

Example of projects at FEX

Upscaling – Test and prove new concepts – Prototypes - Benchmarking

NOVEL PULPS



- 40 kg -> 10 ton
- Non traditional fibres: Long fibres, textile-like, cotton, functional
- Active materials

STOCK PREPARATION



- Refining strategies for strength development
- Fractionation by size or surface and treatment of fractions

ADDITIVE DESIGN



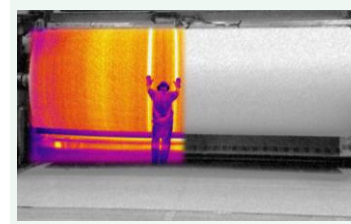
- Nanocellulose
- Other fibre-based strength additives
- Layer-by-layer
- Polyelectrolyte complexes
- New chemicals

PROCESS DEVELOPMENT



- Dewatering
- Strength
- Chemical efficiency
- Headbox config.
- Press studies

PROCESS VARIABILITY



- Controlled process disturbances
- Link process variations to dry property variations

NOVEL SOLUTIONS



- Stratified forming
- Foam forming
- Highly deformable paper
- Wet-end coating