

Recent and Future Challenges for the Paper Industry

40th International Annual Symposium DITP, Bled

Frank Miletzky, PTS



Paper: old-fashioned or HighTech?



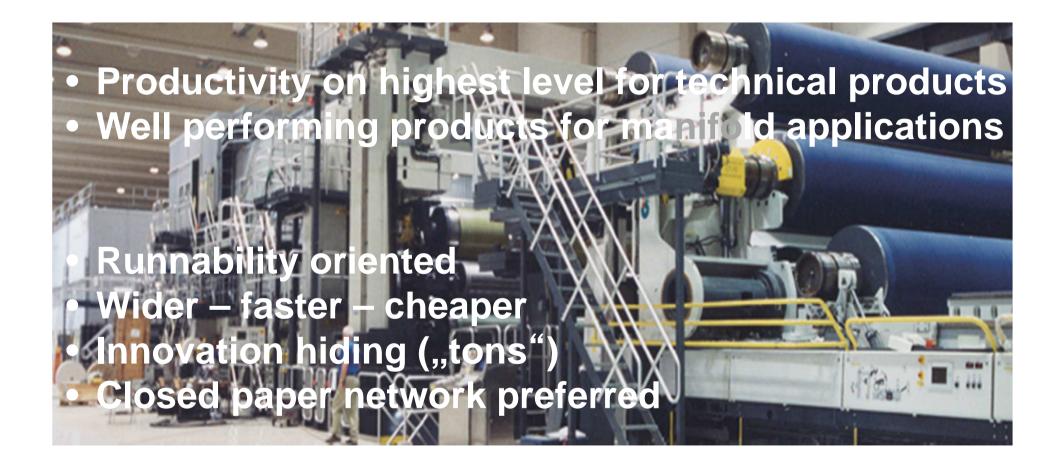


Paper Industry: the Quest for Innovation



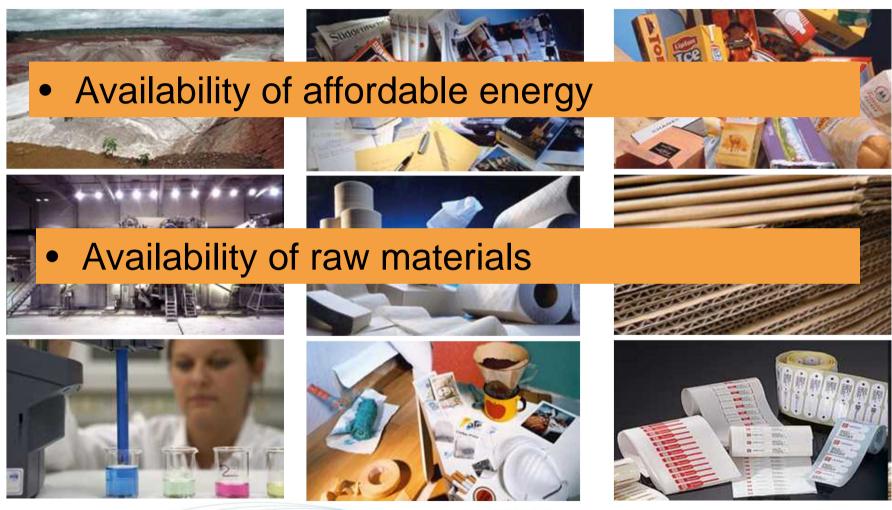


Today's paper world ...





... and basic challenges to survive ...

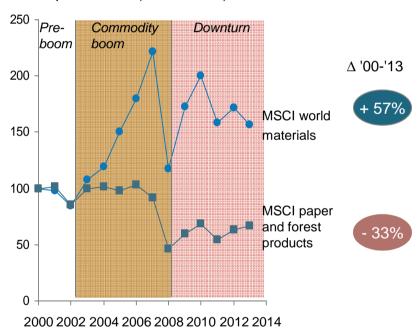




... is getting dark ...

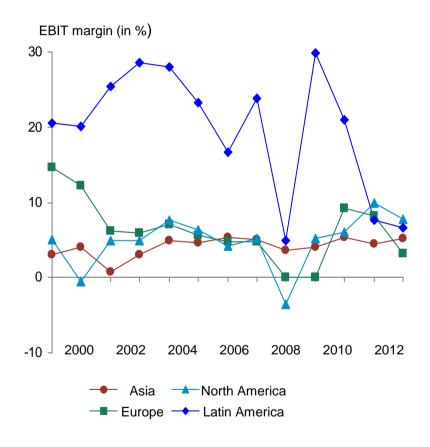
Declining share prices ...

Share price index (2000 = 100)



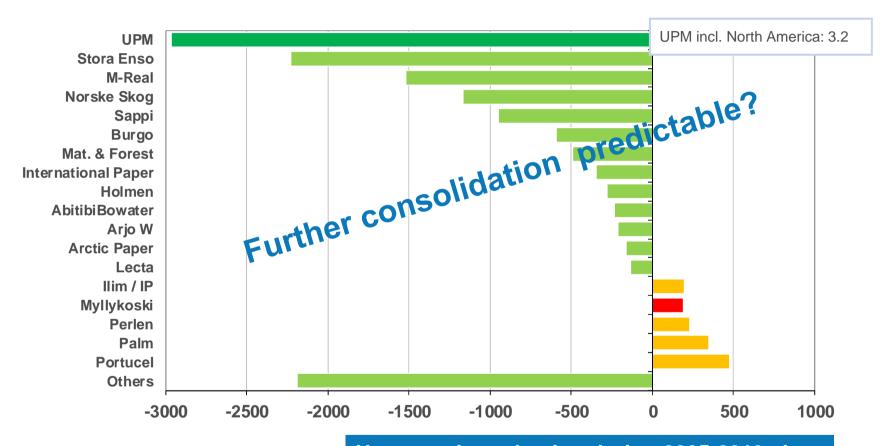
Source: Thomson Reuters Datastream; BCG analysis Courtesy of Roland Haslehner

... and declining margins





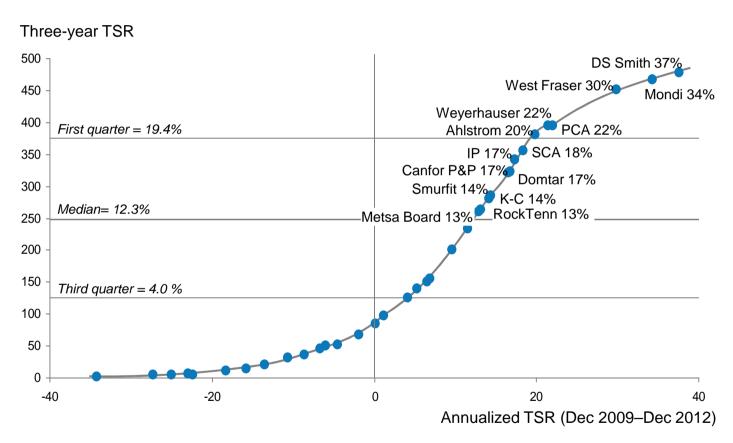
... (e.g. Graphic Paper) ...



Source: Pöyry, UPM, public sources Courtesy of Jussi Pesonen, Hartmut Wurster, UPM Net capacity reduction during 2005-2013e in Europe: 11.7 Mill. Tons (-22 %)



... but there must be light as well!



Source: Compustat; BCG ValueScience Center

Courtesy of Roland Haslehner



The CEPI 2050roadmap

unfold the future 205,0





drawing as it does largely on EU raw materials, will have a central role to play

in the bio-economy,

where the focus will be on sustainable, renewable and recyclable raw materials, used in the most optimal way, and creating the highest possible added value.

50% more value, 80% less fossil CO₂, 40 years from now in a mature European market in a broad sector scope

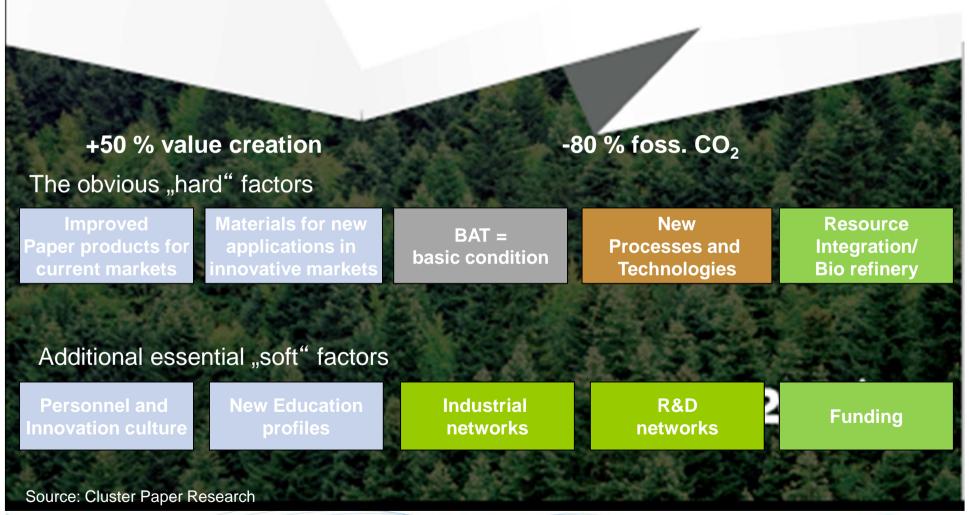
the forest fibre sector

www.unfoldthefuture.eu





What does the CEPI Roadmap mean for the entire paper value chain?





Basic challenges of the paper industry in Europe



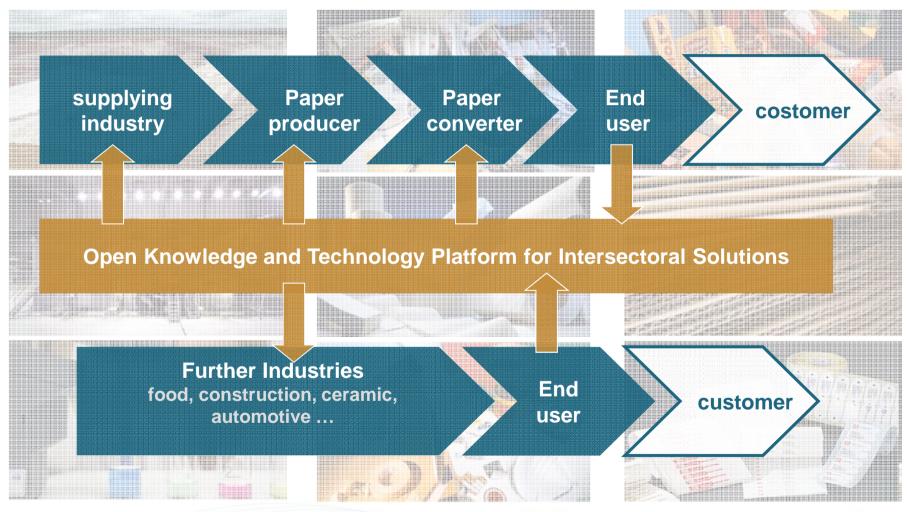


Bridging the Gap: Value creation!



The Challenge

solutions for the entire value chain of paper and moreover

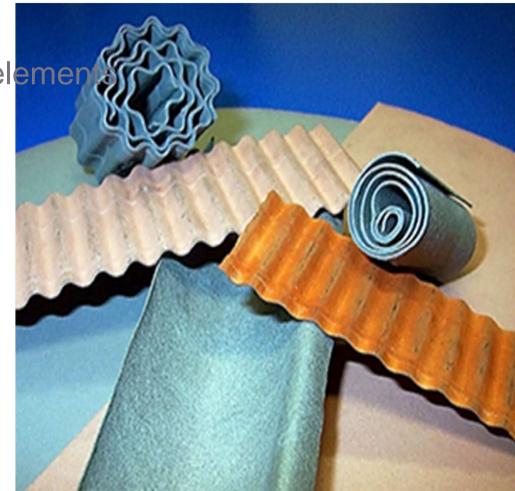




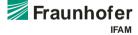
PTS: Innovative fibre-composites for industrial applications

Metal-filled papers

- Lightweight construction elemen
- Filters
- Membranes
- Electromagnetic shielding
- Nozzles and evaporators
- Unique haptic experience



In cooperation with



Funded by













PTS: Innovative fibre-composites for industrial applications

Ceramic papers

Lightweight construction elements

- Filters and membranes
- Nozzles and evaporators
- Catalytic converters
- High temperature insulation

In cooperation with



Funded by









PTS: Innovative fibre-composites for industrial applications

Fire-resistant lightweight building board

- Fire protection classification A2
- Covers
- Door panels
- Body housings
- Containers
- Booth construction

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Tailoring to customers' needs

Paper as material for the building sector

Lightweight construction materials

Paper

As fire protection material

As electromagnetic shielding

As temperature- and moisture

As filters

With designed adsorptive proper

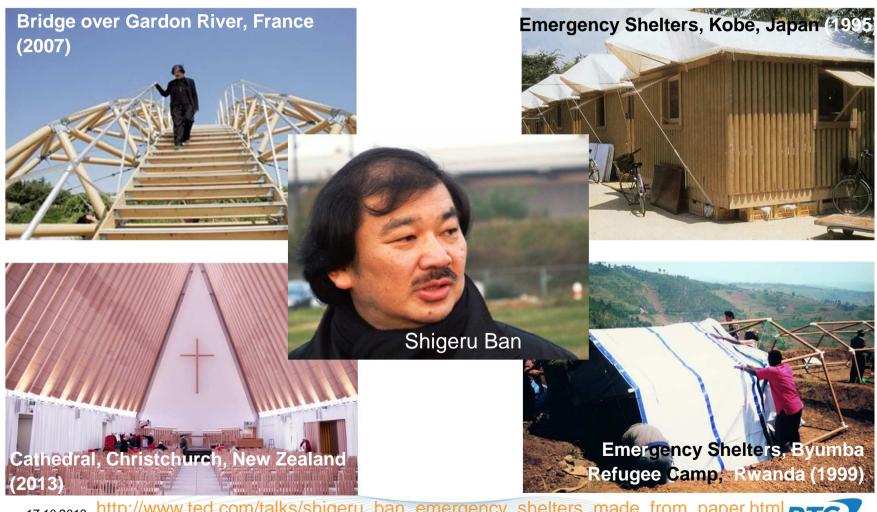
With antibacterial functions

Decor and functional interior design





Does it work? Yes, it does!



17.10.2013 http://www.ted.com/talks/shigeru_ban_emergency_shelters_made_from_paper.html

"Soft design" architecture

- Smooth shape,
- Valuable creation
- Well-being
- Multiple use
- Flexibility and functionality





Pictures: Eriko Horiki



Automotive and paper: An old friendship



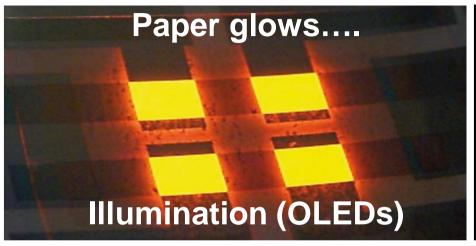


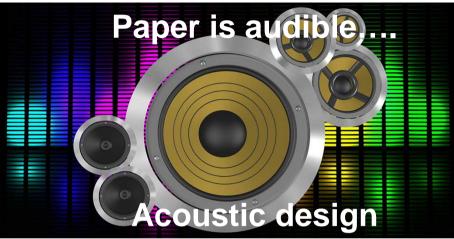
Beyond the material: Passion





Experience Paper anew...











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Conclusions

Global trends determine behavior of individuals and it becomes more obvious from their side, what is really needed.

- Paper industry has to change from a commodity producer to an integrated part of industries supplying HiTec-fibre based solutions.
- Considering outstanding attributes of paper in terms of availability, sustainability, technical performance as a biobased, lightweight material but also positive emotional reflection creates new product ideas.



Great future for fibre based solutions!





Dankie Gracias

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Vielen Dank

Děkujeme vám ありがとうございます

Tack

