

Rieter Textile Systems

Presentation

by

Peter Gnägi

CEO Rieter Textile Systems

Sept. 30 / Oct. 1, 2004

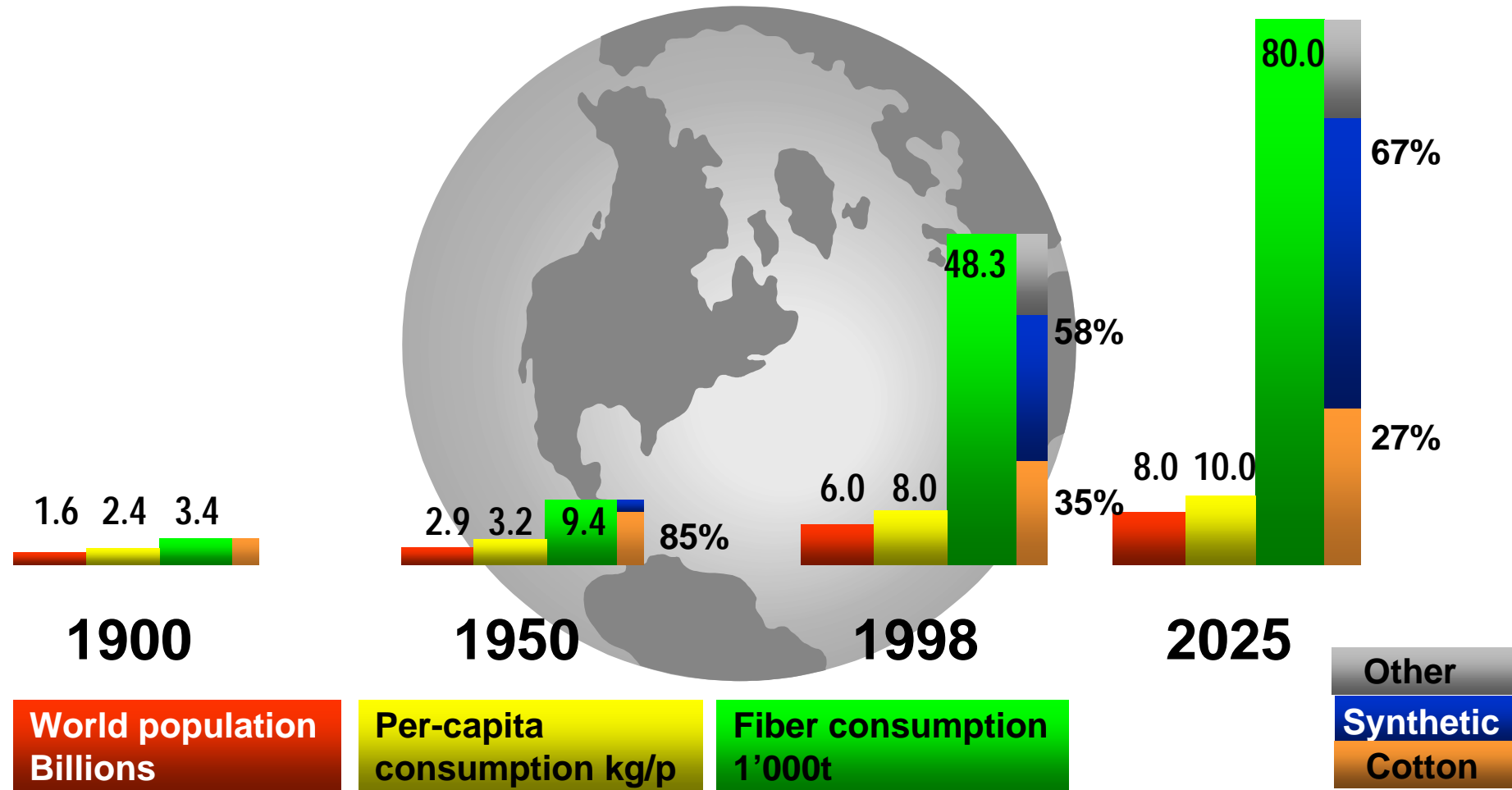
Highly profitable, highly flexible textile machinery business with the following priorities:

- **Expansion of the component business**

- **Reinforcement of the nonwovens business**

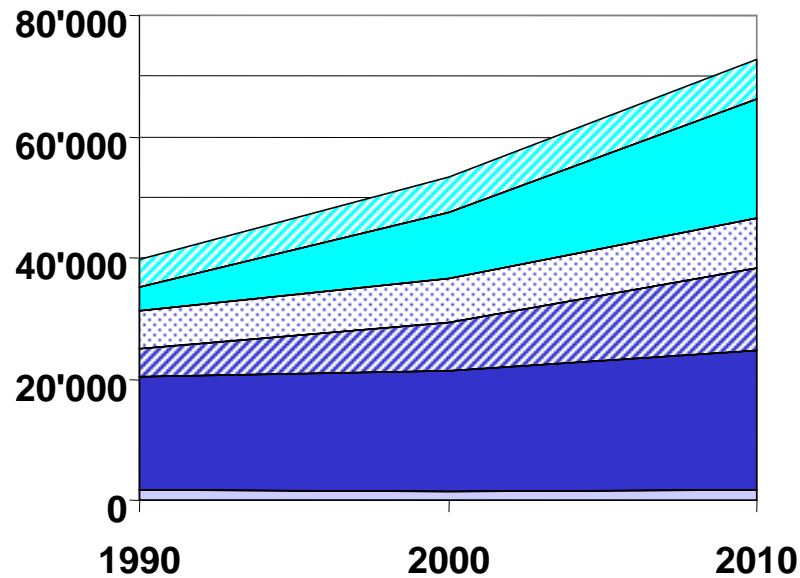
- **Improvement in the man-made fiber business**

Fiber Consumption was and will be growing



Our Market will be in Asia

World fibers production in 1'000 TONS

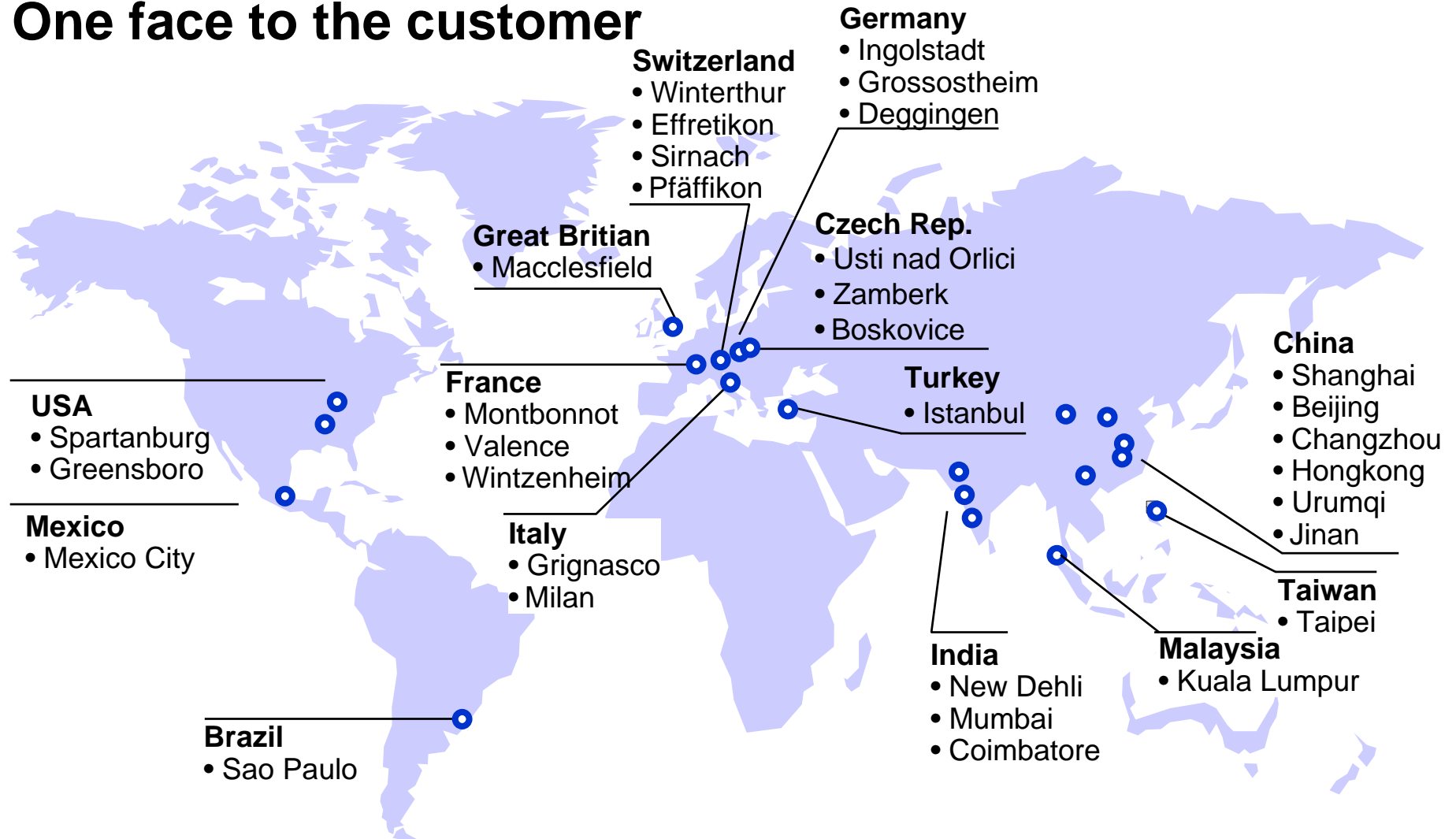


- Other Manmade Staple
- Polyester Staple
- Cotton
- Wool
- Other Filaments
- Polyester Filament

	2000	2010
China	26%	37%
India	9%	10%
Turkey	4%	4%
Rest of the world	61%	49%
Total	100%	100%

Source: PCI Fibres & Raw Materials

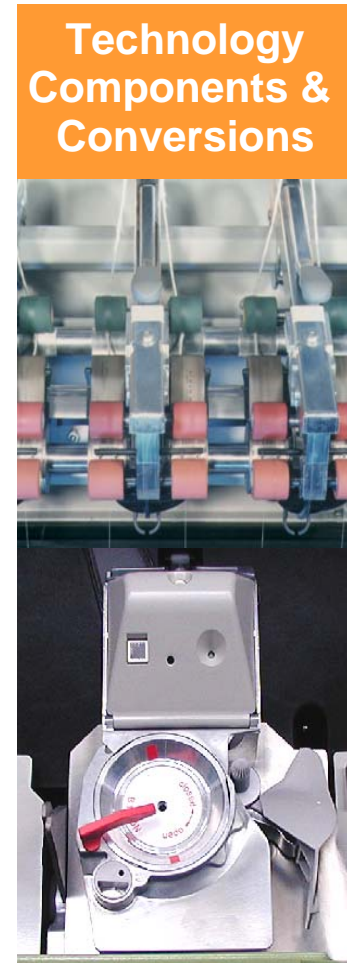
One face to the customer



Textile Systems: Product Overview



Five Fields of Business

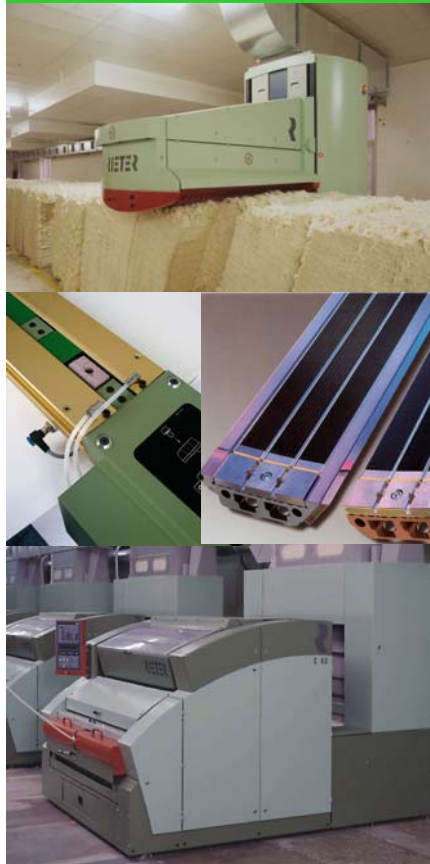


Spun Yarn Systems



Spinning System from Bale to Yarn

**Blowroom
Card**



**Spinning
Preparation**



**Ring
Spinning**



**Rotor
Spinning**



Textile Products: Filament Yarn Technologies



System Supplier of Filament Yarn Machinery

Carpet
Yarns



Industrial
Yarns



Textile
Yarns

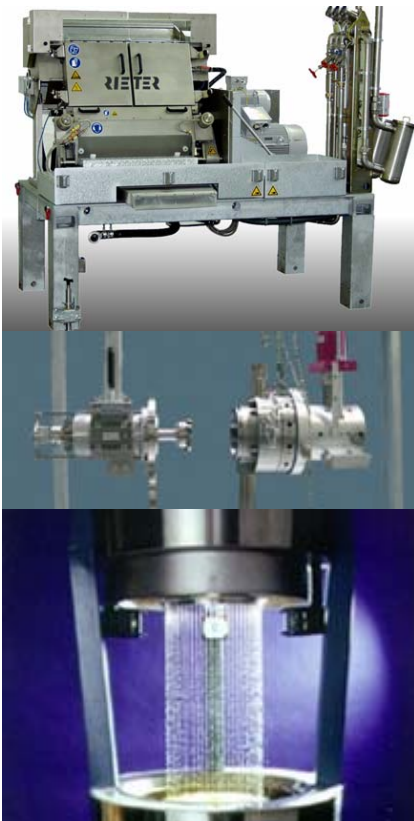


Glass
Fibers

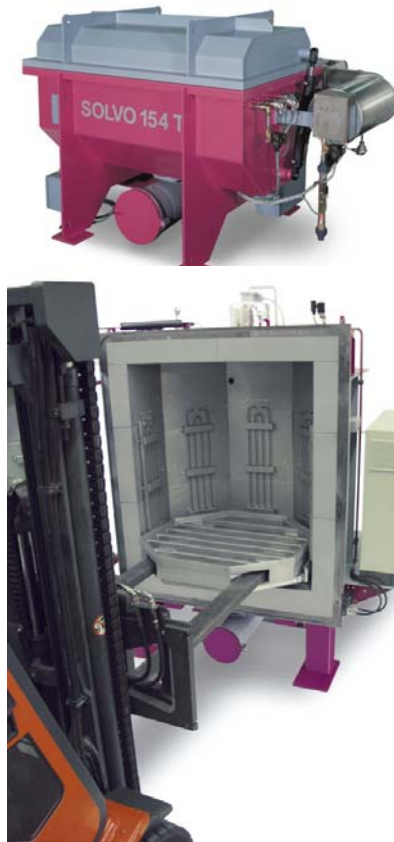


From Pellets to Plastics to Filaments to Nonwovens

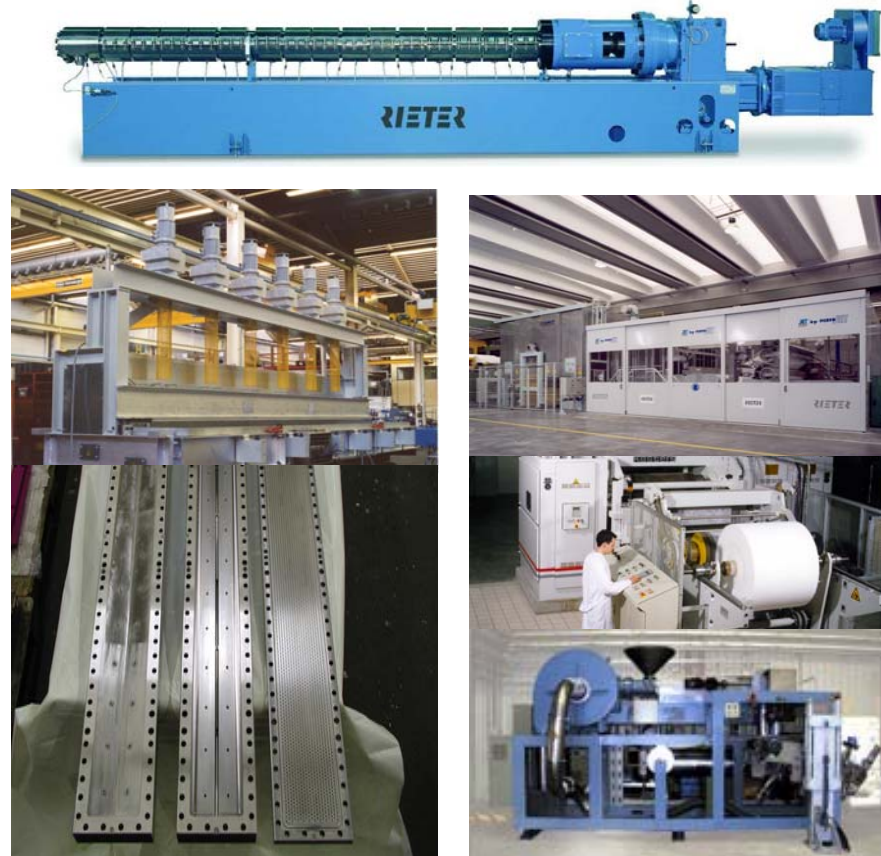
Pelletizing
Systems



Cleaning
Systems



Spinning
Components



Nonwovens
Systems



Knowledge along the entire Value Chain



Research & Development

Raw material

Yarn production

Fabric production

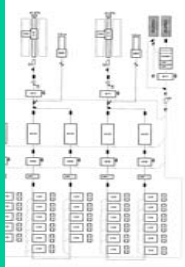
Trade

End use

Know-How

System Supply - More than products

Services from
presales to
after sales



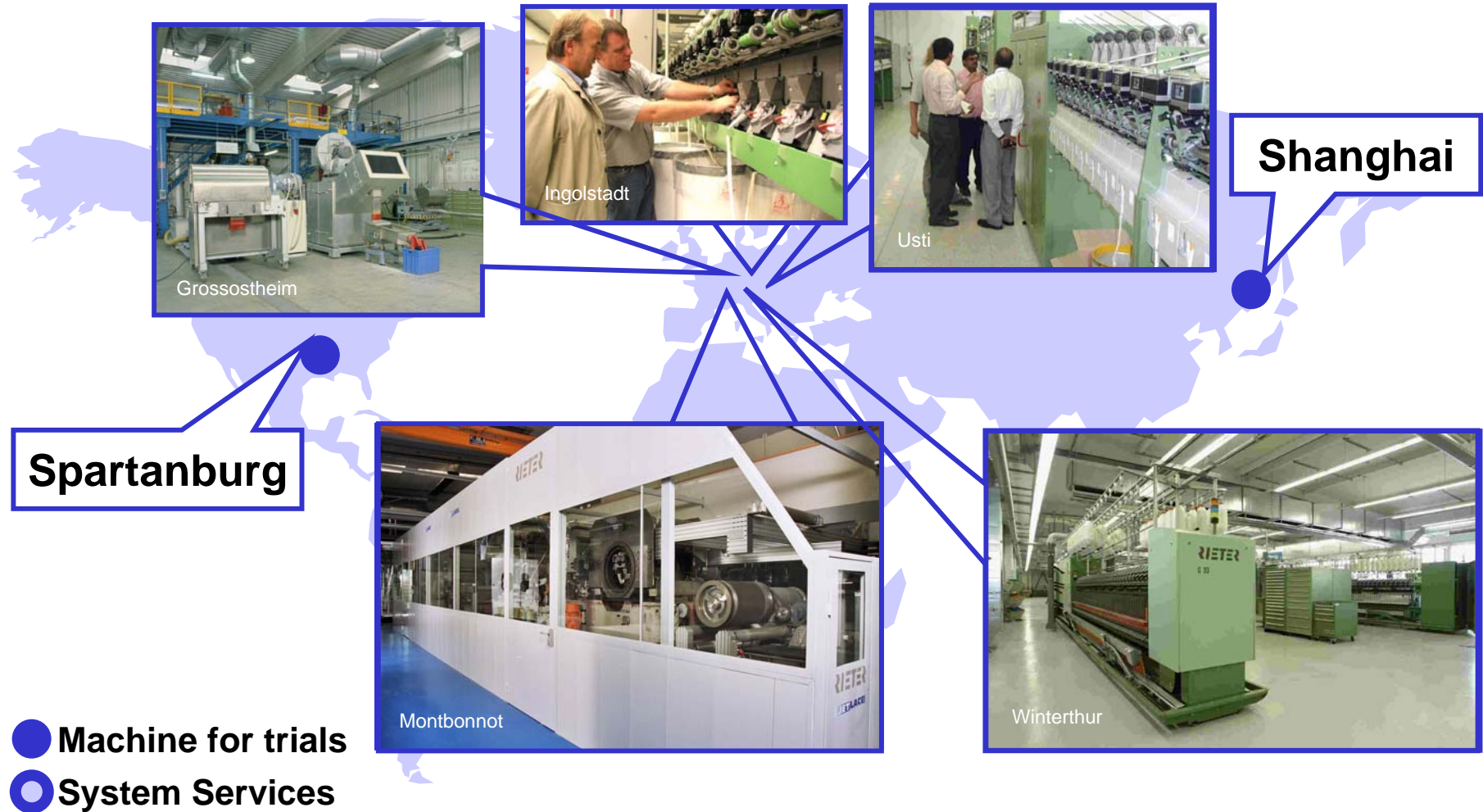
Technology
Support



Management
Support



Technology Centers for Best Customer Support



Rieter Network for Future Innovations



Innovations have a background

- Listen to the customers, know their needs
- Create the right spirit and culture
- Allocate resources, including trust and patience

Innovations by Rieter: Not all, but most are successful

- Pavena Spinning ... *No success*
- First Ring Spin Doffer ... *No success*

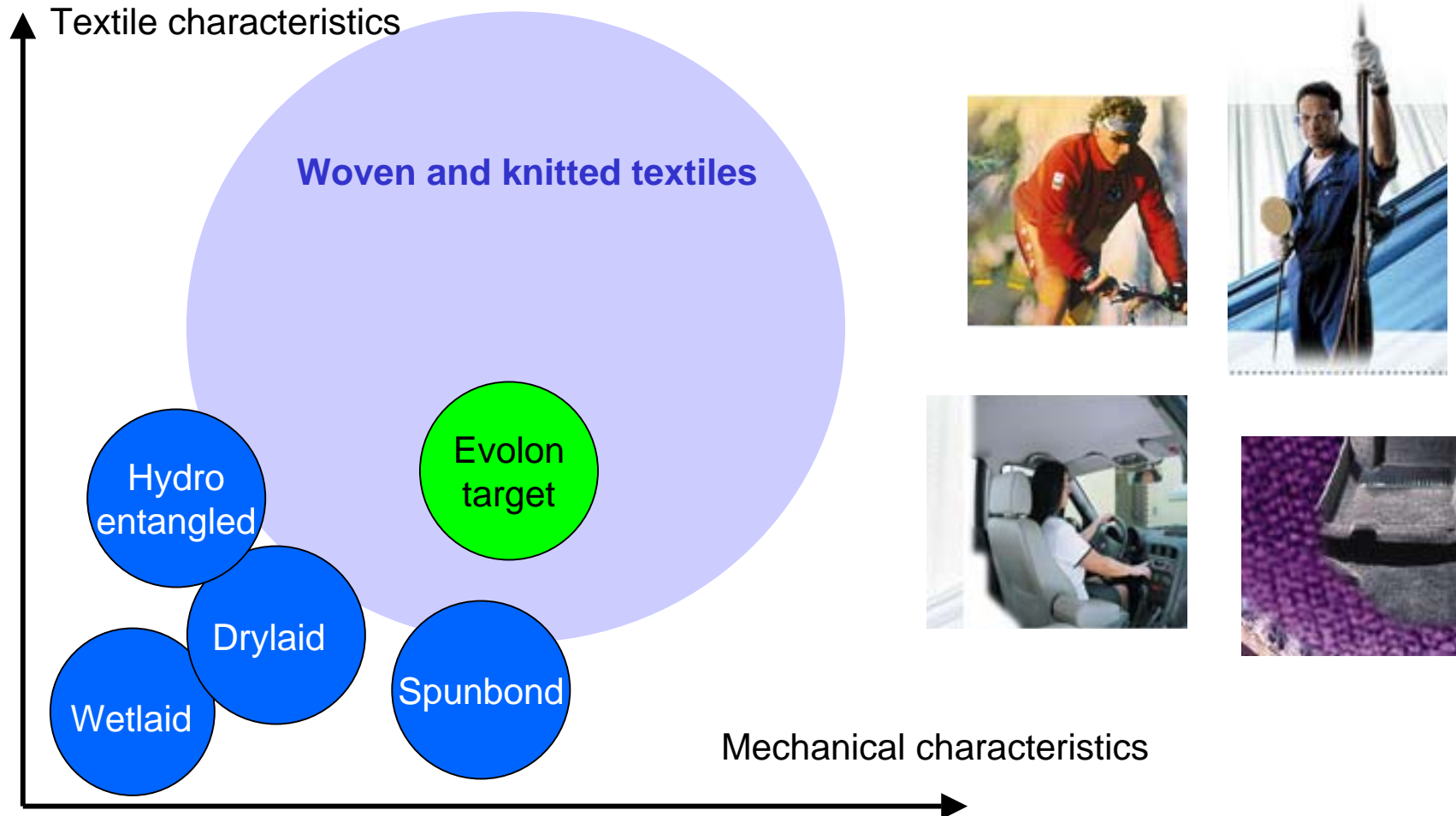
- COM4 (new yarn type) ... *Success*
- BCF-Yarn (integration of texturing in spinning of carpet yarns) ... *Success*
- Rieter Rotor Systems (shortest process in cotton spinning) ... *Success*
- Under water pelletizing ... *Success*

- **Nonwoven - Spunlace (=waterjet needeling) ... *On the Way ...***
Not yet fully explored possibilities. See next slides (example *Evolon*)

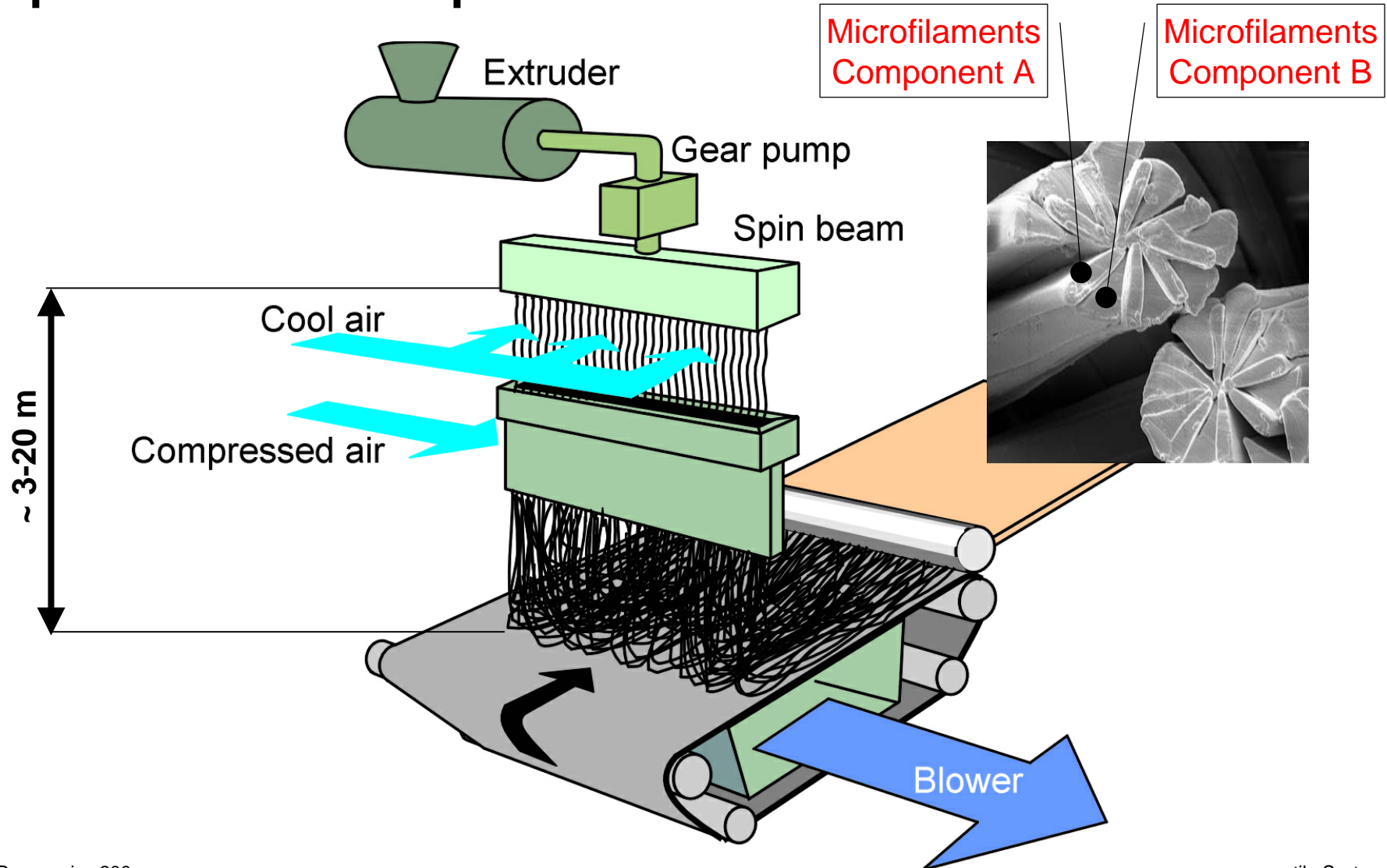
Nonwovens in Comparison to Weaving Technology

	Woven	Nonwoven
Maturity	> 250 years	> 40 years
Complexity	Multi stage process	Multi technology process
Speed	Slow – parallel material flow	High – single-pass material flow
Investment 10.000 t/y	9 – 30 mEuro	7 – 15 mEuro
Production Costs	0,4 - 0,7 EURO/m²	0,05 - 0,4 EURO/m²

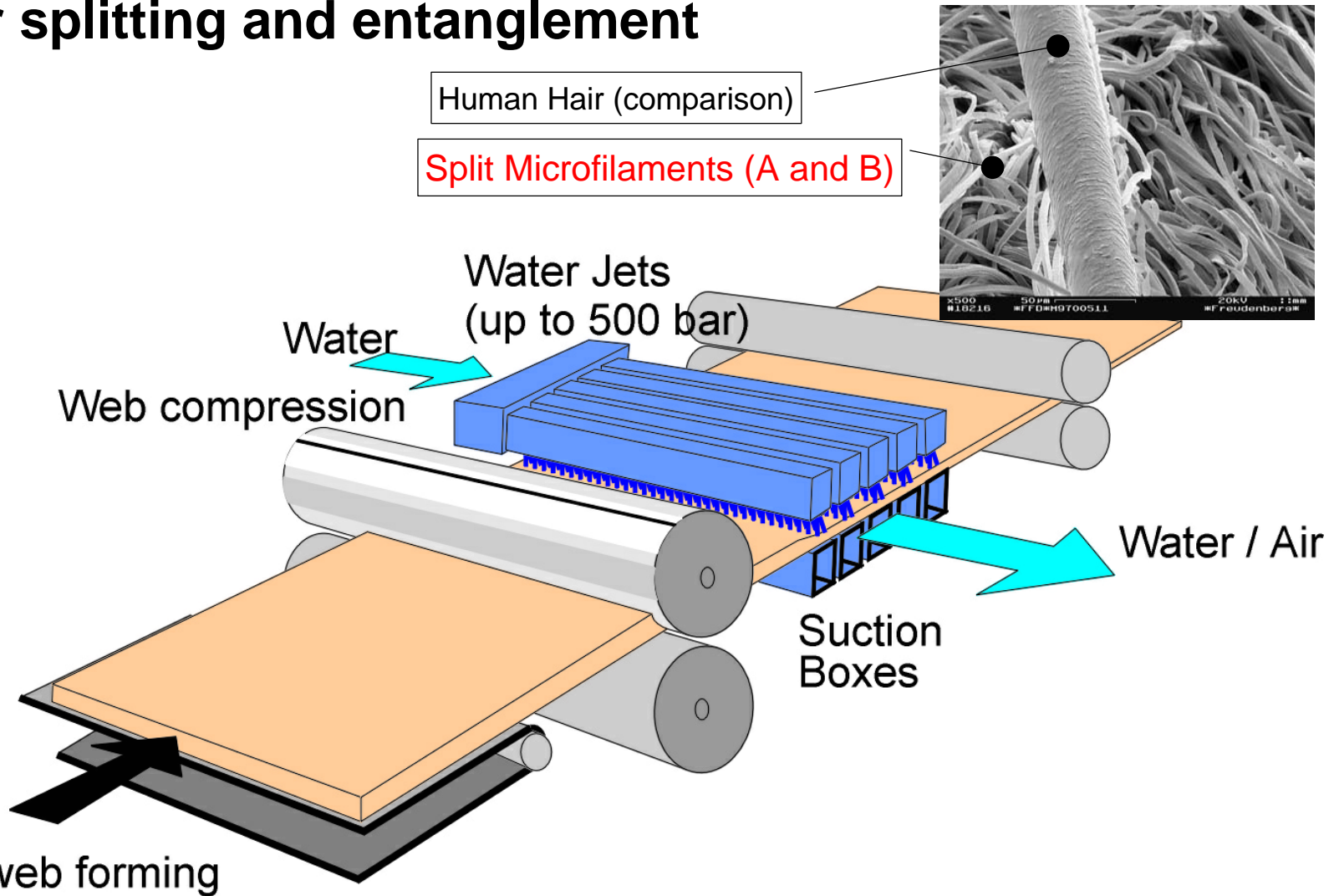
Co-operation with Customers: Freudenberg (Evolon)



Spunlaid of Bi-component fibers



Water splitting and entanglement



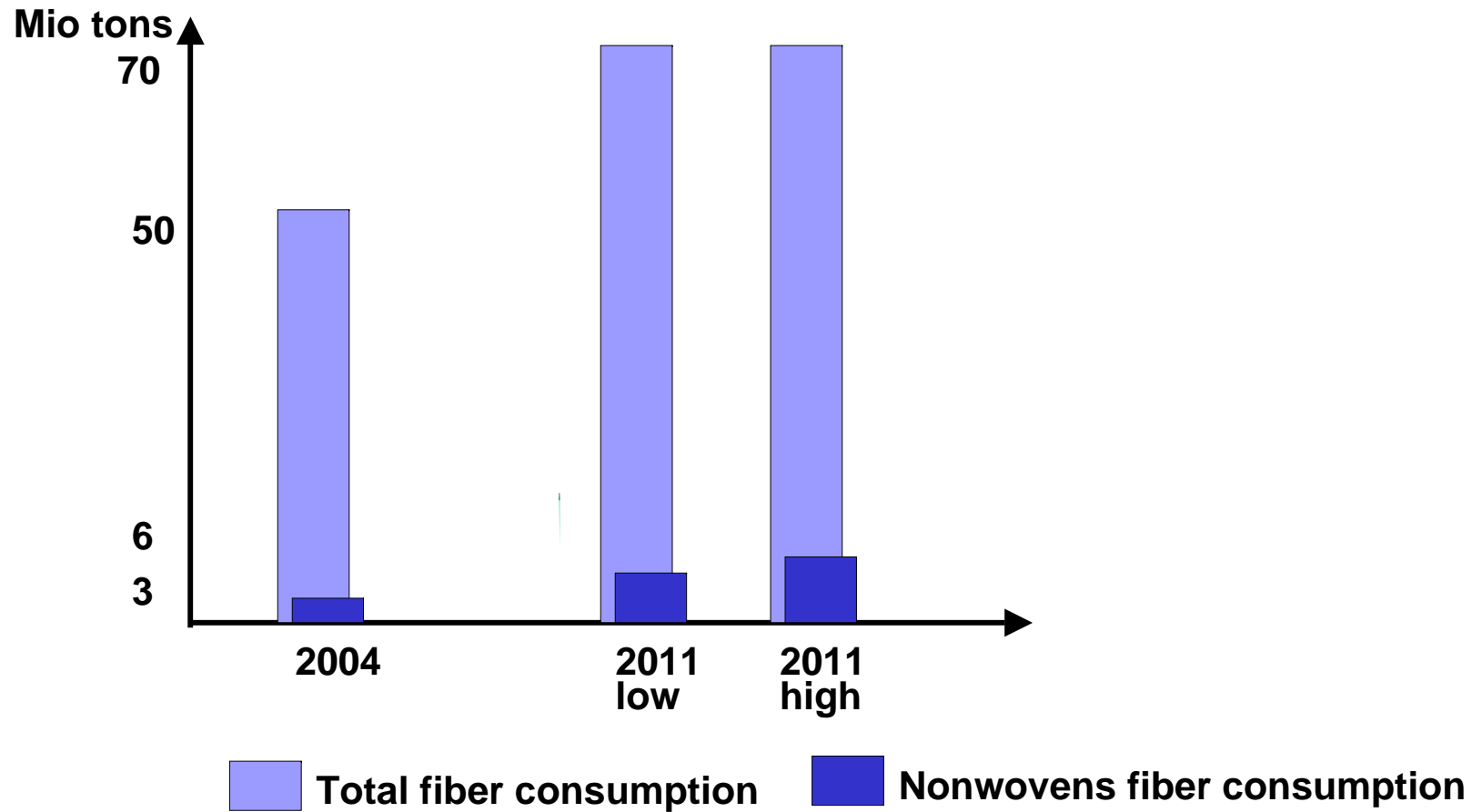
Rieter Nonwoven Pilot Line in Monbonnot, France



All Technologies under One Roof



Possible Growth Opportunity due to Innovation



Advantages for Innovation

- **Most important technologies under one roof**
- **Versatility in regard to raw material use**
- **Easy combination of different technologies**
- **Semi industrial development of new products**
- **Production capacity for marketing trials (market pretest)**
- **Training facility for customers**

