Chancen- und Risikoteilung mit Lieferanten

- EADS auf einen Blick
- •Risk Clusters in der Beschaffung bei EADS
- Klassische End Market Risiken in der Aerospace Industrie
- •Wie identifiziere ich die wichtigsten Risiken?
- Vertragliche Klauseln

Dr.-Ing Anfried Sauerborn

EADS Corporate Sourcing Strategy and Management

600 Minutes Procurement, München, 09.Febr 2012



EADS - The step beyond 10/04/13

EADS auf einen Blick





EADS - The step beyond 10/04/13

EADS DivisionenDie vier Säulen von EADS



- Weltweit führender Flugzeughersteller
- Seit 2000 Anstieg der Auslieferungen bei Airbus Commercial um 60 %
- Auftragsbestand in 10 Jahren mehr als verdoppelt (entspricht 6 Produktionsjahren)



- Europas führendes Raumfahrtunternehmen
- Größter Arbeitgeber im Raumfahrt-bereich in Frankreich, Deutschland, Spanien und Großbritannien
- Anstieg der Umsätze 2x und des EBIT 4x seit 2000



- Führender Helikopter-Hersteller
- Stellt 1/3 aller Helikopter weltweit
- Rund 4.000 ausgelieferte Helikopter in den letzten 10 Jahren



- Weltweit führend in Sicherheitssystemen und europaweit im Bereich UAV
- Über 234 Eurofighter ausgeliefert (Stand: Sept. 2010)
- EBIT & Gewinnspanne in den letzten
 5 Jahren mehr als verdoppelt



EADS - The step beyond 10/04/13

Vision 2020 (I)









- ☑ Weltweit führender Anbieter luft- und raumfahrttechnischer Plattformen und Systeme (insbesondere plattformspezifische Architekturen und Sytemintegration)
- **☑ 10% EBIT** bis 2015
- ☑ Konzentration auf das Kerngeschäft
- ✓ Ausgeglichenes Umsatzverhältnis Erlöse von € 80 Mrd. und 50% Umsatzanteil ausserhalb Airbus bis 2020
- ✓ Servicevolumen von € 20 Mrd. bis 2020
 missionskritischer Servicepartner unserer Kunden
- ☑ Globalisierung 40% des Einkaufs und 20% der Mitarbeiter außerhalb Europas sowie \$ 10 Mrd. Umsatz außerhalb Airbus in den USA
- ☑ Entwicklung zum umwelteffizienten Unternehmen



Vision 2020 (II)



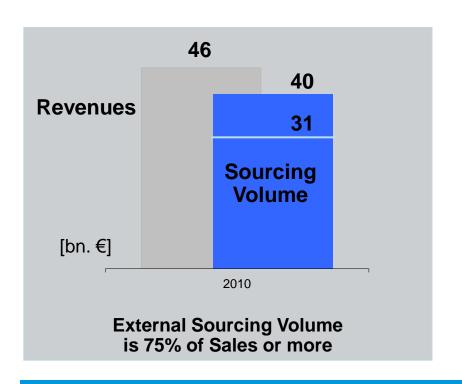


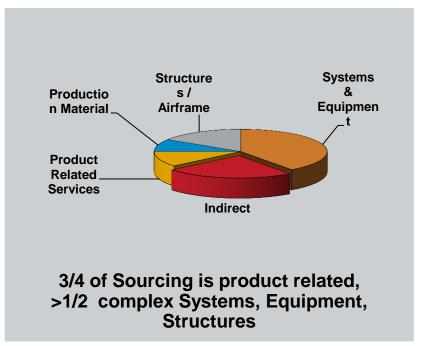
- ✓ Langfristige Parität mit Boeing (Marktanteil 40%-60%)
- Ausgewogenes Portfolio erfordert externes Wachstum
- Ausbau des Service-Geschäfts in direkter oder indirekter Verknüpfung mit unseren Plattformen; Entwicklung plattformbezogener Systeme
- ☑ Reduzierung der Abhängigkeit vom Wechselkurs des Euro gegenüber dem Dollar
- Ausbau der Marktpräsenz in den USA und hervorragende Beziehung zur US-Regierung
- ☑ Sicherung der künftigen **Profitabilität**
- ✓ Neue Talente gewinnen und halten: v.a. im Bereich Engineering und Program-Management; Interdisziplinäre Vielfalt sicherstellen; Klare Führung zeigen.



EADS Sourcing Volume

Divisions developed to high level integrators with strong sourcing content





Performance is to a large extent determined in the Supply Chain, Sourcing is a key lever for EADS success



High expectations on Procurement

Vision and Strategy of Group and Divisions

Procurement key challenges

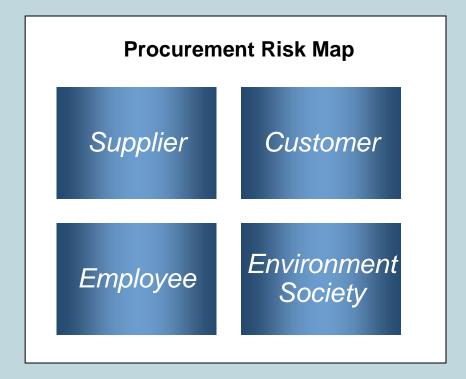
- Supplier Performance
- Cost Optimization
- Supply Chain Consolidation
- Global Sourcing
- US\$ Sourcing
- General Procurement Shared Service
- Financial Risks

Procurement Risk management

Environmen and Current Challenges

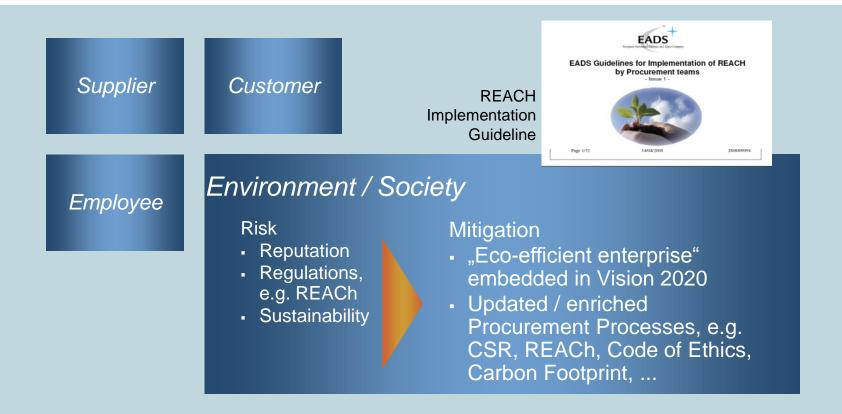


EADS Procurement risk map: 4 Clusters



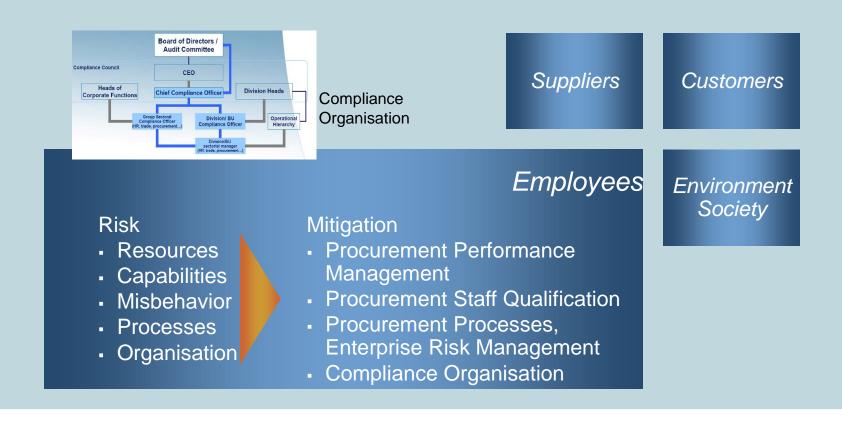


Cluster 1: Environment / Society





Cluster 2: Employee





Cluster 3: Supplier



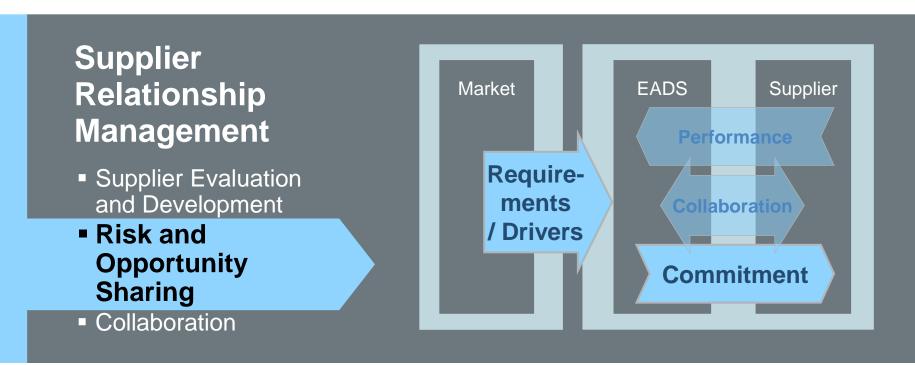


Cluster 4: Customer

Customer Risk Mitigation End market require- Risk flow down into the ments, e.g. currency, supply chain ("Risk and market access, **Opportunity Sharing"**) market volatility, development and Supplier modifications Environment Employee Society



Risk and Opportunity sharing is part of Supplier relationship management:



EADS global business perspectives require sharing of end-customer market opportunities and risks with suppliers



Risk and Opportunity Sharing:

-Strategy development process-

Sales Market market needs Risk Exposure **Procurement Policy Risk and Opportunity sharing** Contract Framework with

T&Cs, Training

27 Risks categories identified and prioritised

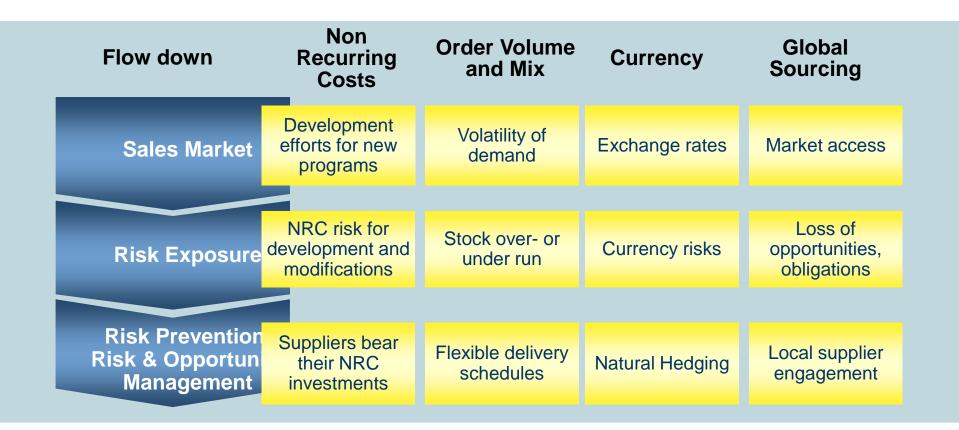
Examples for risk categories:

- Currency
- Lead Time
- Non Recurring Cost
- •Import / Export Controls
- Market Price Increases

EADS global business perspectives require sharing of end-customer market opportunities and risks with suppliers

Risk & Opportunity Sharing

Examples of risk sharing with suppliers





Risk & Opportunity Sharing

Common system for flow down of risk and opportunity to suppliers implemented across EADS

Risk mitigated by EADS Risk shared with suppliers Risk shared with suppliers Risk shared with suppliers Risk shared with suppliers

- Potential risks are identified, prioritized and clustered
- Risk mitigation principles are defined in the Procurement Policies
- Contract elements for risk sharing are prepared and provided in a common database

Flow down of risk to reflect flow down of business



Risk and Opportunity Sharing: Risk elements

27 EADS Risk Sharing Elements cover a wide range of topics:

- 1) Compliance with commercial requirmts.
- 2) Risk Management capability
- 3) Repair capabilities customer support
- 4) Non Recurring Cost
- 5) Lead time
- 6) Order volume and -mix requirmt. changes
- 7) Termination of contract
- 8) Management vision
- 9) Import /export control
- 10) Technological competitiveness
- 11) Design price competitiveness
- 12) Competition and manufacturing cost
- 13) Currency risk

- 14) Market price increases
- 15) Offset
- 16) Obsolescence
- 17) Environmental responsibility
- 18) Warranty and liability
- 19) Modification cost
- 20) Market orientation
- 21) Intellectual Property Rights
- 22) Liquidated damages
- 23) Delay in development
- 24) Product liability insurance
- 25) Parent company guarantee
- 26) Social Regulation Risk
- 27) Applicable Law



How to identify most significant risks:

Process steps:

- 1: Identify potential risk elements
- 2: Estimate Probability and Severity
- 3: Select most important risks
- 4: Brainstorm on root causes
- 5: Identify mitigation actions
- 6: Recheck complete assessment
- 7: Reassess regularly and monitor progress on mitigation actions

P (Probability)

- 1: Very Unlikely
- 2: Unlikely
- 3: May happen
- 4: Likely
- 5: Very likely
- 6: Almost Certain
- 7: Certain

S (Severity)

1: No relevance

2: Insignificant

3: Minor

4: Serious

5: Very serious

6; Almost Catastrophic

7: Catastrophic

Probability x Severity = Risk Importance

Risk	Р	S	Root causes	Potential actions for mitigations
Non Recurring Cost The risk of a supplier not being committed to bear Non Recurring Cost (NRC)	9	6	 Not enough market opportunities/forecasts accuracy to amortize NRC; Suppliers not educated to bear NRC 	•Risk to be shared contractually; to be negotiated very early in the Sourcing •Get the Supplier early involved in the design phase and negotiate shared risks/opportunities

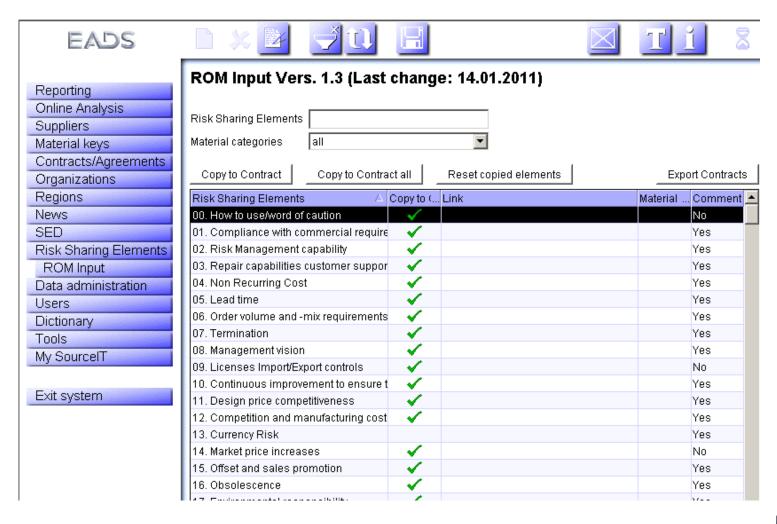


Risk assessment: Example

Nb			-	Root causes	Potential actions for mitigations
	The risk that a supplier is not committed to reduce its costs in order to deliver a	4	5	Lack of precise specs.; monopolistic situation	Contractual : fix prices, limit "modification" clauses Precise functional specifications
	The risk of a supplier not being committed to bear	6	6	Not enough market opportunities/forecasts accuracy to amortize NRC; Suppliers not educated to bear NRC	Risk to be shared contractually; to be negotiated very early in the Sourcing; Get the Supplier early involved in the design phase and negotiate shared risks/opportunities
3	Design price competitiveness The risk of a supplier is not committed to be price competitive in regard to design techniques	6	7	Monopolistic situation	Contractual obligation + annual benchmark; negotiate fix unit elements prices and % (overhead, project management, logistic)
	The risk of a supplier is not committed to be price	2			Contractual obligation + annual benchmark Audit regularly Supply Chain management
	The risk of trends, events or developments that	7	4	High severity on SW; high potential risk on manpower & components (+/- 10%)	Contractual : negotiate fix prices or limit application of price increase based on they right index (using a max. or a shreshold level)
	The risk that a supplier is not committed to bear the cost of modification demanded by the end customer certification authorities and the BU	7	6	Changes of specs & funct. that occur during the life cycle (high in bid & contract phase with Mol who wants changes for free!); lack of precise specs at the begining of the project	Contractual: negotiate fix price incl. margin for customer/end-user changes/modifications (to be precised); Involve the supplier early in design phase; Internal: precise analysis of current and future certification needs
	The risk that the supplier is not committed to comply with the customer requirements in terms	6	5	Very important in Defence market; the sales accepts customer clauses in terms of price indexation not fitting with reality (internal problem)	Contractual: negotiate fix prices or limit application of price increase based on the right index (using ceiling or or threshold for applicability) to be first checked with Customer requirements
	The risk that a termination cases are not covered according to end-customer requirements.	5	6	Equipments, stock couldn't be re-used or resold	Contractual : flowdown of the termination clauses; share costs recovery
	3 3 6 7	1 Compliance with commercial requirements The risk that a supplier is not committed to reduce its costs in order to deliver a product/service at the market price. 2 Non Recurring Cost The risk of a supplier not being committed to bear Non Recurring Cost (NRC) 3 Design price competitiveness The risk of a supplier is not committed to be price competitive in regard to design techniques 4 Competition and manufacturing cost The risk of a supplier is not committed to be price competitive in regard to manufacturing techniques 5 Market price increases The risk of trends, events or developments that may increase market prices in the supply market 6 The risk of modification The risk that a supplier is not committed to bear the cost of modification demanded by the end customer certification authorities and the BU design departments 7 Price evolution risk The risk that the supplier is not committed to comply with the customer requirements in terms of price index evolution (long term contracts) 8 Termination of contract	1 Compliance with commercial requirements The risk that a supplier is not committed to reduce its costs in order to deliver a product/service at the market price. Non Recurring Cost The risk of a supplier not being committed to bear Non Recurring Cost (NRC) Design price competitiveness The risk of a supplier is not committed to be price competitive in regard to design techniques Competition and manufacturing cost The risk of a supplier is not committed to be price competitive in regard to manufacturing techniques Market price increases The risk of trends, events or developments that may increase market prices in the supply market The risk of modification The risk that a supplier is not committed to bear the cost of modification demanded by the end customer certification authorities and the BU design departments Price evolution risk The risk that the supplier is not committed to comply with the customer requirements in terms of price index evolution (long term contracts) Termination of contract The risk that a termination cases are not covered according to end-customer requirements.	1 Compliance with commercial requirements The risk that a supplier is not committed to reduce its costs in order to deliver a product/service at the market price. 2 Non Recurring Cost The risk of a supplier not being committed to bear Non Recurring Cost (NRC) 3 Design price competitiveness The risk of a supplier is not committed to be price competitive in regard to design techniques 4 Competition and manufacturing cost The risk of a supplier is not committed to be price competitive in regard to manufacturing techniques 5 Market price increases The risk of trends, events or developments that may increase market prices in the supply market 6 The risk of modification The risk that a supplier is not committed to bear the cost of modification demanded by the end customer certification authorities and the BU design departments 7 Price evolution risk The risk that the supplier is not committed to comply with the customer requirements in terms of price index evolution (long term contracts) 8 Termination of contract The risk that a termination cases are not covered according to end-customer requirements.	Compliance with commercial requirements The risk that a supplier is not committed to reduce its costs in order to deliver a product/service at the market price.

Contract clause database:

EADS has developed a contract clause database structured along the risk sharing elements





Summary/conclusion:

- The Aerospace Industry is exposed to typical and specific risks generated by customer contracts
- •EADS has a process in place to share these risks (but also opportunities) with suppliers
- This process is managed by Corporate Sourcing (Tools and training)
- •As business situations and challenges vary significantly, there are no standard EADS risk sharing contracts but recommended clauses available
- •The system is flexible but builds on expertise and common tools



Dr. Anfried Sauerborn

Tel.: +49 (89) 607-34741

E-Mail: anfried.sauerborn@eads.net

