

# Needs for R&D and education

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“Strength through co-operation”

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# Metso Minerals in nutshell



- Leading global supplier of solutions, equipment and services for rock and minerals processing
- Net sales: EUR 1,735 million (2005)
- Personnel: 8,521 (2005)
- Local presence in over 100 countries through sales and service units, agents and distributors
- 135 Metso Minerals sales units in 45 countries
- Part of Metso Corporation

# Metso Corporation: paper, rock and process automation



**Metso is a global supplier of process industry machinery and systems:**

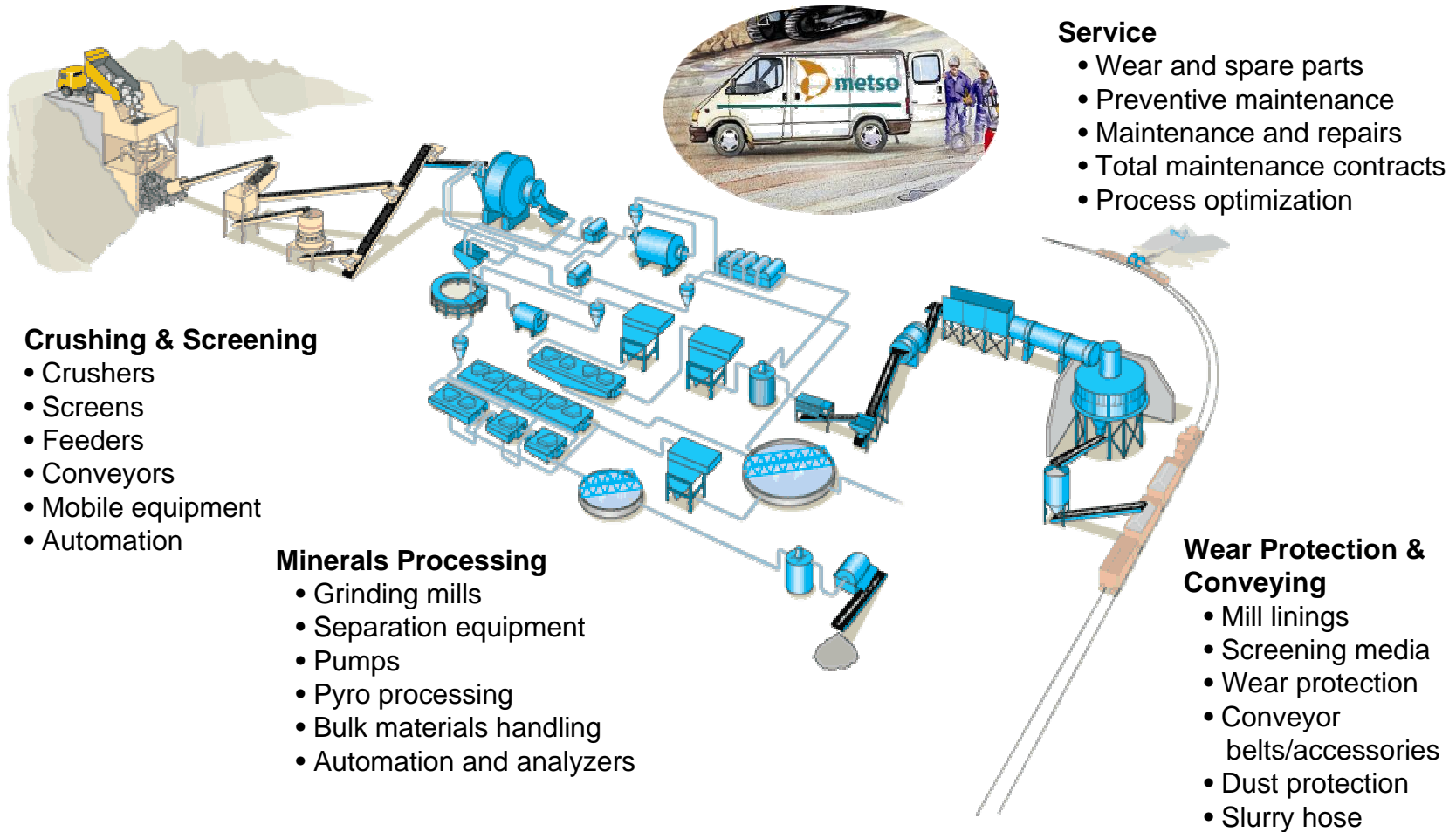
- Rock and minerals processing – Metso Minerals
- Fiber and paper technology – Metso Paper
- Automation and control technology – Metso Automation
- Employees : 22,200 in 2005.
- Net sales : EUR 4,221 million
  
- Metso Corporation is listed on the Helsinki and New York Stock Exchanges.

# Metso Minerals customer industries



- Mining and minerals processing
- Civil engineering and construction
- Aggregates processing
- Recycling

# Solutions to mining and minerals processing



# Challenges for R&D

## -how to create value to customers?



- Better end product quality:
  - higher recovery,
  - better cubicity
- Higher throughput
  - optimised processes, machines and wear parts
  - efficient machines
- Higher availability:
  - fewer scheduled and unscheduled breaks
  - more reliable machines
  - longer lasting wear parts

# Challenges for R&D

## -how to create value to customers?



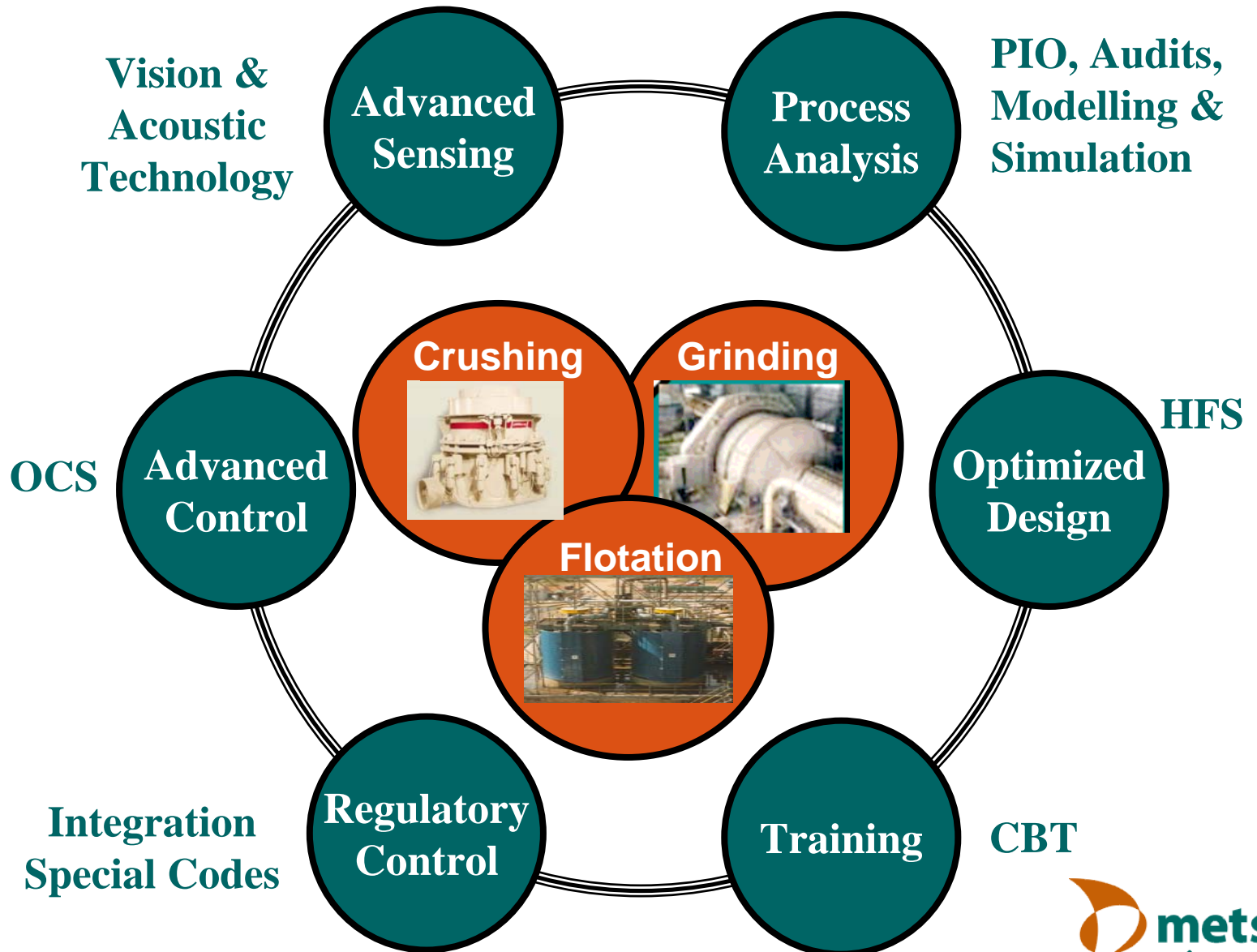
- Lower operating costs:
  - right system selection
  - better energy efficiency
- Higher return for investment (NPV)
  - shorter time-to-market in project completion

# R&D focus areas



- Process knowledge
  - simulation and optimisation tools
- Systems and machinery engineering
- Process automation
- Materials technology
  - steel, rubber, polymers, composites, powder metallurgy
- Life Cycle Services;
  - parts, service, training(CBT)
- Environment / Sustainability

# Linking Innovations



# R&D collaboration

- Research institutes
- Universities
- Customers



# Education needs



- We employ 1200 University and College graduates (Masters & Bachelors), including 25 Doctorate level employees
  - Annual need about 100 persons
- Desired profiles for new employees:
  - Process, mining or mechanical engineering
  - Trade & commerce
  - Process / mine economics understanding
  - Service orientation
  - International networking capabilities
  - R&D partnering

# Metso Minerals - your partner in rock and minerals processing

