 - Mechanics
 - Thermal
 - GST, TM/TC and RF
 - AIT



Markets and Customers

■ **Swedish National Space Board (SNSB)**

Together with OHB/DLR to promote bilateral missions with a strong interest from the Swedish User Community

■ **Other Swedish authorities (e.g. Armed Forces)**

To continue the close cooperation with educational and start-up activities at mission and system level and therefore naturally be part of the next implementation phase

■ **European Space Agency (ESA)**

To early participate in strong OHB consortia wherever Swedish return is available

In coordination with OHB/DLR promote new areas/programs towards SNSB/ESA

■ **Export Market – outside Europe**

OHB to guarantee and safeguard the delivery financially and programmatic and us to deliver state-of-the art small systems with a unique concept for Technology Transfer



Company Guidelines

Organization	→	Quick decision routes in focus
Human Resources	→	Humans in focus
Technology	→	Roadmaps in focus
New Business	→	Group Teaming in focus
Financials	→	Cash flow in focus
Processes /QA	→	Lean methods in focus
Admin / Facilities	→	Need to have in focus

OHB Sweden must be transformed from a division of a state-owned company to a modern, dynamic and flexible Swedish company



We shall become the most attractive company for engineers in Sweden

- Attractive and challenging Technology
- Excellent working environment
- Open and transparent organisation
- Rapidly moving and flexible
- Excellent career opportunities through European network of group companies



Comittment of the OHB group

- OHB Sweden will take over and keep all current SSD employees
- All contractually agreed benefits will remain unchanged
- All other benefits will be reviewed but probably be kept in the same or improved form
- Strong Support of the group during the transition phase



Next Steps

- Establish and communicate final organization (end of July)
- Rollout of new branding (immediately until end of the year)
- Establish necessary functions for new company (end of July)
- Establish business plan/roadmap for 2012/2013 (end of November)
- Secure integration into the group on project, financial and strategic level (ongoing)



Let's go for the future

OH B AG

Karl-Ferdinand-Braun Str. 8

28359 Bremen

Germany

