

LENZING Capital Markets Day 2013 September 19, 2013 Short-term and long-term market perspectives – Peter Untersperger, CEO



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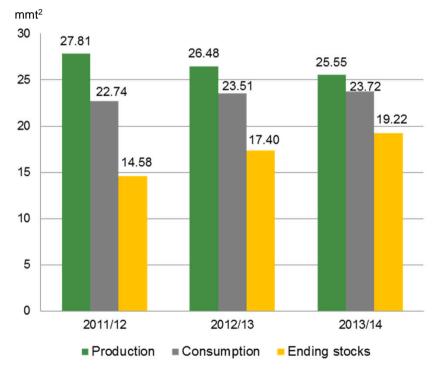
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## Update cotton market

#### Two cotton realities

#### Cotton production<sup>1</sup>



Source: 1) ICAC, September 2013 2) million metric tons

- Stock-to-use-ratio<sup>1</sup> 2013/14 at more than 80% of world mill use
  - China 147%
  - ROW 47%
- World cotton production in 2013/14 is estimated down 3.5% from last season
  - USA will account for most of the decline: -25% (-900 k tons)



### Conclusions on the cotton market

Short-term: we expect constant cotton prices

Our assumptions:

- Increasing cotton consumption (China)
- Increasing cotton costs
- Less cotton production (competition to food)
- No irrational moves on the Chinese cotton price policy

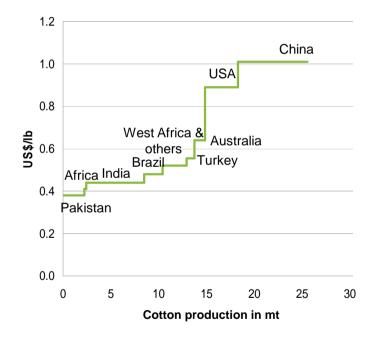




## Cotton production costs differ significantly worldwide

VSF/MMC production more and more attractive

Production costs of cotton 2010/2011



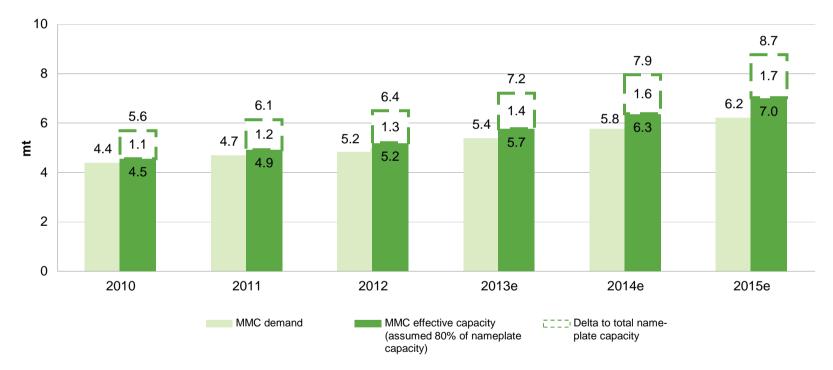
Source: ICAC, Lenzing Intelligence 1) ICAC, Report: Cost of production of raw cotton, September 2013

- Trend to higher cotton prices driven by worldwide rising cotton production costs (fertilizer, insecticides, pesticides, labor costs)
  - Example: main cost factor weed control<sup>1</sup>: Expenditures rose from 9 cts/kg of lint production in 2000/01 to 31 cts/kg in 2012/13
- Production costs of cotton differ significantly; the biggest cotton players with the highest costs



# Potential short-term overcapacities in MMC may limit pricing upside

Global MMC demand / existing and announced production capacity<sup>1</sup>



- ➡ Effective production capacity assumed at 80% of nameplate capacity
- Mothballing of 2015 capacity expansions would result in a quick recovery of operating rates

Source: CIRFS, FEB, National statistics, The Fiber Year (MMF), Lenzing (forecasts) 1) based on April estimates, note that several projects have been stalled or slowed down



### Short-term strategy

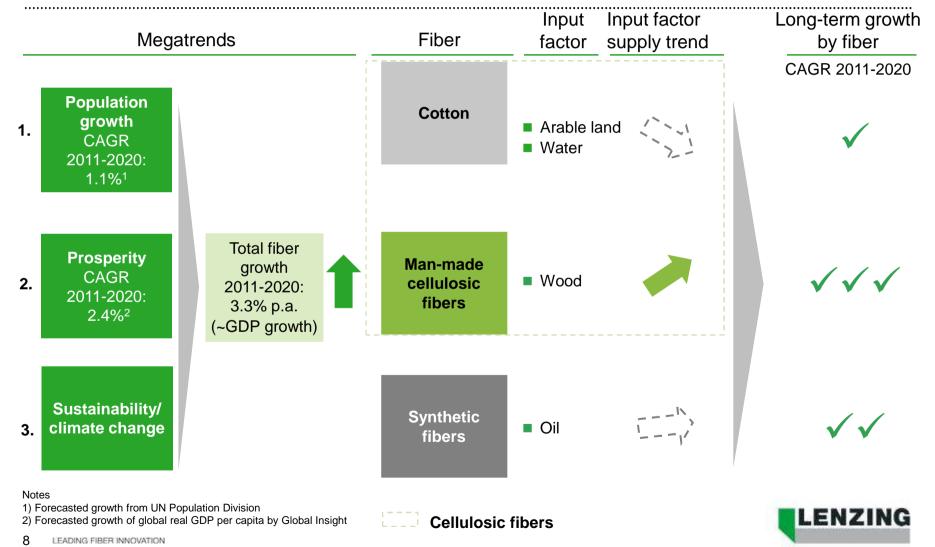
"We do not spend more than we earn"

- No catalysts on the macro-economic side
- Worldwide fiber market continues to grow volume-wise in a challenging pricing environment
- Short-term: Managing cash
  - New investments under scrutiny
    - Prioritizing the project pipeline with focus on productivity improvements
    - TENCEL<sup>®</sup> jumbo line NOT affected
  - Using the excelLENZ program to create room to manoeuvre
- Develop tailor-made strategies for all three fibers



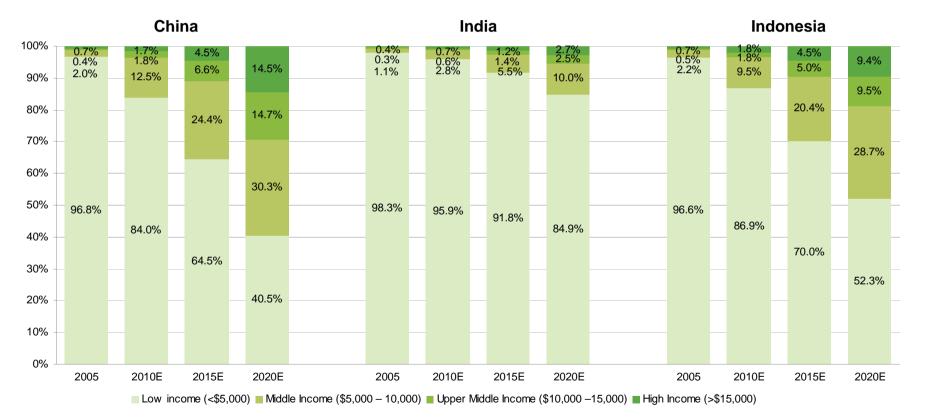
## Long-term growth prospects

All global megatrends intact



## In emerging countries income shift to middle class leads to higher cellulose consumption

#### Income distribution 2005 – 2020E

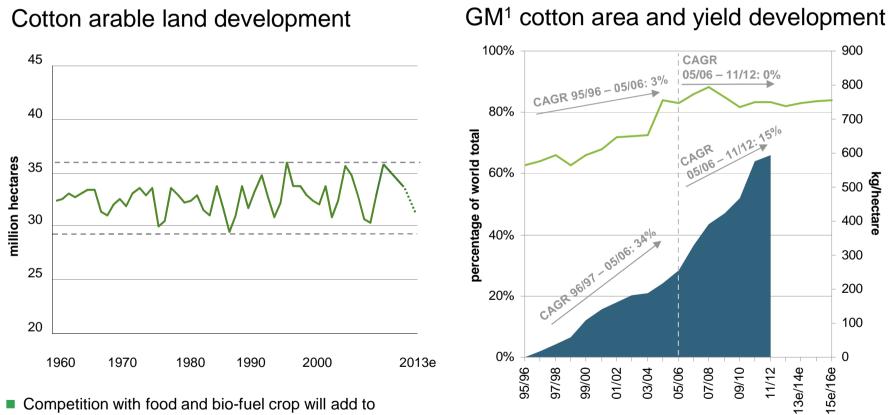


Source: Euromonitor International 2011

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# Market opportunities for MMC due to structural cotton limitations

Arable land and yield increases are setting the limits



limit the arable land

Effects from GM driven yield expansion levelling out

Share of GM

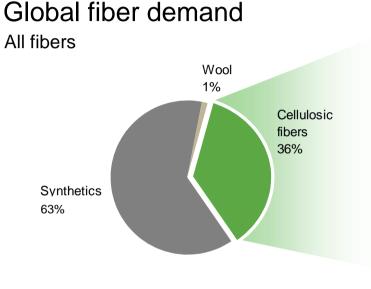
Notes 1) Genetically modified (GM)



Cotton yield

Source: US Department of Agriculture; ICAC, February 1, 2013 International Cotton Advisory Committee, 71st Plenary Session, 10 August 2012

# Growth opportunities: MMC with inherent advantages vs. synthetics and cotton



Total 2012P1: 81mt

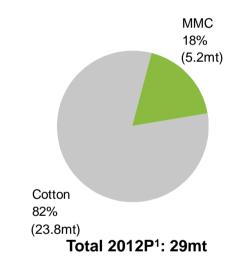
#### Advantages of cellulosics vs. synthetics

- Higher wearing comfort
- Moisture uptake
- Perception as "natural" product
- Synthetics with lack of sustainability and bio-degradability

Source: ICAC (Cotton), CIRFS, FEB, National statistics, The Fiber Year (MMF) 1) preliminary

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#### Cellulose fibers

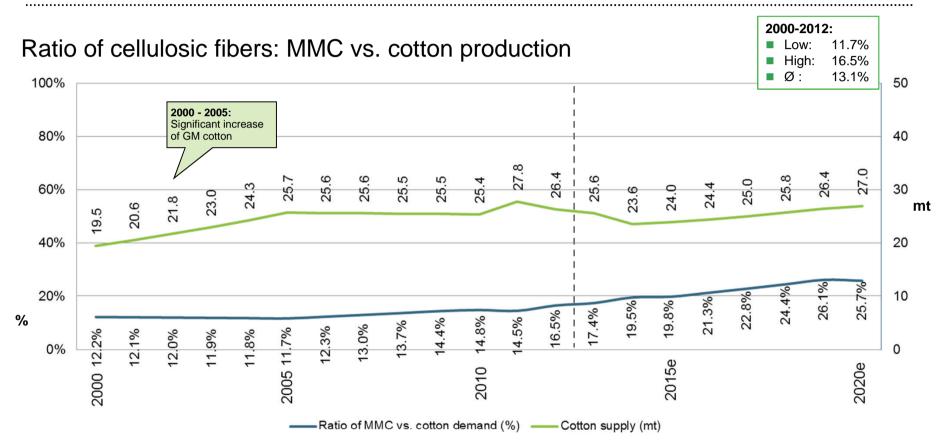


#### Advantages of MMC vs. cotton

- Better performance in all "next-to-skin" applications
- Higher downstream productivity (lower waste / higher spinning speed)
- Constant quality
- Brilliant colors
- Sustainability



#### Share of MMC vs. cotton increasing in recent decade due to an established market and cotton supply limits



Movements in the fiber ratios have a significant impact on MMC demand

■ 1% change MMC vs. cotton in 2020 equals: 0.4mt additional MMC demand (c. 4% of 2020 MMC demand)

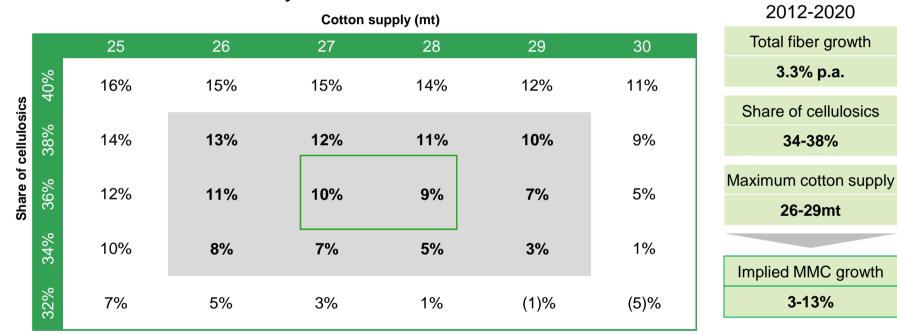
Source: CIRFS, FEB, National statistics, The Fiber Year (MMF), Lenzing (forecasts)



## MMC – a long-term growth story

Even in a cautious mid range market scenario

#### MMC demand sensitivity – CAGR 2012-2020



Market growth responds sensitively to changes in assumptions of cotton supply and share of cellulosics

Even under bear case assumptions market growth is estimated to be above global GDP

Notes Assuming constant cotton supply and share of cellulosics between 2012 and 2020



Key sensitivity

assumptions

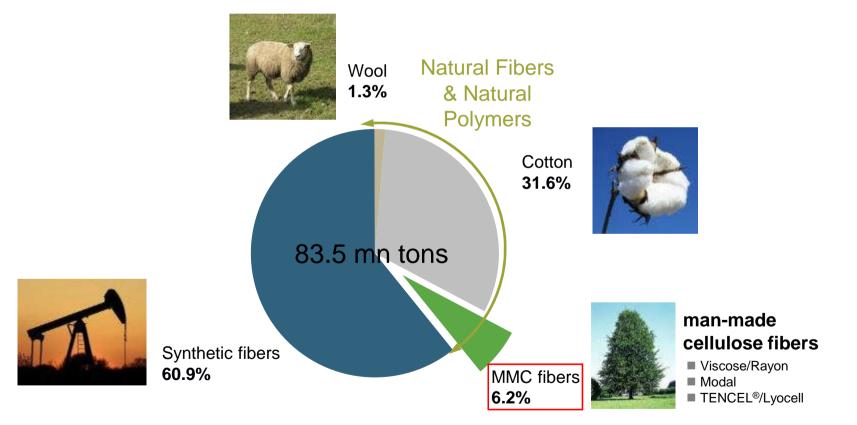


LENZING Capital Markets Day 2013 September 19, 2013 MMC fiber market conditions – Friedrich Weninger, COO



### Global fiber market at a glance

2012 preliminary production numbers



Source: Lenzing estimates

## Fiber strategy recalibrated

#### As a reminder

Strategic measures		Strategic direction	
	<ul> <li>Focus on differentiation</li> <li>Investments in selected markets with above industry returns</li> </ul>		Differentiated commodity
Nödal <sup>®</sup>	<ul> <li>Expansion of selected high end target markets / applications</li> <li>Hold premium by further specializing (MicroModal, ProModal etc.)</li> </ul>		Niche
TENCEL®	<ul> <li>Priority focus area of Lenzing's growth strategy</li> <li>Gain market share in applications/regions by scaling up Textile and Nonwoven applications</li> <li>Exploit first mover advantage</li> </ul>		Scale

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## VSF market

#### Shows dynamics of a commodity

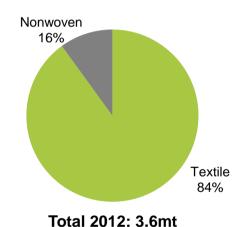
#### Key characteristics

- VSF is currently the dominant MMC fiber globally used for textile and nonwoven
- Global market; customer base mostly in Asia
- China dominates the market with regards to capacities for VSF and local demand
- Price / cost driven competition with limited room for differentiation
- Supply / demand balance is key business driver; currently overcapacities that might continue in the future

#### Long-term perspectives:

Largest growth opportunities in absolute terms (+4.6 mt till 2020<sup>1,2</sup>)

### Global market



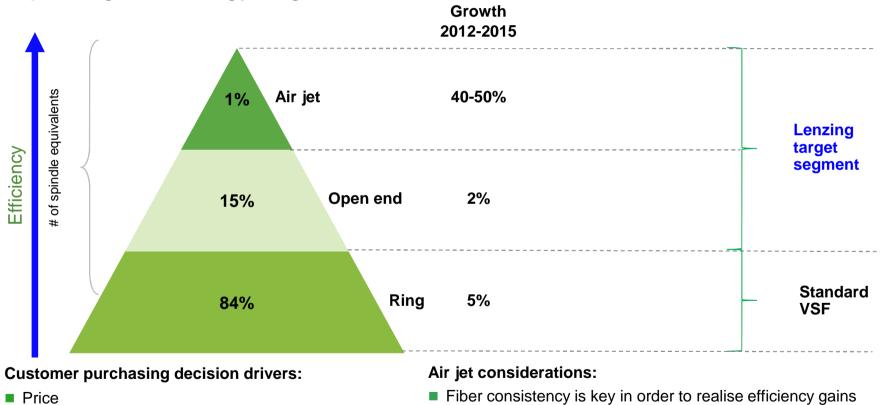


global demand
 excl. cigarette filters, acetate tow and viscose filaments

#### Differentiated commodity strategy

Lenzing's fibers excellently positioned in all spinning technologies segments

Spinning technology segments 2012



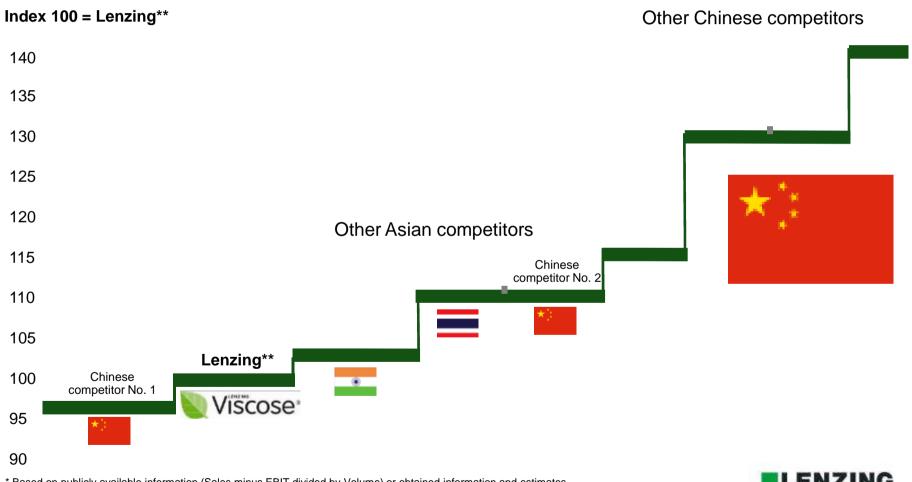
- Quality (consistency, processibility, fewer imperfections)
- Supply certainty / service

Source: Air jet: Gherzi for 2012, Murata and Rieter for 2013 onwards



### Viscose fiber industry cost curve

Best in class cost base is key - Lenzing in an excellent position\*



\* Based on publicly available information (Sales minus EBIT divided by Volume) or obtained information and estimates
 \*\* Average of Lenzing Viscose sites (incl. Indonesia, Austria and China)
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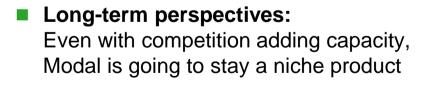


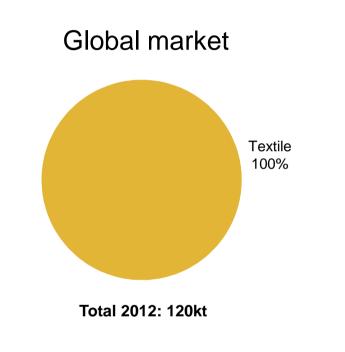
### Modal market

Limited scalability – find premium niche applications

#### Key characteristics

- Softness unbeatable wearing comfort next to skin
- Natural softener for fabrics
- Can be blended with cotton
- Positioned against more expensive long staple cotton
- Capital intense production
- Lower production speed (up to 50% of Viscose output)

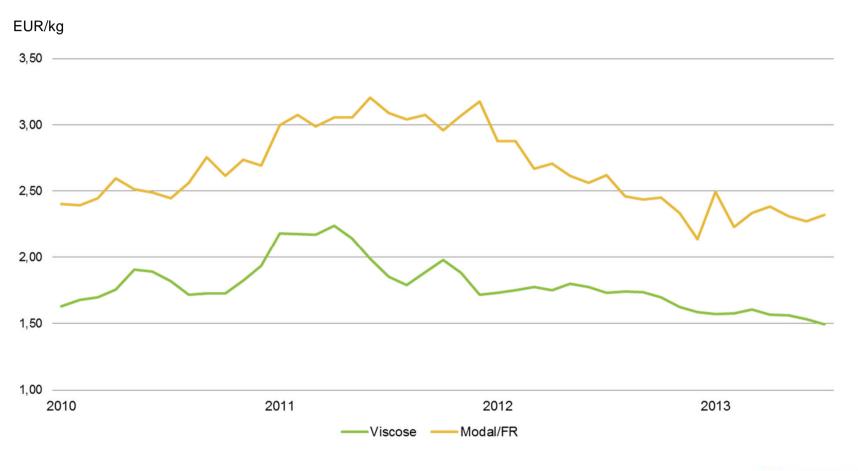






# Customers are willing to pay a premium for best Lenzing quality

Historic Modal premium over viscose in a 40 – 50% range





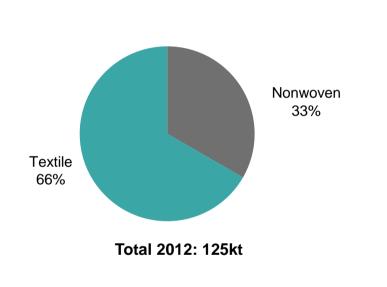
## **TENCEL®** market

Latest fiber technology with highest growth potential and strong green footprint

#### Key characteristics

- Only substitution for broad range and large volume cotton textile and nonwoven applications
- Potential also in technical applications
- Most sustainable fiber: latest technology with only small use of chemicals
- Lenzing can benefit from first mover advantage and build the market
- Long-term perspectives: Strongest growth potential estimated with up to 20 % CAGR till 2020<sup>1</sup> due to superior product and production characteristics

1) global demand

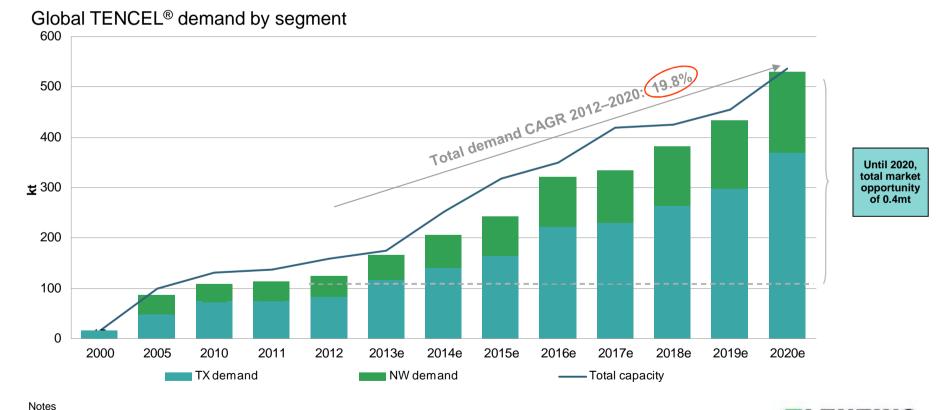


**Global market** 



### TENCEL<sup>®</sup> – Scale strategy

Lenzing is currently the only large scale producer of TENCEL<sup>®</sup> with new market entries expected in the short- to mid-term



<sup>23</sup> LEADING FIBER INNOVATION

From 2016 onwards assume significant market entry from competitors in TENCEL®



#### Summary – TENCEL® The new age fiber

**TENCEL**® Cotton Viscose TENCEL<sup>®</sup> has superior product characteristics Product  $\sqrt{\sqrt{}}$  $\sqrt{\sqrt{\sqrt{}}}$  $\sqrt{\sqrt{\sqrt{}}}$ characteristics Strength / skin sensoric/ breathability / absorbency -**TENCEL<sup>®</sup>** is the only lyocell brand in the market  $\sqrt{\sqrt{\sqrt{}}}$ **(√)**<sup>1</sup> **Branding**  $\checkmark$ TENCEL<sup>®</sup> can be used as blending partner with Downstream  $\sqrt{\sqrt{}}$  $\checkmark\checkmark$ cotton efficiency TENCEL<sup>®</sup> is the most sustainable fiber  $\sqrt{\sqrt{\sqrt{}}}$  $\checkmark\checkmark$ **Sustainability** TENCEL<sup>®</sup> jumbo line at the beginning of the Cost/  $\checkmark$   $\checkmark$   $\checkmark$  $\checkmark$  $\checkmark\checkmark$ learning curve productivity

1) supima®, Cotton USA

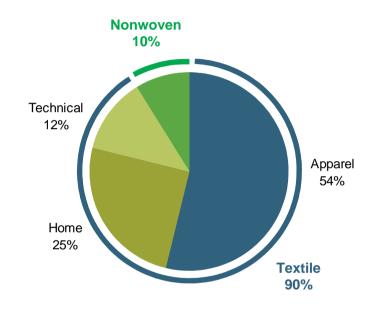
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LENZING Capital Markets Day September 19, 2013 Relevant markets for Lenzing fibers Implementing the strategy



#### World fiber market demand by applications





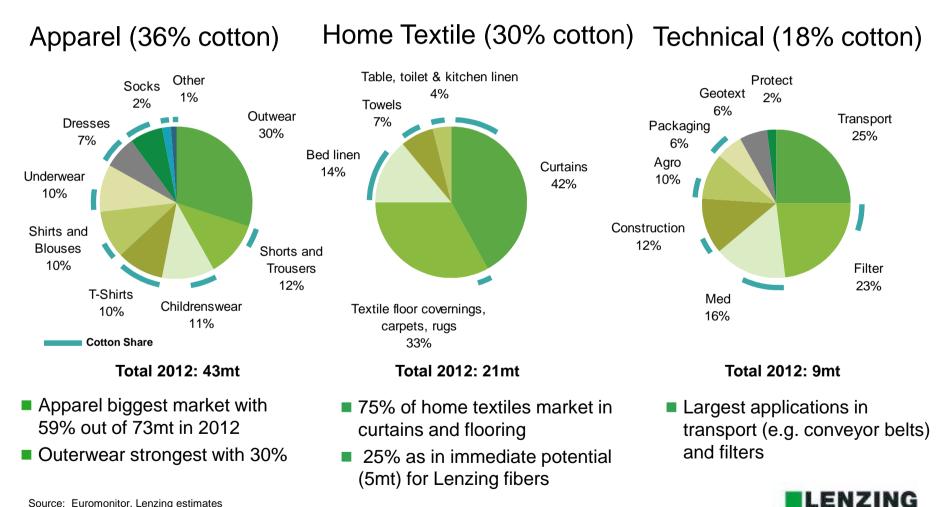
#### Word fiber market dominated by Textile applications

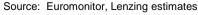
#### Downstream production is centered in Asia

Source: Euromonitor, Lenzing estimates 1) preliminary



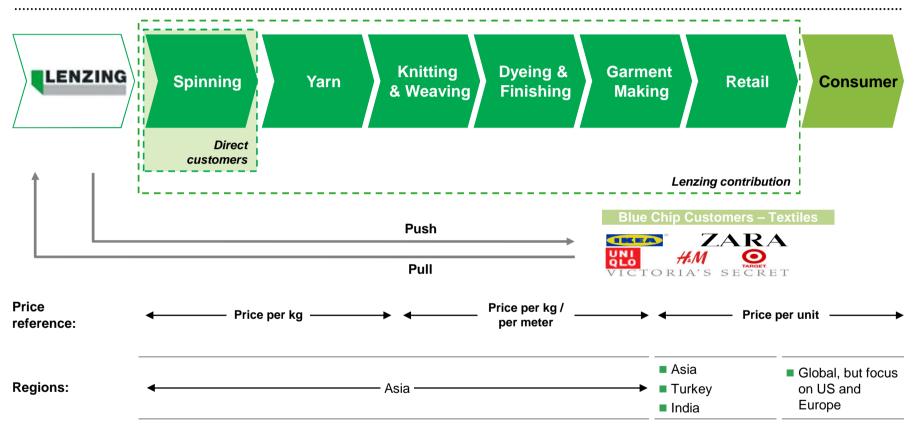
## World textile market by segment





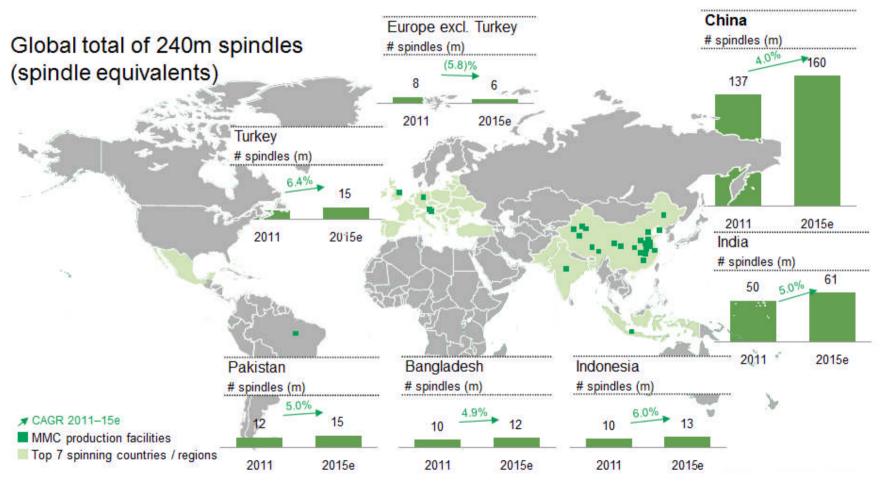
## Long textile value chain

Lenzing with push and pull strategy





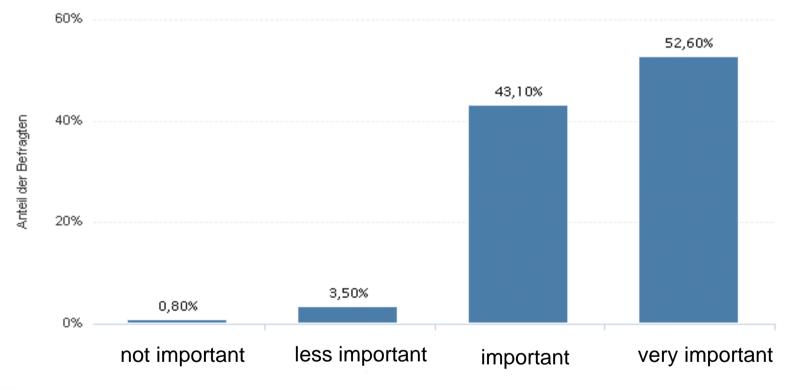
# Asia is and will be the primary market for Lenzing's customers in Textile



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Source: Gherzi, Rieter

#### Consumer wants comfort

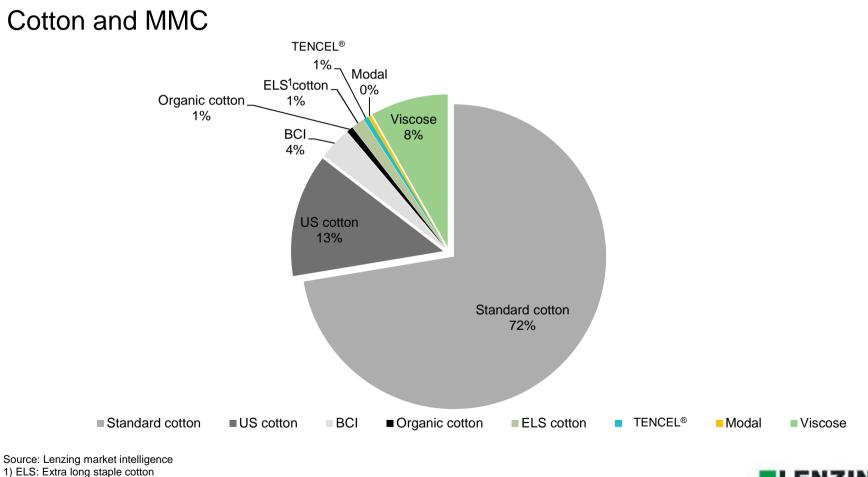


 Deutschland; 14-69 Jahre; 5.671 Befragte; Dialego AG, ISBA Informatik Service-GmbH; April 2011 bis August 2011 Quelle: Manager Magazin; Spiegel

© Statista 2013



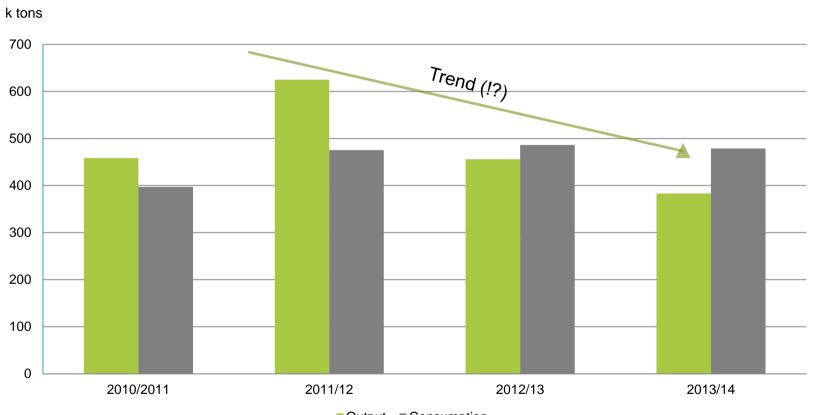
### Man-made cellulosic still a niche in the cellulose staple fiber market





## A shortage of long staple cotton<sup>1</sup> seems to be on the horizon

World output vs. consumption



■ Output ■ Consumption

Source: Cotton Outlook, August 2013 1) PIMA + GIZA cotton



### Comfort factors for textile fibers









Drape

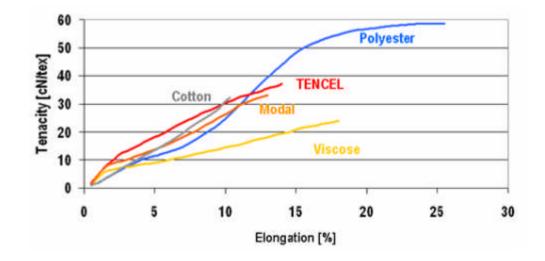






# Cotton and TENCEL<sup>®</sup> - a perfect fit



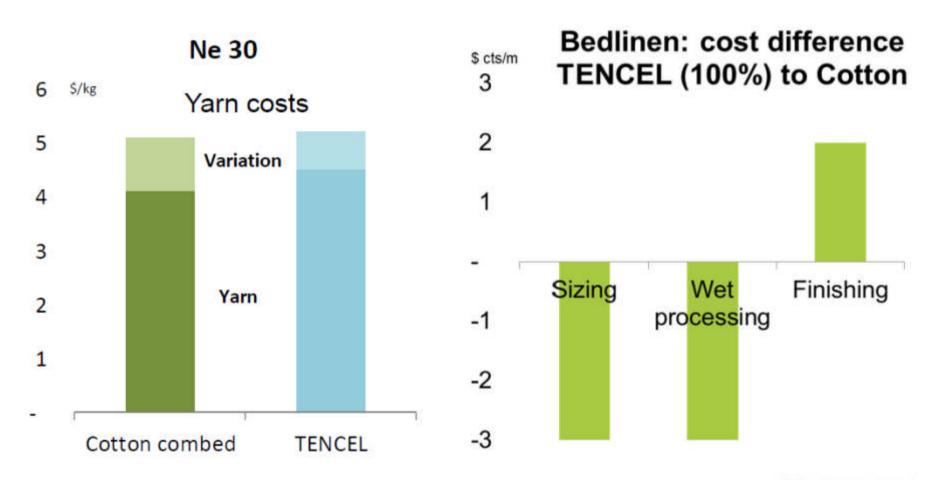




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#### TENCEL<sup>®</sup> is from a cost point of view on a comparative level

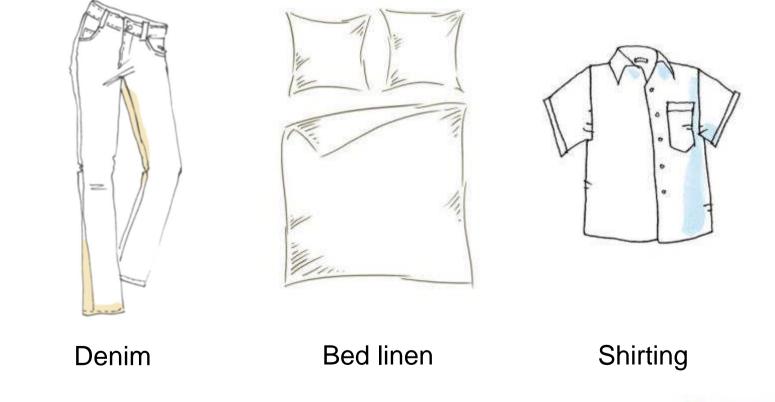




## TENCEL<sup>®</sup> expansion in traditional cotton markets

Potential in woven applications

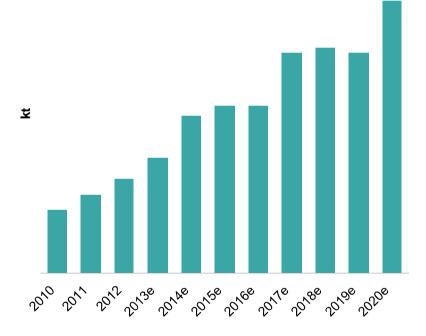
Target applications for cotton and TENCEL®





# Implementing the TENCEL<sup>®</sup> strategy Example – jeans / trousers

#### Volume development TENCEL®



Source: Lenzing estimates 1) Development of innovative fabrics with textile mills

- Denim for ladies wear: softness as a key for fit&comfort
- Sustainability
- Expansion based on product introduction on brand level
- Supply chain creation in target countries
- Facilitate innovation on fabric level<sup>1</sup>





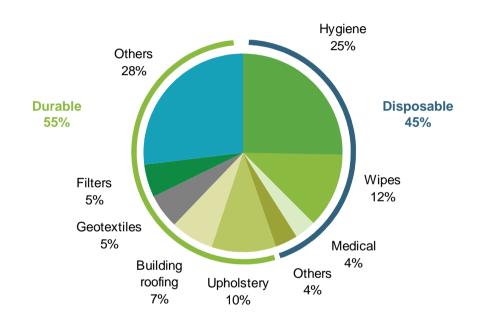
# TENCEL<sup>®</sup> in Denim

Munich Fabric Start Bluezone – Customer feedback





# World Nonwoven market by segment



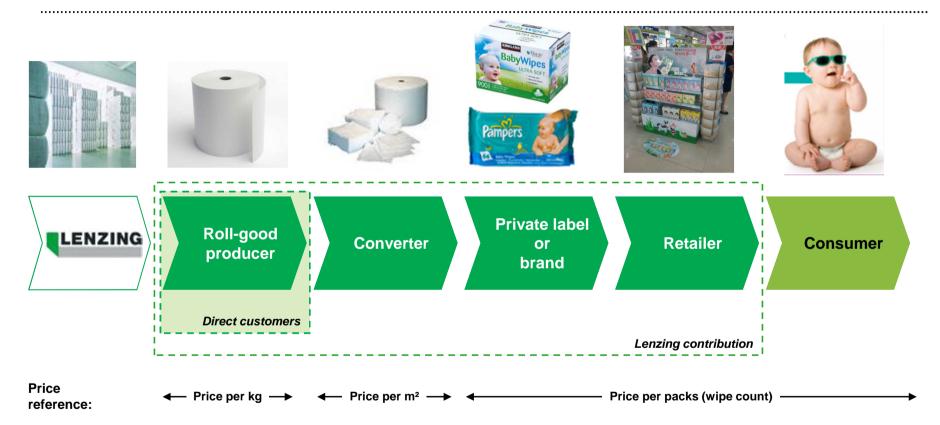
Total 2012P1: 8mt

- Nonwoven market can be separated in disposable and durable segments
- Lenzing is focused on disposable products due to high absorbency and biodegradability characteristics of MMC fibers
- **Technical applications** being the only exposure to the **durable market**

Source: Pisa, Euromonitor, Lenzing estimates 1) preliminary



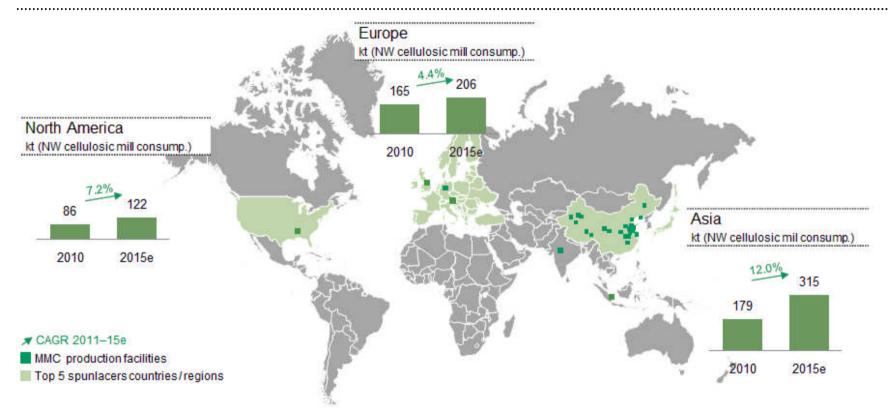
## Nonwoven value chain



 Lenzing is very close to the customer due to short value chain and significant certification requirements



# Europe and the US are the primary mill markets with Asia catching up



- Downstream value chain and end customers in nonwovens currently centred in Western countries
- Transportation cost in the next part of the value chain (from roll-good producer to converter) for nonwovens higher than for textile, hence customer proximity critical

Source: Study "The Future of Global Markets for Nonwoven Wipes to 2017"; Lenzing estimates



# Implementing the TENCEL<sup>®</sup> strategy (Nonwoven) – Scale

TENCEL<sup>®</sup> with a broad range of applications

- Sustainability including wood certification increasingly gains importance for retail
- Biodegradability as key argument for disposable products
- Absorbance and softness as USP elements
- Create pull through further expand branding strategy (TENCEL<sup>®</sup> has indirect influence on consumer decision to buy wipes and hygiene products)
- TENCEL<sup>®</sup> with outstanding properties in technical niches (mechanical strength, porosity, microfibrility)





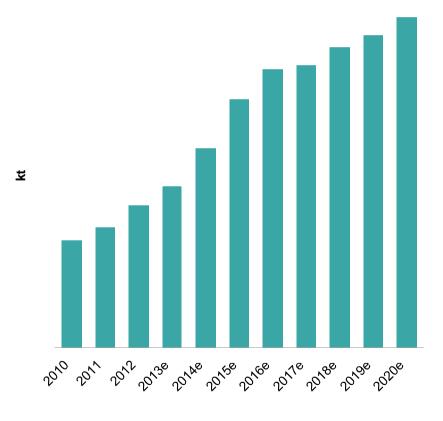






# Example – Wipes

### Volume development TENCEL®



- Increase in downstream activities
- Product innovations
- Increase in branding
- Expanding business to Asia

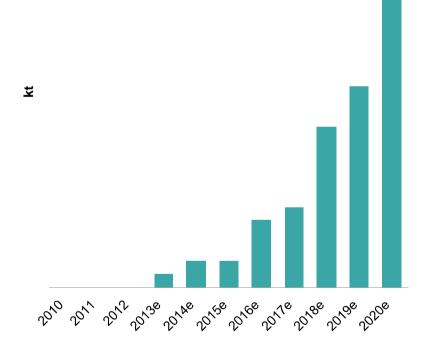






# Example – Hygiene

### Volume development TENCEL®

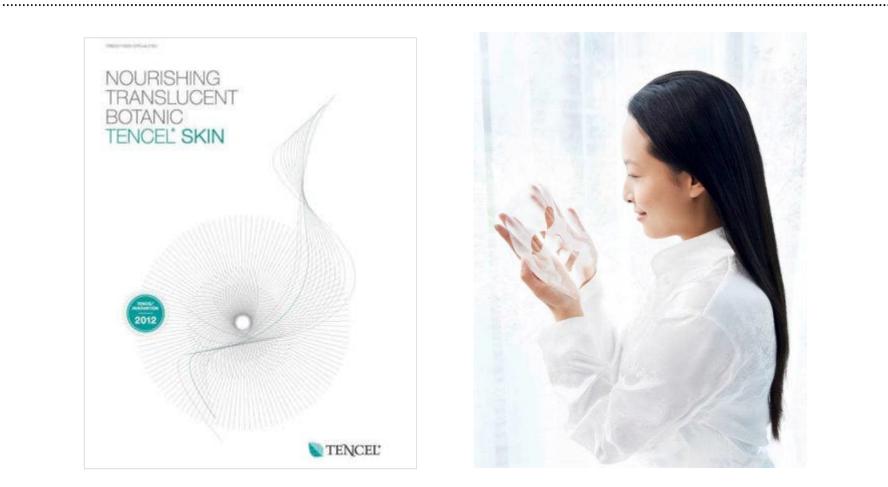


- Focus on skin friendliness
- Package deals
- Biodegradability main argument against synthetics
- Main project in the pipeline: TENCEL BIOSOFT<sup>®</sup>





## **TENCEL<sup>®</sup>Skin for facial masks**





## Translucency Comparison of different facial masks (showcase)



**TENCEL<sup>®</sup>Skin** 



Commercial viscose mask



## Brand recognition – Examples of co-branded products











### **NBC** Facial masks

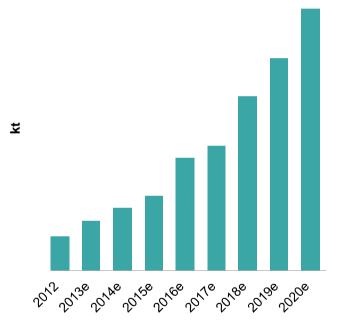






# **Example – Technical**

#### Volume development TENCEL®



- Joint developments with customers
- Product is only sold based on its measureable technical performance
- Perspectives in selected markets as
  - Filtration: automotive and beverage
  - Electrical separator papers: capacitor and batteries
  - Carbon precursors: industrial insulation
  - Other: TENCEL<sup>®</sup> for FR bedding, TENCEL<sup>®</sup> in color catcher (showcase)







Filtration

Separator papers for batteries and alternative fuel vehicles

Carbonization



## TENCEL® in color catcher (Showcase)



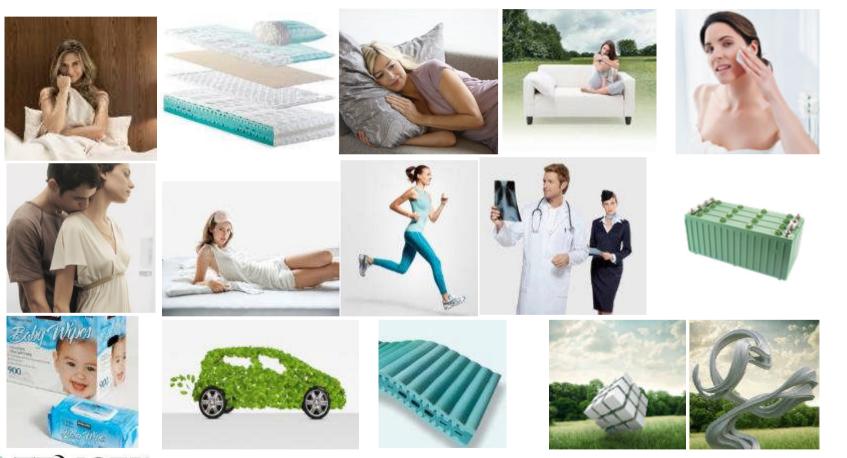


# Lenzing innovation: TENCEL<sup>®</sup> – Precursor for carbonisation





## Growth potential with application innovations: TENCEL® in new enduses







# TENCEL® is the future of innovation







LENZING Capital Markets Day September 19, 2013 The finance wrap-up – Thomas G. Winkler, CFO



# **Financial consequences**

Defining the financial envelope

- Hedge short-term market risk (2013 – 2015)
- Support long-term profitable/ organic growth (2016 – 2020)
- Accommodate
  - High price sensitivity
  - Wide spread in the MMC market's growth perspective
  - Need for financial flexibility
  - Need for optionality

#### Contribute to solid shareholder return

Minimum dividend policy of EUR 1.75

#### Defend shadow investment-grade rating

Total net debt/EBITDA < 2.5 x</p>

#### MMC demand sensitivity - CAGR 2012-2020

	Cotton supply (mt)							
_	25	26	27	28	29	30		
40%	16%	15%	15%	14%	12%	11%		
38%	14%	13%	12%	11%	10%	9%		
36% 38% 4	12%	11%	10%	9%	7%	5%		
34%	10%	8%	7%	5%	3%	1%		
32%	7%	5%	3%	1%	(1)%	(5)%		



# Talking numbers (1/2)

Market-environment adjusted strategy in financial terms

- "We are NOT spending more than we earn going forward"
   Net debt will be frozen at year-end 2013 levels
  - **EUR 480 mn** estimated net financial debt
- "Given some lead time, we have flexibility in our future investments"
   Minimum cash consumption rate is EUR 200 mn p.a.,
   remainder is set by profitability
  - Approx. EUR 100 mn maintenance capex (5% of sales, slightly below depreciation)
  - Approx. EUR 100 mn "stakeholder payments" (20 to 25 interests + 30 to 35 taxes + 45 to 50 dividends)



# Talking numbers (2/2)

Market-environment adjusted strategy in financial terms

"Focus is on scaling TENCEL<sup>®</sup> - taking advantage of our first mover advantage" Price/volume function also applies to TENCEL<sup>®</sup>. TENCEL<sup>®</sup> is, however, best positioned to contribute to profitable growth

- Almost 50% will be added to existing TENCEL<sup>®</sup> capacity by mid 2014
- Key chemical cost only partially swapped into energy cost
- "Lack of visibility lets us take the foot off the accelerator"
   We are growing our sales volume by 5% p.a. in 2014 and 2015

'000 tons	2013e	2014e	2015e
Sales*	910	960	1,000
Capacity**	905	960	1,000
Production***	865	920	960
Utilization (%)	96%	96%	96%

\* includes trading goods from Kelheim and change in inventory

\*\* capacity beginning of the year + capacity end of the year divided by two

\*\*\* excluding Kelheim



# excelLENZ 2.0

Lack of visibility here to stay ...

- excelLENZ 1.0 low hanging fruits
  - Early reaction to the poorer than expected pricing environment 2013
  - Quick-win program designed to help achieve Guidance
  - Success in H1/2013 EUR 16 mn saved compared to Q4/12 actuals
  - 85% of savings by 3 initiatives: Purchasing, Capex, Maintenance
- excelLENZ 2.0 structural cost savings
  - Lead time
  - Upfront cost/investment
  - Offsetting effects (from excelLENZ 1.0)
  - Trade-offs
- **Focus on customers and markets** must not be diluted
  - No paralysis
  - No loss of spirit







LENZING Capital Markets Day September 19, 2013 Summary and outlook, Peter Untersperger, CEO



# Summary and outlook

Our imperatives on Lenzing's strategy

- Focus on customers
- Focus on Asia
- Focus on TENCEL<sup>®</sup>
- Focus on innovation and applications
- Focus on profitable growth
- ➡ 75 years of innovation to be continued successfully!



# Thank you for your attention!

## See you on Lenzing's Capital Markets Day 2014

## Visit our new TENCEL<sup>®</sup> jumbo site!

