

Intellectual Capital and Expertise Management



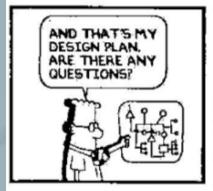
Dr. Jean Botti – EADS Chief Technical Officer

The World Conference on Intellectual Capital for Communities May 22-23, 2008; World Bank Office, Paris



What does Dilbert tell us about Patents?



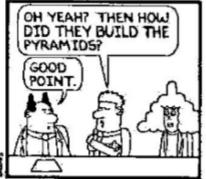
















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Who we are

How we manage our intellectual capital

Human Resources – EADS' experts policy

EADS Hall of Fame





The EADS Chief Technical Officer (CTO)

FinanceHans Peter Ring

Marketing, Strategy & Global Development Marwan Lahoud

Chief Technical Officer Jean Botti EADS North America Ralph Crosby Jr. Human Resources Jussi Itävuori

Rüdiger Grube

Chairman of the Board of Directors

Louis Gallois

Chief Executive Officer



Airbus

Tom Enders



Military Transport Aircraft

Carlos Suárez



Eurocopter

Lutz Bertling



Astrium

François Auque

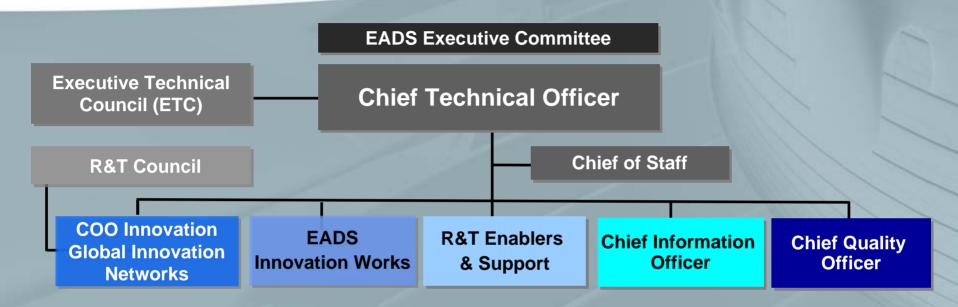


Defence & Security Systems

Stefan Zoller



EADS Corporate Technical Office - Organization



CTO Accountabilities:

The EADS R&T Strategy
The EADS R&T Operative Plan
The EADS R&T Annual Budget
Independent Technical Assessments



Who we are

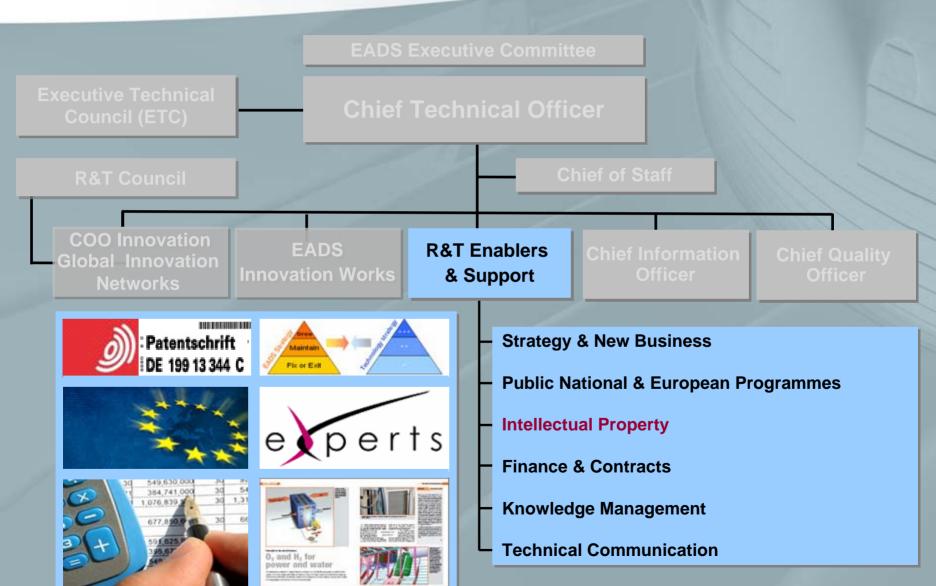
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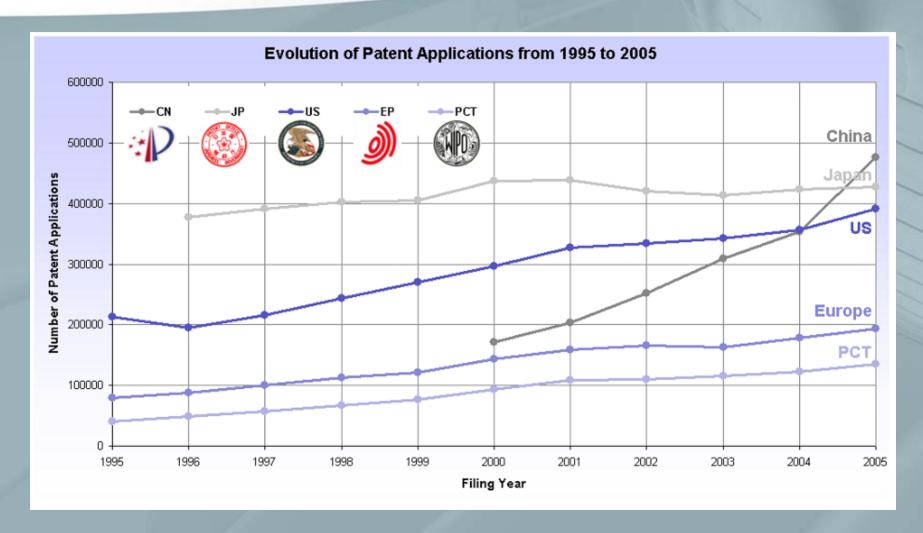


EADS Corporate Technical Office - Organization



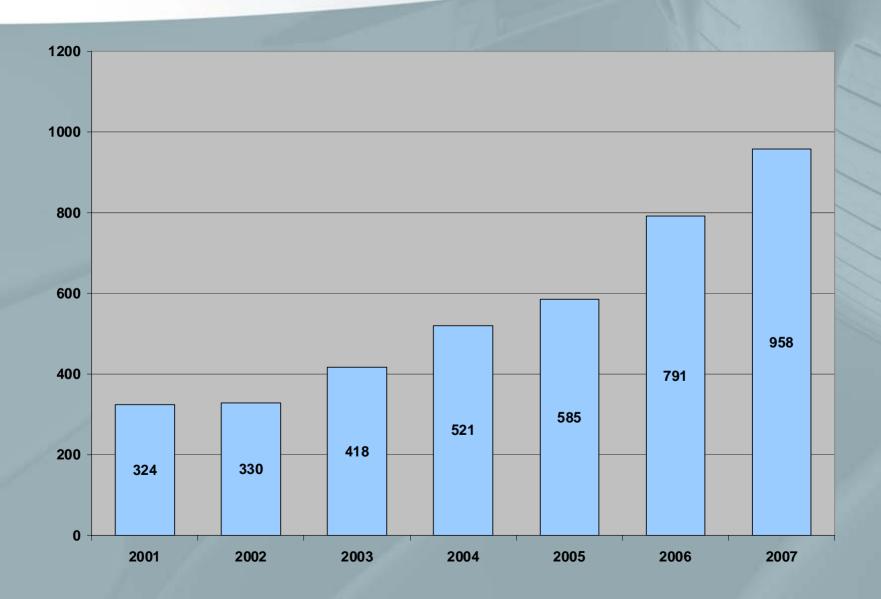


Patent Filings at the 'Big 5' Patent Offices



Since 2005, the biggest patent office in the world is in China!

EADS First Filings





Aerospace & Defense Patent Scorecard in 'The Wall Street Journal'

Patent Board™

EADS is moving up: from 9th (Apr '07) to 4th position in 2008. More to come in 2008!

strenoth!

60.6 58.5

54,9 41,1 Company/concorn

Lockheed Martin

General Electric Raytheon

Northrop Grum

Part IllowysanoH

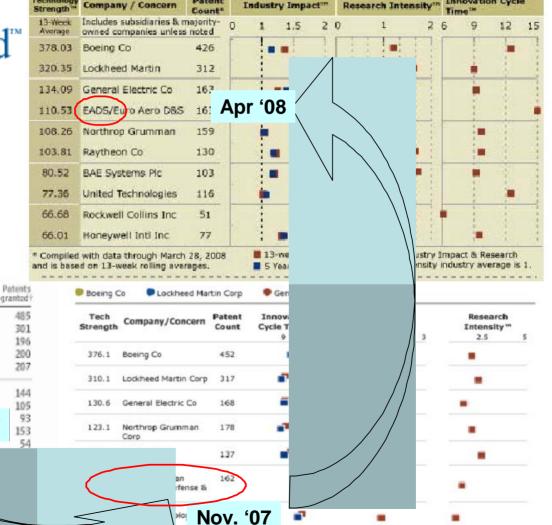
United Technologies

ell Comins

Boeing

BA

LMT





Global Players – PCT applications as an Indicator for the Globalisation of Patent Protection

2007 Ranking	Position Changed	Applicant's Name	Country of Origin	PCT Applications Published in 2007	Increased over 2006
1	1	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.	JP	2100	-244
2	-1	KONINKLIJKE PHILIPS ELECTRONICS N.V.	NL	2041	-454
3	0	SIEMENS AKTIENGESELLSCHAFT	DE	1644	164
4	9	HUAWEI TECHNOLOGIES CO., LTD.	CN	1365	790
5	0	ROBERT BOSCH GMBH	DE	1146	184
6	2	TOYOTA JIDOSHA KABUSHIKI KAISHA	JP	997	293
7	5	QUALCOMM INCORPORATED	us	974	366
8	38	MICROSOFT CORPORATION	ļus	845	603
9	1	MOTOROLA, INC.	us	824	187
281	8	BSH BOSCH UND SIEMENS HAUSGERÄTE GMBH	IDE !	I 398	116
		EADS Group (including Airbus)	i	386	171
29	-	FUJIFILM CORPORATION	ļЈР	372	372
30		THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	us	364	-52
31	52	SONY ERICSSON MOBILE COMMUNICATIONS AB	SE	360	211
			i		
66	-42	DAIMLERCHRYSLER AG	DE	200	-251
70	2974	ALCATEL LUCENT	FR	182	182
i			i	i	
72	6	THE BOEING COMPANY	US	181	23



Glossary: The PCT provides an international system for filing patent applications. The PCT procedure consists of an international phase followed by a national or regional phase. In the national (or regional) phase, the applicant requests national processing of the PCT international application, pays additional fees and initiates the national search, examination and granting procedure. PCT international applications lead only to a national patent grant – there is no international patent.



History Tells Lessons about IP Protection





<u>GM</u>

新京报

索赔8000万

人剽窃说,称QQ为公司自主设计

適用大字公司请求信息 判令員期公司公开期礼證 數、聯發營計劃失人说币 7500 万元。并承担排阿费和 调查费用 500 万元、投收销 售 QQ 车的所有等结收人。 到今上海输送公司交即停止 销售 QQ 车的行为。

奇瑞非外观为自主 设计,不存在便权可能

即日,有关媒体就此事 采访奇瑙汽车有限公司总部 时,一位工作人员新然市从 奇瑙 QQ"数份说"。她说奇 细 QQ 就然从外形上看与 大字公司的 Spark 非常提 近。但这个外观是由奇瑙公 可自主设计的。而且作为代 车的核石能界发动机会员和



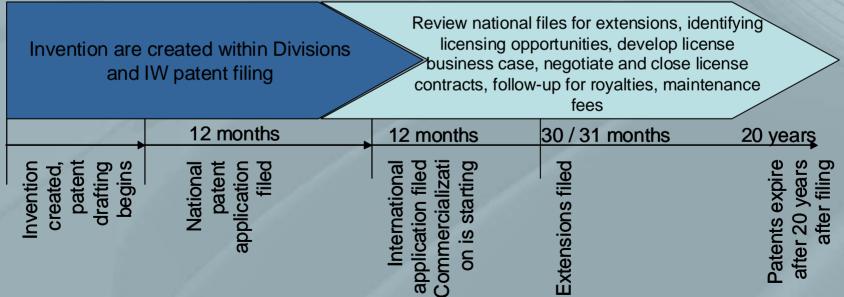






How to Build and Exploit a Patent Portfolio

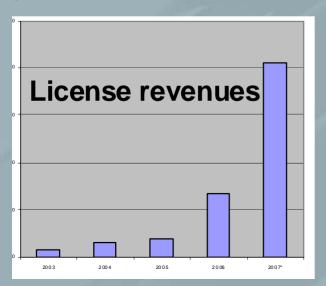




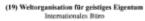


Exploitation Example: 'Green Technology'

- License granted to matrix material manufacturer
- Wind turbine manufacturer asked for a license to produce wind turbine blades
- Technology developed for aircraft components in carbon-fibre composites
- By technology transfer, EADS is actively supporting ecological energy generation.



(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF I PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMEL







(43) Internationales Veröffentlichungsdatum 20. September 2001 (20.09.2001) PC

(10) Internationale Veröffentlichungsnummer WO 01/68353 A1

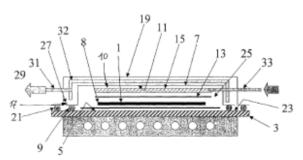
- (51) Internationale Patentklassifikation[†]:
- (21) Internationales Akteuzeichen: PCDEP01/027
- (22) Internationales Anneldedatum: 13. Maire 2001 (13.03.2001)
- (25) Einreichungssprache:
- (26) Veröffentlichungssproche: Deutsch
- (30) Angaben zur Priorität: 100 13 409.2 | 17. März 2000 (17.03.2000) | DE
- (71) Annelder (für alle Bertinmangestasten mit Ausnahme von US): EADS DEUTSCHLAND GMBH (DE/DE): 81663 Müschen (DE).

- B29C 70/44 (72) Erfinder; und
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 - (81) Bestimmungsstaaten (national): AU, BR, CA, CN, ID, JF KR, RU, US.
 - (84) Bestimmungsstaaten (regional): europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

[Fortsetzung auf der nächsten Seite]

(54) Title: METHOD AND DEVICE FOR PRODUCING FIBRE-REINFORCED COMPONENTS USING AN INJECTION METHOD

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON FASERVERSTÄRKTEN BAUTEILEN MITTELS EINES INJEKTIONSVERFAHRENS



(57) Abstract: The invention relates to a method for producing fibre-reinforced plastic components from dry fibre-composite semi-finished products, using an injection method for injecting matrix material. According to said method, the fibre-composite semi-finished product (1), on one sufface (1) of which a flow promoter (15) is located, is placed on a tool (3). A fibre-chamber (16) is formed using a gas-permenthle membrane (7) which is impermenthle to the matrix material and which surrounds the semi-finished product (1) and a second chamber (27) is formed between the first chamber and the emistronnent, using a fifm (19) which is impermenthle to go and the matrix material. Matrix material is sucked from a storage container into the first evacuated chamber (10) by the siphoring of air out of the second chamber (27). The flow promoter (15) causes the matrix material to be distributed over the surface (11) of the semi-finished product (1) facing said aid and to penetrate the semi-finished product (1) in a perpositional related to the semi-finished product (1) in a perpositional related to the semi-finished product (1) in a perposition of the semi-finished product (1) in a perpositi

[Fortsetzung auf der nächsten Seite]



Exploitation Example Airbus' AIMgSc Material Patents

- Alloy originally developed for A350XWB fuselage
- Material supplier asked for a license to exploit technology with other aircraft manufacturer







Europäisches Patentaint European Patent Office Office europäen des brevets



m EP 1 029 097 B1

(12)

EUROPÁISCHE PATENTSCHRIFT

- (45) Veröffentlichungstag und Bekanntmachung des Hinweises auf die Patenterfeilung: 06.07.2005 Patentblatt 2005/27
- (21) Anmaldenummer: 99952347.5
- (22) Anmaldetag: 10.08.1999

- (51) Int CI.7: C22C 21/06, B23K 35/28
- (86) Internationale Annieldenummer: PCT/DE1999/002492
- (87) Internationale Veroffentil chungsnummer: WO 2000/011232 (02:03:2000 Gazette 2000/09)
- (54) SCHWEISSBARE, KORROSICNSBESTÄNDIGE HOCHMAGNESIJMHALTIGE ALUHINIUH-MAGNESIJM-LEGIERUNG, INSBESONDERE FÜR LUFTFAHRTANWENDUNG

WELDABLE ANTI-CORROSIVE ALUMINIUM-MAGNESIUM ALLOY CONTAINING A HIGH AMOUNT OF MAGNESIUM, ESPECIALLY FOR USE IN AMATION

ALLIAGE ALUMINIUM-MAGNESIUM SOUDABLE, A HAUTE TENEUR EN MAGNESIUM, RESISTANT A LA CORROSION, DESTINE NOTAMMENT A DES APPLICATIONS DANS L'AFRONAUTIQUE

- (B4) Benannte Vertragsstaaten: DE ES FR GB IT
- (30) Prioritat: 21.08.1998 DE 19838018
- (43) Veröffentlichungstag der Anmeldung: 23.08.2000 Patentblatt 2000/34
- (73) Patentinhaber: Airbus Deutschland CmbH 21129 Hamburg (DE)
- (72) Erfinder
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- D-85305 Jetzendorf (DE)
- ZAKHAROV, Valeri Moskau, 12170 (RU)
- FILATOV, Yuri
- Moskau, 123100 (RU)
- (74) Vertreter: Avenhaus, Beate, Dr. EADS Deutschland GmbH Patentabteilung 81663 München (DE)

- (56) Entgegenheitungen: US-A- 5 624 632
- DATABASE WPI Section Ch., Week 7710 Berwent Publications Ltd., London, GR, Class M.Page 23, AH 1977-173647 XD002127941 8. JP 52 011143 A (NIPPON LIGHT METAL RES LAB), 27. Januar 1977 (1977-01-27)
- DATABASE WPI Section Ch, Week 9808 Derwent Publications Ltd., London, GB, Class M,Page 26, AN 1903-085170 XP002127942 & RU 2 081 994 C (LIGHT ALLOYS NST STOCK CO), 20. Juni 1997 (1997-08-20)
- ČHERNASÓV V ET AL: "SPECIAL FEATURES OF THE STRUCTURE FORMATION AND PROPERTES OF CASTABLE AL-ING ALLOYS ALLOYED WITH SCANDIUM THATAL SCIENCE AND HEAT THE ATMENTUS, CONSULT ANTS BUREAU, NEW YORK, Bd. 38, Nr. 506, Soils 288-270 JBD00700064 2 BDN: 0026-0675
- PATENT ABSTRACTS OF JAPAN vol. 013, no. 041 (M-701), 20. Januar 1989 (1989-01-30) & JP 63 248593 A (SHOWA ALUM CORP), 14. Oktober 1983 (1988-10-14)

EP 1 029 097 B1

Annarkung innerhalb vonneun Monatennachder Bekanntmachung des Hinweises auf die Erteilung des autopalschen Patents kann jedermann beim Europalschen Patentannt gegen dies erfelte europalsche Patent Einspruch einlegen. Der Einspruch ist schriftlich einzureichen und zu begründen. Er gilt erst als eingelegt, warm die Einspruchsgebühr entrichtet worden ist. (Art. 991) Europalsches Patentübereinkommen).

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Why an EADS Experts' Policy?



- Technical expertise in engineering makes the difference on the market. EADS must do its very best to keep best the Expertise resources. Expertise is first a matter of people!
- Therefore, EADS must develop its ability to manage Expert populations
- Talent management is all about attracting, developing and retaining. What does that mean in the case of Experts?
- The Expert policy is to stimulate our inventive potential in the engineering community



Some Key Solutions for Experts

> Attraction

Early investment through cooperation with Engineering schools; Strong HR marketing to attract the best European engineers.

Development

Creation of an Experts policy to offer an alternative in terms of career management, compensation & benefits, development.

> Retention

Retention policy through the Experts policy

Experts use high-level technical skills most of their time, each and every day in one of the Aerospace and Defence fields that are of importance for the Group.

Our Experts:

- Contribute to the development of knowledge in their field of expertise.
- Advise the management for improving operational solutions.
- Work in networks to seek out knowledge related to their specific fields.
- Share their knowledge and train young experts and managers.
- Secure our know-how by mastering Intellectual Property issues

The other fields of expertise are not covered by this policy

EADS Experts' Policy Objectives

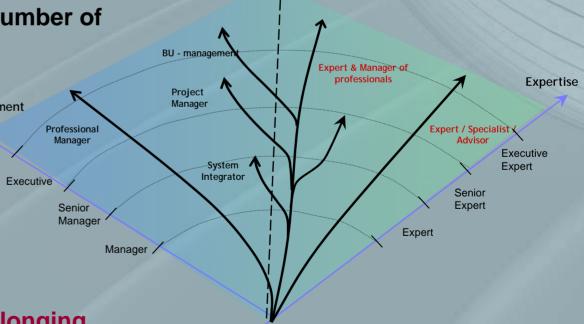
- Identify experts and make them visible in the Group
- Offer inside EADS identical career opportunities and recognition for both experts and managers
- Attract, develop and retain experts

Diversify and open the number of careers comprising managerial and technical components

Diversify and open the number of careers comprising management management components

 Secure portfolio of technical competencies in the coming years by offering options of pure technical positions

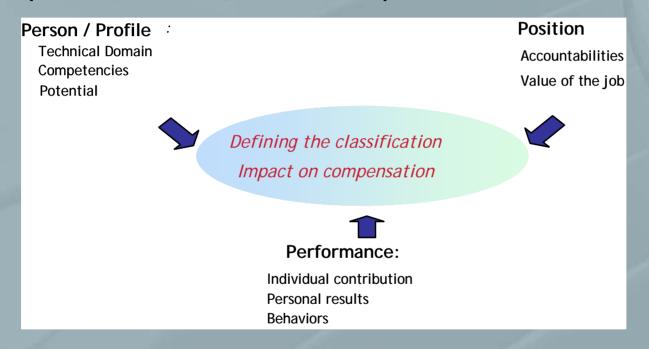
Increase the sense of belonging for the EADS experts





Contents of the Policy

Identification of Experts based on a 3P (Person, Position, Performance) assessment



- Nomination of Experts by classical career committee in the Divisions (except for Executive Experts, nominated by Corporate HR and CTO)
- Classification: for each Experts level (Executive L3, Senior L4, Expert L5): exactly the same reward system as for a managers
- Training: 6 days for all nominated Experts

Experts Training

A development program fully dedicated to experts



EADS Strategy and policies

Understand how to contribute to the strategy and to the business performance Understand EADS Experts' policy

Influencing through Communication

How to communicate with stakeholders (managers, programmes, research institutes, other experts...)

Influencing through Negotiation

How to negotiate with stakeholders (manager, programmes, research instituts, other experts...)

Innovation

How to move from the "good idea" to successful innovative solutions and business results

Intellectual Property

How to protect my innovation and how to use IP as a competitive advantage

Knowledge Transfer

How to develop a new mindset to support knowledge transfer during all experts' life



Develop the Experts community

Process steered by a reduced group formed by the involved parties (divisions binomial HR and technical side), LDL, the CTO and Innovation Works functions:

- ⇒ To monitor and consolidate the implementation of the EADS Expert policy in all divisions
- ⇒ To organise events and provide tools for the community (Experts day, Yellow Pages…)
- ⇒ To train around 40 executive/senior experts and 150 experts L5 in 2006

Launch a common process between Technical Directors and HR for matching EADS expertises with future needs

- ⇒ To analyse today's portfolio of expertise (BUs, Innovation Works)
- ⇒ To analyse future needs (at BU and at EADS level)
- ⇒ To identify corresponding actions

- The expert policy has been developed to achieve the EADS strategy of identifying and promoting expertise in the Aerospace and Defense technical fields to maintain a European independence in the field of Engineering.
- > Technical Expertise has to be promoted in the following way:
- Expertise evaluation, based on assessment criteria, form the basis, including a selection process, set up to take into account proposals for nomination by the line management.
- > A training and development policy ensures that experts receive the appropriate training to develop their expertise.
- > The compensation scheme and the grouping of the experts into respective grading are consistent with the managerial bands and are validated to ensure consistency of the evaluations within EADS.



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Recognizing Talent as a Strategic Human Capital

EADS Hall of Fame rewards the innovation spirit through four prizes:





- The Great Inventors
- The Great Innovators
- The Great Craftsmenand a special prize is given to
- > The Best Lean Manufacturing Team

It is a process conducted every two years and concluded with at a festive award ceremony event

Held for the first time in Paris, at Cité de la Science on Nov. 22, 2007

Award winners' names and portraits are displayed in galleries located in the Headquarters buildings in Paris, Ottobrunn and Suresnes



EADS Hall of Fame Award Winners 2007



Great Inventor
Alain Porte
Airbus

Selected for inventions and software, subject to patent applications or invention disclosures or copy righted software



Great Innovator
Tony Craig
Astrium UK

Innovative projects implemented during last two years that helped generate significant revenue increase or competitive advantage



Great Craftsman
Antoine Garcia
Eurocopter

Blue collars with unique contributions, key for our business



Best Lean
Manufacturing Team
Andrés Diego, Juan Pedro Sanchez

Andrés Diego, Juan Pedro Sanchez Francisco Canto, Manuel Temblador Alfonso Illana, Jorge Gonzalez MTAD Recognises the best improvement initiatives to generate savings, to deliver on time or to increase quality



Thank you for your attention

