



ecological **coating technologies**

Linen textiles with added functionality

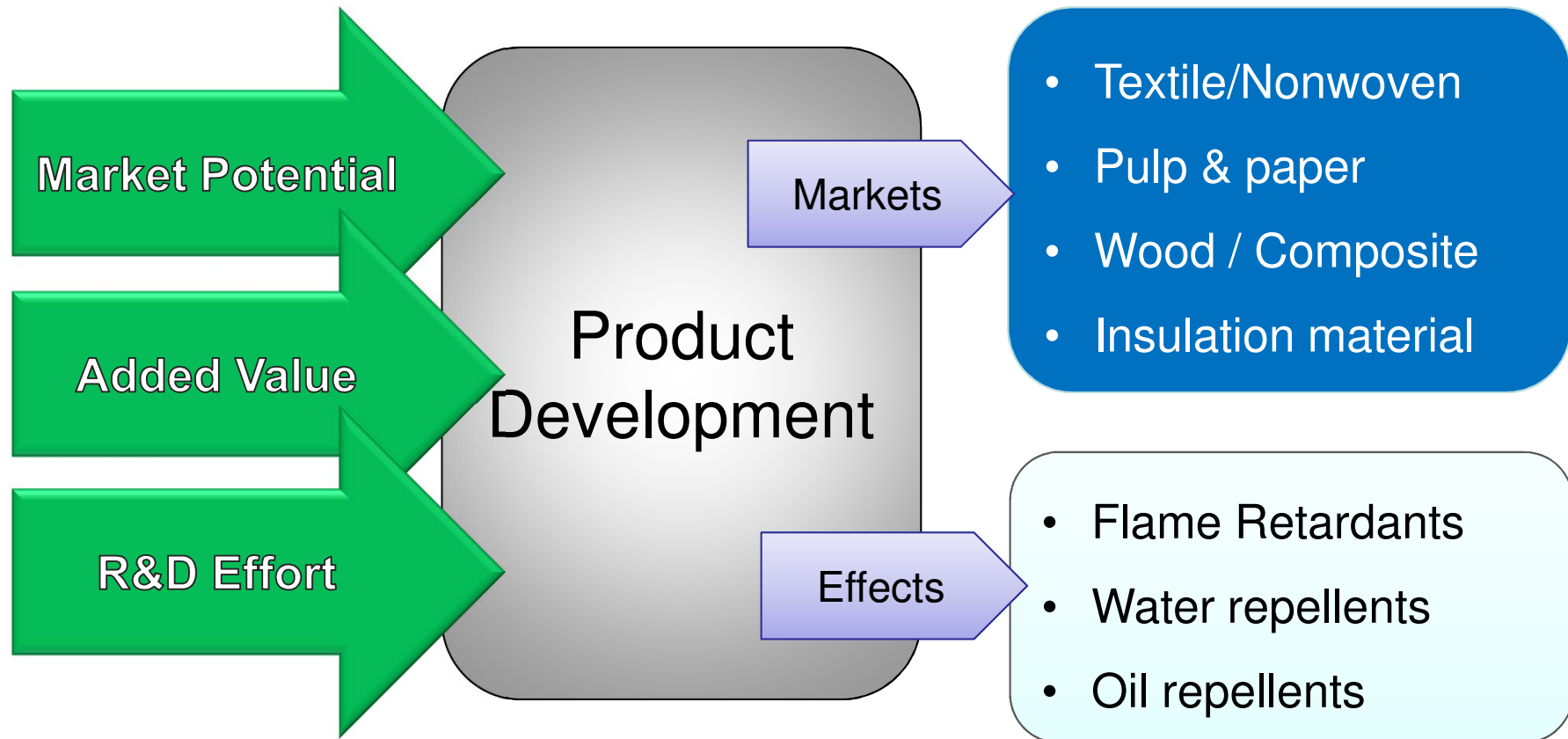
Rule Niederstadt
Managing Director
ecoatech GmbH

INNOVATION
Made in Germany

- A technology company based in Augsburg/Germany
- Innovative flame retardants and additives
- Products from own research & development activities
- Systems and solutions for manufacturing companies



Ecoatech Product Fokus



Technical projects with high USP for our customer

Textile Fibers

Natural Fibers

- Cotton
- Wool, Silk
- Linen, Jute, Hemp

Man-made fibers

- Polyester
- Polyamide
- Acrylic, Elastan

Modified Natural Fibers

- Viscose
- *RECOTTON*

Linen properties

- High strength and durability
- Good moisture transport, can be dried easily
- **Feels cool and fresh,** low thermal insulation
- Antibacterial effect

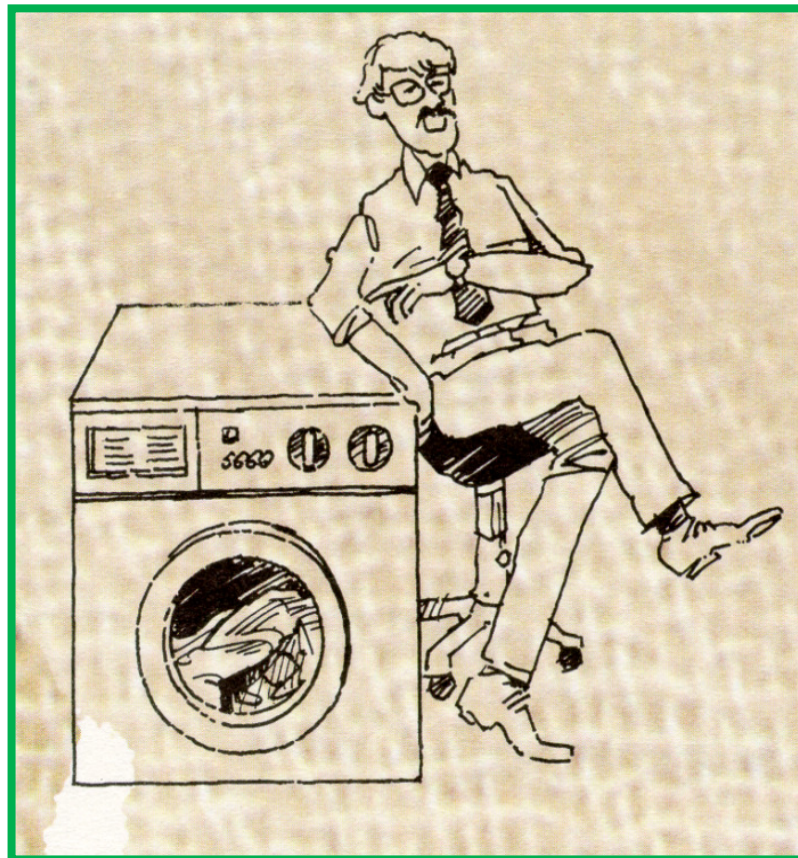
- Poor drape and
- Low elasticity
- More expensive than cotton
- **Wrinkles and creases easily**
- **Careful washing required**

Linen – a well-liked fabric used for numerous purposes



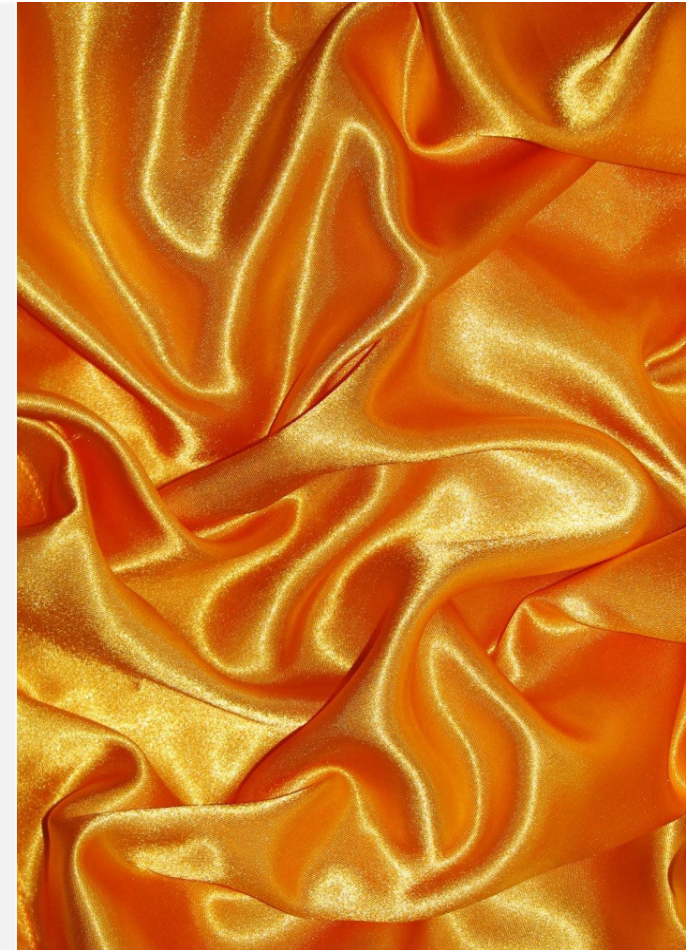
Innovation needs linen

Better easy care properties required



Additives can add value

- Improve effect strength
- Add new effects and combinations
- Modify surface tension properties
- Cheaper than functional fibers
- Can compensate fiber deficiencies
- Product differentiation



Finishing for linen

Comfort & Easy Care Additives

- Resins • enhance easy care properties
- Elastomers • enhance aesthetics
- Specialty polymers • enhance performance

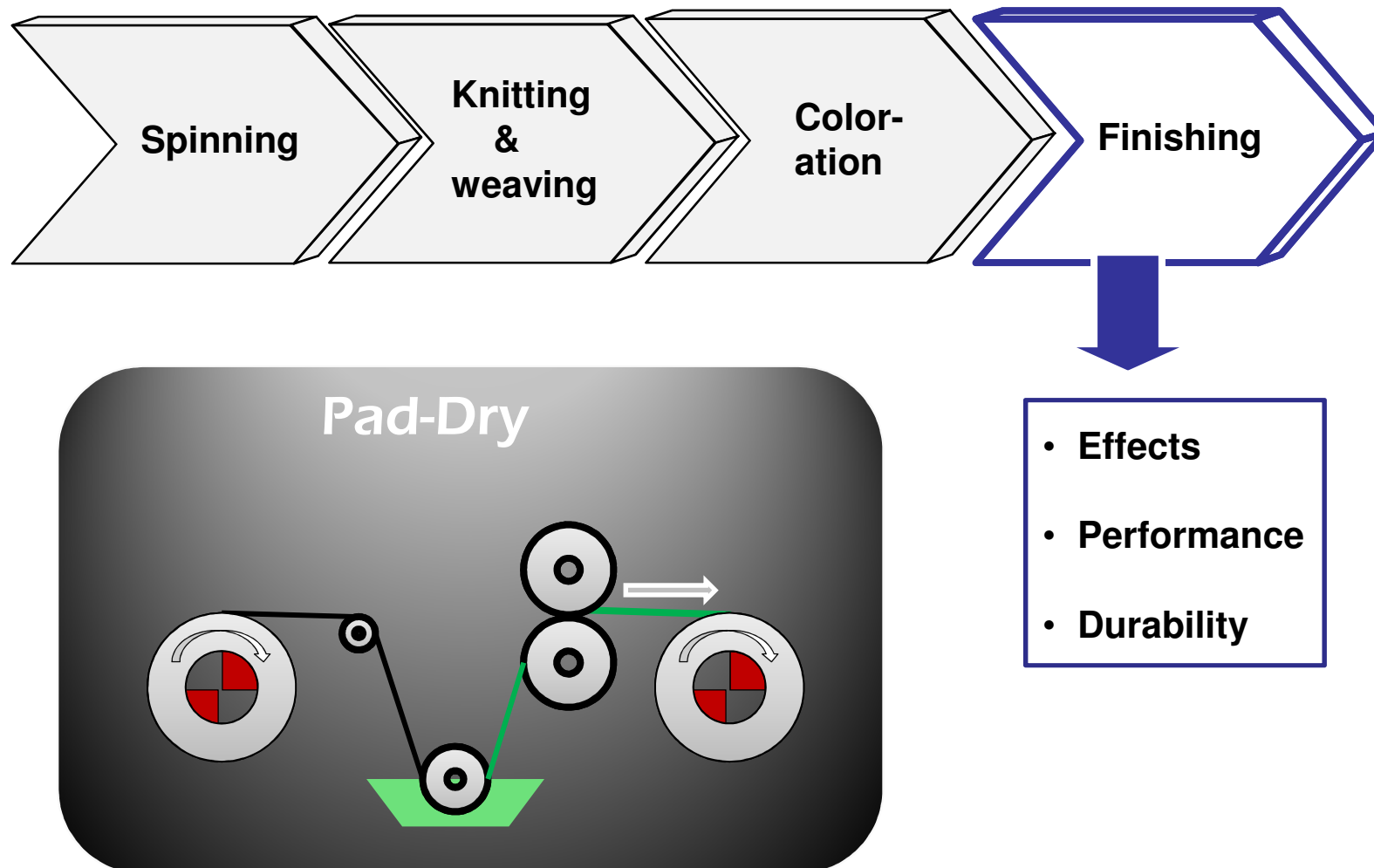


Water & oil repellents

- Fluorine-based products • Oil repellents
- Non-Fluorine based • hydrophobic agents



Textile Value Chain

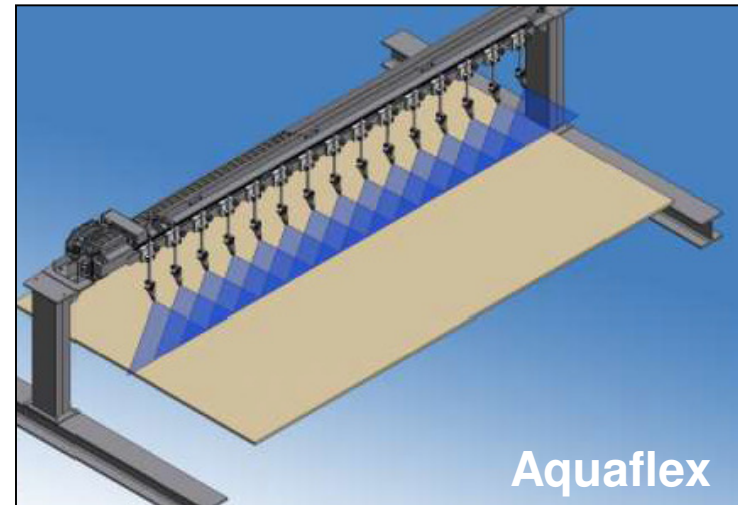
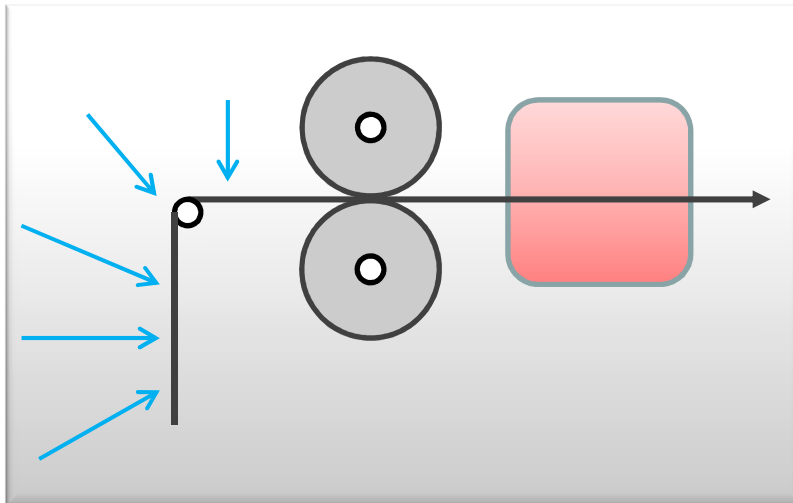


Spray - Technology

- Advantages
- High Energy saving
- Fast Application
- Flexible Add on points
- Small application units

Supplementary add on tool

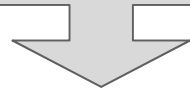
- **For Product Concentrates**
- **Airless Spray type**



Linen application system

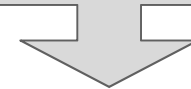
Spray Application

- X-linker impregnation
- Good wetting properties
- Low moisture pick up



Pad Application

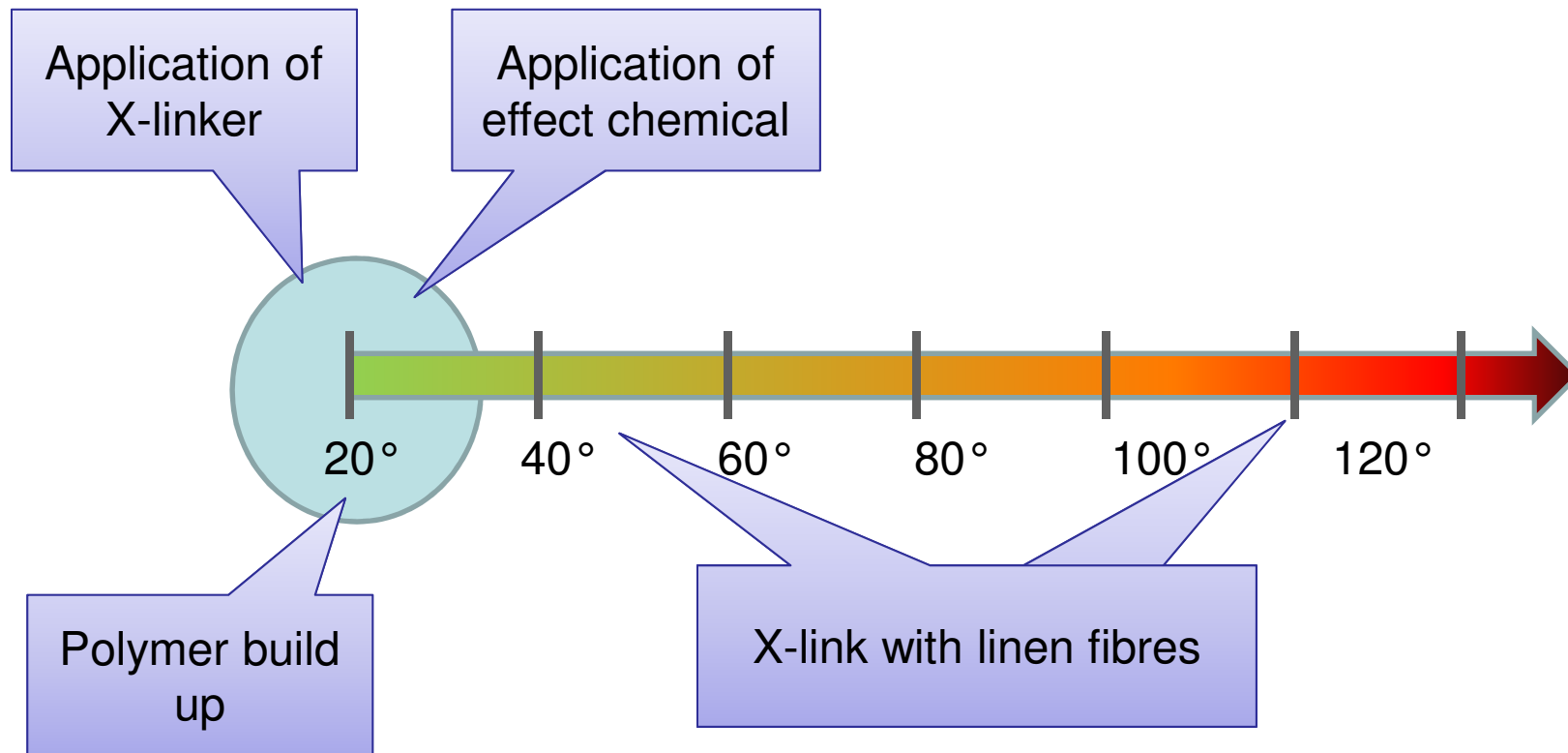
- Main Effect
- Even distribution
- Wet in wet



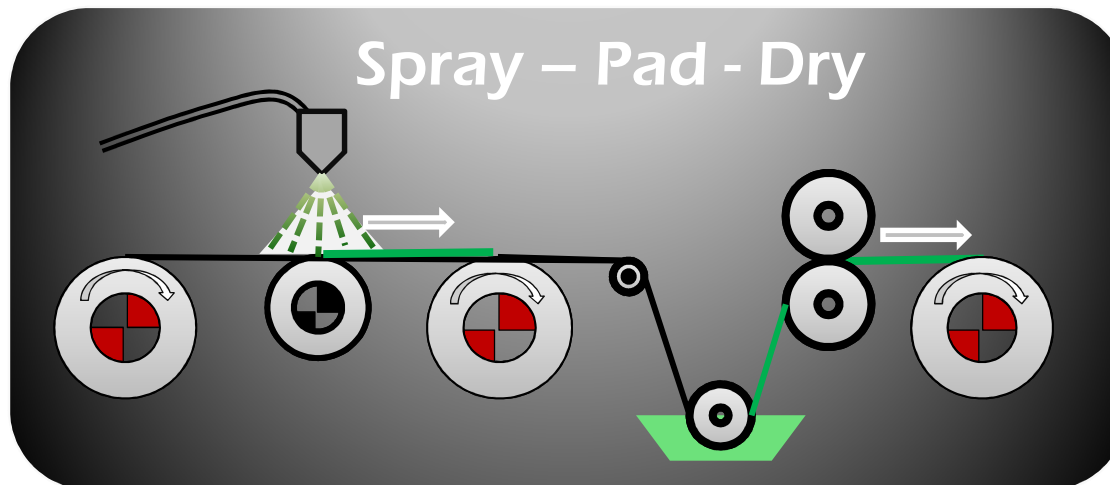
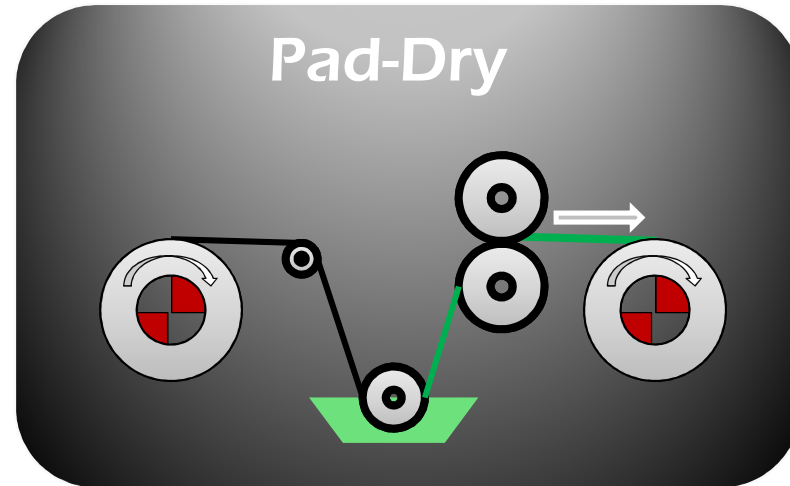
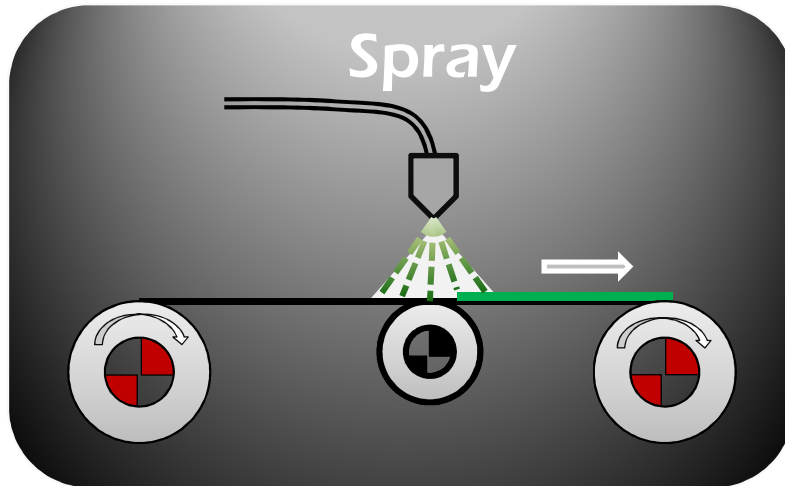
New Effect application • **Two in one**

Application process

Durable effects on linen



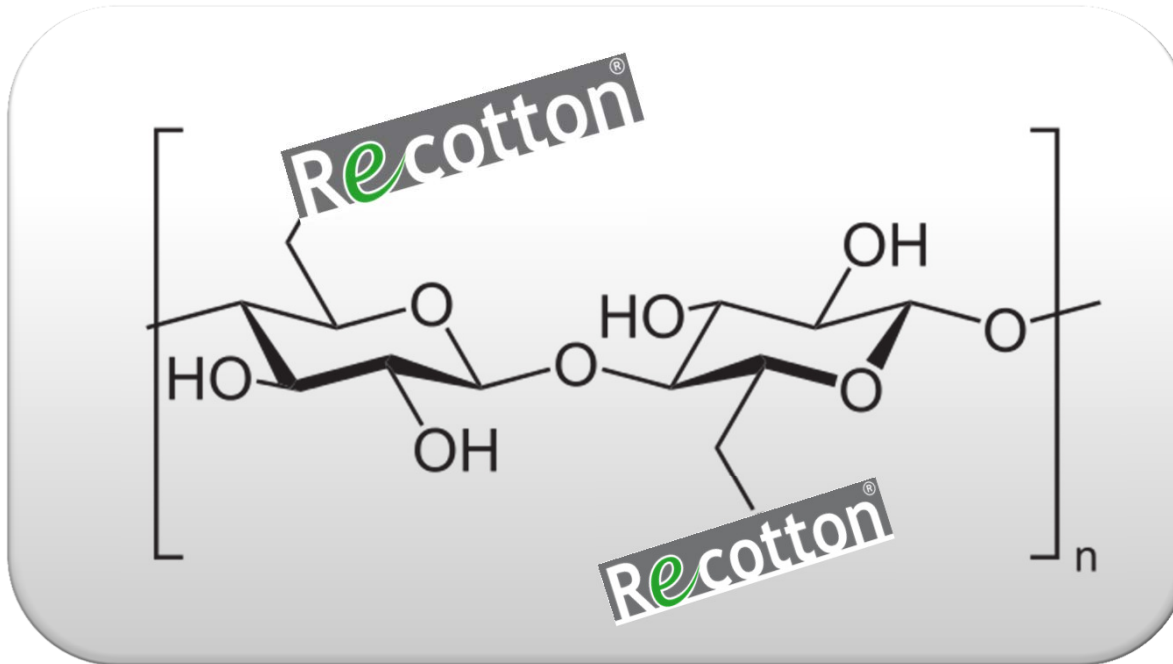
New Application System



**Two in one
application**

Grafted effects on cellulose

Recotton®

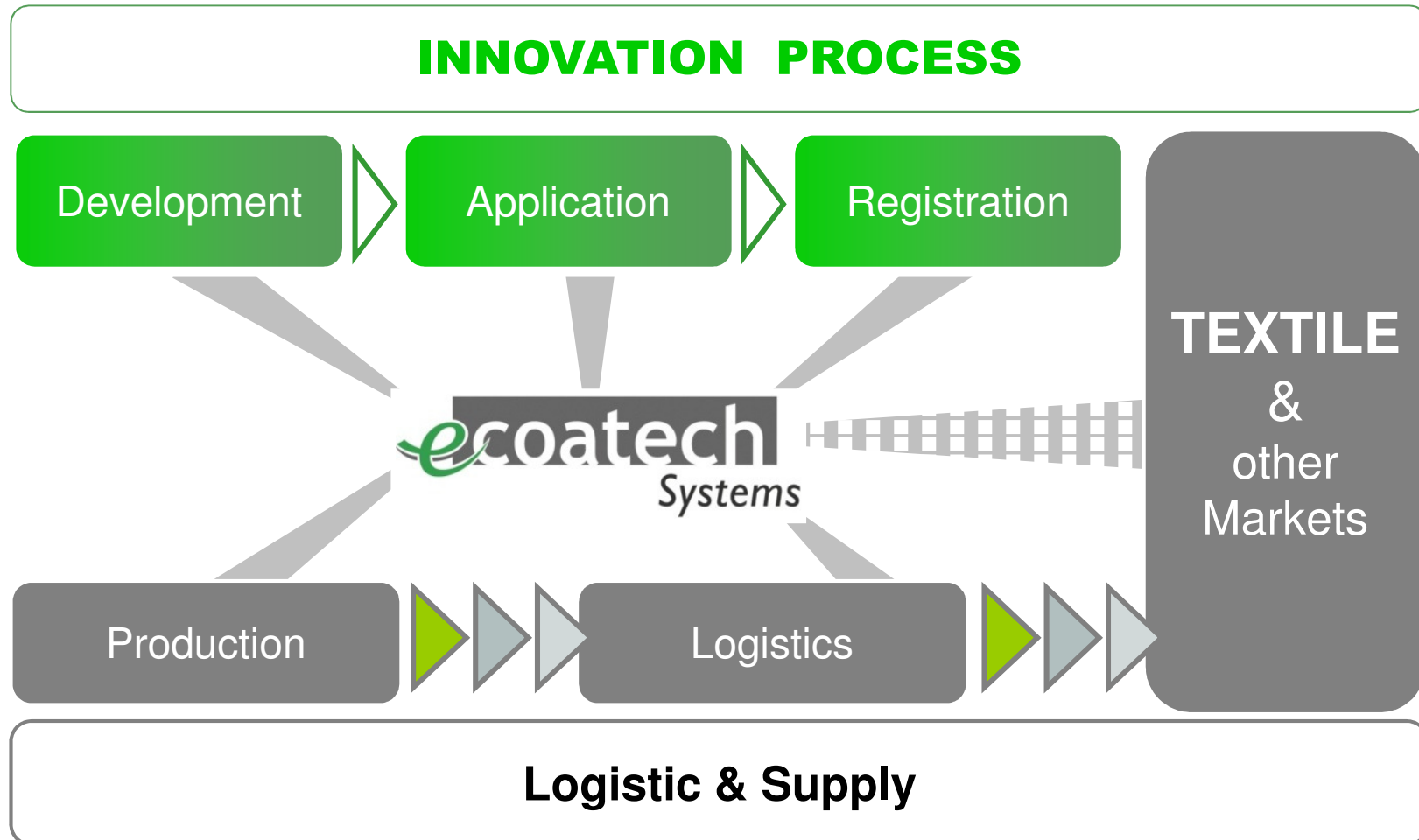


Grafted Effects

- New machinery
- New chemistry
- Dry process
- R&D phase

Recotton® = Re Engineered Cotton

ecoatech Business Model



Summary

- Better easy care properties for linen requested
- Additives can modify elastic properties
- Durable application available for industrial cooperation
- Ecological Products with high USP



Contact



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