KEY FACTS & FIGURES 2012

INTRODUCTION

In 2012 ASD member associations were spread across

20 EUROPEAN COUNTRIES

17 of them in the EU plus Norway, Switzerland and Turkey.

Data for the aeronautics, land and naval defence sectors are sourced via a well-established process used for the collection of ASD *"Facts and Figures"*. In 2011, following the requests from several countries and with the consensus of all National Associations being members of ASD, a simplified questionnaire was put in place.

Concerning the space sector ASD-Eurospace has been running a specific survey for a number of years, the results of which have been incorporated into this publication.

ASD statistics include some figures from various publicly available sources but do not include the thousands of suppliers to the aeronautics, space and defence sectors throughout Europe, whose main interest is not one of these sectors. They neither include data related to the security sector whose perimeter has not yet been fully defined.

ASD
AeroSpace and Defence Industries Association of Europe

MAJOR TRENDS IN THE EUROPEAN ASD INDUSTRY IN 2012

The European aerospace and defence industries achieved a turnover of 186.8 billion euros, an increase of 9% in comparison with 2011 (171.5 billion euros), mainly pushed by civil aeronautics (+17 billion euros).

Methodological note: Year-to-year comparison cannot always be linear due to possible changes of perimeter by some companies / National Associations occurring in the year that can affect significantly national figures. In 2012 changes are assumed to be marginal.

1.1 AEROSPACE AND DEFENCE INDUSTRIES KEY CHARACTERISTICS FOR THE YEAR 2012

51% Military

49% Civil

TURNOVER 186.8 BILLION EUROS

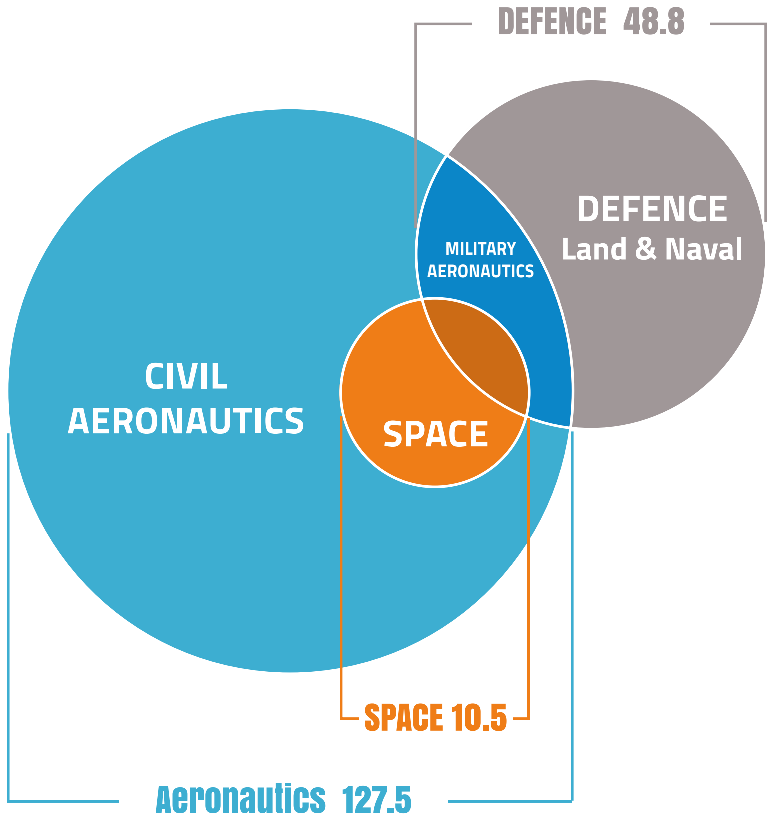
- **Direct employment** .... 752,500 employees
  - **Of which aerospace** 498,200
- **R&D expenditure** .... 17.6 Billion euros
  - **Of which aerospace** 14.6

Compared to 2011 data, aggregated figures for the European aerospace and defence sectors show the following results:

- **Military** turnover for all sectors stands at 96 billion euros, showing an overall increase of 3% but a 12% decrease in Land Defence.
- **Civil aeronautics** turnover shows an important increase with a turnover amounting to 81 billion euros in 2012, compared to 70 billion euros in 2011.
- **The unconsolidated aeronautics** turnover level represents 127.5 billion euros, whilst its consolidated figure represents approximately 50% of it.
- **R&D for civil and military aeronautics** reaches the level of 14.6 billion euros or 11,5% of the revenues and shows a slight decrease in comparison with the previous year (12,4% in 2011); its breakdown is assumed to be stable with nearly 60% of the revenues coming from civil and of which more than 80% is financed by companies.
- **Defence** (land and naval) turnover show a slight decrease whilst Space revenues indicate a growth of 6% over 2011.
- **Defence R&D** is assumed to size 3 billion euros.

1.2 SYNOPTIC CHART OF ALL ASD SECTORS

SALES IN BILLION EUROS



OVERALL, ASD

CIVIL ACTIVITIES amount to **€90.8 BILLION**

MILITARY ACTIVITIES amount to **€96 BILLION**

1.3 ASD SECTOR TURNOVER BREAKDOWN 2007 - 2012

IN BILLION EUROS

	TOTAL AEROSPACE AND DEFENCE	AERONAUTICS (CIVIL + MILITARY)	SPACE	DEFENCE LAND & NAVAL
2007	133.2	94.5	8.6	29.1
2008	139	97.3	7.4	34.3
2009	155	100.4	8.8	45.5
2010	163	106.6	9.4	46.8
2011	171.5	112.4	9.8	49.3
2012	**186.8**	**127.5**	**10.5**	**48.8**

1.4 AEROSPACE AND DEFENCE INDUSTRY EMPLOYMENT BETWEEN 2007 AND 2012

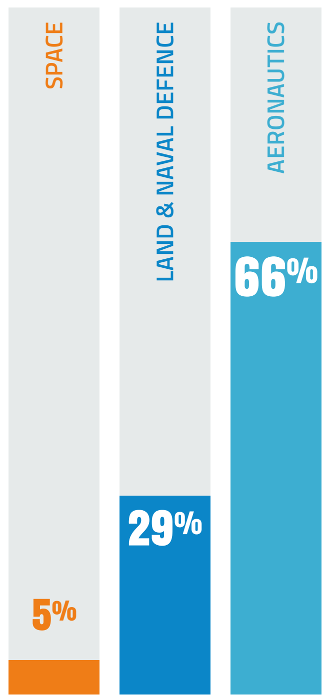
EMPLOYEES ('000)

Employment in ASD industries reached 752,500 in 2012, which represents an important increase compared to 2011.

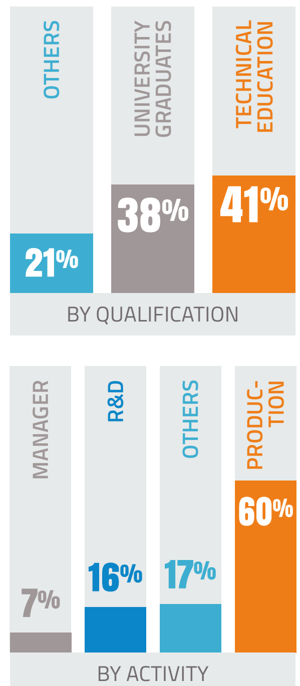
STRONGEST INCREASE 2011-2012

+ 4,9% civil aeronautics

1.5 AEROSPACE AND DEFENCE 2012 EMPLOYMENT BREAKDOWN



1.6 AEROSPACE AND DEFENCE 2012 EMPLOYMENT BREAKDOWN BY QUALIFICATION AND ACTIVITY

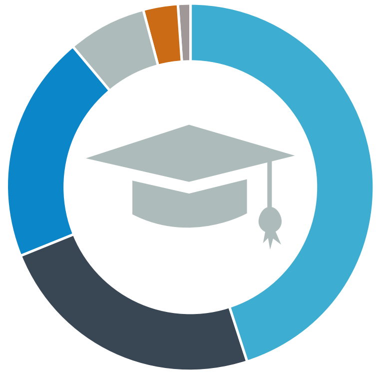


SPACE

Space industry data are excerpts from the ASD-EUROSPACE Facts & Figures annual survey report. **More information is available on www.eurospace.org**.

MAIN INDUSTRY FACTS	2011	2012	VARIATION
DIRECT INDUSTRY EMPLOYMENT	35,144	35,679	1,5%
FINAL SALES (M€)	6.375	6.555	2,8%

2.3 SPACE 2012 EMPLOYMENT BREAKDOWN BY QUALIFICATION



- 45% UNIVERSITY (4-5 years and up)
- 24% UNIVERSITY (up to 3 years)
- 20% HIGHER VOCATIONAL SCHOOL
- 7% VOCATIONAL SCHOOL
- 3% APPRENTICESHIP
- 1% GENERAL SCHOOL ONLY

2.1 SPACE 2012 FINAL SALES

BILLION EUROS

	CIVIL	MILITARY	TOTAL CIVIL + MILITARY
SALES TO EUROPEAN FINAL CUSTOMERS	5.00	0.28	5.28
SALES TO EUROPEAN INDUSTRIES	3.59	0.34	3.93
EXPORT OUT OF EUROPE	1.23	0.10	1.33

2.2 SPACE 2012 FINAL SALES BY PRODUCT

BILLION EUROS ▪ TOTAL CIVIL + MILITARY

TOTAL	6.56
SATELLITE APPLICATIONS SYSTEMS	3.39
LAUNCHER SYSTEMS	1.31
SCIENTIFIC SYSTEMS (incl. ISS activities)	1.09
ENGINEERING AND SERVICES	0.44
GROUND SYSTEMS	0.29
UNKNOWN	0.04

2.4 EUROPEAN SPACE SECTOR

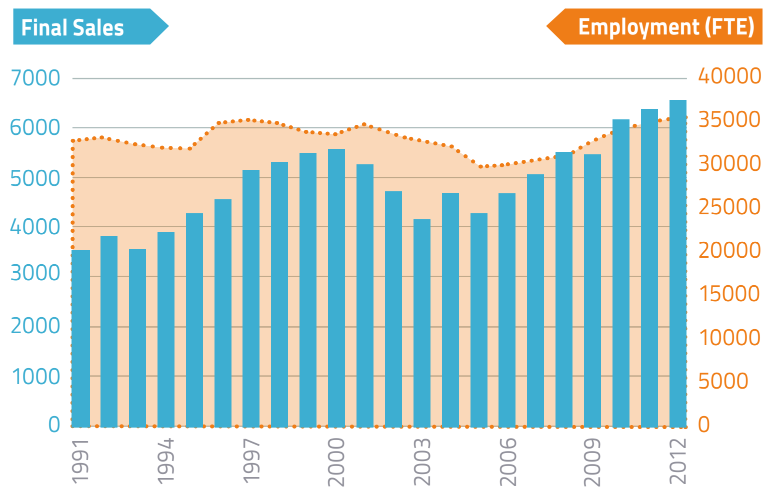
The European space manufacturing industry is a niche strategic sector, embedded in the wider European AeroSpace and Defence industrial complex.

Industry is distributed across all Europe, with the main industrial sites located in France, Germany, Italy and, to a lesser extent, United Kingdom, Spain and Belgium. In 2012 the space manufacturing industry experienced a slight growth of final sales supporting continued direct employment growth, i.e. an increase of 2,8%.

The core of space manufacturing activity lies in the **design, development and manufacturing of satellites** for operational applications such as telecommunications systems and parts, Earth observation systems and parts and navigation/localisation systems and parts.

The second area of business is **launchers**. Launcher activities include operational launch systems sales (mainly to Arianespace) and **development and consolidation activities** in support of the Ariane and Vega systems.

SALES (B€) AND EMPLOYMENT (FTE) IN THE SPACE MANUFACTURING INDUSTRY (EUROPE)

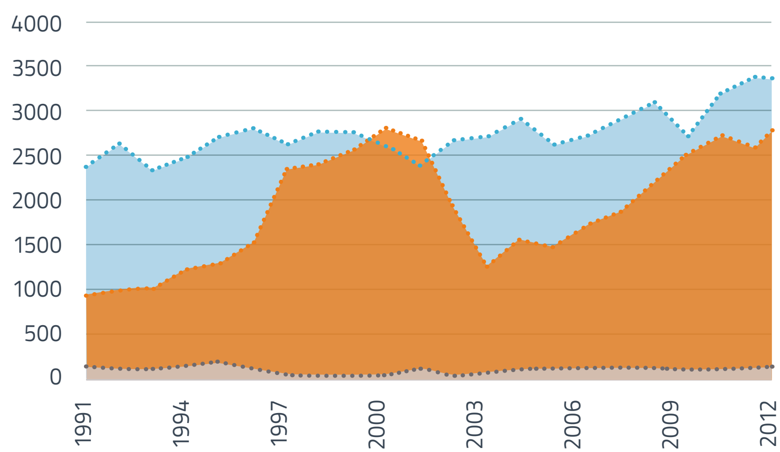


2.5 INSTITUTIONAL AND COMMERCIAL MARKETS

The European space industry has access to two main markets: an institutional domestic market, with a civil and military component, and a market for commercial and export customers.

Exports also include sales to institutional customers outside Europe, such as space agencies in emerging countries (South Korea, Algeria). The commercial and exports markets include a wide variety of customers.

SALES BY MAIN CUSTOMER (B€)



OVERVIEW OF EUROPEAN AEROSPACE AND DEFENCE
KEY FIGURES FROM 2008 TO 2012

3.1 AEROSPACE & DEFENCE SALES BY PRODUCT GROUP

BILLION EUROS

	ALL	AERONAUTICS	CIVIL AERONAUTICS	MILITARY AERONAUTICS	DEFENCE LAND & NAVAL	SPACE
2008	139	97	59	39	34	7
2009	155	100	59	41	46	9
2010	163	107	60	47	47	9
2011	171.5	112.4	69.8	42.6	49.3	9.8
2012	**187**	**128**	**81**	**46**	**49**	**11**

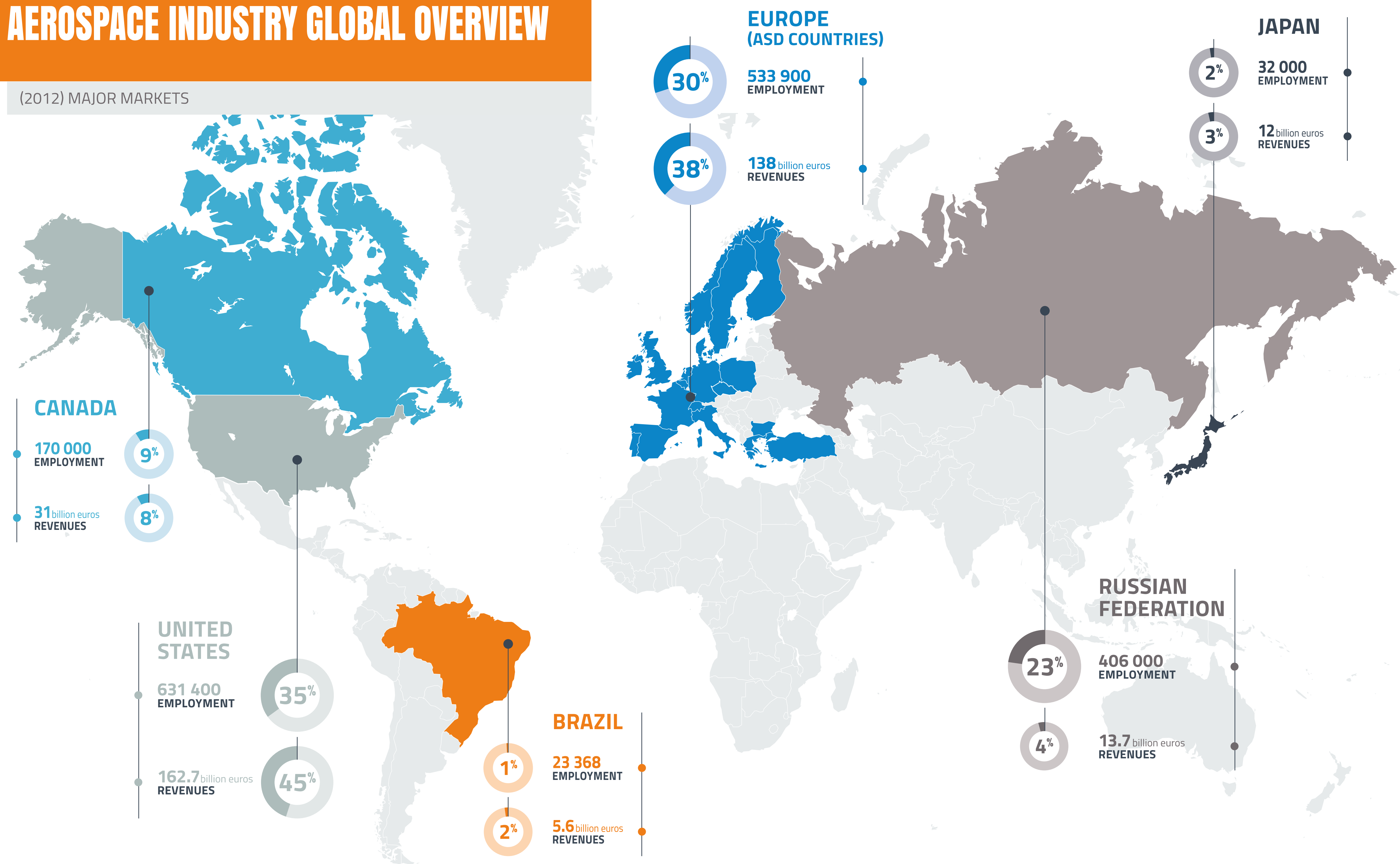
3.2 AEROSPACE & DEFENCE EMPLOYMENT

EMPLOYEES ('000)

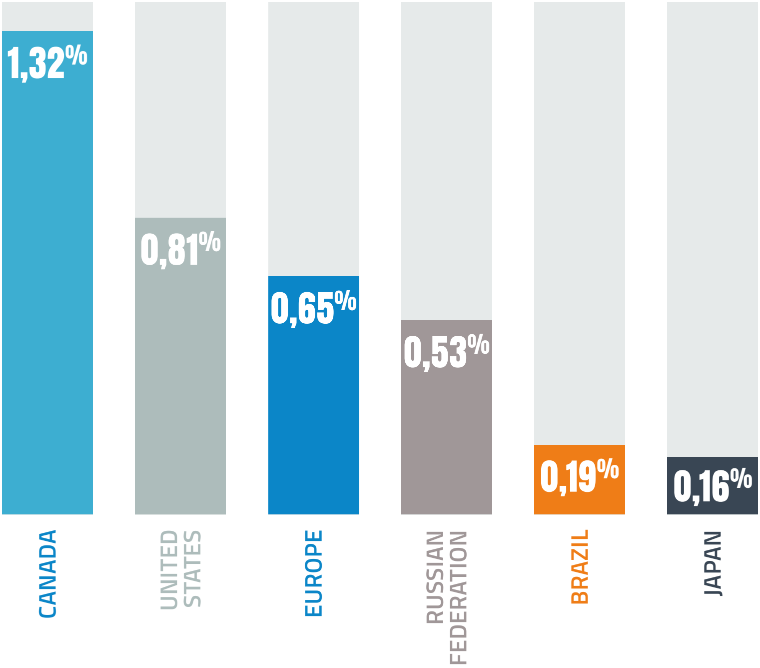
	TOTAL EMPLOYMENT	AERONAUTICS	DEFENCE	SPACE
2008	696	480.2	180.9	34.8
2009	681	458.3	192	30.6
2010	704.9	458.7	211.9	34.3
2011	733.7	479.6	219.0	35.1
2012	**752.5**	**498.2**	**218.5**	**35.7**

AEROSPACE INDUSTRY GLOBAL OVERVIEW

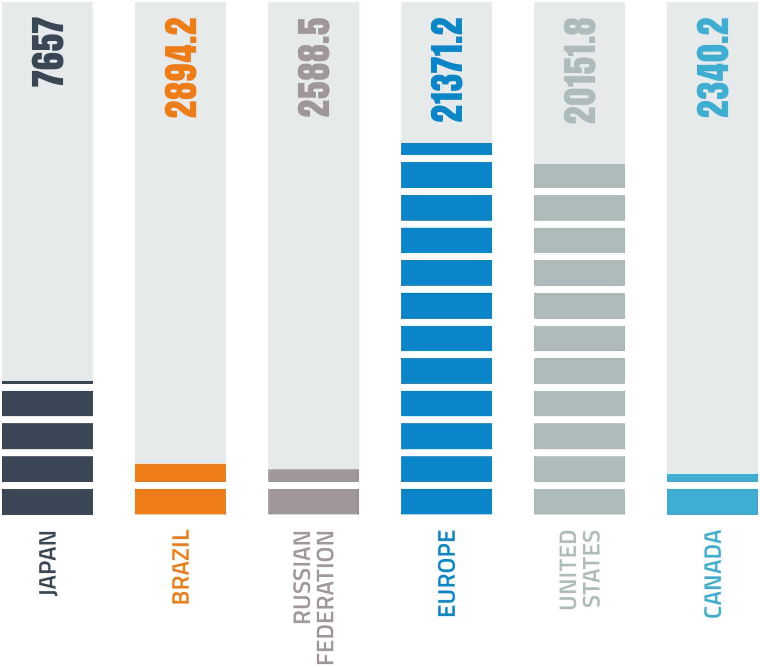
(2012) MAJOR MARKETS



PERCENTAGE OF AEROSPACE INDUSTRY IN GROSS DOMESTIC PRODUCT



GROSS DOMESTIC PRODUCT - IN EUROS ('000,000,000)



Note: ASD extrapolation from open sources

CONTRIBUTION

The ASD Facts and Figures 2012 result from the contribution of the National Associations which are members of ASD, with ASD as coordinator. Process coordination and data analysis were performed by Fabrizio Braghini, Chairman of ASD Data Analysis Committee and Pierre Lionnet, ASD-Eurospace Research Director for the Space chapter.

Editor: ASD Communication and Information Team.

ABOUT ASD

The AeroSpace and Defence Industries Association of Europe (ASD) represents the aeronautics, space, security and defence industries in Europe. It raises awareness and promotes the values of its members to the European institutions. The essence of the Association is to provide a single platform for the development of joint positions for the industries it represents.

Located in the heart of Brussels, ASD's membership today comprises 16 major European aerospace and defence companies and 27 member associations in 20 countries: Austria, Belgium, Bulgaria, the Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey and the UK.

ASD
AeroSpace and Defence Industries Association of Europe

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