



FORSCHUNG

BERATUNG

MESSTECHNIK

WEITERBILDUNG

Paper Technology Specialists
Services in the paper value chain

Services offered by the PTS Pilot Plant

Preparation of mixed papers and boards

Objectives and methodology

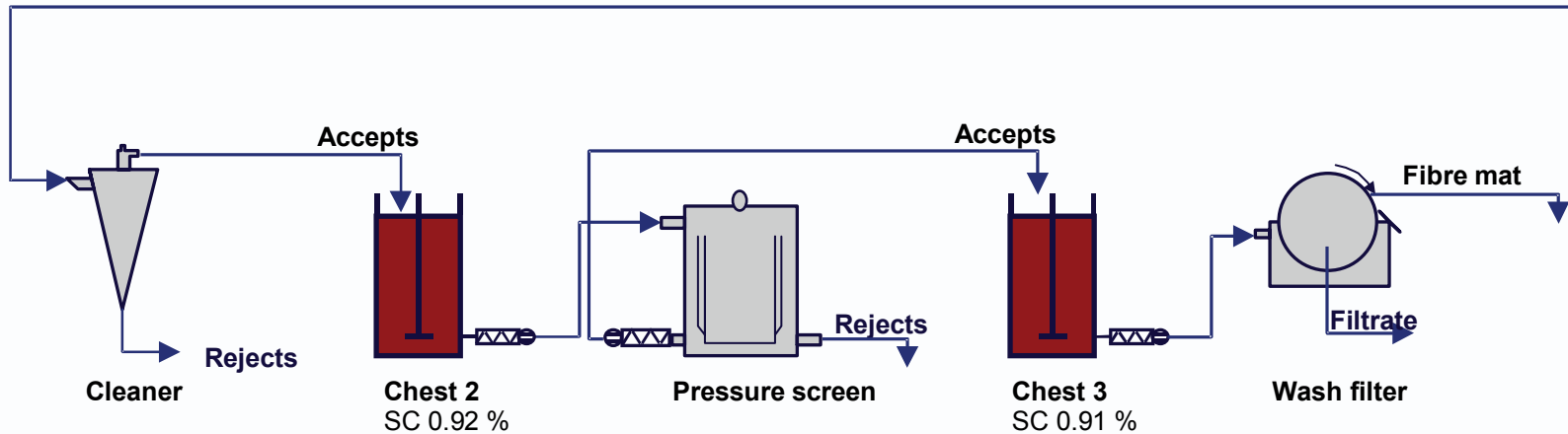
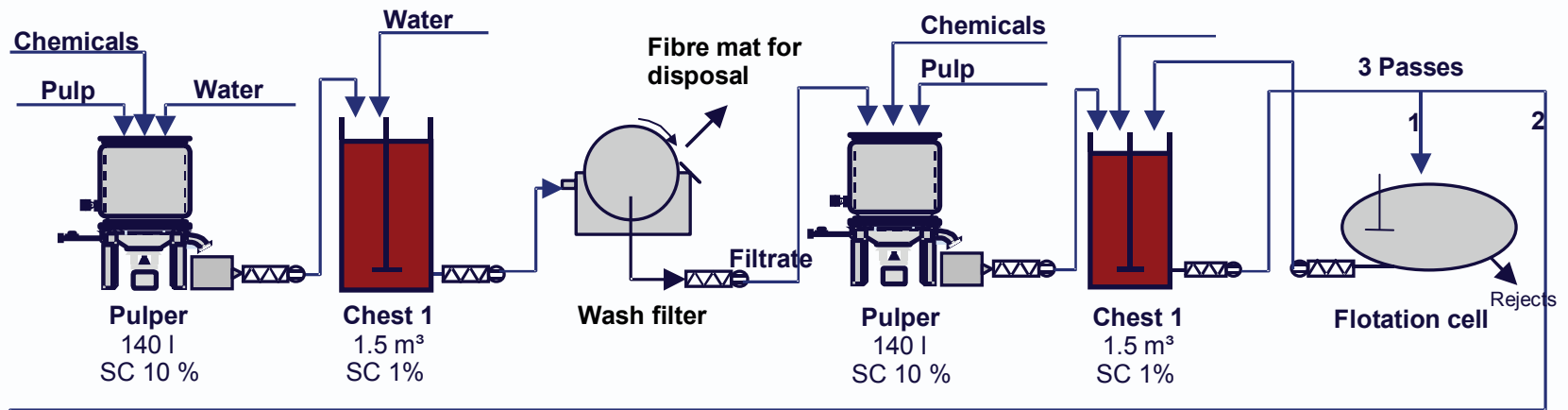
Objectives

- To determine the process-related parameters relevant to designing and dimensioning a plant for the preparation of mixed papers and boards

Methodology

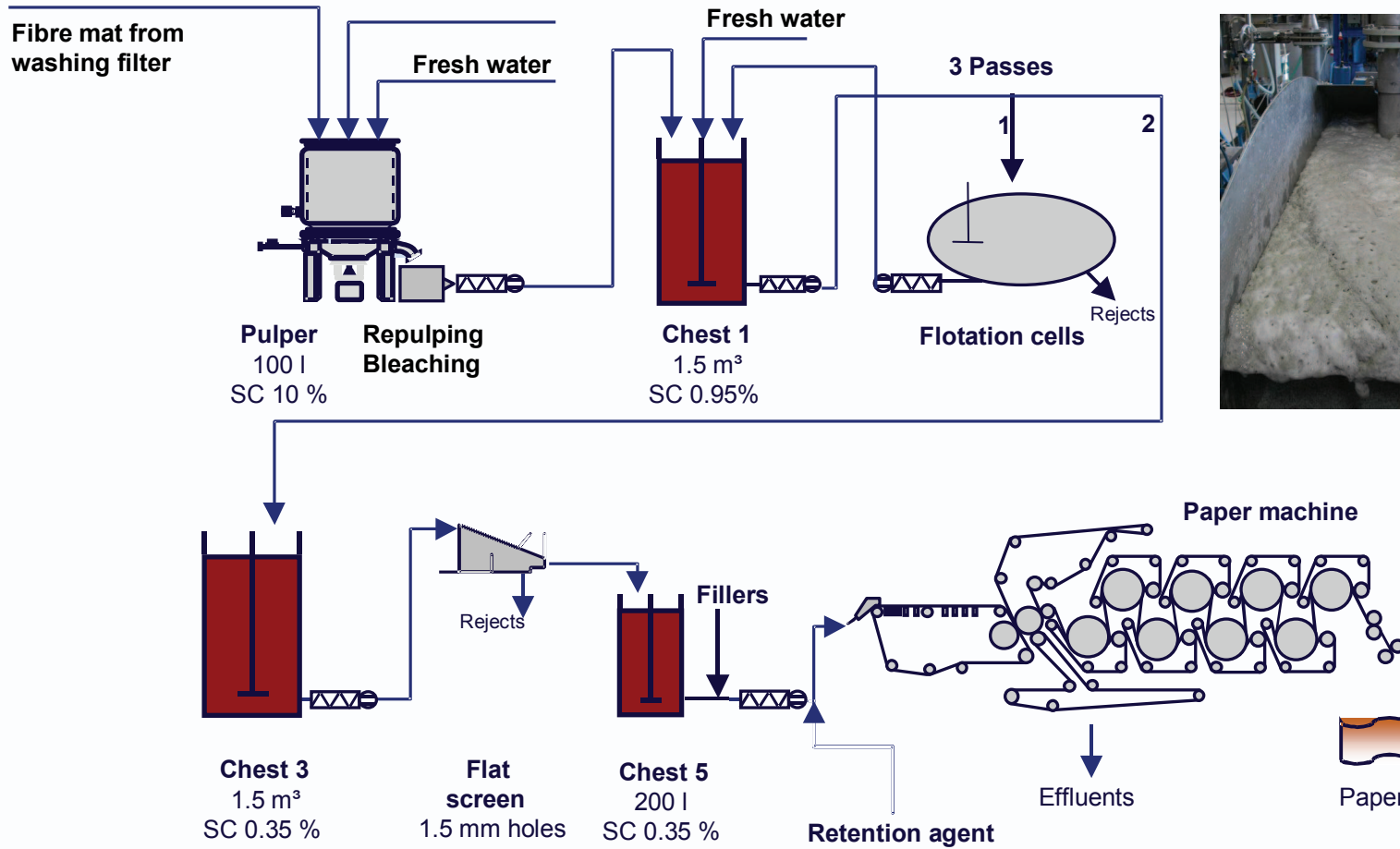
- Simulation of the planned stock preparation department
 - Repulping
 - Screening
 - Flotation
 - Bleaching
- Use of different process chemicals for individual process stages
- Papermaking on the pilot paper machine
- Testing and examination of optical and physical paper properties

Pilot plant



Stock preparation

Pilot plant

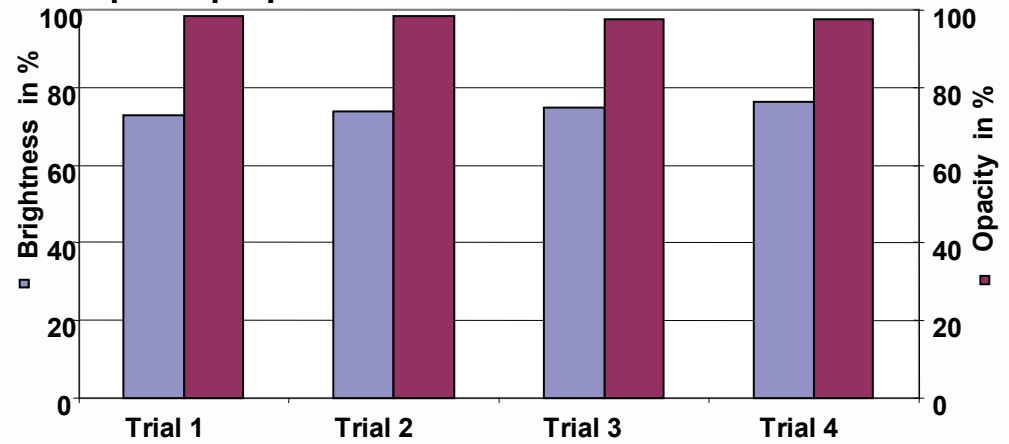


Stock preparation and paper machine

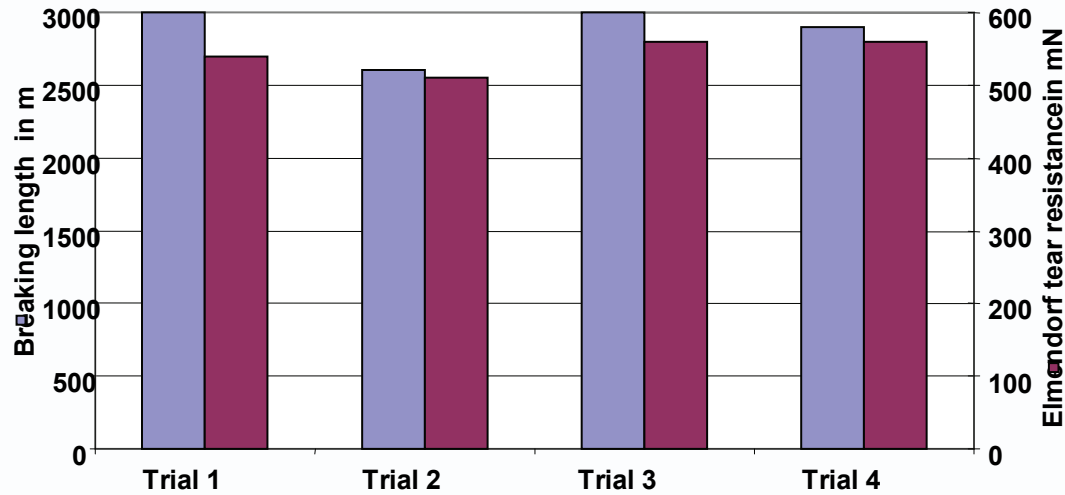
Results



Optical properties



Paper strength



Benefits

- Compilation of findings/results regarding:
 - The process-related behaviour of the relevant recovered paper in the individual process stages
 - Maximum attainable optical properties and physical strength properties of the paper when different raw material qualities are used
- Cost savings by reducing the risks involved in industrial-scale trial stages

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