

LENZING INVESTOR PRESENTATION May 10, 2012



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# Key highlights Q1/2012

- Spot on Q1 guidance
  - Sales of EUR 528 mn
  - EBITDA of EUR 93 mn and EBIT of EUR 67 mn
  - Capex EUR 53 mn
- World fiber market: Consolidation on a high level continues in Q1/2012
- Net financial debt @ EUR 126 mn (as of March 31, 2012)

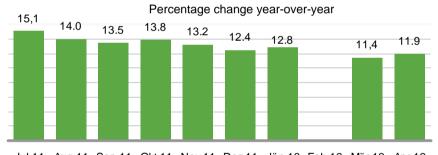


## Market environment

#### China softer, Indonesia and Turkey strong

■ China¹: strong Chinese industrial production – however on slightly lower level than in 2011

#### China Industrial Production<sup>2</sup>



Jul.11 Aug.11 Sep.11 Okt.11 Nov.11 Dez.11 Jän.12 Feb.12 Mär.12 Apr.12

#### Indonesia<sup>3</sup>:

- expected 6-6.5% annual GDP growth over the next two years
- economy not export driven 65% of GDP is domestic
- strong investments in the textile industry

#### ■ Turkey<sup>4</sup>:

- GDP: +8.5% in 2011
- strong growth due to investments in the textile industry over the last years
- robust exports, growing domestic market
- young, well-funded population

Turkey and Indonesia are part of the "Next Eleven (N-11)"<sup>5</sup>, with high possibility of becoming, along with the BRICs, the world's largest economies in the 21<sup>st</sup> century.



<sup>1)</sup> source: http://www.tradingeconomics.com/china/industrial-production, May 3, 2012

<sup>2)</sup> source: www.tradingeconomics.com; National Bureau of Statistics of China, May 3, 2012

<sup>3)</sup> source: CFA Magazine, March-April 2012

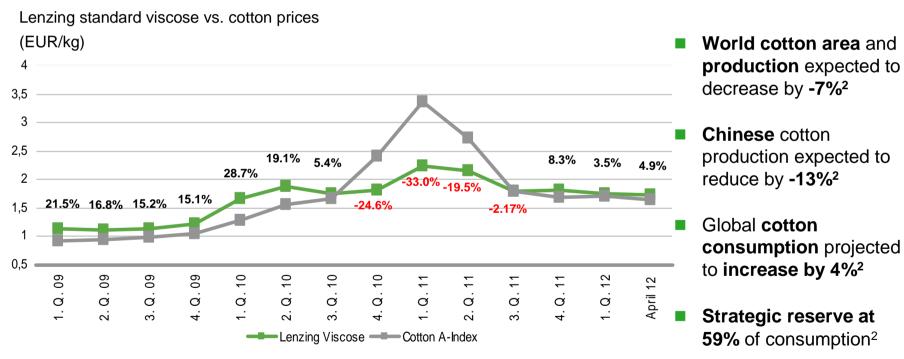
<sup>4)</sup> source: GDP-value 2011 from "Economist", "Istanbul and bears", April 4, 2012

<sup>5)</sup> source: Goldman Sachs and "Handelsblatt" Jim O'Neill "Globales Beben", April 20, 2012

## Cellulose fiber market environment

#### Re-establishment of premium to cotton starting slowly

Historically, standard viscose fibers traded with a 15-20% premium over cotton<sup>1</sup>.



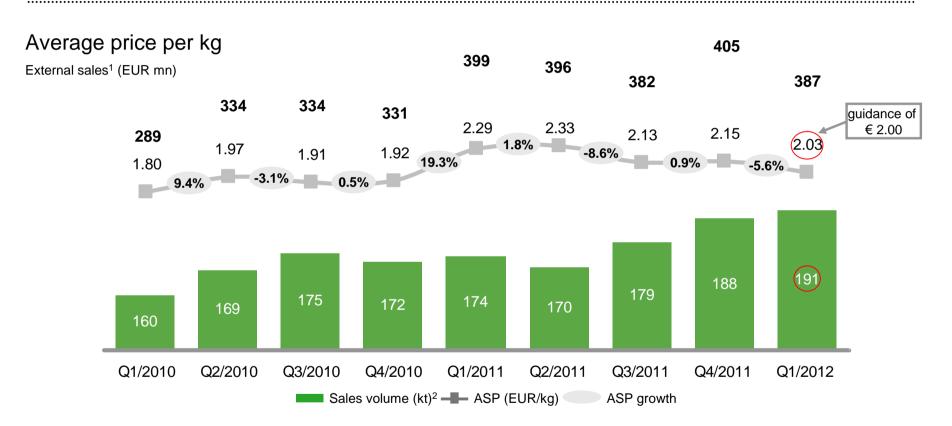
<sup>1)</sup> based on cotton A-Index spot in EUR/kg (Bloomberg: Cotlook A; Reuters COT-INDX-FE)



<sup>2)</sup> source: ICAC, May 1, 2012

# Q1 – slightly better than expected

Record sales volume at lower average price



<sup>1)</sup> excluding sales of co-products and external sales of pulp, wood and energy

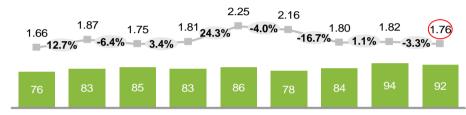


<sup>2)</sup> sales volume and not production volume

## Textile fibers

Anticipated price decreases in Q1 Viscose®: leveling out, TENCEL®: stable; Modal®: price concessions

#### Lenzing Viscose®1

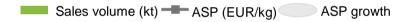


Q1/2010 Q2/2010 Q3/2010 Q4/2010 Q1/2011 Q2/2011 Q3/2011 Q4/2011 Q1/2012

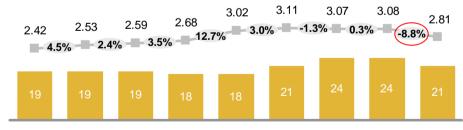
TENCEL®1



Q1/2010 Q2/2010 Q3/2010 Q4/2010 Q1/2011 Q2/2011 Q3/2011 Q4/2011 Q1/2012



#### Lenzing Modal®1,2



Q1/2010 Q2/2010 Q3/2010 Q4/2010 Q1/2011 Q2/2011 Q3/2011 Q4/2011 Q1/2012

- Sales volume (kt) ASP (EUR/kg) ASP growth
- 1) excluding sales of co-products and external sales of pulp, wood and energy
- 2) including Lenzing FR®

Slightly better than expected viscose textile prices in Q1

Sales volume (kt) ASP (EUR/kg)

- TENCEL® prices stable in Q1 due to continued strong demand and excellent marketing
- Modal price decrease as high Q3/Q4 volumes filled the textile chain
- Slightly lower Modal sales volume in Q1 for price control reasons



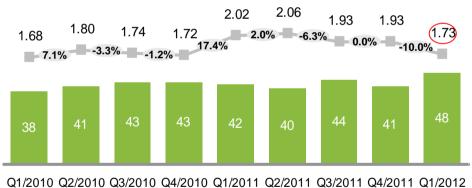
ASP growth

### Nonwoven fibers

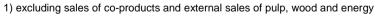
#### Nonwoven viscose price follows textile viscose pricing with a delay

- Viscose nonwoven decreased mainly due to contracting in December 2011 and reflecting low VSF pricing environment for textile
- TENCEL® price continues to stay at high level

#### Lenzing Viscose®1

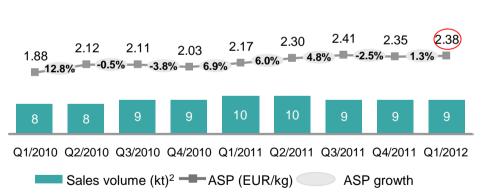


Sales volume (kt)<sup>2</sup> ASP (EUR/kg) ASP growth



<sup>2)</sup> sales volume in tons and not production volume







# Relative pricing

#### TENCEL® premium higher than Modal

- Modal: margins over viscose are adapting to the usual 40-50% range
- TENCEL® textile settling significantly higher than the historical range of 20-30% premium due to a much wider range of applications
- TENCEL® nonwoven premium continuing to increase based on unique product attributes

#### Textile fibers

Relative price (viscose = 100%)

(%)	Q1/2010	Q2/2010	Q3/2010	Q4/2010	FY 2010	Q1/2011	Q2/2011	Q3/2011	Q4/2011	FY 2011	Q1/2012
Lenzing Viscose®	100	100	100	100	100	100	100	100	100	100	100
Lenzing Modal <sup>®</sup> (incl. FR)	145	135	148	149	144	134	144	171	169	154	159
TENCEL®	118	114	124	117	118	109	124	155	(161)	136	(168)

#### Nonwoven fibers

Relative price (viscose = 100%)

(%)	Q1/2010	Q2/2010	Q3/2010	Q4/2010	FY 2010	Q1/2011	Q2/2011	Q3/2011	Q4/2011	FY 2011	Q1/2012
Lenzing Viscose®	100	100	100	100	100	100	100	100	100	100	100
TENCEL®	111	118	121	118	117	107	112	125	(121)	116	(137)



# Q1/2012: Expected weakest quarter Record volume with decreasing costs

(EUR mn)	Q4/2011	Q1/2012	Change in %
Sales volume man-made cellulose fibers (kt)	188	191	1.6
Total external sales	547.8	528.2	(3.6)
Inventory change / work in progress	14.0	3.9	(72.2)
Work performed by the group and capitalized	11.3	3.1	(72.5)
Cost of material and purchased services	(344.9)	(318.3)	(7.7)
Personnel & other operating expenses/income	(109.4)	(122.9)	12.3
Depreciation & Amortization	(44.6) <sup>2</sup>	(26.7)	(40.0)
EBITDA <sup>1</sup>	117.4	93.1	(20.7)
EBIT	74.3	67.2	(9.5)
Net income	49.5	48.4	(2.1)
Net income after minorities	48.1	47.1	(2.1)
EBITDA margin (%)	21.4	17.6	
EBIT margin (%)	13.6	12.7	

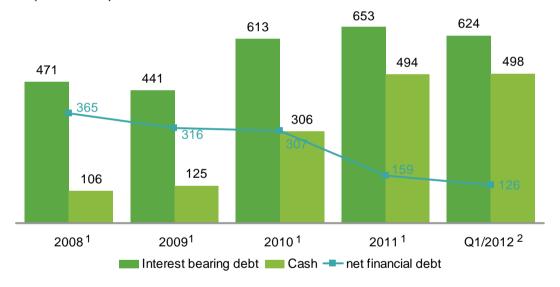
<sup>1)</sup> EBITDA defined as EBIT +depreciation – reversal of government grant



<sup>2)</sup> incl. one off write downs

# 11.4% net gearing

#### Net financial debt 2008-Q1/2012<sup>2</sup> (EUR mn)



- Strong OFCF helped reduce net debt further to **EUR 126 mn**
- Total liquidity cushion of **EUR 749 mn** consisting of **EUR** 498 mn cash, plus

  - EUR 251 mn of unused credit lines

2) as of 31 March



<sup>1)</sup> as of 31 December

## Outlook FY 2012 confirmed

Q2/2012: no major changes compared to Q1/2012

#### Outlook 2012

Sales	approx. <b>EUR 2.2 – 2.3 bn</b>
EBITDA	approx. <b>EUR 400 – 480 mn</b>
EBIT	approx. <b>EUR 285 – 365 mn</b>
Sales volume	approx. <b>810 k tons</b>
Capex	approx. EUR 350 mn
Dividend policy	approx. <b>25%</b> of consolidated net income

- Q2/2012: no significant change in the pricing environment compared to Q1/2012
- Q2/2012 EBITDA expected around EUR 100 mn
- Q2/2012 sales volume expected to increase to 197 kto (Q1/2012: 191 kto)
- Catalysts for H2/2012:
  - Macro-economic environment
  - Private consumption in China (monetary policy)
  - New cotton season (2012/13) lower planted area and production, higher consumption



# Q1/2012 — Financial information





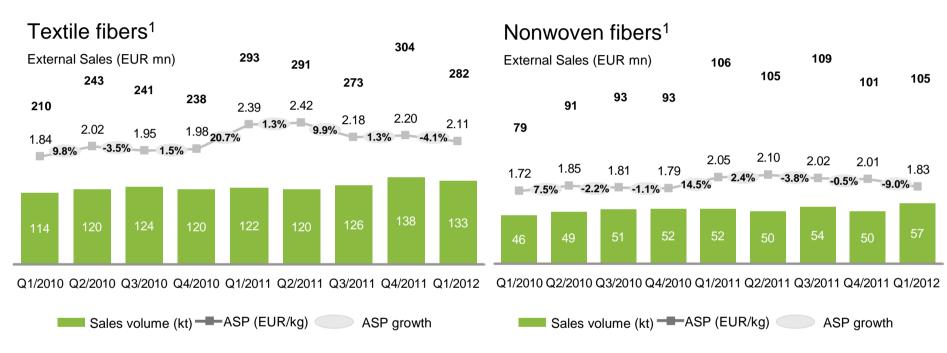






## Textile and nonwoven fibers

Decline of standard viscose textile prices softened by TENCEL® prices



<sup>1)</sup> excluding sales of co-products and external sales of pulp, wood and energy



# Topline breakdown Reduced textile fiber sales and stable nonwoven sales

(EUR mn)	Q1/2011	Q2/2011	Q3/2011	Q4/2011	Q1/2012	Change Q4/Q1 (%)
Breakdown of fibers segment sales						
Textile fibers	292.6	290.6	273.0	303.8	281.7	(7.2)
Nonwoven fibers	106.2	105.4	108.7	100.8	104.9	4.1
Other <sup>1</sup>	10.3	10.8	10.9	12.1	12.3	1.7
Total fibers only sales	409.1	406.8	392.6	416.7	398.9	(4.3)
Other fibers segment sales <sup>2</sup>	72.2	80.0	75.7	86.4	75.5	(12.6)
Total fibers segment sales	481.3	486.8	468.3	503.1	474.4	(5.7)
Plastics Products	44.9	47.2	43.4	37.1	43.4	17.0
Engineering	30.8	22.8	26.2	27.2	30.0	10.3
Consolidation	(25.0)	(12.4)	(21.9)	(19.8)	(19.6)	(1.0)
Total external group sales	532.1	544.1	515.9	547.8	528.2	(3.6)

<sup>1)</sup> includes sales of sodium sulfate and black liquor



<sup>2)</sup> includes external sales of pulp, wood and energy

# Decreasing costs with slightly increasing capacity

Pulp is key – taking advantage of lag effect of NBSK price reduction

(EUR mn)	Q1/2011	Q2/2011	Q3/2011	Q4/2011	Q1/2012	Change Q4/Q1 (%)
Dissolving pulp <sup>1</sup>	136.2	138.4	144.2	146.1	131.6	(9.9)
as % of total cost of material and purchased services	44.7	42.7	47.8	42.3	41.3	
Key chemicals	29.7	32.2	37.1	40.1	41.7	4.0
as % of total cost of material and purchased services	9.7	9.9	12.3	11.6	13.1	
Energy	29.3	30.2	33.0	36.3	35.6	(1.9)
as % of total cost of material and purchased services	9.6	9.3	10.9	10.5	11.2	
Other <sup>2</sup>	109.5	123.4	87.6	122.4	109.4	(10.6)
as % of total cost of material and purchased services	35.9	38.1	29.0	35.5	34.4	
Total cost of material and purchased services	304.7	324.2	301.9	344.9	318.3	(7.7)
as % of external sales	57.3	59.6	58.5	63.0	60.3	
Total external sales	532.1	544.1	515.9	547.8	528.2	(3.6)

<sup>1)</sup> including cost for wood



<sup>2)</sup> other includes trading goods, other raw materials, packaging, auxiliary material

# Cash flow by quarter Continuing strong operating cash flow

(EUR mn)	Q1/2011	Q2/2011	Q3/2011	Q4/2011	Q1/2012	Change Q4/Q1 (%)
Gross CF	89.7	101.8	97.0	100.5	73.9	(26.5)
Change in total WC <sup>1</sup>	1.0	(5.7)	(30.0)	(44.6)	11.6	-
Operating cash flow	90.7	96.1	67.0	55.8	85.4	53.0
Investment cash flow <sup>2</sup>	(44.6)	(40.4)	(38.5)	(92.7)	(22.6)	(75.6)
OFCF	46.1	55.7	28.5	(36.9)	62.9	-
Gross CF as % of external sales	16.9	18.7	18.8	18.3	14.0	-
Gross CF as % of EBITDA	78.1	76.6	84.3	85.6	79.4	-

<sup>1)</sup> including trade and other working capital



<sup>2)</sup> including investment in financial assets and disposal proceeds

# FY 2010, 2011 – Financial information







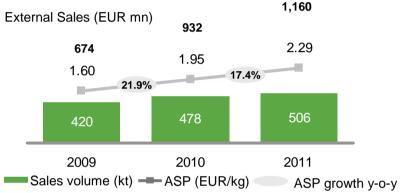




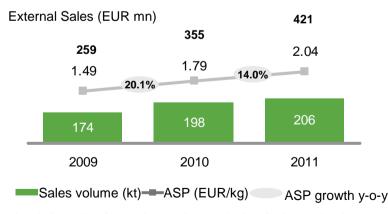
## Sales driver fibers

#### Both textile & nonwoven fibers with price increases

#### Textile fibers<sup>1</sup>



#### Nonwoven fibers<sup>1</sup>



1) excluding sales of co-products and external sales of pulp, wood and energy

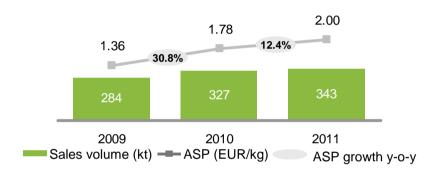
- Textile fibers have higher average selling prices compared to nonwoven fibers:
  - Premium pricing of Lenzing Modal® purely reflected in textile fibers
  - The relative portion of TENCEL® in textile is higher than in nonwoven business
- Nonwoven fibers important factor in achieving balanced portfolio in terms of end markets and geographies
- Nonwoven fibers generally more stable pricing



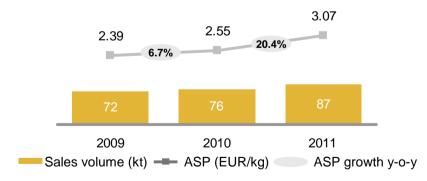
## Sales driver – textile fibers

#### Significant price premium achieved for specialty fibers

#### Lenzing Viscose®1

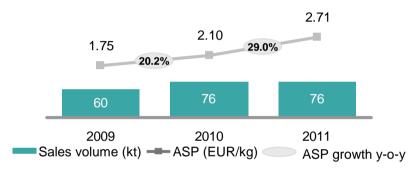


#### Lenzing Modal®1



1) excluding sales of co-products and external sales of pulp, wood and energy

#### TENCEL®1



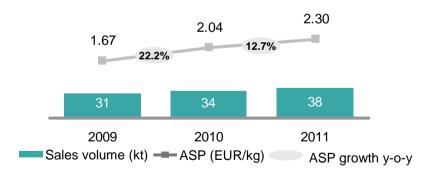
- As high-end niche market product Lenzing Modal<sup>®</sup> showed excellent pricing thought the year:
  - Well established in the market
  - No substitute available
  - Includes high margin Lenzing FR<sup>®</sup> fibers
- TENCEL® well established showed tremendous price increases throughout the year

## Sales driver – nonwoven fibers

#### Lenzing Viscose®1



#### TENCEL®1



1) excluding sales of co-products and external sales of pulp, wood and energy

- Attractive and more stable pricing for Lenzing Viscose<sup>®</sup> in nonwoven compared to textile business unit (lower competition due to high quality requirements)
- TENCEL® in the nonwoven segment also fully established in the market place which is reflected in continued price increases



# Relative pricing

#### Textile fibers

Relative price (viscose = 100%)

(%)	2009	2010	2011
Lenzing Viscose®	100	100	100
Lenzing Modal® (incl. FR)	175	144	154
TENCEL®	128	118	136

#### Nonwoven fibers

Relative price (viscose = 100%)

(%)	2009	2010	2011
Lenzing Viscose®	100	100	100
TENCEL®	115	117	116



# Consolidated Group P&L – external sales

(EUR mn)	2010	2011
Total External Sales	1,766	2,140
Fibers	1,596	1,940
Plastic Products	145	173
Engineering	94	107
Others	3	3
Consolidation	(74)	(82)
Cost of material and purchased services	(1,029)	(1,275)
Personnel	(259)	(287)
Depreciation & Amortization	(103)	(121)
Other operating expenses	(218)	(205)
Other operating income and other <sup>1</sup>	74	112
EBIT	232	364
Margin	13.1%	17.0%
Income from invest. in associates & other income	3	12
Finance cost	(16)	(23.9)
Result from terminable non-controlling interest	(2)	(0.2)
Tax	(40)	(85)
Income form discontinued operations	(7)	0
Net income	170	267
Margin	9.6%	12.5%
Net income after minorities	159	259
Margin	9.0%	12.1%

<sup>1)</sup> other = work performed by group, changes in inventory & cost of material purchased



# Stable gross margins Cost of material an purchased services increase in line with sales increase

(EUR mn)	2010	2011	Change in %
Dissolving pulp	435	564.9	29.9
as % of total cost of material and purchased services	42.3	44.3	
Key chemicals	105	139.1	32.5
as % of total cost of material and purchased services	10.2	11.0	
Energy	106	128.8	21.5
as % of total cost of material and purchased services	10.3	10.1	
Other <sup>1</sup>	383	442.9	15.6
as % of total cost of material and purchased services	37.2	34.7	
Total cost of material and purchased services	1,029	1,275.7	24.0
as % of external sales	58.3	59.6	
Total external sales	1,766	2,140	21.2

<sup>1)</sup> other includes trading goods, other raw materials, packaging, auxiliary material



# Remaining Opex: stable development Representing approx. 28% of total cost and are very stable

(EUR mn)	2010	2011	Change in %
Total personnel expenses	259	287	10.8
as % of external sales	15	13	
Other operating expenses			
Freight outward	62	68	9.7
Commissions and advertising costs	22	29	31.8
Service and maintenance and other purchased services <sup>1</sup>	45	33	(26.7)
Other	89	75	(15.7)
Total other operating expenses	218	205	(6.1)
as % of external sales	12	10	
Personnel & other operating expense	477	492	3.1
as % of external sales	27	23	
Total external sales	1,766	2,140	21.2



# Cash flow

(EUR mn)	2010	2011	Change in %
Gross CF	293	389	32.8
Change in total WC <sup>1</sup>	11	(79)	n.a.
Discontinued operations	(9)	-	n.a.
Operating cash flow	294	310	5.3
Investment cash flow <sup>2</sup>	(280)	(216)	(23.0)
Discontinued operations	(1)	-	n.a.
OFCF	13	94	n.a.
Gross CF as % of external sales	16.6	18.2	n.a.
Gross CF as % of EBITDA	88.6	81.1	n.a.

<sup>1)</sup> including trade and other working capital



<sup>2)</sup> including investment in financial assets, acquisitions and disposal proceeds

# December 31, 2011 balance sheet – assets

(EUR mn)	31/12/2010	31/12/2011	Change in %
Intangible assets	87.7	90.1	2.7
Property, plant and equipment	1,002.8	1,091.7	8.9
Investments in associates	24.7	30.3	22.4
Other financial assets	67.3	93.6	39.1
Deferred taxes	10.1	10.8	6.9
Other long-term assets	2.5	9.3	276.1
Long term assets	1,195.1	1,325.8	10.9
Inventories	222.8	284.6	27.8
Trade receivables	181.5	236.8	30.4
Short-term taxes	14.8	11.7	(20.9)
Other receivables and assets	58.6	64.4	9.8
Investments	5.1	6.7	31.4
Cash and cash equivalents	249.4	410.5	64.6
Short-term assets	732.2	1,014.7	38.6
Assets of discontinued operations	36.1	0.0	(100.0)
Total assets	1,963.4	2,340.5	19.2



# December 31, 2011 balance sheet – equity & liabilities

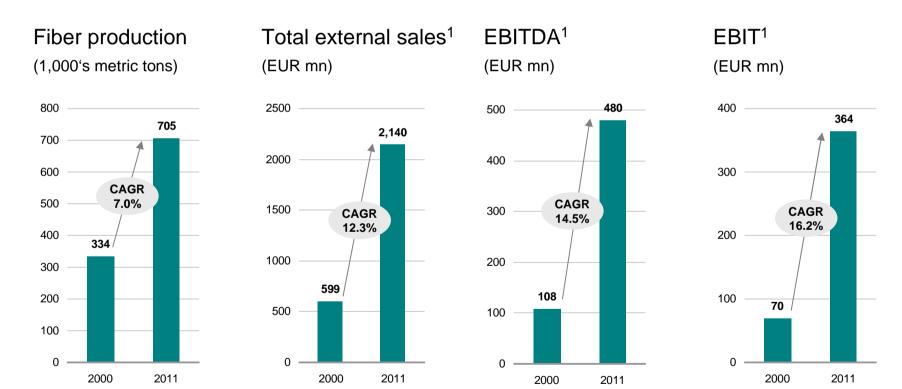
(EUR mn)	31/12/2010	31/12/2011	Change in %
Common stock	26.7	27.6	3.2
Capital reserves	63.6	133.9	110.6
Retained earnings and other reserves	613.6	828.2	35.0
Share of shareholders of Lenzing AG	703.9	989.7	40.6
Non-controlling interests	28.1	34.0	21.0
Equity	732.0	1,023.7	39.8
Bank loans and other loans	552.3	518.5	(6.1)
Trade payables	1.5	0.0	-
Provisions, deferred taxes and others	176.3	192.8	9.4
Long-term liabilities	760.3	734.3	(3.4)
Government grants	30.2	23.1	(22.5)
Bank loans and other loans	60.5	134.4	-
Trade payables	134.1	148.5	10.7
Other provisions and liabilities and others	237.9	291.4	22.5
Short-term liabilities	471.2	582.4	23.6
Government grants	4.1	8.2	
Liabilities of discontinued operations	34.5	-	-
Total equity and liabilities	1,963.4	2,340.5	19.2



# Double-digit growth profile

Lenzing has managed growth successfully in the past

Double-digit growth p.a. over last 11 years



<sup>1) 2000</sup> based on US GAAP; 2010 based on IFRS



# Appendix – Company information











# Clear targets and framework

2011 - 2015

#### Growth

- Double-digit topline CAGR
- Invest EUR 1.6 bn
- Expand fiber capacity to approx. 1.2 million tons
- Grow pulp production up to 800,000 metric tons

#### **Innovation**

- Spend industry leading approx. 1.5% of sales on R&D
- >33% of total MMC fibers TENCEL® and Lenzing Modal® (incl. Lenzing FR)
- Leading Fiber Innovation

#### **Financial framework**

- Net debt/EBITDA not above 2.5x
- ROCE not below 12%
- Equity always above 35%



## Introduction

#### Complementary Management Team



Peter Untersperger Chief Executive Officer



Friedrich Weninger Chief Operating Officer



Thomas G. Winkler Chief Financial Officer

Age

**52** 

**5**5

**48** 

Education

- Master of law and business administration (University of Linz)
- Doctorate in law (University of Linz)

- Master of Business Administration IMD Master of law (LLM) (Lausanne/Switzerland)
- Graduate engineer of construction engineering (University of Innsbruck)
- (University of Cape Town)
- Master of law (University of Salzburg)

#### Relevant Experience

- CEO Lenzing AG since January 2009
- CFO Lenzing AG for 10 years
- CEO South Pacific Viscose Indonesia for 3 years
- CFO South Pacific Viscose for 4 vears
- 25 years with Lenzing AG

- COO Lenzing AG since January 2009
- General Manager/Vice President Business Unit Textile Fibers for 5 years
- Head of Logistic/Marketing/Sales Lenzing AG for 10 years
- 21 years fiber experience

- CFO Lenzing AG since April 2010
- Executive Vice President JSFC Sistema for 1 year
- CFO T-Mobile Int. AG for 6 years
- Head of Investor Relations Deutsche Telekom AG for 3 years
- 20 years capital markets experience



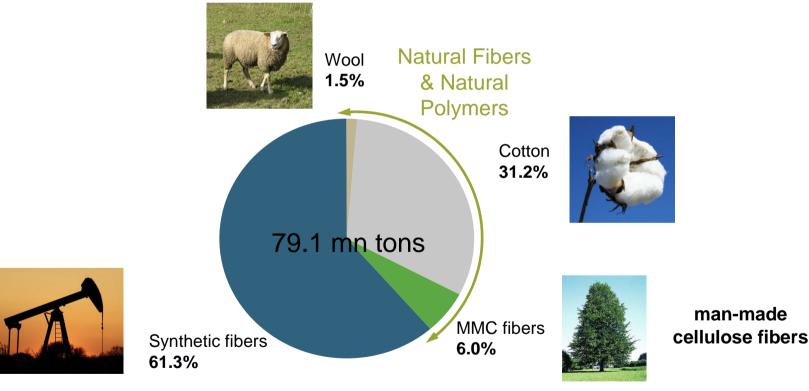
# Key investment highlights

A straightforward story of leadership and growth



## Global fiber market 2011

#### Global fiber production 2011E<sup>1</sup>



Source: The Cellulose Gap, Gherzi, February 2011

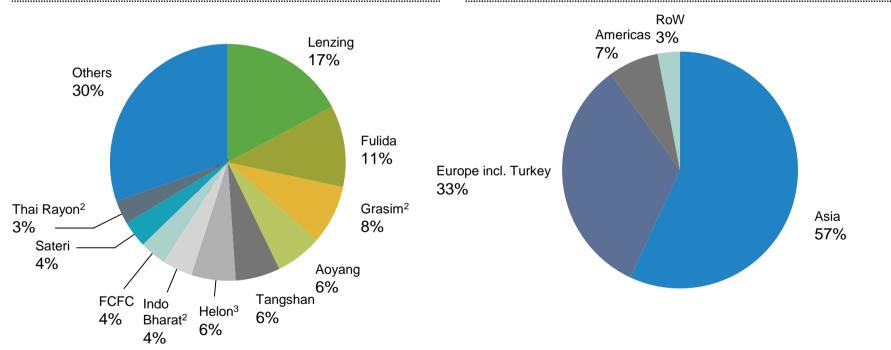
1) assuming a population of 7.0 bn and a per capita fiber consumption of 10.9 kg



# Global market leader in a fragmented market

#### Lenzing with 17% market share<sup>1</sup>

# Only true global player – sales by region<sup>4</sup>

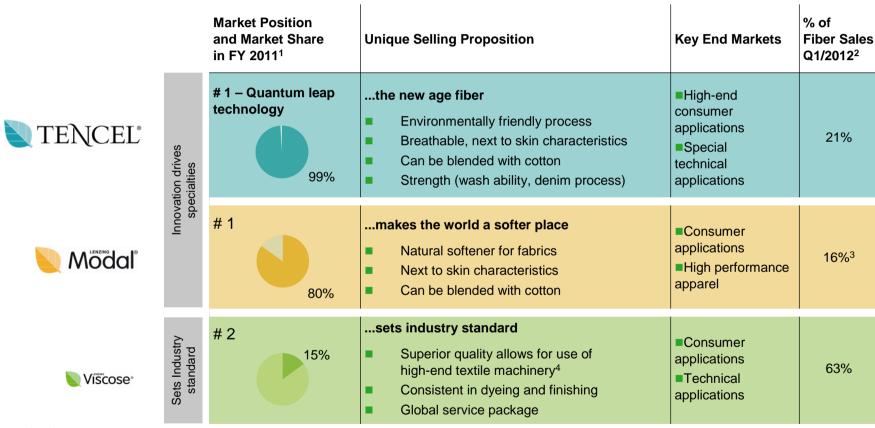


Source: Company information; The Cellulose Gap, Gherzi, February 2011

- 1) by capacity, based on latest available company information from company websites and annual/interim reports
- 2) direct or indirect non-controlling shareholdings by private Indian conglomerate Aditya Birla; marketing of viscose stables fibers under the "Birla" umbrella brand
- 3) in bankruptcy
- 4) fiber sales by volume in metric tons FY 2011

## Global market leader

#### Technology leadership secures leading market shares



Source: Lenzina



<sup>1)</sup> by production capacity

<sup>2)</sup> excluding sales of fiber by-products, external sales of pulp, wood, energy

<sup>3)</sup> including Lenzing FR®

<sup>4)</sup> e.g. airjet spinning machine allowing for 420 m/min compared to 25 m/min on regular (ring spinning) textile machines

## Cellulose Gap: a growth opportunity

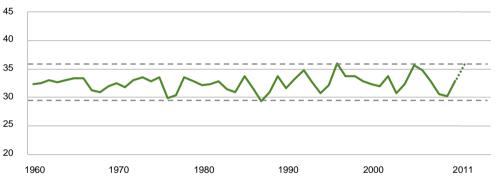
Limited potential to increase cotton supply increases demand for MMC fibers

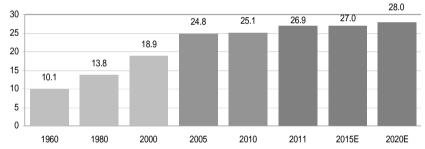
Cotton planted area expected to remain stable within narrow band (1960-2011E)

Million hectares

Limited growth in cotton production: effects from yield expansion leveling out

Million metric tones





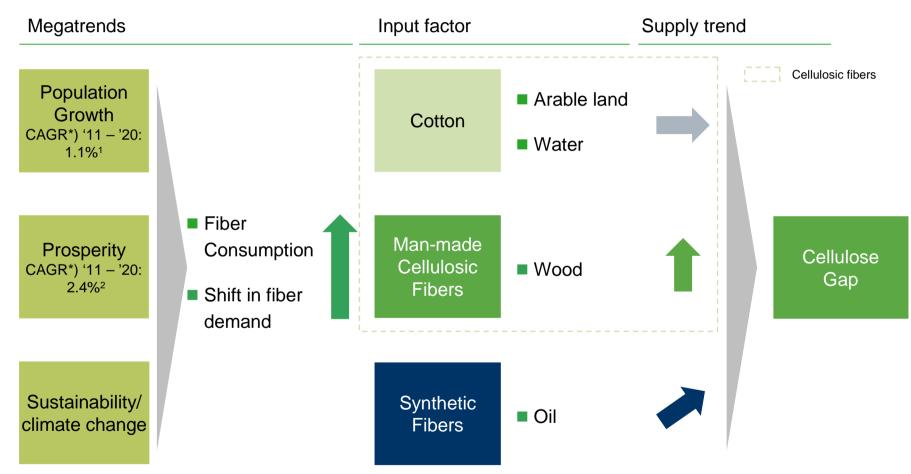
Source: U.S. Department of Agriculture

Source: International Cotton Advisory Committee, April 2, 2012; The Cellulose Gap, Gherzi, February 2011



### Cellulose Gap: a growth opportunity

MMCF: strong demand and limitations on cotton supply



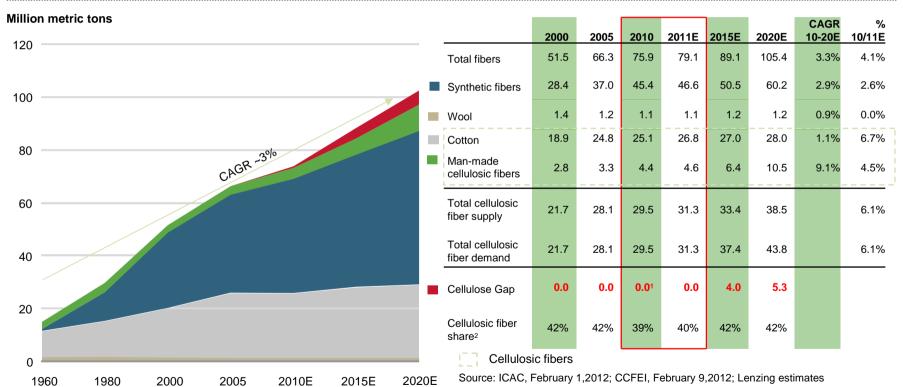
- \*) compound annual growth rate
- 1) forecasted growth from UN Population Division
- 2) forecasted growth of global real GDP per capita by Global Insight



### Cellulose Gap: a growth opportunity

9% p.a. forecast for MMCF over next decade

The demand gap of cellulosic fibers opening due to limited cotton supply can best be filled by MMC fibers as substitute Fiber market growth by type of fiber (1960-2020E)



1) cotton stock level in 2010/11 on historical low level of max. 4 months

.ENZING

Source: The Cellulose Cap, Gherzi; February 2011

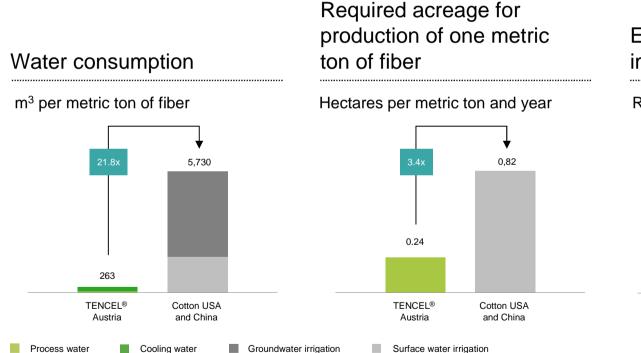
<sup>1)</sup> cotton stock level in 2010/11 on historical low level of max. 4 month (usually a minimum of at least 6 months necessary)

<sup>2)</sup> including the Cellulose Cap

### Sustainability

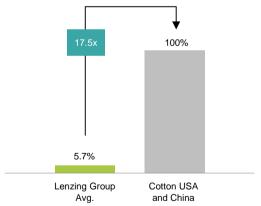
#### Green footprint: significantly more environmentally friendly than cotton

- More than 50% of Lenzing's fuel consumption sourced from renewable resources
- Lenzing Group environmental impact of production relative to cotton only approx. 5.7%



Environmental impact of production<sup>1</sup>

Relative to cotton



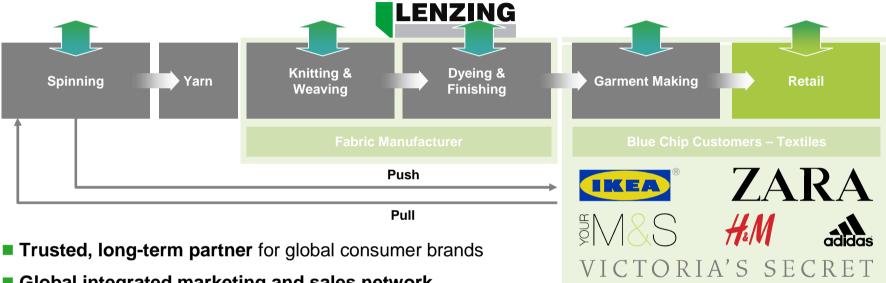
Source: "Life Cycle Assessment of man-made Cellulose fibers"; Li Shen, Martin Patel; 2007

1) including freshwater ecotoxicity, terrestrial ecotoxicity and others



### High barriers to entry

Global branded supplier to blue chip customer base



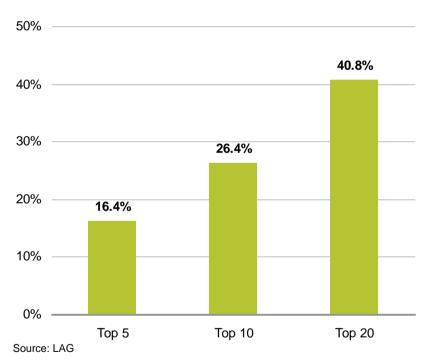
- Global integrated marketing and sales network
- Branded supplier with involvement in value chain decision process of customers
  - → Push: Close collaboration with manufacturers of spinning machinery
  - ▶ Pull: Marketing through tailored and innovative branded products unique to Lenzing
- Customer stickiness





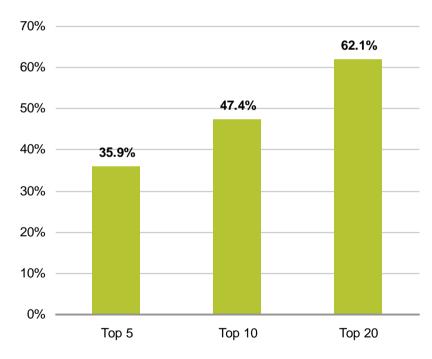
### Sales and marketing

### Textiles – % of sales by customers<sup>1</sup> (2011)



#### 1) no single customer with a share of more than 5%

### Nonwoven - % of sales by customers (2011)





### Sales and marketing

Blue chip company's drive demand in specialties – TENCEL®, Lenzing Modal®

- Lenzing is a trusted, long-term partner for global consumer brands
  - approx. 45% of textile and approx. 60% of nonwoven sales for specialty fibers (TENCEL<sup>®</sup>, Lenzing Modal<sup>®</sup>) can be attributed to key account customers
- Company acts as a branded supplier with involvement in the value chain decision process of customers
- Supply chain management is a strong differentiator for Lenzing





### Innovation

#### R&D organization and unique innovation model

#### Organization structure

- Integration into business units
- Close collaboration with sales & marketing to develop applications for customers

#### Dedicated resources and investments in R&D

#### 95 FTEs

- Lyocell process innovation
- Fiber development (Viscose, Lenzing Modal®, TENCEL®)

Textile

innovation

Application development

Nonwoven 19 FTEs

innovation

Application development

#### 42 FTEs

Process

Pulp process innovation

innovation Analytical services

Source: LAG

FTEs refers to full time employees

#### Unique innovation model

#### Breakthrough innovation

- Focus: Leap technologies (e.g. Lenzing Modal®, TENCEL®, Meltblown)
- 9% of total 2011 projects

#### Product innovation

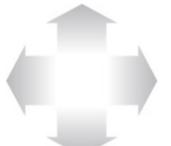
Focus: customizing

**Total R&D FTEs:** 

156 researchers and laboratory

assistants

■ 15% of total 2011 projects



#### **Process innovation**

- Focus: quality, productivity
- 54% of total 2011 projects

#### **Application innovation**

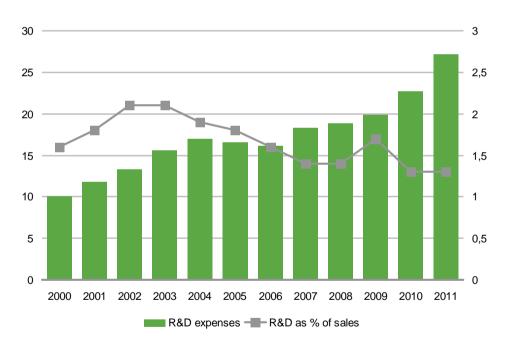
- Broaden application base
- 22% of total 2011 projects
- 113 projects in process



### **Innovation**

#### Industry Leading R&D Spend

#### R&D Expenses (2000-2011)



#### **Intellectual Property**

- As of December 2011, Lenzing owned approx. 1,300 patent applications and patents in 57 countries belonging to 218 patent families
- All significant patents are filed and maintained in Asia, the European Union and the Americas
- The majority of the patent portfolio focuses on lyocell technology (TENCEL®)
- As of December 2011, Lenzing owned approx. 1,400 trademark applications and trademarks in 95 countries belonging to 112 trademark families



### **Innovations 2011**

### Lenzing Modal® Edelweiss technology

- Lenzing Modal<sup>®</sup> (already carbon neutral) became even more eco-friendly
- Makes the fiber even purer and more natural

#### ■ TENCEL®C

- Features oceanic micro particles
- Opens up a new dimension in skin care
- Cell-renewing effects, moisturizing, skin protection



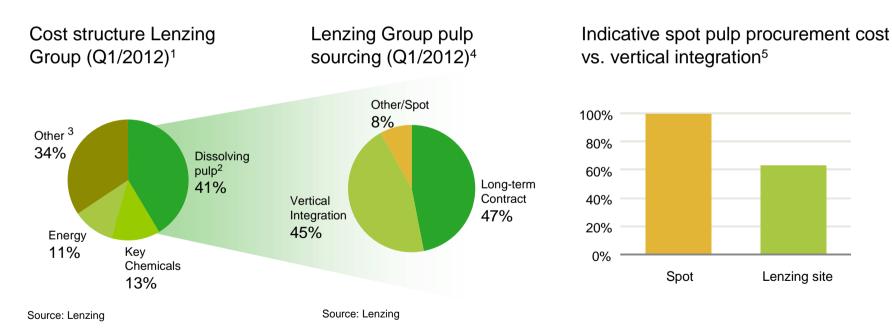




### Cost leadership

#### Through integration and long-term supply contract

- Pulp is the key cost driver with approx. 44% share of total costs of material and purchased services
- 90% of long-term pulp supply secured through own production (vertical integration) and long-term supply contracts
- Long-term contract linked to paper pulp index (not to spot price of dissolving pulp) plus applicable premium



- 1) cost structure based on cost of materials and purchased services amounting to EUR 318.3 mn in Q1/2012
- 2) including wood
- 3) other includes trading goods, other raw materials, packaging, auxiliary material
- 4) data refers to sourcing, including inventory build-up. Paskov volumes included under vertical integration
- 5) assuming spot price of \$1.180 per metric ton



### State-of-the-art production

Technological know-how maximizing efficiency

#### Illustrative recovery process at Lenzing site

Wood (1,000kg)



Pulp production





At Lenzing site, only
 13.3% of energy is
 sourced from fossil fuels

Pulp (dry weight)

Acetic acid

Furfural

Xylose

Black liquor

Quantity Use

381kg Captive

36kg Merchant market

8kg Merchant market

35kg Merchant market

(Danisco)

530kg Energy

990kg<sup>1</sup>



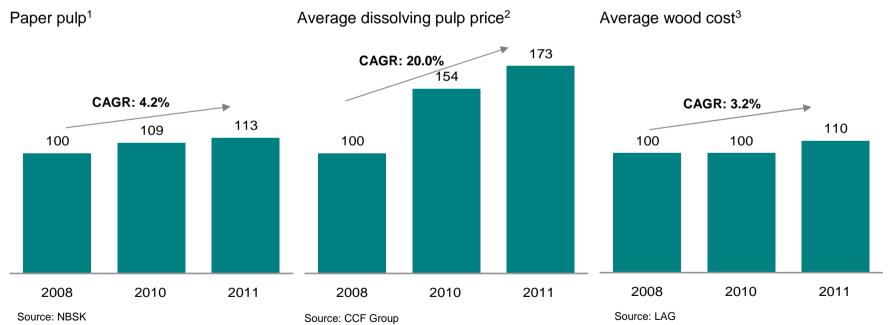
<sup>1)</sup> the remaining 10kg are disposed in the wastewater treatment plant

### Sourcing/Vertical integration

The dissolving pulp market is characterized by volatility

- Pulp prices historically highly volatile, while wood costs have remained comparatively stable
- Lenzing LT contracts for dissolving pulp indexed to relatively stable paper pulp prices

#### Pulp price development (2008-2011)



<sup>1)</sup> paper pulp prices in \$/metric ton prices indexed to 100 in 2008



<sup>2)</sup> average dissolving pulp prices in \$/metric ton indexed to 100 in 2008

<sup>3)</sup> LAG average wood cost in EUR mn indexed to 100 in 2008

### Cost leadership

### Through economies of scale

Lenzing is the only company to operate production lines with an annual capacity of 80,000 metric tons

Biggest MMC fiber plants worldwide <sup>1</sup>							
	Company	Site	Capacity				
#1	LENZING	Lenzing, Austria	250k mt				
#2	LENZING	Purwakarta, Indonesia	240k mt				
#3	Indo Bharat	Purwakarta, Indonesia	190k mt				

- √ 10-15% lower Capex requirements compared to smaller plants operated by competitors
- ✓ Larger production lines driving operating economies of scale (approx. 10% lower Opex compared to smaller lines operated by competitors)



Source: Lenzing

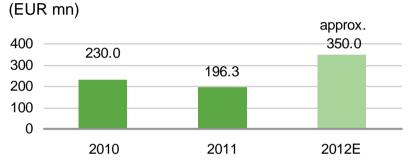
Benefits from scale

<sup>1)</sup> based on 31 December 2011 capacities, as published by companies

### Capital expenditure 2011/2012

- Slightly lower capital expenditure in 2011 ⇒ shift of invoicing into 2012
- Projects completed in 2011:
  - Second expansion stage and debottlenecking at Lenzing Nanjing Fibers, China (capacity doubled to 140,000 tons p.a.)
  - Capacity expansion for Modal fibers at Lenzing site (approx. +50% to 100,000 tons p.a.)
- Projects 2012:
  - New TENCEL® plant in Austria
  - India, greenfield

### Capital expenditure

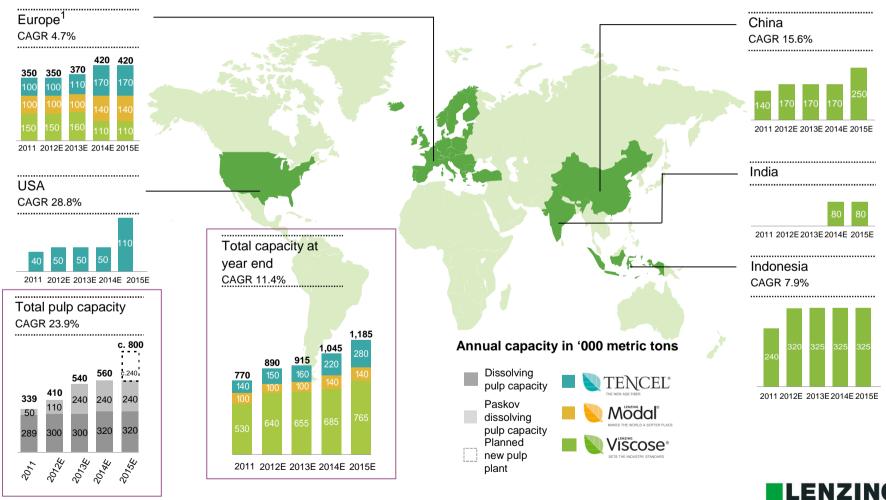


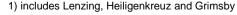




### Capacity expansion to 2015

Accelerating the fiber expansion in the future







# Expansion program Significant investments envisaged to support growth strategy

Plant location	Planned capacity – YE 2011 (metric tons)	Planned capacity – YE 2012 (metric tons)	Planned capacity – YE 2013 (metric tons)	Planned capacity – YE 2014 (metric tons)	Planned capacity – YE 2015 (metric tons)
Lenzing / Austria	250,000	250,000	260,000	310,000	310,000
Lenzing Viscose®	150,000	150,000	160,000 (Q2)	110,000	110,000
Lenzing Modal®	100,000	100,000	100,000	140,000	140,000
TENCEL®	-	-	-	60,000	60,000
Purwakarta / Indonesia, Lenzing Viscose®	240,000	320,00 (Q4)	325,000	325,000	325,000
Nanjing / China, Lenzing Viscose®	140,000	170,000	170,000	170,000	250,000
Heiligenkreuz / Austria, TENCEL®	60,000	60,000	70,000	70,000	70,000
Grimsby / UK, TENCEL®	40,000	40,000	40,000	40,000	40,000
Mobile / USA, TENCEL®	40,000	50,000 (Q2)	50,000	50,000	110,000
India, Lenzing Viscose®	-	-	-	80,000	80,000
Total fibers	770,000	890,000	915,000	1,045,000	1,185,000
Lenzing / Austria	289,000	300,000	300,000	320,000	320,00
Paskov / Czech Republic	50,000	110,000	240,000	240,000	240,000
New pulp plant				-	~ 240,000



# Capacity by site 2012 - 2013

	Capacity per 31.03.2012	Capacity per 30.06.2012	Capacity per 30.09.2012	Capacity per 31.12.2012	Capacity per 31.03.2013	Capacity per 30.06.2013	Capacity per 30.09.2013	Capacity per 31.12.2013
Lenzing	250,000	250,000	250,000	250,000	250,000	260,000	260,000	260,000
Indonesia	240,000	240,000	240,000	320,000	320,000	325,000	325,000	325,000
Nanjing	140,000	160,000	160,000	170,000	170,000	170,000	170,000	170,000
India	-	-	-	-	-	-		-
Heiligenkreuz	60,000	60,000	60,000	60,000	60,000	60,000	60,000	70,000
Grimsby	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Mobile	40,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Total	770,000	800,000	800,000	890,000	890,000	905,000	905,000	915,000



# Capacity by site 2014 - 2015

	Capacity per 31.03.2014	Capacity per 30.06.2014	Capacity per 30.09.2014	Capacity per 31.12.2014	Capacity per 31.03.2015	Capacity per 30.06.2015	Capacity per 30.09.2015	Capacity per 31.12.2015
Lenzing	260,000	250,000	250,000	310,000	310,000	310,000	310,000	310,000
Indonesia	325,000	325,000	325,000	325,000	325,000	325,000	325,000	325,000
Nanjing	170,000	170,000	170,000	170,000	170,000	170,000	170,000	250,000
India	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000
Heiligenkreuz	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000
Grimsby	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Mobile	50,000	50,000	50,000	50,000	110,000	110,000	110,000	110,000
Total	995,000	985,000	985,000	1,045,000	1,105,000	1,105,000	1,105,000	1,185,000



# Where our fibers end up











# Sexy tee midi dress

- USD 59.50
- TENCEL® / Spandex

VICTORIA'S SECRET







# Sequin tee and dream tees one shoulder tee

- USD 49.50 (sequin tee) and USD 39.50 (solid tee)
- Ecosil® Lenzing Modal® / Spandex





#### VICTORIA'S SECRET





# New Venus dressing-gown and tank

EUR 275.00 (dressing-gown) and EUR 130.00 (tank)

LA PERLA

90% Lenzing Modal® / 5%Elastane / 5% Polyester







### Tommy John 'second skin' tank top, V-neck t-shirt, crewneck

- USD 33.00 (tank top), USD 38.00 (V-neck), USD 38.00 (crewneck)
- MicroModal® / Spandex





### **NORDSTROM**





## Helmut Lang long dress with slit

- USD 275.00
- Lenzing MicroModal®





### **HELMUT LANG**





### Vintage flare jeans

- USD 98.00
- 100% TENCEL®











### TENCEL® summer dress

- **EUR 35.99**
- 100% TENCEL®



MANGO



# Modal lace-trim gown, modal pants, modal lace-trim romper

- USD 39.95 (each)
- 94% Lenzing Modal®, 6% Spandex











# Armani collezioni sportcoat

- USD 645.00
- TENCEL®

### **NORDSTROM**





# Burberry elbow sleeve reversible check tee

- USD 250.00
- 100% Lenzing Modal®







