



**Fact Book 2007**

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### LANXESS Group

Performance Polymers

Advanced Intermediates

Performance Chemicals

### Overview

Strategy

Financials FY 2006 (reported)

Financials restatement 2005-2007

## A young company with strong roots

January 31, 2005 was an historic day for LANXESS. The first day of the company being traded at the Frankfurt Stock Exchange signified the beginning of the company's independence. The foundations for the future success of LANXESS were laid - 142 years after Bayer was established in 1863.



Decision made on the strategic reorganization of the Bayer Group

Presentation of brand strategy and "Energizing Chemistry" claim

Signing of the spin-off agreement

2003-07-11

2004-03-18

2004-03-27

2004-07-01

2004-09-22

2004-11-17

Announcement of the name LANXESS created from a combination of the words "lancer" (to launch) and "success"

Internal launch of LANXESS with its new structure

Extraordinary Stockholders' Meeting of Bayer AG - acceptance of spin-off by Bayer's shareholders

## Immediate focus on transformation of the company since the spin-off

Targeted implementation of corporate strategy enabled LANXESS to distinctly improve its performance as an independent company, even in its first year – future focus areas include acquisitions as well as further increases in profitability.



Announcement of 1<sup>st</sup> phase of restructuring

1<sup>st</sup> Annual Stockholders' Meeting

Issuance of 500 m Euro bond

Sale of PAP and FIB concluded

FY 2005 results – corporate strategic plan delivers results in all segments

2005-01-31

2005-06-03

2005-06-06

2005-06-16

2005-06-20

2005-06-21

2006-01-01

2006-03/04-01

2006-04-04

2006-05-31

Initial quotation at the Frankfurt Stock Exchange

Buyback of Mandatory Convertible

Admission into MDAX

Carve-out of the BU FCH to form Saltigo

2<sup>nd</sup> Annual Stockholders' Meeting

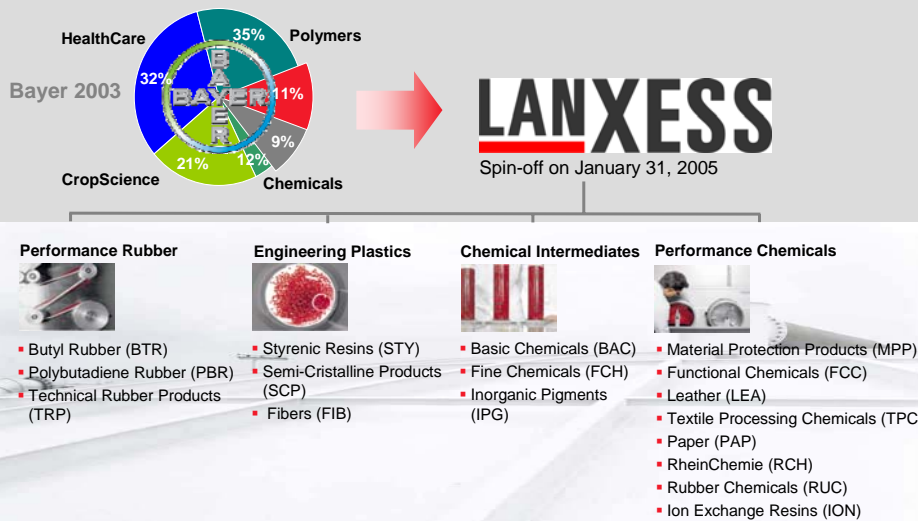
## Transformation process continues successfully

In 2006 and during the first months of 2007 the transformation process continued with undamped speed. Two further business units -Textile Processing Chemicals (TPC) and Lustran Polymers (LUP) - were sold, the first acquisition (CISA) was made.



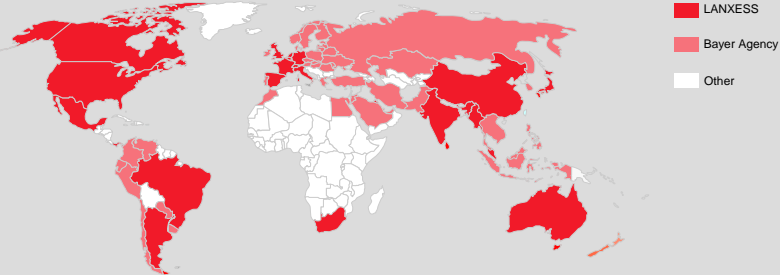
2006-08-16	2006-09-15	2006-11-10	2006-12-14	2007-01-01	2007-05-14	2007-05-31	2007-06-29	2007-07-18/31	2007-08-31
Announcement of 4 <sup>th</sup> phase of restructuring	1 <sup>st</sup> Capital Markets Day	Divestment of TPC announced	Acquisition of CISA	Appointment of Dr. van Roessel as new Board Member	Appointment of Dr. Breuers as new Board Member	3 <sup>rd</sup> Annual Stockholders' Meeting	Lustran Polymers JV with INEOS announced	Ratings upgraded by Moody's to Baa2 and S&P to BBB	Sale of Borchers Group

## LANXESS at the time of the spin-off – build on polymers and chemicals

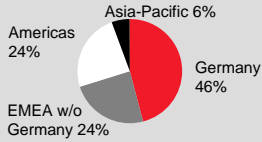


# LANXESS - a global player in the chemical industry

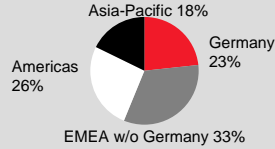
## Global presence



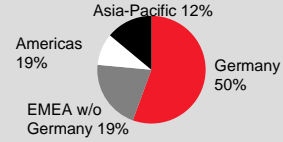
### Assets by region



### Sales by region



### Employees by region



based on 2006 figures

# Broad supplier base

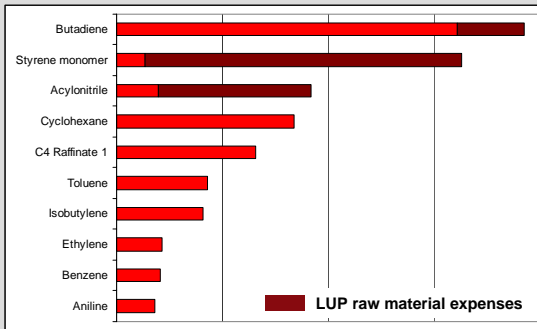
## Suppliers

LANXESS uses a centrally managed global procurement organization to ensure a reliable supply of materials and services. About 30% of all items ordered are now handled through e-procurement.

Procuring petrochemical raw materials is a top priority at LANXESS. The biggest suppliers here in 2006 included BP, Chevron Phillips, Dow, Exxon Mobil, Huntsman, Ineos, Lyondell, Nova Chemicals, Repsol, Siam Styrene, Shell Chemicals and Total. Other important suppliers of basic inorganic and organic chemicals are BASF, Bayer, Degussa, European Oxo, Ineos and Polimeri.

- Total raw material expenses in 2006 were approx. €3.2 bn
- Petrochemical raw materials accounted for a purchasing volume of approx. € 1.6 bn of costs in 2006
- Lustran Polymers accounted for approximately 1/3 of total petrochemical raw material expenses

### Top ten petrochemical raw materials 2006

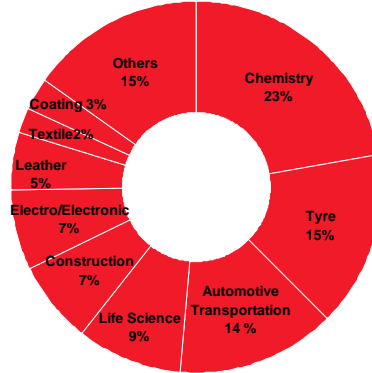


## Diversified customer base and industry portfolio

### Customers

The LANXESS Group's top five customers accounted for about 11% of all sales in fiscal 2006. 14 customers account for sales of between €20 million and €50 million. About 24,000 LANXESS customers contribute sales of up to €100,000. The number of customers varies widely by segment.

The Performance Rubber segment has some 2,000 customers, Engineering Plastics has about 4,000, Chemical Intermediates has around 8,000, and Performance Chemicals has about 17,000. However, one customer may do business with more than one segment. Each segment includes all customer groups and sales volumes.



Other contains (<2%): Furniture; Printing, Sport and Leisure Footwear; Packaging; Water treatment; Mechanical Goods

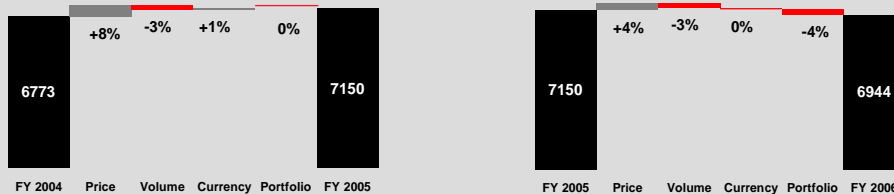
## Summary of key financials (reported)

### LANXESS

	2003	2004	2005	2006
<b>Sales</b>	6,315	6,773	7,150	6,944
<b>EBITDA pre exc.</b>	311	447	581	675
<i>EBITDA pre exc. / Sales</i>	4,9%	6,6%	8,1%	9,7%
<b>Net income</b>	-997	-12	-63	197
<b>Net financial debt*</b>	1,429	1,135	680	511
<b>Working capital*</b>	1,512	1,468	1,439	1,369
<b>Capex</b>	312	279	251	267
<b>Number of Employees*</b>	20,423	19,659	18,282	16,481

\*as per 31.12

2003-2004 figures are based on Spin-off Combined Financial Statements



**LANXESS Group**

Performance Polymers  
Advanced Intermediates  
Performance Chemicals

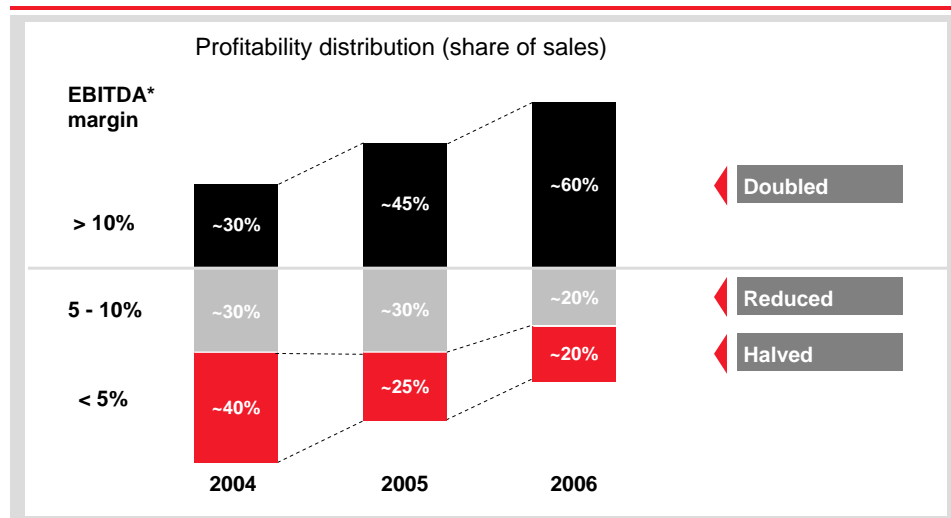
Overview

**Strategy**

Financials FY 2006 (reported)

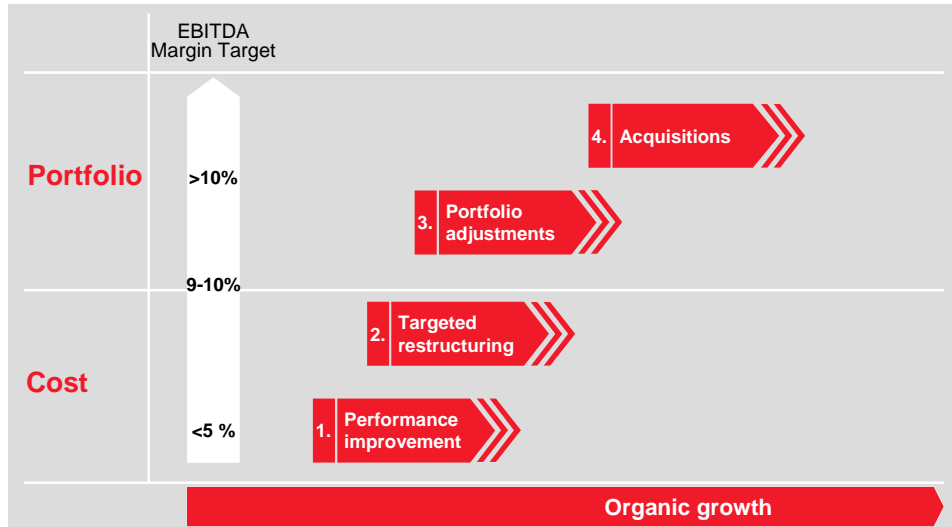
Financials restatement 2005-2007

**Proportion of profitable businesses further increased**



\* pre exceptionals

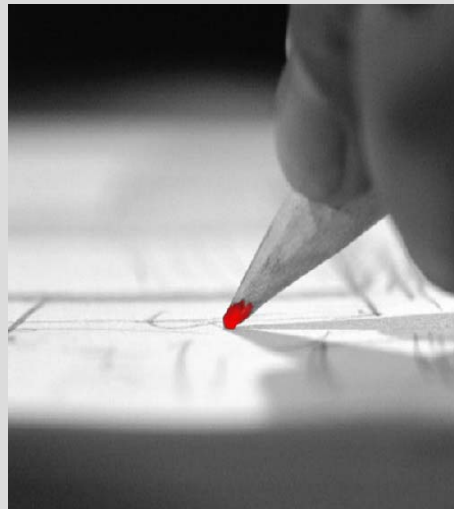
## Consistent improvement as four-phase strategy is implemented



## Performance improvement: profit-driven market approach to the chemical business

- “Price-before-volume” strategy
- Pass on of raw material and energy cost increase
- Rationalization of products and grades
- Reduction of complexity
- Disciplined working capital management
- Implementation of new business models

**Focus on profitable sales**





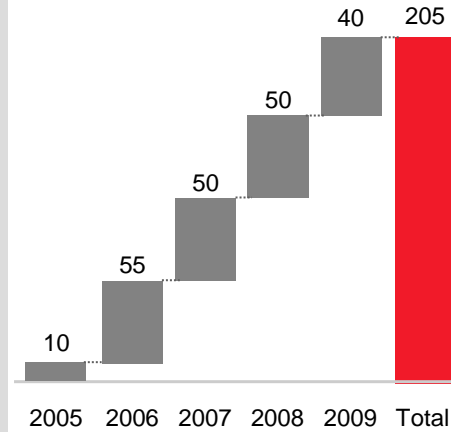
## Targeted restructuring results in €205 million cost savings\*

- Closure of several sites worldwide
- Closure and consolidation of plants
- Reduction of workforce
- Optimization of sites, plants and processes
- Optimization of internal services
- New business models for Saltigo and Lustran Polymers

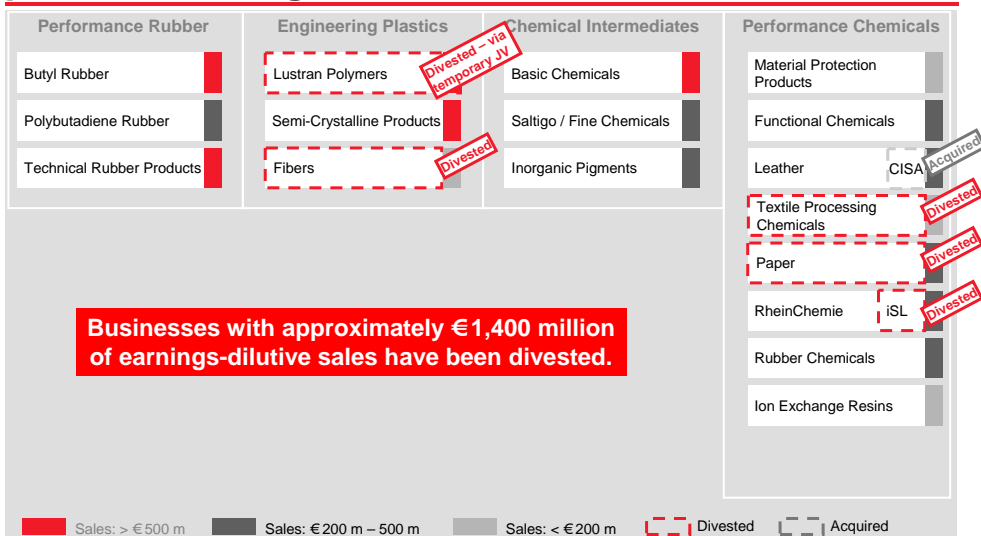
\*Adjusted for LUP and TPC divestments

**Rigorous cost management**

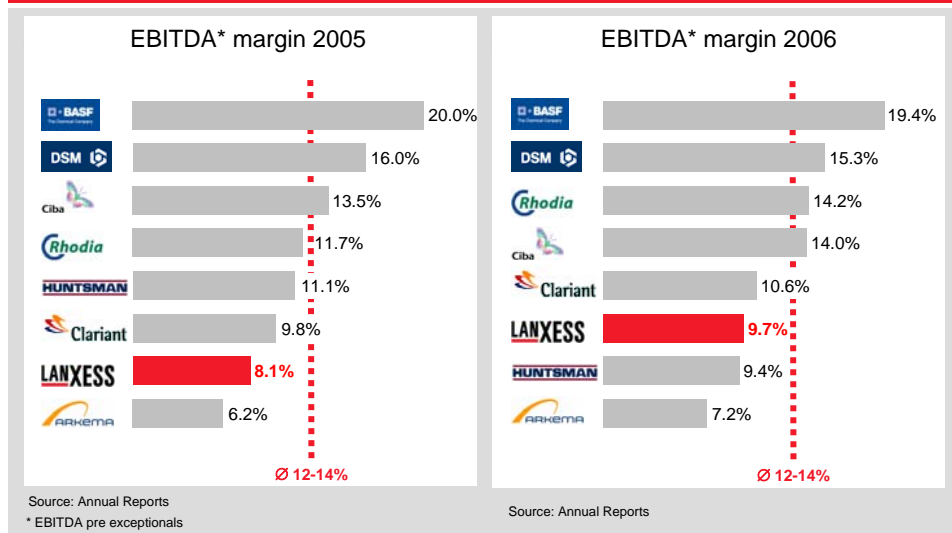
Restructuring savings vs. prior year (€ m)



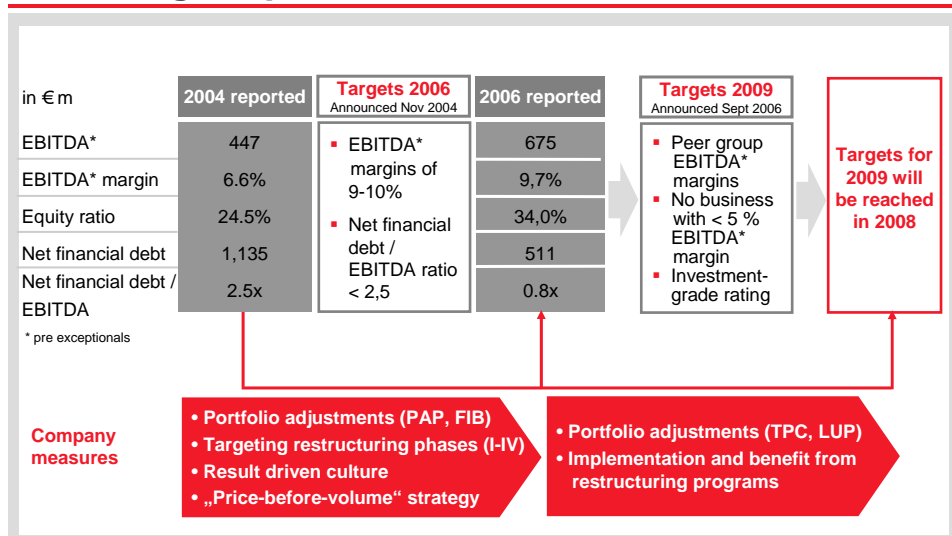
## Successful portfolio adjustments by active portfolio management



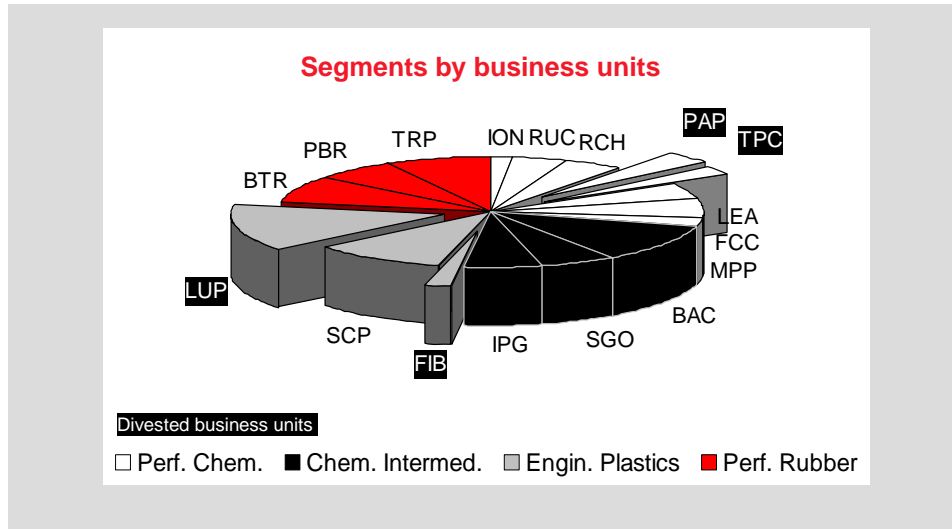
## LANXESS about to close gap to peer-group



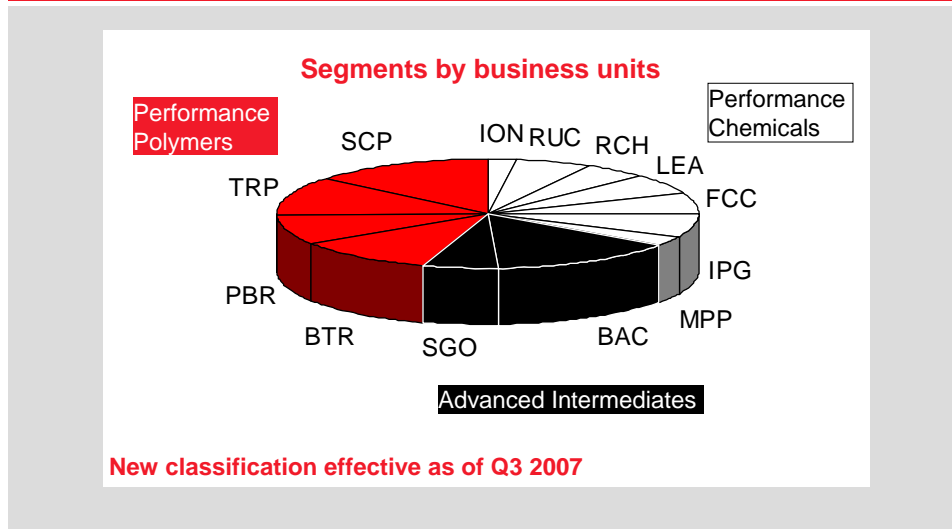
## Successful evolution of the company while delivering on promises




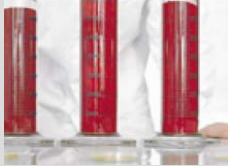

## Portfolio adjustments led to a new business unit landscape...



## ... and consequently to a reclassification of the segments



## LANXESS – market focus reflected in new segment structure

			Sales: €6,944 m EBITDA pre exc.: €675 m Employees: 16,481 <small>based on FY 2006 numbers</small>
<p><b>Performance Polymers*</b></p>  <p>Sales: €2,571 m EBITDA pre exc.: €340 m Employees: 4,194</p> <ul style="list-style-type: none"> <li>▪ Butyl Rubber</li> <li>▪ Polybutadiene Rubber</li> <li>▪ Technical Rubber Products</li> <li>▪ Semi-Crystalline Products</li> </ul>	<p><b>Advanced Intermediates*</b></p>  <p>Sales: €1,140 m EBITDA pre exc.: €174 m Employees: 2,493</p> <ul style="list-style-type: none"> <li>▪ Basic Chemicals</li> <li>▪ Saltigo</li> </ul>	<p><b>Performance Chemicals*</b></p>  <p>Sales: €2,205 m EBITDA pre exc.: €291 m Employees: 5,056</p> <ul style="list-style-type: none"> <li>▪ Material Protection Products</li> <li>▪ Inorganic Pigments</li> <li>▪ Functional Chemicals</li> <li>▪ Leather</li> <li>▪ RheinChemie</li> <li>▪ Rubber Chemicals</li> <li>▪ Ion Exchange Resins</li> </ul>	
<p><small>* Restated FY 2006 numbers after reclassification of segments                  Reconciliation/ Corporate Segment: Sales: €15 m / EBITDA pre exc.: €141 m / Employees: 3,151                  Engineering Plastics (LUP, FIB): Sales: €13 m / EBITDA pre exc.: €11 m / Employees: 1,587</small></p>			

## LANXESS

Energizing Chemistry

### LANXESS Group

Performance Polymers  
 Advanced Intermediates  
 Performance Chemicals

Overview

Strategy

**Financials FY 2006 (reported)**

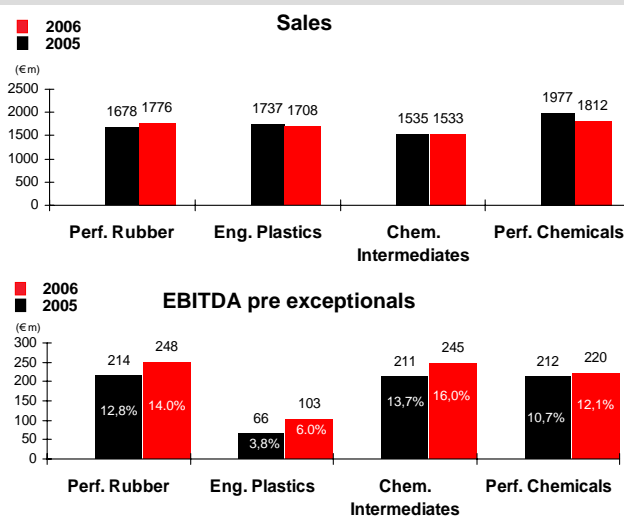
Financials restatement 2005-2007

## Profitability improved despite headwind from higher raw material and energy costs

(€m)	FY 2005	FY 2006	Δ in %	
<b>Sales</b>	<b>7,150</b>	<b>6,944</b>	<b>-3%</b>	– Price increases (+4.0%) offset slightly lower volumes (-2.8%) and unfavourable currency impact (-0.4%). Portfolio changes (-3.7%) account for reduced sales basis
Cost of sales	-5,537	-5,404	-2%	
SG&A	-1,148	-1,020	-11%	
R&D	-101	-87	-14%	
Other op. income/ expense	-336	-57	-83%	– Raw material price increases were broadly passed on - operational costs improved but were partly offset by higher energy costs
thereof exceptionals	-304	-45	-85%	
<b>EBIT</b>	<b>28</b>	<b>376</b>	<b>&gt;100%</b>	– Exceptionals mainly relate to restructuring phases
<b>Net Income</b>	<b>-63</b>	<b>197</b>	<b>n.m.</b>	
EBITDA	341	638	87%	
thereof exceptionals	-240	-37	-85%	
<b>EBITDA pre exceptionals</b>	<b>581</b>	<b>675</b>	<b>16%</b>	

**Profitability target achieved despite unfavourable raw material development**

## Margin improvements across all segments



– Sales 2006 in Engineering Plastics and Performance Chemicals were reduced mainly due to the absence of BUs FIB and PAP

– EBITDA increases in all segments, lifting overall margins for the LANXESS group to 9.7%

## Balance Sheet: strong base and headroom

(€m)	Dec 31, 2005	Dec 31, 2006	(€m)	Dec 31, 2005	Dec 31, 2006
<b>Non-current Assets</b>	<b>1,835</b>	<b>1,730</b>	<b>Stockholders' Equity</b>	<b>1,256</b>	<b>1,428</b>
Intangible assets	53	41	thereof minority interest	17	25
Property, plant & equipment	1,526	1,465	<b>Non-current Liabilities</b>	<b>1,576</b>	<b>1,554</b>
Equity investments	22	5	Pension & post empl. provisions	497	520
Other investments	4	4	Other provisions	302	271
Financial assets	48	37	Financial liabilities	644	632
Deferred taxes	103	84	Tax liabilities	26	38
Other non-current assets	79	94	Other liabilities	32	36
			Deferred taxes	75	57
<b>Current Assets</b>	<b>2,506</b>	<b>2,475</b>	<b>Current Liabilities</b>	<b>1,509</b>	<b>1,223</b>
Inventories	1,068	1,047	Other provisions	401	354
Trade accounts receivable	1,065	924	Financial liabilities	172	50
Financial assets	37	113	Trade accounts payable	694	602
Other current assets	200	220	Tax liabilities	27	36
Liquid assets	136	171	Other liabilities	215	181
<b>Total Assets</b>	<b>4,341</b>	<b>4,205</b>	<b>Total Equity &amp; Liabilities</b>	<b>4,341</b>	<b>4,205</b>

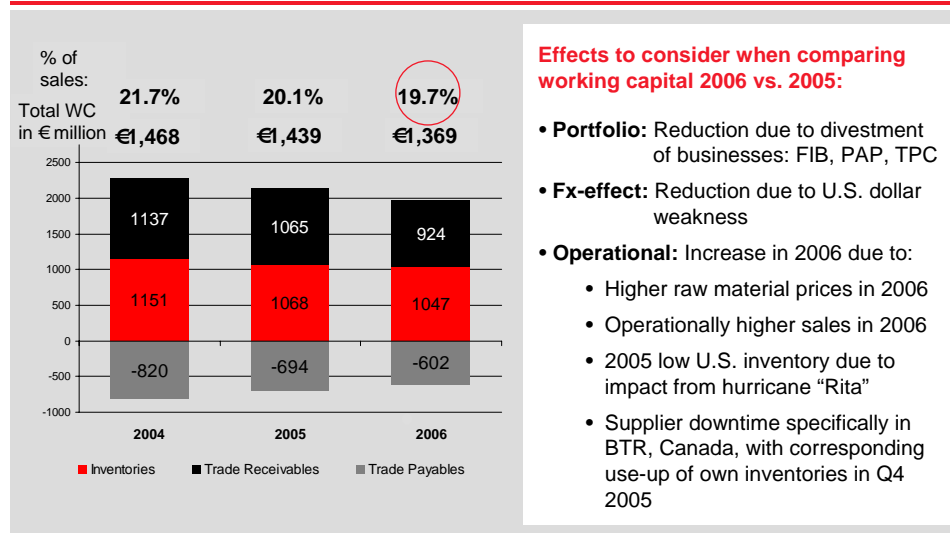
**Further reduction of net financial debt despite restructuring and rubber litigation payments**

## Cash Flow: strong underlying operating cash flow

(€m)	FY 2005	FY 2006	
<b>Profit before Tax</b>	<b>-117</b>	<b>287</b>	– Strong profit before tax
Depreciation & amortization	313	262	– Change in working capital mirrors increase after exceptionally low year-end 2005 (related to supplier downtime and other one-times)
Loss from investment in associate	35	16	
Gain from sale of assets	-1	-2	
Financial losses	72	21	– Cash flow 2006 distorted by extraordinary pay-outs:
Cash tax payments	-25	-68	– –€90 m restructuring
Changes in other assets and liabilities	241	11	– –€30 m higher bonus
<b>Operating Cash Flow before changes in WC</b>	<b>518</b>	<b>527</b>	– Changes in other assets and liabilities in 2005 contains contribution to provisions for restructuring and anti-trust
Changes in working capital	106	-118	
<b>Operating Cash Flow</b>	<b>624</b>	<b>409</b>	– Investing Cash Flow incl. €104 m from divestitures
<b>Investing Cash Flow</b>	<b>-246</b>	<b>-207</b>	
thereof capex	-251	-267	
<b>Financing Cash Flow</b>	<b>-319</b>	<b>-164</b>	

**2007 will again be burdened by restructuring cash outs**

## Working capital kept on low levels



## Update of restructuring savings after transaction of Lustran Polymers

Phase I+II+III+IV (€m)	2005	2006	2007e	2008e	2009e
P&L Expenses	-166	-31	-40	-30	-10
Cash outs	-10	-89	-120	-65	-10
Headcount reduction	~540	~650	~280	~40	0
<b>Cost reduction vs. prior year</b>	<b>10</b>	<b>55</b>	<b>50</b>	<b>50</b>	<b>40</b>
Cost reduction cumulative	10	65	115	165	205
<b>EBITDA improvement vs. prior year</b>	<b>10</b>	<b>50</b>	<b>35</b>	<b>35</b>	<b>25</b>
EBITDA improvement cumulative	10	60	95	130	155

All future figures are adjusted for the exit of LUP. The main respective cumulative effects are:

- Reduction of expected cost reduction :~€45m by 2009
- Reduction of expected EBITDA improvement:~€35m by 2009
- Lower expected cash outs: ~€50 m by 2009

**Restructuring implementation continues according to plan**

## Credit ratings – rating upgrades reflect improved business risk profile

### Investment grade rating further improved



Upgraded in July 2007 to **BBB** (stable outlook)



Upgraded in July 2007 to **Baa2** (stable outlook)



Initiated in May 2006 as unsolicited rating:  
**BBB (stable outlook)**

Better ratings enable LANXESS to benefit from favourable financing terms

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**Financials restatement 2005-2007**



## Financials restatement 2007

in €m	Performance Polymers			Advanced Intermediates			Performance Chemicals		
	Q1	Q2	HJ 2007	Q1	Q2	HJ 2007	Q1	Q2	HJ 2007
Sales	658	671	1.329	307	291	598	501	520	1.021
EBITDA pre exceptionals	101	93	194	57	50	107	82	89	171
EBITDA margin pre exceptionals (%)	15,3	13,9	14,6	18,6	17,2	17,9	16,4	17,1	16,7
EBITDA	101	93	194	57	50	107	82	89	171
EBIT pre exceptionals	76	68	144	48	41	89	60	68	128
EBIT	76	68	144	48	41	89	60	68	128
Capex	21	33	54	9	11	20	10	12	22
Depreciation and amortization	25	25	50	9	9	18	22	21	43
Employees	4.295	4.316	4.316	2.485	2.462	2.462	5.219	5.251	5.251

in €m	LUP			Recon			LANXESS Total		
	Q1	Q2	HJ 2007	Q1	Q2	HJ 2007	Q1	Q2	HJ 2007
Sales	221	223	444	24	22	46	1.711	1.727	3.438
EBITDA pre exceptionals	10	8	18	-31	-29	-60	219	211	430
EBITDA margin pre exceptionals (%)	4,5	3,6	4,1	n.a.	n.a.	n.a.	12,8	12,2	12,5
EBITDA	10	-134	-124	-38	-38	-76	212	60	272
EBIT pre exceptionals	10	8	18	-36	-34	-70	158	151	309
EBIT	10	-178	-168	-44	-43	-87	150	-44	106
Capex	4	5	9	3	3	6	47	64	111
Depreciation and amortization	0	44	44	6	5	11	62	104	166
Employees	1.583	1.556	1.556	2.904	2.815	2.815	16.486	16.400	16.400

## Financials restatement 2006

in €m	Performance Polymers					Advanced Intermediates					Performance Chemicals				
	Q1	Q2	Q3	Q4	FY 2006	Q1	Q2	Q3	Q4	FY 2006	Q1	Q2	Q3	Q4	FY 2006
Sales	639	645	644	643	2.571	298	288	274	280	1.140	614	562	528	501	2.205
EBITDA pre exceptionals	91	86	78	85	340	57	50	41	26	174	83	95	71	42	291
EBITDA margin pre exceptionals (%)	14,2	13,3	12,1	13,2	13,2	19,1	17,4	15,0	9,3	15,3	13,5	16,9	13,4	8,4	13,2
EBITDA	90	86	78	84	338	57	50	41	26	174	82	95	71	42	290
EBIT pre exceptionals	67	62	53	58	240	47	40	33	16	136	60	75	49	17	201
EBIT	66	62	53	57	238	47	40	33	16	136	59	75	49	17	200
Capex	13	22	30	61	126	8	7	10	13	38	13	12	12	25	62
Depreciation and amortization	24	24	25	27	100	10	10	8	10	38	23	20	22	25	90
Employees	4.262	4.252	4.222	4.194	4.194	2.630	2.557	2.520	2.493	2.493	5.487	5.427	5.439	5.056	5.056

in €m	LUP / FIB (in Q1)					Recon					LANXESS Total				
	Q1	Q2	Q3	Q4	FY 2006	Q1	Q2	Q3	Q4	FY 2006	Q1	Q2	Q3	Q4	FY 2006
Sales	255	228	217	213	913	30	28	28	29	115	1.836	1.751	1.691	1.666	6.944
EBITDA pre exceptionals	2	10	0	-1	11	-28	-40	-26	-47	-141	205	201	164	105	675
EBITDA margin pre exceptionals (%)	0,8	4,4	0,0	-0,5	1,2	n.a.	n.a.	n.a.	n.a.	n.a.	11,2	11,5	9,7	6,3	9,7
EBITDA	2	10	0	-1	11	-44	-51	-42	-38	-175	187	190	148	113	638
EBIT pre exceptionals	2	9	0	-1	10	-33	-48	-33	-52	-166	143	138	102	38	421
EBIT	2	9	0	-1	10	-49	-59	-50	-50	-208	125	127	85	39	376
Capex	2	3	8	13	26	1	0	6	8	15	37	44	66	120	267
Depreciation and amortization	0	1	0	0	1	5	8	8	12	33	62	63	63	74	262
Employees	1.725	1.643	1.606	1.587	1.587	3.076	3.157	3.106	3.151	3.151	17.180	17.036	16.893	16.481	16.481

## Financials restatement 2005

in €m	Performance Polymers					Advanced Intermediates					Performance Chemicals				
	Q1	Q2	Q3	Q4	FY 2005	Q1	Q2	Q3	Q4	FY 2005	Q1	Q2	Q3	Q4	FY 2005
Sales	572	625	604	624	2.425	302	303	274	282	1.161	565	614	588	584	2.351
EBITDA pre exceptionals	84	90	55	58	287	51	49	39	26	165	72	68	73	45	258
EBITDA margin pre exceptionals (%)	14,7	14,4	9,1	9,3	11,8	16,9	16,2	14,2	9,2	14,2	12,7	11,1	12,4	7,7	11,0
EBITDA	84	88	51	21	244	51	49	39	26	165	72	67	72	19	230
EBIT pre exceptionals	62	66	31	36	195	42	36	33	13	124	51	46	47	21	165
EBIT	62	64	27	-1	152	39	30	31	10	110	51	45	46	-5	137
Capex	11	19	19	53	102	7	14	9	19	49	14	18	20	19	71
Depreciation and amortization	22	24	24	22	92	12	19	8	16	55	21	22	26	24	93
Employees	4.058	4.182	4.312	4.315	4.315	2.487	2.449	2.411	2.220	2.220	5.990	6.058	6.009	5.876	5.876

in €m	LUP / FIB					Recon					LANXESS Total				
	Q1	Q2	Q3	Q4	FY 2005	Q1	Q2	Q3	Q4	FY 2005	Q1	Q2	Q3	Q4	FY 2005
Sales	234	255	251	250	990	56	62	59	46	223	1.729	1.859	1.776	1.786	7.150
EBITDA pre exceptionals	7	-6	-2	-6	-7	-33	-38	-17	-34	-122	181	163	148	89	581
EBITDA margin pre exceptionals (%)	3,0	-2,4	-0,8	-2,4	-0,7	n.a.	n.a.	n.a.	n.a.	n.a.	10,5	8,8	8,3	5,0	8,1
EBITDA	7	-6	-2	-6	-7	-33	-38	-145	-75	-291	181	160	15	-15	341
EBIT pre exceptionals	5	-6	-3	-7	-11	-39	-42	-20	-40	-141	121	100	88	23	332
EBIT	3	-18	-6	-13	-34	-39	-44	-152	-102	-337	116	77	-54	-111	28
Capex	3	5	3	7	18	16	-8	1	2	11	51	48	52	100	251
Depreciation and amortization	4	12	4	7	27	6	6	7	27	46	65	83	69	96	313
Employees	2.476	2.364	2.354	2.283	2.283	3.788	3.672	3.480	3.588	3.588	18.799	18.725	18.566	18.282	18.282

# Performance Polymers

LANXESS Group

**Performance Polymers**

Advanced Intermediates

Performance Chemicals

**Performance Polymers**

LANXESS has an extensive knowledge in the field of rubbers and polymers. These activities are regrouped in the **Performance Polymers** segment.

After the reclassification of SCP, the segment now comprises four business units:

**Butyl Rubber (BTR)**

**Polybutadiene Rubber (PBR)**

**Technical Rubber Products (TRP)**

**Semi-Crystalline Products (SCP)**

Performance Polymers – Structure

**A leading polymer producer with strong market positions in the automotive and tire industries**

**Butyl Rubber**



Manufactures butyl rubber, which is a general purpose rubber impermeable to air with wide applications both in tire and other industries, such as pharmaceutical closures and chewing gum

**Polybutadiene Rubber**



One of the world's leading manufacturers of general purpose rubbers polybutadiene- and solution-styrene-polybutadiene-rubber used principally in tire compounds

**Technical Rubber Products**



Provides a broad range of specialty elastomers for the rubber processing industry with wide applications e.g. automotive, engineering, construction, electronics, oil exploration, aviation

**Semi-Crystalline Products**



Provides a range of PA/ PBT resins, compounds and blends principally to the automotive and electrical industries. Committed to the development of products and new applications  
PA Polyamide  
PBT Polybutyleneterephthalate

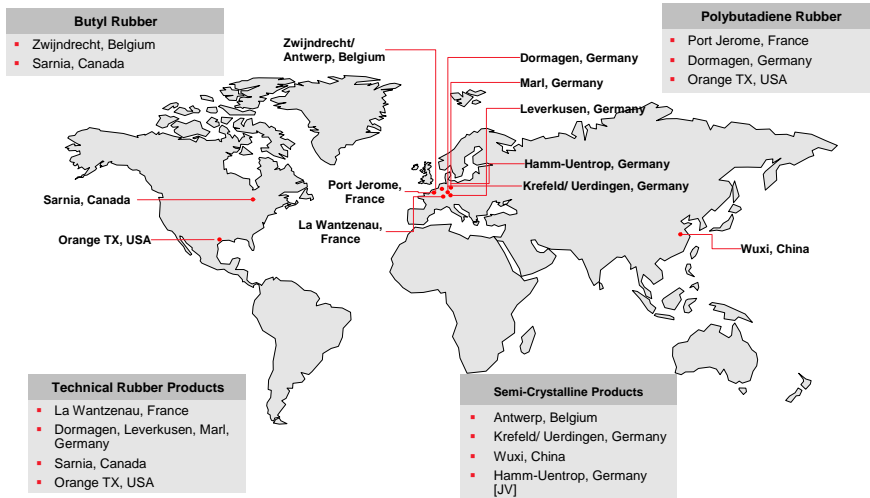
- Automotive and tire industries as the major end-users
- Mainly price-, cost- and technology-driven
- Based on butadiene, isobutene, ethylene, propylene, isoprene, acrylonitrile, cyclohexane

## Summary of key financials (restated)

Key Financials (in €m)	2005					2006					HJ/2007		
	Q1	Q2	Q3	Q4	2005	Q1	Q2	Q3	Q4	2006	Q1	Q2	HJ/2007
<b>Performance Polymers</b>													
Sales	572	625	604	624	2.425	639	645	644	643	2.571	658	671	1.329
EBITDA pre exceptionals	84	90	55	58	287	91	86	78	85	340	101	93	194
EBITDA margin pre exceptionals (%)	14,7	14,4	9,1	9,3	11,8	14,2	13,3	12,1	13,2	13,2	15,3	13,9	14,6
EBITDA	84	88	51	21	244	90	86	78	84	338	101	93	194
EBIT pre exceptionals	62	66	31	36	195	67	62	53	58	240	76	68	144
EBIT	62	64	27	-1	152	66	62	53	57	238	76	68	144
Capex	11	19	19	53	102	13	22	30	61	126	21	33	54
Depreciation and amortization	22	24	24	22	92	24	24	25	27	100	25	25	50
Employees	4.058	4.182	4.312	4.315	4.315	4.262	4.252	4.222	4.194	4.194	4.295	4.316	4.316

Restatement of quarterly and FY numbers after reclassification of segments.  
 Performance Polymers numbers include the BUs **BTR**, **PBR**, **TRP** and **SCP**.

## Serving global markets with world-class manufacturing base



## Turning strength into value

- A market leader in synthetic rubber
- Stronger participation in Asian growth
- Realize significant cost advantages through concentration on world-scale plants
- Capacity expansions in promising business segments
- More cost-efficient set-up after restructuring
- Development of non-automotive/ non-tire markets and rubber specialty segments

LANXESS Group

**Performance Polymers**

Advanced Intermediates

Performance Chemicals

**Butyl Rubber (BTR)**

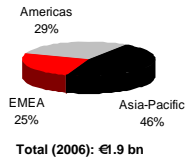
Polybutadiene Rubber (PBR)

Technical Rubber  
Products (TRP)

Semi-Crystalline  
Products (SCP)

## Strong market & technology position as basis to participate in attractive growth areas

### Global Demand



Source: LXS estimates

### Market Development

- Based on currently installed capacities, constraints or even shortages likely mid-term
- The overall CAGR (07-12) is assumed to be 3%
  - North America ~1%
  - EMEA ~2%
  - Asia-Pacific ~4,5%

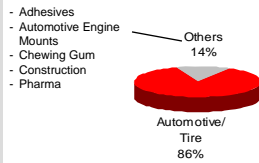
Source: LXS estimates

### Competition

- Competitors are:
  - ExxonMobil Chemical
  - Nizhnekamskneftekhim
  - Togliattikauchuk (Sibur Holding)
  - Sinopec (Beijing Yanhua)

LXS estimates, based on volume terms

### End Uses



based on BU sales 2006

### Cost/Technology Position

- Cost efficiency due to world-scale plants
- One of two major producers of butyl rubber

### Products

- Regular butyl rubber
- Halobutyl rubber

## Tires are the main applications for butyl rubber

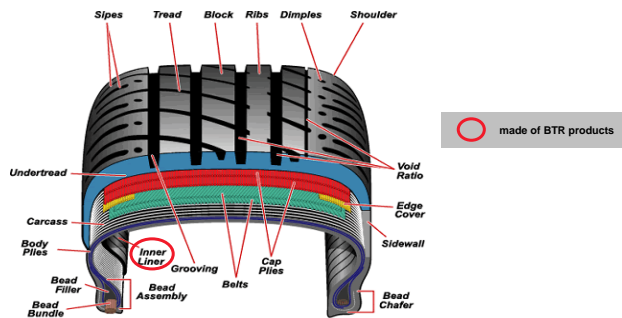
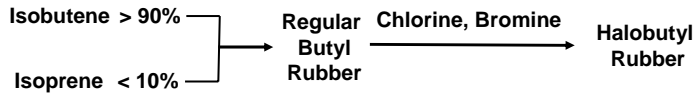
### Products

- Halobutyl Rubber:**
  - CHLOROBUTYL®
  - BROMOBUTYL®
- Regular Butyl Rubber**
  - BUTYL®

### Main Applications

- Tire inner-liners
- Pharmaceutical stoppers
- Inner-tubes for tires
- Tire curing bladders/ envelopes
- Chewing gum

## A leading producer of butyl and halobutyl rubber



## A leading market and technology position as well as strong customer relationships

### Competitive Advantages

- A leading market position in overall market for butyl rubber
- Low cost, high efficiency world scale plants for manufacturing in Belgium and Canada allow flexible production of butyl and halobutyl rubber
- Leading technology
- Strong customer relationships based on collaborations with tire manufacturers to meet specific customer needs
- Strong infrastructure in Asia-Pacific

### Challenges

- Increasing Asian and Russian competition
- Change of air-retention-technology is a potential threat



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**Performance Polymers**

Advanced Intermediates

Performance Chemicals

Butyl Rubber (BTR)

**Polybutadiene Rubber (PBR)**

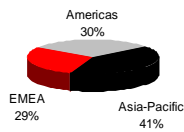
Technical Rubber Products (TRP)

Semi-Crystalline Products (SCP)

Performance Polymers – Polybutadiene Rubber

## Leading market positions and world-scale plants in important markets

### Global Demand



Total (2006): 3.2 million tons

Source: LXS estimates

### Market Development

- Capacity expected to grow below market growth
- Expected volume growth (CAGR 05–10) 3%:
  - Americas 0%
  - EMEA ~2%
  - Asia-Pacific ~5%

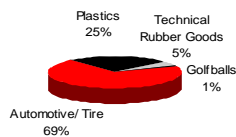
Source: LXS estimates

### Competition

- Competitors are:
  - Sinopec
  - Michelin/ ASRC
  - Goodyear
  - Firestone

LXS estimates, based on volume terms

### End Uses



based on BU sales 2006

### Cost/Technology Position

- Only player in merchant market with production sites in two regions
- World-scale plants with continuous polymerization and advantageous scale in finishing

### Products

- Polybutadiene rubber
- Solution styrene-butadiene rubber

## Automotive and tire industries are the main customers of Polybutadiene Rubber

### Products

#### ▪ Solution Styrene-Butadiene Rubber (S-SBR)

- Buna™ VSL
- Buna™ BL

#### ▪ Polybutadiene Rubber (PBR)

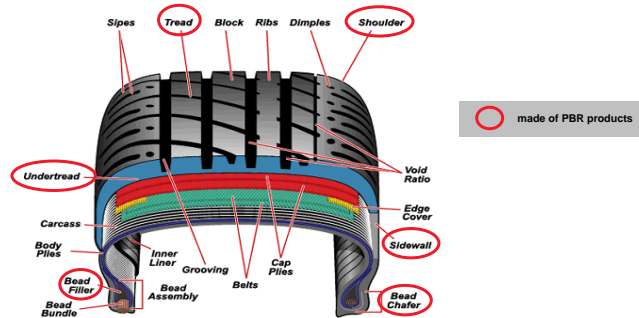
- Buna™CB
- Taktene ©

### Main Applications

- Tire treads, e.g. low-rolling-resistance tire
- Tire retreads
- Tire sidewalls
- Plastics modification (HIPS, ABS)
- Golf balls
- Shoe soles

## One of the world's major suppliers

Butadiene → Polybutadiene Rubber



## Broad and innovative product portfolio combined with excellent reputation

### Competitive Advantages

- Broad and innovative product portfolio offered to both tire manufacturers and plastic producers
- Strategic focus on high performance products
- Only player in the merchant market with modern, cost efficient world scale production sites in two regions
- Scale advantages
- Located close to customers
- Strategic raw material (butadiene) is secured structurally
- Reputation with customers for reliable performance and delivery

### Challenges

- Offset purchasing power of large global and in some cases backward integrated customers
- Cope with customer expansion into Asia and LATAM leading to:
  - Overall tire capacity inflation
  - Price pressure in tire market

LANXESS Group

**Performance Polymers**

Advanced Intermediates

Performance Chemicals

Butyl Rubber (BTR)

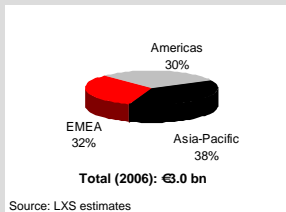
Polybutadiene Rubber (PBR)

**Technical Rubber Products (TRP)**

Semi-Crystalline Products (SCP)

## Leading market positions, state-of-the-art technology and world-scale plants

### Global Demand



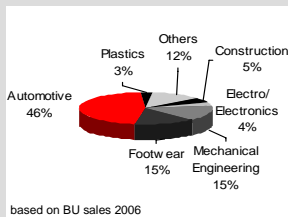
### Market Development

- For EPDM and NBR price pressure expected to slow down as supply and demand narrowing
  - Expected volume growth (CAGR 05–10): ~3%
    - CR: ~1%
    - EPDM: ~3%
    - NBR: ~3%
    - HNBR: ~3%
    - EVM: ~7%
- Source: LXS estimates

### Competition

- Competitors are:
    - Nippon Zeon
    - Polimeri Europa
    - DSM
    - JSR
- LXS estimates, based on volume terms

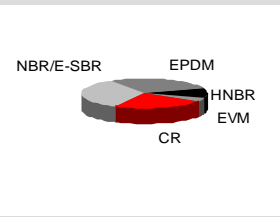
### End Uses



### Cost/Technology Position

- State-of-the-art process technology
- Attractive cost position due to world-scale plants
- High innovation potential in HNBR (e.g. Therban AT) and EVM

### Products



## Focus on non-tire applications

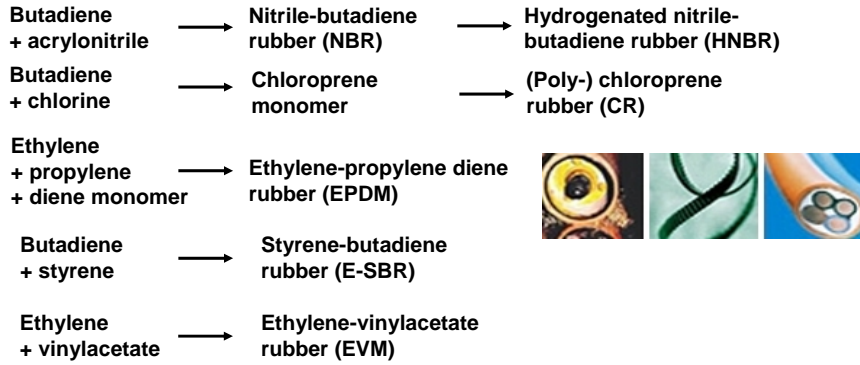
### Products

- Chloroprene rubber (CR): BAYPREN®
- Nitrile-butadiene rubber (NBR): KRYNAC®, PERBUNAN®
- Ethylene-propylene diene rubber (EPDM): BUNA™ EP
- Hydrogenated nitrile-butadiene rubber (HNBR): THERBAN®
- Ethylene-vinyl acetate rubber (EVM): LEVAPREN®, LEVAMELT®
- Emulsion styrene-butadiene rubber (E-SBR): KRYLENE®

### Main Applications

- Functional, safety & performance parts for automotive (belts, hoses, wiper blades, weather strips, seals)
- Mechanical engineering (hoses, tubes, cables, gaskets, membranes, roll covers)
- Leisure industry (sponges, shoe soles)
- Building materials (membranes, seals, cables)

## A leading supplier of specialty elastomers for the rubber industry



## Strong innovation capabilities combined with world-scale plants to enable future growth

### Competitive Advantages

- Broad and deep product portfolio with strong brand marketing
- World-scale plants with state-of-the-art production facilities and processes
- Significant improvements in manufacturing performance
- Broad customer basis
- Strong position in premium EVM and HNBR segments
- Strong innovation capability and promising new product pipeline

### Challenges

- Pass through of raw material price increases
- Market consolidation and migration to Asia
- Substitution by alternative rubber materials
- Strengthen position as innovation-driven supplier for the rubber industry

LANXESS Group

**Performance Polymers**

Advanced Intermediates

Performance Chemicals

Butyl Rubber (BTR)

Polybutadiene Rubber (PBR)

Technical Rubber Products (TRP)

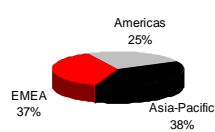
**Semi-Crystalline Products (SCP)**

Performance Polymers – Semi-Crystalline Products

## High-value product portfolio and back-integration in strategic raw materials

### Global Demand \*

\* Engineering plastics based on PA and PBT



Total (2006): €7.4 bn

Source: LXS estimates

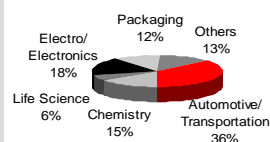
### Market Development

- High growth potential above GDP for engineering plastics based on PA and PBT
- EMEA is still the largest market for SCP (PA and PBT compounds), while strongest growth is in Asia
- Consolidation process in molding industry is expected

### Competition

- The unit holds strong positions in EMEA and is evolving in Asia
- Main competitors in Europe are BASF, DSM, DuPont and Rhodia
- Market players have different product portfolio structures

### End Uses

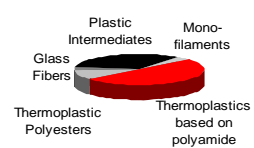


based on BU sales 2006

### Cost/Technology Position

- Engineering plastics:**
- Optimized product portfolio to ensure profitability
  - Lean asset investments with regional focus
- Intermediates:**
- Cost-based advantage within world-scale assets
  - High capacity utilization supported by growing captive demand for engineering plastics

### Products



## DURETHAN® and POCAN® have numerous applications across a variety of industries

### Products

- DURETHAN® A - based on polyamide 6.6
- DURETHAN® B – based on polyamide 6
- POCAN® - based on polybutylene terephthalate (PBT) and polyethylene terephthalate (PET)

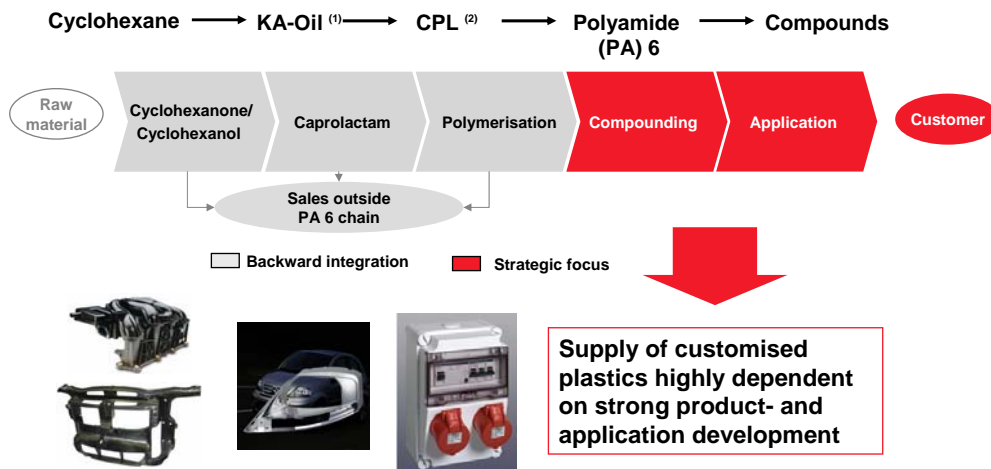
Available types for all three: non-reinforced, glass fiber reinforced, glass-bead and mineral-filled, glass fiber reinforced/ mineral-filled, flame-retardant, and polymer and elastomer-modified grades

- Glass fibers
- Plastics intermediates such as adipic acid or caprolactam
- Polyamide-based monofilament products PERLON® and ATLAS®

### Main Applications

- DURETHAN® A: automotive industry, construction & housing and electrical/ electronic sector
- DURETHAN® B: appliances, automotive industry, construction & housing, electrical/ electronic sector, furniture, industrial/ mechanical products, information technology, packaging and sport & leisure
- POCAN®: appliances, automotive industry, electrical/ electronic sector, information technology and medical products
- Glass fibers used for reinforcement of plastics
- Plastics intermediates as raw materials for plastics
- Monofilament: mainly paper machine clothing

## SCP is increasingly focussed on value-added parts of the manufacturing chain



(1) Cyclohexanone/ Cyclohexanol    (2) Caprolactam

## Back-integration and focused investments enable attractive profitability and growth

### Competitive Advantages

- Balanced product portfolio (PA, PBT) and strong brands in compounds
- Expertise and track record in application engineering and development support long-term customer relationships
- Focus on differentiated grades allows SCP to maximise the benefits of its development, application and compounding know-how
- World-scale backward integration into caprolactam, adipic acid and glass fibres

### Challenges

- Increase in raw material prices
- Increase in energy cost
- Increasing bargaining power of customer in molding industry due to consolidation process



# Advanced Intermediates

LANXESS Group

Performance Polymers

**Advanced Intermediates**

Performance Chemicals

### Advanced Intermediates

The **Advanced Intermediates** segment has a comprehensive portfolio of chemical starting materials and intermediate products. Its core competencies lie in research and development and the production and marketing of industrial and fine chemicals.

The segment comprises two business units:

**Basic Chemicals (BAC)**

**Saltigo (SGO)**

Advanced Intermediates – Structure

## Intermediate products and custom manufactured fine chemicals

### Basic Chemicals



Supplier of :

- Aromatic compounds such as e.g. cresols, chlorobenzenes, chlorotoluenes and nitrotoluenes
- As well as amines, polyols, monoisocyanates, thio products, inorganic acids

### Saltigo



A leading company in custom manufacturing focussed on:

- Agrochemicals
- Pharmaceuticals
- Specialties

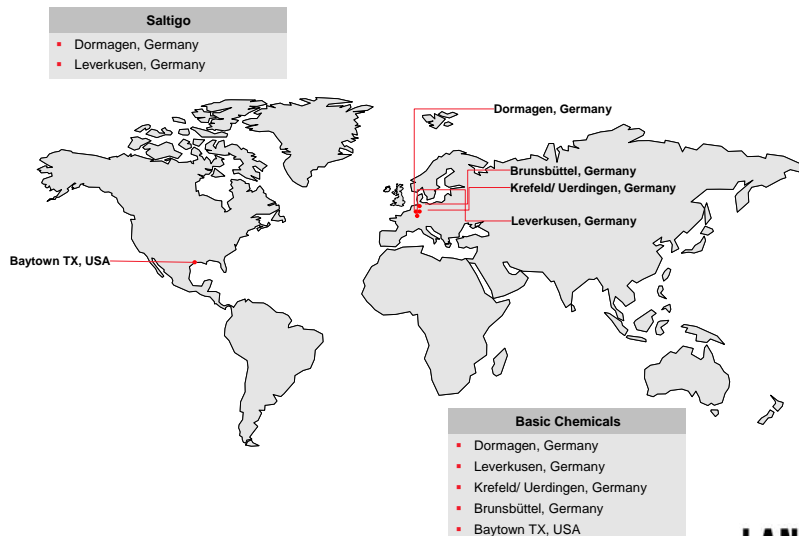
## Summary of key financials (restated)

Key Financials (in €m)	2005					2006					HJ/2007		
	Q1	Q2	Q3	Q4	2005	Q1	Q2	Q3	Q4	2006	Q1	Q2	HJ/2007
<b>Advanced Intermediates</b>													
Sales	302	303	274	282	1.161	298	288	274	280	1.140	307	291	598
EBITDA pre exceptionals	51	49	39	26	165	57	50	41	26	174	57	50	107
EBITDA margin pre exceptionals (%)	16,9	16,2	14,2	9,2	14,2	19,1	17,4	15,0	9,3	15,3	18,6	17,2	17,9
EBITDA	51	49	39	26	165	57	50	41	26	174	57	50	107
EBIT pre exceptionals	42	36	33	13	124	47	40	33	16	136	48	41	89
EBIT	39	30	31	10	110	47	40	33	16	136	48	41	89
Capex	7	14	9	19	49	8	7	10	13	38	9	11	20
Depreciation and amortization	12	19	8	16	55	10	10	8	10	38	9	9	18
Employees	2.487	2.449	2.411	2.220	2.220	2.630	2.557	2.520	2.493	2.493	2.485	2.462	2.462

Restatement of quarterly and FY numbers after reclassification of segments.

Advanced Intermediates numbers include the BUs **BAC** and **SGO**.

## Advanced Intermediates relies on a manufacturing base with main focus in Europe



## BAC and SGO as strong and reliable partners for advanced intermediates

- Further debottlenecking and consolidation of existing asset structures in Western hemisphere
- Leverage organic growth opportunities from market consolidation
- Strengthen profitability through continuation of cost and efficiency programs
- Occupy the fast developing high quality segments in emerging markets
- Actively leverage low cost Asian sources for raw materials and precursors

LANXESS Group

Performance Polymers

**Advanced Intermediates**

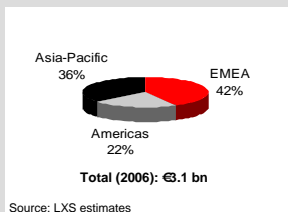
Performance Chemicals

**Basic Chemicals (BAC)**

Saltigo (SGO)

## Leading positions in industry with Asian competition and consolidation trends

### Global Demand



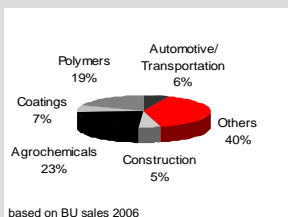
### Market Development

- Stable market due to high diversity of end uses
- World demand growth according to GDP
- Strong growth in Asia-Pacific, especially in China and India
- Stable demand in consolidated European and American markets

### Competition

- The business unit maintains strong positions in all its product lines
- For some products overcapacities exist in Asia with pressure for consolidation
- Main competitors are Jiangsu Yangnong, Aarti, Kureha, Merisol, Perstorp, Tessenderlo and BASF

### End Uses



### Cost/Technology Position

- For most segments world-scale capacities and competitive processes result in cost advantages
- Continuous productivity improvements
- High capacity utilization with well balanced isomer management

### Products

- Chlorobenzenes + derivatives
- Chlorotoluenes + derivatives
- Nitrotoluenes + derivatives
- Polyols/ Oxidation products
- Inorganic acids
- Benzyl products/ Amines

## BAC offers broad product range for use in numerous end-user industries

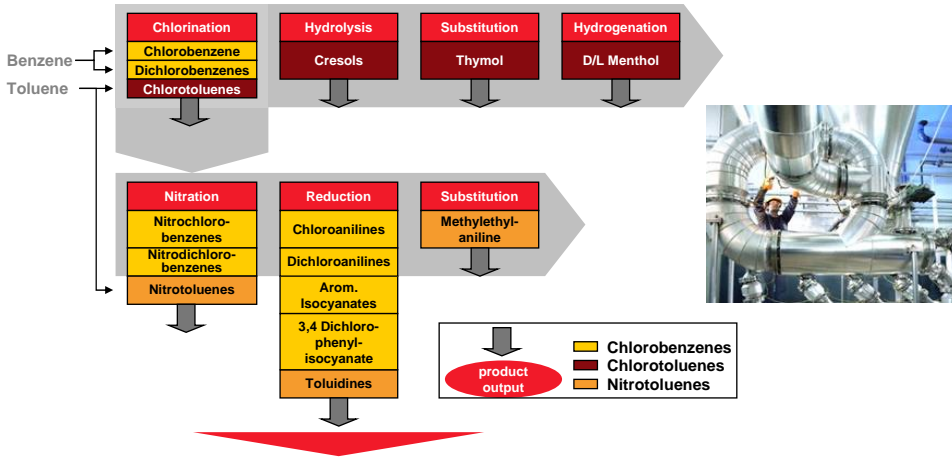
### Products

- Chlorobenzenes and derivatives
- Aliphatic and aromatic monoisocyanates
- Chlorotoluenes and cresols, butylhydroxytoluene
- Nitrotoluenes and derivatives
- Polyols (e.g. trimethylolpropane)
- Oxidation products (maleic anhydride, phthalic anhydride)
- Cyclohexylamine, dicyclohexylamine
- Benzyl alcohol, benzyl chloride, benzo trichloride, benzoyl chloride
- Benzylamine, Monoisopropanolamine, Diisopropanolamine
- Hydrofluoric acid, anhydrite
- Sulphur products (sulphuric acid/ oleum, sodium bisulfite, thionyl chloride, sulfuryl chloride, disulphur dichloride)

### Main Applications

- The unit sells intermediates used in the following industries and sectors:
  - Agrochemicals
  - Polymers
  - Coatings
  - Automotive and transportation industries
  - Construction

## Unique, integrated manufacturing process provides clear competitive advantage



Output of individual products can be modified according to market needs in order to optimise overall revenue

## BAC will take advantage of strong European base to further generate value globally

### Competitive Advantages

- Competitive technologies, world-scale production facilities and high utilization rates provide cost advantage
- The unique “Aromatenverbund” system enables BAC to optimize its capacity utilization, cost of production and product mix ensuring a solid market position
- BAC further strengthened its competitive advantages by enhancing productivity and intelligent isomer management

### Challenges

- In some segments newly built facilities in Asia lead to overcapacity and put pressure on world market
- Migration of downstream industries to Asia (textiles, dyestuffs, fluoro chemicals, pigments, etc.)
- REACH and other regulations will lead to cost increases for European producers

LANXESS Group

Performance Polymers

**Advanced Intermediates**

Performance Chemicals

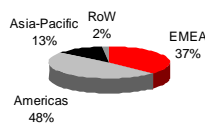
Basic Chemicals (BAC)

**Saltigo (SGO)**

## Advanced Intermediates – Saltigo

# Saltigo is serving the market with high-end custom manufacturing of fine chemicals

### Global Demand



Total (2006): €13.0 bn

Source: LXS estimates

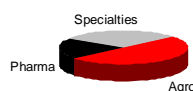
### Market Development

- Industry consolidation is going on
- Asian competitors in intermediates and generics
- Customers are looking for a strong and committed supplier in a fragmented market for custom manufacturing
- Trend towards complex molecules and long reaction chains

### Competition

- Saltigo is among the top global players in custom manufacturing
- One of the leaders in custom manufacturing of agrochemicals
- Established supplier for the pharmaceutical industry
- Producer of selected specialties
- Main competitors are DSM, Lonza, WeylChem and Albemarle

### End Uses



based on BU sales 2006

### Cost/Technology Position

- Saltigo is providing state-of-the-art technology and services to the pharmaceuticals, agrochemicals and specialty chemicals industries
- Integrated production facilities combined with competence in challenging chemistries
- Saltigo continues restructuring process to further increase competitiveness

### Products

- Custom manufactured active ingredients and intermediates for life-science and other industries
- Multi-customer fine chemicals
- Process development services (route selection, lab scale development, pilotation, analytical services)
- Mainly concentrated on patent protected customer products

## Intermediates and active ingredients for pharma, agrochemical and other industries

### Products

- Saltigo is focused on customized
  - synthesis,
  - process development,
  - manufacturing,
  - services.
- Based on a large experience in fine chemicals production Saltigo also offers a broad portfolio of high quality multi-customer products

### Main Applications

- Intermediates and active components for the agrochemical industry
- Intermediates and active ingredients for the pharmaceutical industry
- Specialty fine chemicals for applications like imaging, polymer additives, electronics, consumer care and other innovative products

## Focused on custom manufacturing of fine chemicals





## Taking advantage of its expertise in complex processes and challenging chemistry

### Competitive Advantages

- Successfully established brand and focused market approach
- Strong customer relationships based on established track record
- Technology leadership in high-end chemistry
- Expertise in the field of complex chemistry and fast “ramp-up” capabilities, particularly in the agrochemicals segment

### Challenges

- Overcapacities in custom manufacturing
- Ongoing market consolidation
- Cost pressure
- Competition from Asia, especially for low-end intermediates

**Performance Chemicals**

- LANXESS Group
- Performance Polymers
- Advanced Intermediates
- Performance Chemicals**

**Performance Chemicals**

The **Performance Chemicals** segment with its various business units offers a broad spectrum of process and functional chemicals for a variety of industries.

After the reclassification of segments, the segment comprises seven business units:

- Material Protection Products (MPP)**
- Inorganic Pigments (IPG)**
- Functional Chemicals (FCC)**
- Leather (LEA)**
- RheinChemie (RCH)**
- Rubber Chemicals (RUC)**
- Ion Exchange Resins (ION)**

**BUs produce service- and application-driven products for a wide range of industries**

**Material Protection Products**



Comprehensive range of biocides and specialties for:

- Beverage stabilization
- Wood preservatives/antifouling products
- Industrial preservation and disinfection

**Inorganic Pigments**



A leading global supplier of inorganic pigments primarily for the

- Construction
- Paints and coatings
- Plastics industries

**Functional Chemicals**



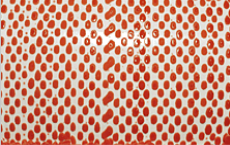



Manufactures products such as:

- Plastic additives
- Flame retardants
- Water chemicals
- Specialty dyes
- Colorants

- Mainly service- and application-driven
- Serving a wide range of industries
- Covering either the whole value chain of a specific industry or providing a specific functionality

## BU produce service- and application-driven products for a wide range of industries (continued)

Leather	RheinChemie	Rubber Chemicals	Ion Exchange Resins
			
<p>Broad range of specialty products for the leather industry including:</p> <ul style="list-style-type: none"> <li>▪ Tanning agents</li> <li>▪ Preservatives</li> <li>▪ Finishing auxiliaries</li> <li>▪ Dye products</li> </ul>	<p>Providing technical services and additives for the</p> <ul style="list-style-type: none"> <li>▪ Rubber</li> <li>▪ Polyurethane</li> <li>▪ Plastics</li> <li>▪ Lubricant oil industries</li> </ul>	<p>Full portfolio of rubber chemicals for the tire and technical rubber industry including:</p> <ul style="list-style-type: none"> <li>▪ Antidegradants</li> <li>▪ Accelerators</li> <li>▪ Specialties</li> </ul>	<p>Providing ion exchange resins and complete solutions for the treatment of liquids in the following industries:</p> <ul style="list-style-type: none"> <li>▪ Water</li> <li>▪ Foodstuff</li> <li>▪ Chemicals</li> </ul>
<ul style="list-style-type: none"> <li>▪ Mainly service- and application-driven</li> <li>▪ Serving a wide range of industries</li> <li>▪ Covering either the whole value chain of a specific industry or providing a specific functionality</li> </ul>			

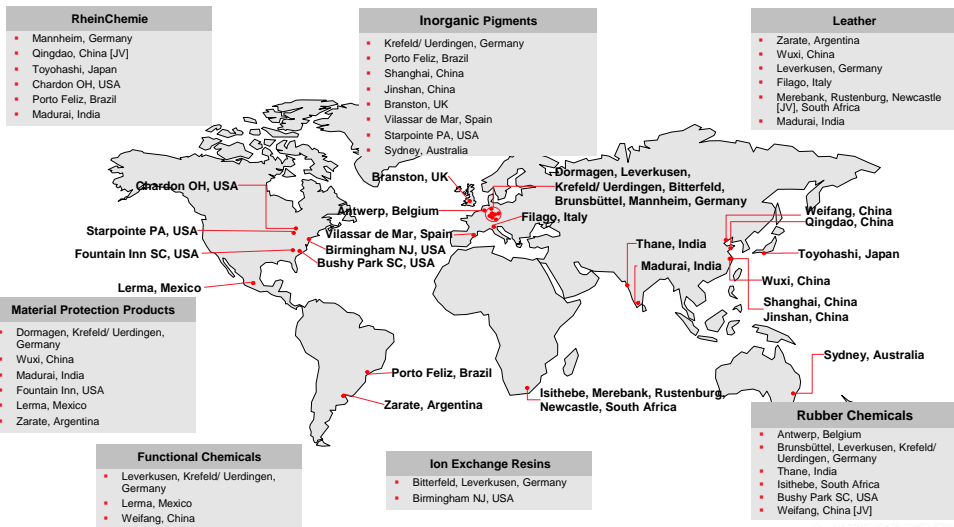
## Summary of key financials (restated)

Key Financials ( in €m)	2005					2006					HJ/2007		
	Q1	Q2	Q3	Q4	2005	Q1	Q2	Q3	Q4	2006	Q1	Q2	HJ/2007
Performance Chemicals													
Sales	565	614	588	584	2,351	614	562	528	501	2,205	501	520	1,021
EBITDA pre exceptionals	72	68	73	45	258	83	95	71	42	291	82	89	171
EBITDA margin pre exceptionals (%)	12,7	11,1	12,4	7,7	11,0	13,5	16,9	13,4	8,4	13,2	16,4	17,1	16,7
EBITDA	72	67	72	19	230	82	95	71	42	290	82	89	171
EBIT pre exceptionals	51	46	47	21	165	60	75	49	17	201	60	68	128
EBIT	51	45	46	-5	137	59	75	49	17	200	60	68	128
Capex	14	18	20	19	71	13	12	12	25	62	10	12	22
Depreciation and amortization	21	22	26	24	93	23	20	22	25	90	22	21	43
Employees	5.990	6.058	6.009	5.876	5.876	5.487	5.427	5.439	5.056	5.056	5.219	5.251	5.251

Restatement of quarterly and FY numbers after reclassification of segments.

Performance Chemicals numbers include the Bus **MPP**, **IPG**, **FCC**, **LEA**, **RCH**, **RUC** and **ION**.

## Performance Chemicals has a world-wide manufacturing base



## Build on strengths to grow in profitable business segments and expand regional coverage

- Strengthen regional activities by expansion of local technical service and increase geographic diversification
- Develop profitable businesses through innovation and intensify innovation partnerships with customers
- Broaden product portfolio to increase coverage of customers' value chain
- Widen industrial application focus

LANXESS Group  
Performance Polymers  
Advanced Intermediates  
**Performance Chemicals**

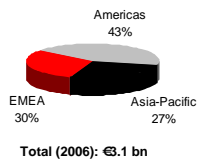
**Material Protection Products (MPP)**

Inorganic Pigments (IPG)  
Functional Chemicals (FCC)  
Leather (LEA)  
RheinChemie (RCH)  
Rubber Chemicals (RUC)  
Ion Exchange Resins (ION)

Performance Chemicals – Material Protection Products

**Due to its strong technology/ IP position MPP benefits from increasing regulatory requirements**

**Global Demand**



Source: LXS estimates

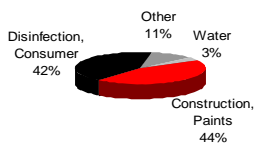
**Market Development**

- Ongoing demand for customer specific solutions
- Increasing regulatory requirements
- Market growth above GDP level expected to continue, especially in Europe
- Growth potential/ back-log demand in Asia and Latin America

**Competition**

- Main competitors are: Arch, Dow, Lonza, Rohm & Haas and Thor

**End Uses**



based on BU sales 2006

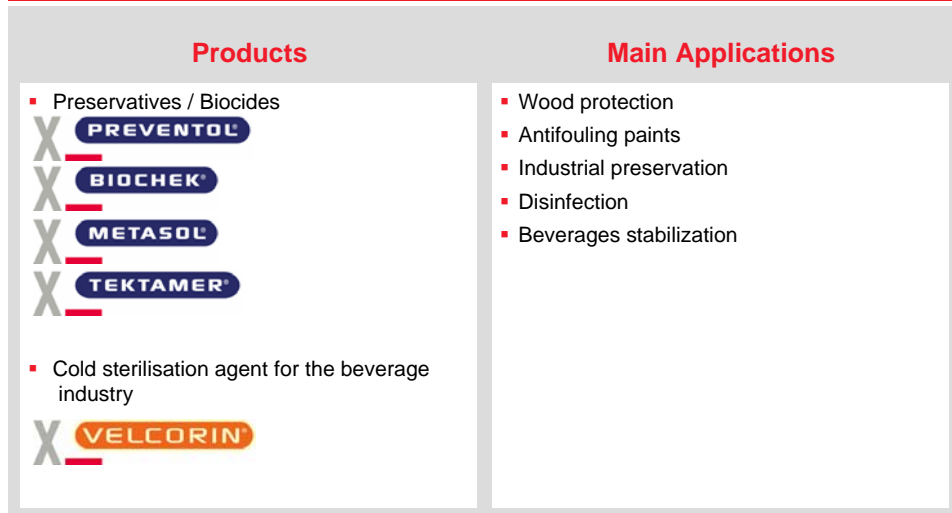
**Cost/Technology Position**

- Broadest portfolio of actives ingredients
- Comprehensive registration and patent-package
- Leading technology positions
- High innovation potential
- Forward integration into formulations and international expansion

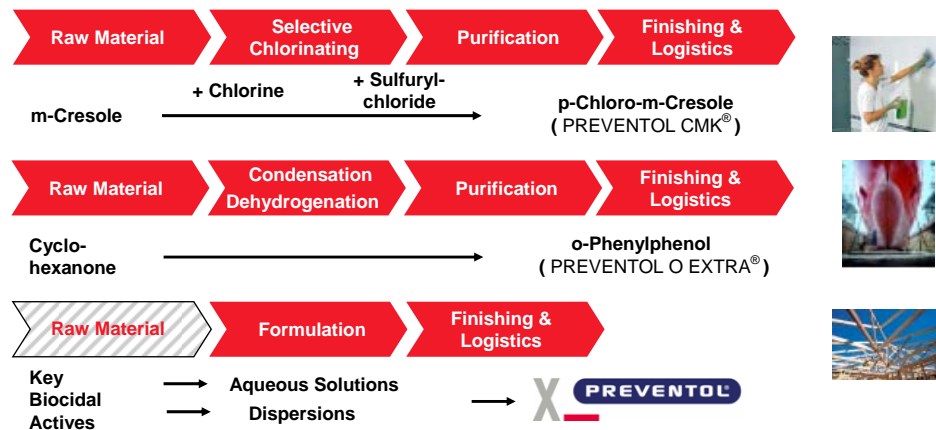
**Products**

- Broad range of biocidal active ingredients/ formulations
  - beverage stabilization
  - wood protection and antifouling
  - industrial preservation
  - disinfection and personal care

## Products and problem solutions for a wide area of applications



## A leading producer of biocides and biocidal formulations



## MPP uses broad expertise in biocides to provide customer specific solutions

### Competitive Advantages

- Broad and innovative portfolio with unique properties
- Strong development capabilities
- Global sales and service network
- High expertise in regulatory matters and broad portfolio of biocidal registrations

### Challenges

- Increasing regulatory requirements
- Low cost Chinese/ Indian competition in commodity-type biocidal actives

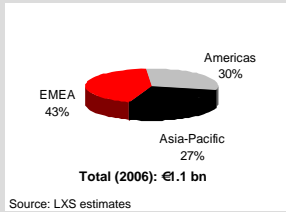
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Ion Exchange Resins (ION)



## IPG offers high quality pigments for construction, coatings, plastics and other applications

### Global Demand



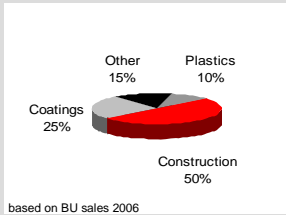
### Market Development

- Increasing demand for higher quality products in coatings/ plastics
- Attractive market development in Western Europe
- Price pressure in lower quality construction segment
- High growth rates in booming Asian economies as well as in the Middle East and Eastern Europe

### Competition

- Strong market positions in iron oxide (BAYFERROX®) and chromium oxide pigments
- Main competitors: Rockwood and Chinese Companies (e.g. Cathay Pigments, Deqing Huayuan Pigment, Hunan Three-Ring Pigments, Yipin Pigments, Yixing Yuxing Pigments)

### End Uses



### Cost/Technology Position

- LANXESS benefits from economies of scale and its unique Laux process for the production of iron oxide pigments
- Global footprint of technically sophisticated production units to manufacture higher quality products

### Products

- Iron oxides
- Chromium oxides

## Under its famous brands IPG offers a broad product range for its customers

### Products

- A leading producer of iron oxide pigments offering a broad product range
- Provider of color pigments to various industries, in particular construction
- Important products include iron oxide pigments BAYFERROX®, BAYOXIDE®, BAYSCAPE®, COLORTHERM® and chromium oxide products

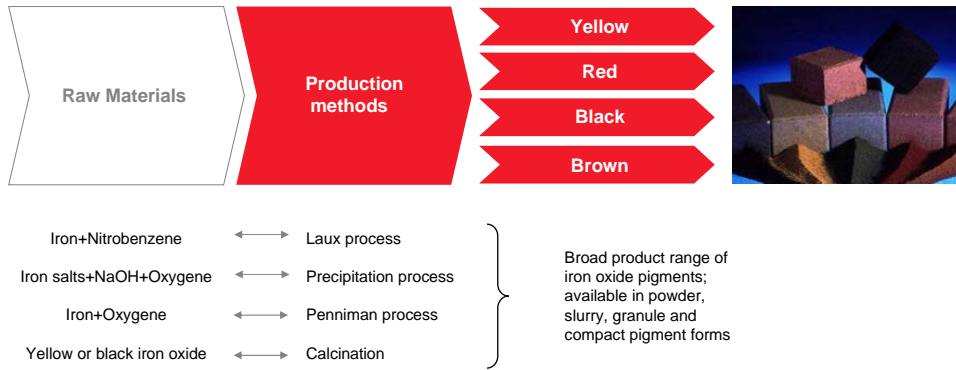


### Main Applications

- Coloring of construction materials (asphalt, concrete for floors, roofs and walls)
- Paints and coatings (architectural paints as well as industrial coatings)
- Other applications include products used for coloring of plastics and paper and manufacture of refractory, ceramics, brake linings, mulch, glazes and airbags
- IPG also supplies oxides with tailored magnetic, chemical and morphological properties for the production of toners used in photocopiers and laser printers

## Various technologies are applied to produce a full range of colors

Producing iron oxides at its sites in Germany, China and Brazil, LANXESS can offer a broad and innovative product range using different production methods



## World-scale production capacities and global market access key competitive advantages of IPG

### Competitive Advantages

- State-of-the-art world-scale production capacities and superior product quality
- Broad product portfolio covering all colors/ supply forms for all applications with strong established brands such as BAYFERROX®
- Worldwide distribution network and local blending units

### Challenges

- Chinese producers with lower cost structure, fast capacity build-up and improvements in quality
- Increasing raw material and energy costs

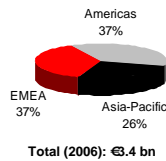
LANXESS Group  
Performance Polymers  
Advanced Intermediates  
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Ion Exchange Resins (ION)

Performance Chemicals – Functional Chemicals

**FCC is well positioned to supply products meeting strict environmental & regulatory requirements**

**Global Demand**



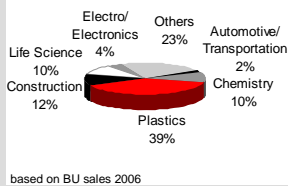
**Market Development**

- Increasing demand for more environmentally friendly and ecological products meeting regulatory requirements, e.g. halogen- or phthalate-free additives
- Cost pressure in commodity products, especially from Asian producers

**Competition**

- Main competitors: Albemarle, BASF, Ciba, Chemtura, Clariant, Ferro, Lonza, Sun Chemicals, ICL/ Supresta

**End Uses**



**Cost/Technology Position**

- Backward-integrated in phosphorous chemicals
- Cost advantages due to economies of scale
- Strong technology and quality position to drive changes in the market place (substitution potential)

**Products**

- Organic phosphorous chemicals, incl. flame retardants
- Polymer additives, incl. plasticizers
- Organic colorants
- Hydrazine hydrate
- Water treatment chemicals

## Numerous applications provided to a variety of industries

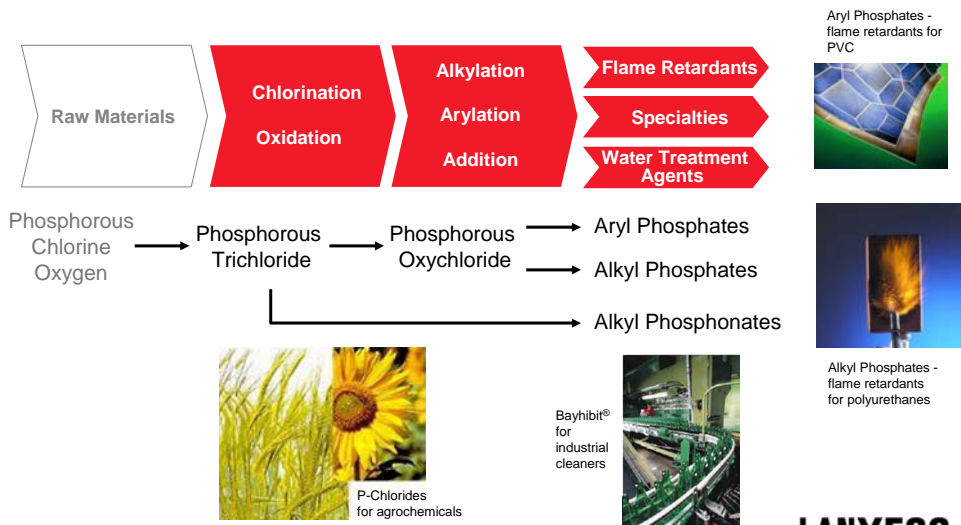
### Products

- Flame retardants: DISFLAMOLL®, BAYFOMOX®, LEVAGARD™
- Plasticisers: MESAMOLL®, ADIMOLL®, ULTRAMOLL®, UNIMOLL®, Triacetin
- Blowing agents: POROFOR®, FICEL™, GENITRON™
- Organic colorants: BAYSCRIPT®, MACROLEX®, BAYPLAST®, SOLFORT™, LEVANYL®, LEVANOX®, BAYFAST™
- Synthesis chemicals: Hydrazine Hydrate, LEVOXIN™, Phosphites
- Water treatment chemicals: BAYHIBIT®, BAYPURE®

### Main Applications

- Rigid and flexible PVC
- Polyurethane foam
- Engineering plastics
- Paints and coatings
- Water treatment
- Laundry and cleaning
- Printing inks
- Detergents
- Cosmetics

## One of the largest integrated production for phosphorous chemicals



## Strong market & technology positions with excellent customer relationships

### Competitive Advantages

- Economies of scale in one of the largest integrated production facilities for phosphorous chemicals
- Established solution provider especially with products meeting new regulatory requirements
- Strong existing customer relationships in key markets
- Strong market position in phosphorous based flame retardants, hydrazine hydrate, bonding agents and ecologically friendly products such as specialty plasticizers and solvent dyes for plastics

### Challenges

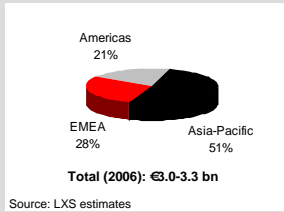
- Change in the competitive environment due to further consolidation
- Increasing price pressure in commodity segments especially from Asian competitors
- High volatility of raw material prices
- Continuous market shift to Asia

LANXESS Group  
Performance Polymers  
Advanced Intermediates  
**Performance Chemicals**

Material Protection Products (MPP)  
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Functional Chemicals (FCC)  
**Leather (LEA)**  
RheinChemie (RCH)  
Rubber Chemicals (RUC)  
Ion Exchange Resins (ION)

## LEA benefits from a broad product portfolio and backward-integration into chrome ore

### Global Demand



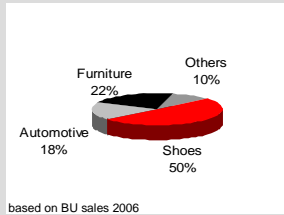
### Market Development

- Stable and sustainable market growth outlook at around 2% p.a.
- Decreasing hide quality increases demand for innovative leather chemicals

### Competition

- Main competitors: BASF, Clariant, Stahl and TFL
- Ongoing market consolidation expected

### End Uses



### Cost/Technology Position

- Strong market position in chrome tanning salts driven by backward-integration into chrome ore
- Syntan plant: favorable raw material basis (by-products from other BUs) leading to cost advantages
- Strong portfolio of application technologies (finishing/ retanning) for all major application markets

### Products

- Beamhouse chemicals
- Preservatives
- Chrome tanning materials
- Colorants for wet end & finishing
- Fatliquors
- Retanning chemicals
- Binders
- Finishing auxiliaries

## Provider of full product portfolio for leather industry

### Products

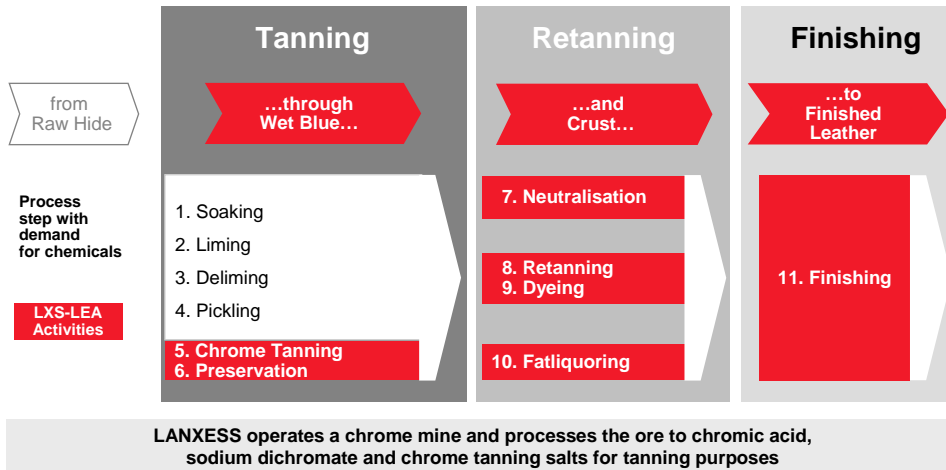
- BAYMOL®, BAYKANOL®, CISMOLLAN®, PREVENTOL®
- BAYCHROM®, CHROMOSAL®, BLANCOROL®
- SETA™, EUREKA®, ATLASOL®
- BAYKANOL®, LEUKOTAN®\*\*, LEVOTAN®, LUBRITAN™\*\*\*, RETINGAN®, TANIGAN®
- ACIDERM®, BAYCOLOR™, BAYGENAL®, BAYDERM®, EUDERM®, EUKANOL®, LEVADERM®
- AQUADERM®, BAYDERM®, EUDERM®, HYDRHOLACT™\*\*\*, PRIMAL®\*\*\*
- ACRYSOL™\*\*\*, AQUADERM®, BAYSIN™, EUDERM®, EUKANOL®, EUSIN®, ISODERM®, PRIMAL®\*\*\*, XERODERM®
- BAYDERM®, EUSIN®, ISODERM®
- BAYGEN®, LEVACAST®

### Main Applications

- Wet-end auxiliaries
- Mineral tanning and retanning materials
- Vegetable tanning and retanning materials
- Synthetic organic tanning materials and dyeing auxiliaries
- Colorants
- Finishing resins, polymer dispersions
- Finishing auxiliaries
- Solvent-containing top coats
- Special processes (for patent leather and upgrading splits)

\*trademark of SETA S/A \*\* registered trademark of Atlas Refinery, Inc \*\*\*trademark of Rohm & Haas

## LEA offers a well balanced portfolio of leather chemicals in an one-stop-shop



## Excellent customer relationships due to strong application know-how and technical services

### Competitive Advantages

- Broad product portfolio offering full range of leather chemicals to the customer
- Strong and established customer relationships
- Unique backward-integration into chrome ore and chrome chemicals
- Strong network of technical service personnel supporting customer needs
- Local production and compounding facilities providing cost and service advantages
- Application know-how providing flexibility to respond to changing market demands
- Partnerships in acrylics with Rohm and Haas and in fatliquors with ATLAS Refinery

### Challenges

- Increasing competitive pressure due to overcapacities in retanning and finishing chemicals
- Country risk due to production in politically volatile countries
- Continuous need for innovation and product development in all segments

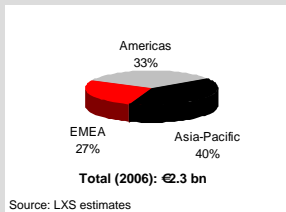
LANXESS Group  
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Performance Chemicals – RheinChemie

**RheinChemie has a strong service and application expertise**

**Global Demand**



**Market Development**

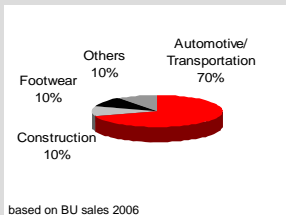
- Expected market growth (CAGR 05–10): ~2%
- LOA: ~1%
- Rubber: ~3%
- PU: ~5%

LOA = Lubricant oil additives  
PU = Polyurethane  
Source: LXS estimates

**Competition**

- One of the leading global suppliers of technical services and additives, especially of polymer dispersion chemicals for rubber industries and anti-hydrolysis agents for plastics and polyurethane

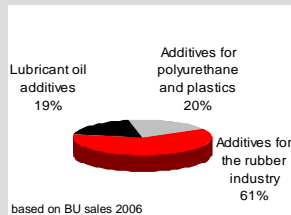
**End Uses**



**Cost/Technology Position**

- An innovation leader regarding products and services in served market segments

**Products**





## Strong supplier of diverse product portfolio, mainly to the automotive industry

### Products

- **Rubber**
  - Polymer-bound chemicals: RHENOGRAN®, POLYDISPERSION®
  - Polymer-bound additive packages: ONE SLAB®
  - Processing promoters: AKTIPLAST®, AFLUX®
  - Specialty polymers: UREPAN®, RHENOBLEND®
  - Antiozonants: ANTILUX®
  - Release agents: RHENODIV®
  - Vulcanization activators: RHENOFIT®
  - Service Technologies, Multi ingredient preweighs: BATCH-READY®
- **Polyurethane/Plastics**
  - Hydrolysis protection: STABAXOL®
  - Crosslinkers for various plastic systems: ADDOLINK™
- **Lubricant oil additives**
  - Corrosion inhibitors: ADDITIN®
  - Sulfur carriers and anti-wear agents: ADDITIN®

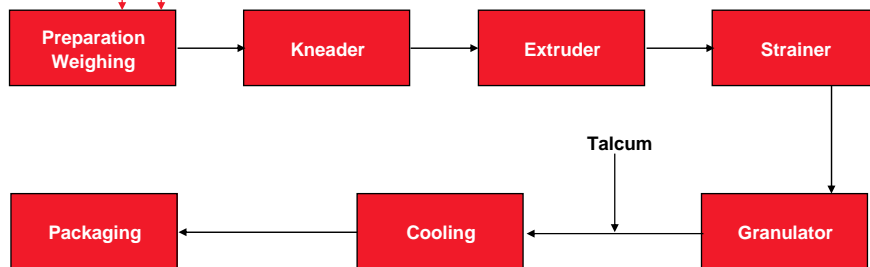
### Main Applications

- Rubber
- Technical rubber goods (e.g. profiles, hoses)
- Tires
- Polyurethane/ Plastics
- Technical plastic additives
- Lubricant oil
- Metalworking fluids
- Hydraulic oils
- Industrial gear oils
- Rust preventive oils
- Greases

## Polymer-bound chemicals and formulations for tailor-made products

### Binder Systems

#### Rubber Chemicals



## Strong technical and R&D know-how with global service network

### Competitive Advantages

- Supplier of customized solutions
- Strong technical know-how
- Close customer relationships
- Strong global sales and service network
- Strong brands
- Big parts of value chain are covered
- Leading capabilities in new product development

### Challenges

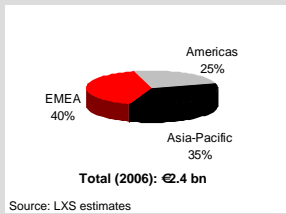
- Constantly rising demand for new, innovative products and solutions
- Consolidation in rubber and automotive industry
- Raw material prices

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## RUC has leading market and technology positions in a challenging environment

### Global Demand



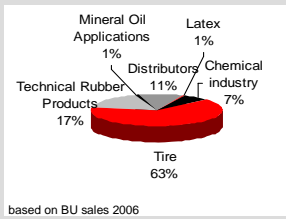
### Market Development

- Overcapacities have led to strong price and margin pressure and caused market consolidation
- Expected volume growth (CAGR 07–12):
  - AMERICAS: 1%
  - EMEA: 3%
  - ASIA-Pacific: >5%

### Competition

- Competitors are:
  - Flexsys
  - Chemtura

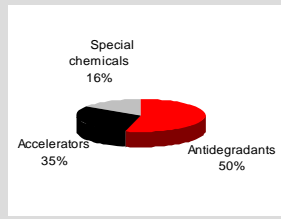
### End Uses



### Cost/Technology Position

- World-scale plants for anti-degradants (AOX) and accelerators (ACC) in Europe
- 6PPD plant in China
- ACC and AOX plant in India
- Leading technology positions
- Leading position in technology and quality of active zinc oxide

### Products



## Broad product portfolio to enhance rubber properties

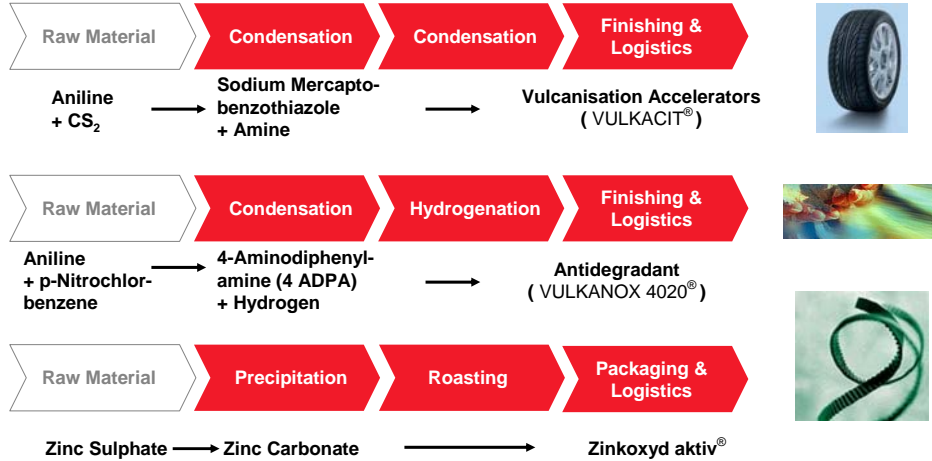
### Products

- Accelerators**
  - Thiazoles
  - Sulphenamides
- Antidegradants**
  - Phenylendiamines
  - Quinolines
- Specialities used as**
  - Bonding agents
  - Cross linkers
  - Curing agents
  - Emulsifiers
  - Fillers
  - Latex chemicals
  - Peptizing agents
  - Retarders
  - Synthetic plasticisers
  - Vulcanization activators

### Main Applications

- Enhance the mixing and/ or processability of elastomers, blends or their rubber compounds
- Protect an end product against effects on its properties or from degradation (e.g. oxidation) under in-service conditions
- Achieve certain properties in the elastomer or the finished rubber article/ latex product, e.g. by means of cross-linking (vulcanisation)

## A leading producer of rubber chemicals for the tire industry and technical rubber products



## Established market positions for broad product portfolio in all relevant global markets

### Competitive Advantages

- World-scale plant for antidegradants and accelerators in Europe
- Establishment of an antidegradant production JV in China with two Chinese partners
- Reputation as provider of high quality products and services
- Broad product portfolio
- Global supply and production network
- Coverage of all relevant global markets through a well established market position
- Leading position for zinc oxide produced by wet process technology

### Challenges

- Market further moving to Asia
- Competition from low-cost countries
- A high number of rubber chemicals producers is already present in China; capacities are growing further
- Increasing competitive pressure will result in a market consolidation
- Enhance the product portfolio of specialties with profitable products

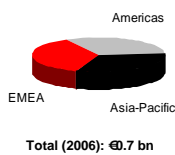
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**Ion Exchange Resins (ION)**

Performance Chemicals – Ion Exchange Resins

**ION offers a broad product range for water treatment and other growth applications**

**Global Demand**



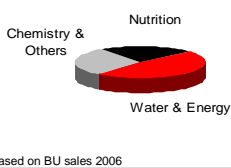
**Market Development**

- High growth rates in specialties and Asian markets
- Service and consulting requirements form entry barriers against increasing Asian competition
- Price pressure in standard applications

**Competition**

- Main competitors are: Dow, Mitsubishi, Purolite and Rohm & Haas

**End Uses**



**Cost/Technology Position**

- Competitive cost position from world-scale production facilities
- Leading producer of technologically advanced monodisperse ion exchange resins
- Excellent development and service capabilities for customer requirements

**Products**

- Ion exchange resins produced by LANXESS are tailored for various applications
- Approximately 250 different products, especially developed for use in more than 500 different applications

## Product portfolio for water, foodstuff and chemical applications

### Products

Ion exchange resins branded as:



### Main Applications

Products supplied into the following industries & applications:

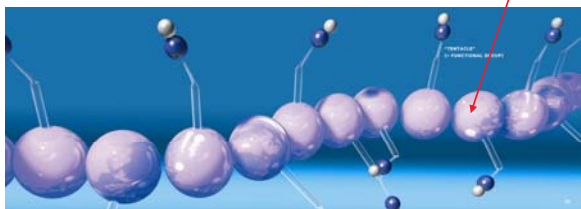
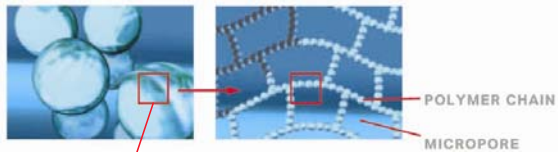
- Water & energy
- Microelectronics
- Food & nutrition
- Chemicals processing
- Pharmaceuticals (e.g. biofermentation)
- Ground- and wastewater
- Mining

## ION - a solution provider, manufacturing custom designed products

- Ion exchange resins are functionalized polymer beads produced by combining styrene & DVB\*  
\* Divinylbenzene

- Structure like ball of wool (polymer chains)

- Fine network with many cavities (micropores)



Polymer basis specifically manipulated so components can be captured/ exchanged from surrounding solutions

- Chemical exchange:
  - Anion/ cation exchange
  - Chelating resins
- Physical exchange:
  - Adsorbers

## **Strong technical and process expertise support ION's reputation as a premium quality supplier**

### **Competitive Advantages**

- Global market presence and distribution network
- Service and quality ranked among the best in industry
- Unique portfolio of production technologies and corresponding structures
- Leadership in monodisperse ion exchange technology

### **Challenges**

- Price pressure in standard applications
- Substitution threat through reverse osmosis (R/O) in selected water treatment applications
- Continuous raw material price increases