









European experience in international cooperation armament programs

How it can contribute to Europe – Japan cooperation in defence technology?

The helicopter industry example

The state of the s

thinking without limits

Defense Seminar JA 2012

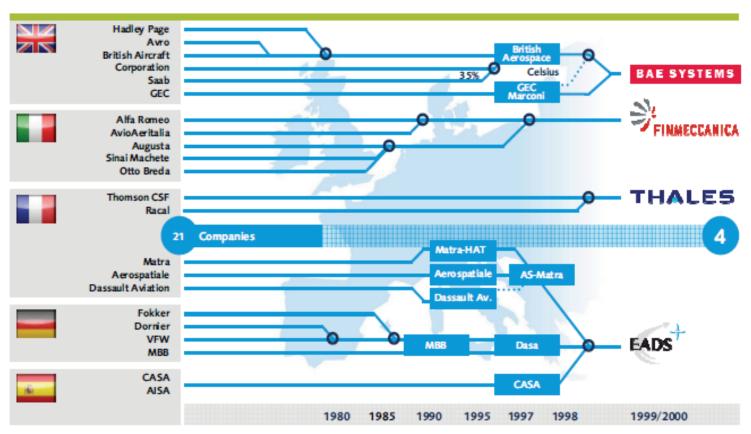








CONSOLIDATION IN EUROPE





EADS at a glance



Two exemples: the A400M and the A330 MRTT









Weapon system acquisition by program management & purchase agencies



















NATO Multi role medium helicopter

- Tactical transport
- Navy roles (SAR; ASW)

Combat helicopter for combined and joint ops

- Armed reconnaissance
- Antitank





Employees



30 subsidiaries and participations
2 billion € in orders in 2011 - 60% of customers



USA UH-72A

Local production with UH-72A assembly line (based on the EC145)

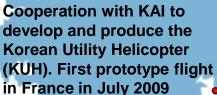


BRAZIL EC725

Local production with cooperation on engineering, support and assembly line of the EC725.



KOREA KUH





Creation of a new industrial site: development and production of Aero structures. Assembly lines Tiger and NH90.







New up-graded version of EC 145/ BK 117 - codeveloped with Kawasaki **Heavy Industries**

AUSTRALIA TIGER, NH 90

Australian Aerospace acting as major Defence contractor.

Assembly Lines for the Tiger and NH90 with engineering, production and support.

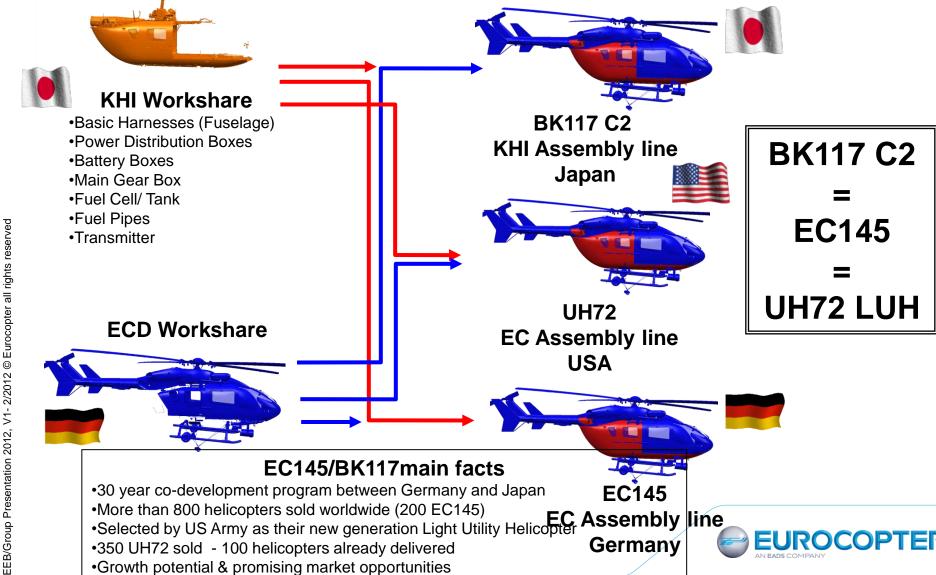




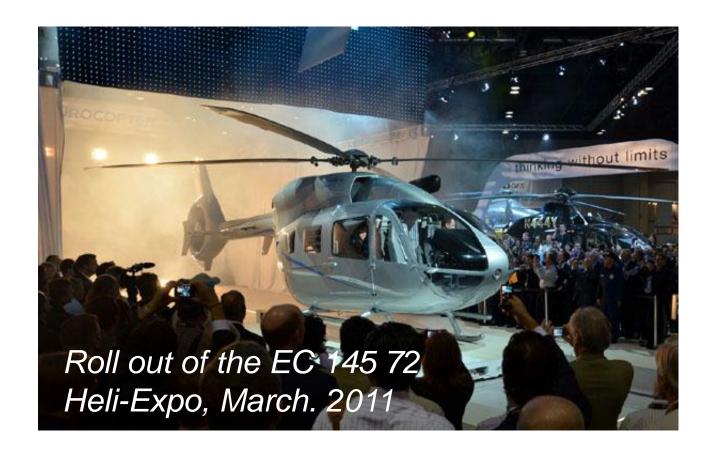
investment in the country and the people



A 30 year partnership with Japanese industry: the EC145/BK 117



Birth of a new helicopter





Recommendations for the successful cooperation between Europe and Japan in the armament field



Recommendation° 1: converging operational concepts among nations

World army aviations fleet rationalization

	Scout-LUH	ATK	TTH	Heavy
	LUH72 & OH58 then AAS	Apache	Black Hawk	Chinook
	Gazelle then AW159	Apache	Puma	EH101; Chinook
	Gazelle then future Twin	Tiger,	Puma / Cougar then NH90	FTH (TBC)
	Bo105 then EC635/645	Tiger,	UH-1 then NH90	CH53
2005	B206 & EC635	Tiger,	Cougar then NH 90	Chinook
* *	B206 & UH1 then LUH (TBC)	Tiger,	BH then NH 90	Chinook

Recommendation n° 2: shared operation requirements - standard specifications

Common basic helicopter

- 85% commonality
- **Self-integrated**

Customized mission packages



Common vehicle and basic avionics





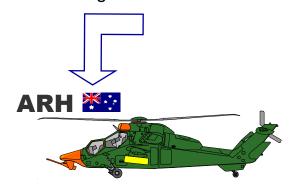
◆ Mast Mounted Sight

◆ Anti Tank (HOT,TRIGAT)

Anti-Tank/Combat Support

Air to Air Combat/Combat Support

- ◆ Roof Mounted Sight
- ◆ Turreted gun



Armed Reconnaissance Helicopter

- ◆ Roof Mounted Sight
- ◆ Turreted gun
- ◆ Air-to-ground: Hellfire





Reconnaissance/Air to Air/Combat Support/Anti Tank

- Roof Mounted Sight
- Turreted gun
- ◆ Air-to-ground: Spike/Hellfire

- Laser designation
- Enhanced engine



Recommandation n° 3: Cooperation between industry players supported by Governments



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Recommendation n° 4: a large market base for cost optimization

NH90 EUROPEAN FLEETS STANDARDISATION

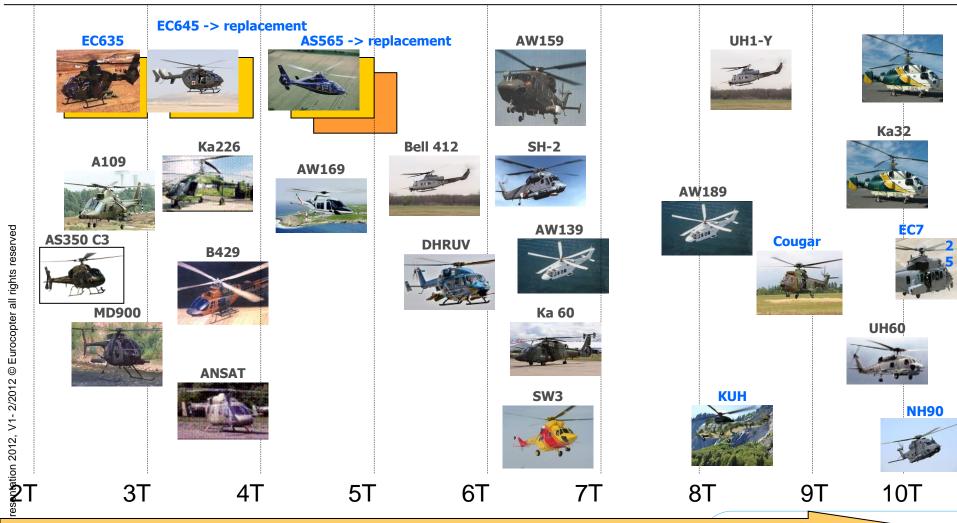


	TODAY	>>>>>>	ТОМО	RROW	
A/F ARMY NAVY	33 AS330/332 154 AS330/332 34 LYNX 18 SUPER FRELON	FRANCE	A/F ARMY NAVY	23 TTH 110 TTH 27 NFH	
A/F ARMY NAVY	98 BELL UH1D 177 BELL UH1D 24 LYNX 20 SEA KING	GERMANY	A/F ARMY NAVY	66 TTH 115 TTH 38 NFH	
A/F ARMY NAVY	36 AB212 128 AB205/212/214 77 AB212ASW	ITALY	A/F ARMY NAVY	40 TTH 100 TTH 56 NFH	
NAVY	22 LYNX	THE NETHERLANDS	NAVY	20 NFH	
		PORTUGAL	ARMY	10 TTH	

TOTAL® 605 NH90: 464 TTH + 141 NFH



Recommendation n° 5: Carefull Trade-off COTS/New development



conclusion

- Aerospace and Defense cooperation programs will contribute to the development of trade and investment relationship between Europe and Japan
- Industrial partnerships have to be supported by the Nations through convergence of operational requirements and secured financing.
- Benefiting from a long experience in cooperation and a proven commitment to Japan customers, EADS and Eurocopter are prepared to make proposals to launch successful cooperation projects with Japan.

