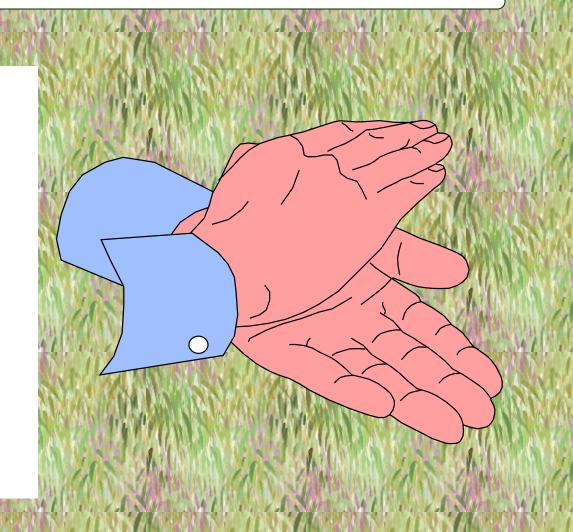


## **SIMPLIFICATION**

• THE SIMPLER

THE BEST



#### EMPOWERMENT OF OPERATORS

• # AVOID ROUTINE TASKS

# WORK FOR RESULTS

• # AWARD SYSTEM

#### EMPOWERMENT OF OPERATORS

# PROCESS CONTROL LINKED

# WIDE INTEGRATION

• # WHOLE MILL CONCEPT

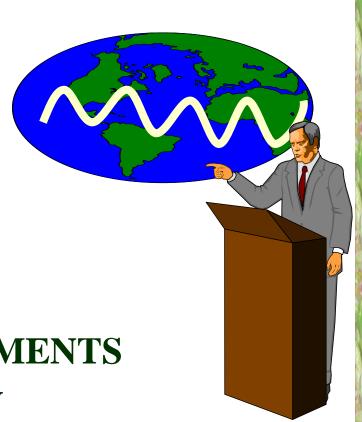
• # AVOIDING DISTURBANCES IN PROCESS

#### EMPOWERMENT OF OPERATORS

- # HIGHLY QUALIFIED PEOPLE
- # JOB ENLARGEMENT
- # MONITORS / ANALYSTS / PURCHASERS OF THE REQUIRED SERVICES
- # PRODUCTION ORIENTED & ENVIRONMENTALLY FRIENDLY

## **MEGATRENDS**

- **✓ FRAGMENTED MARKET**
- **✓ VOLATILE MARKET**
- **✓ GLOBAL MARKETS**
- **✓ COMMODITY PRODUCTS**
- **✓ DECLINING PRICES**
- **✓ LOW PROFITABILITY**
- **✓ HIGH CAPITAL REQUIREMENTS**
- **✓ SUSTAINABLE FORESTRY**



#### **MEGATRENDS**

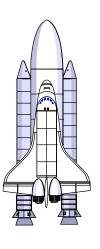
- ✓ SCALE OF PRODUCTION
- **✓ CONSOLIDATION / MERGERS**
- ✓ INFORMATION / INTEGRATION TECHNOLOGY
- **✓ ENVIRONMENTAL RESTRICTIONS**
- **✓ ECO-FRIEND INDUSTRY**
- ✓ SAFETY & OCCUPATIONAL HEALTH
- **✓ CLOSED SYSTEMS**



"FEWER PLANTS / HIGHER CAPACITIES"

#### **DRIVING FORCES**

- COMPETITIVENESS
- COST EFFECTIVENESS (CAPITAL / OPERATING)
- PRODUCTION STABILITY / FLEXIBILITY
- WISE UTILIZATION OF RESOURCES
  - MAN
  - WOOD
  - ENERGY / CHEMICALS
  - MACHINERY
- NEW MARKETS AVAILABILITY

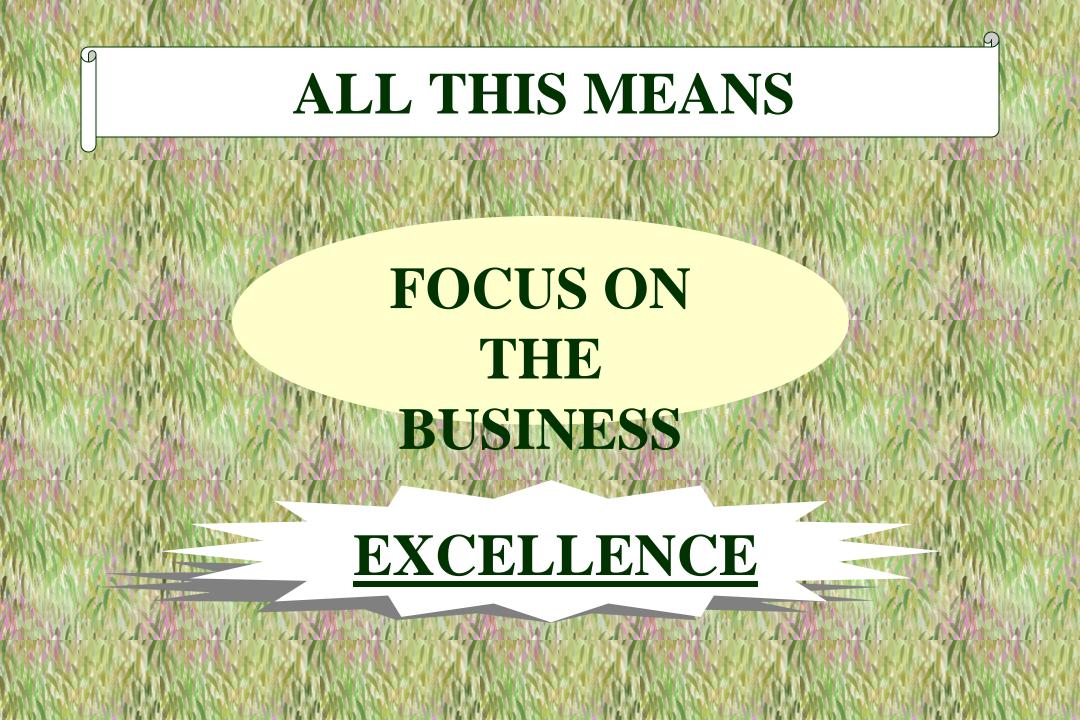


#### **DRIVING FORCES**

- PROVEN TECNOLOGY
- DISTRIBUTION
- QUEST FOR SURVIVAL
- QUALITY STABILITY
- HUMAN RESOURCES (INTELLECTUAL CAPITAL)
- REDUCTION OF ALL WASTES AND BETTER USE OF RAW MATERIALS AND ENERGY
- PRODUCTIVITY
- MAINTENANCE

## MAINTENANCE & BETTER ENVIRONMENT

- **\*\*AVAILABILITY (USE OF AVAILABLE MACHINERY)**
- **\* OPERATING EFFICIENCY**
- **\* HIGHLY EFFICIENT PROCESS**
- **® RIGHT DESIGN**
- **\* OPERATING CONDITIONS**
- **\* EMPOWERMENT OF OPERATOR**
- **\* FOCUS ON PROBLEMS SOLVING**
- **\*FOCUS ON WASTE GENERATION**









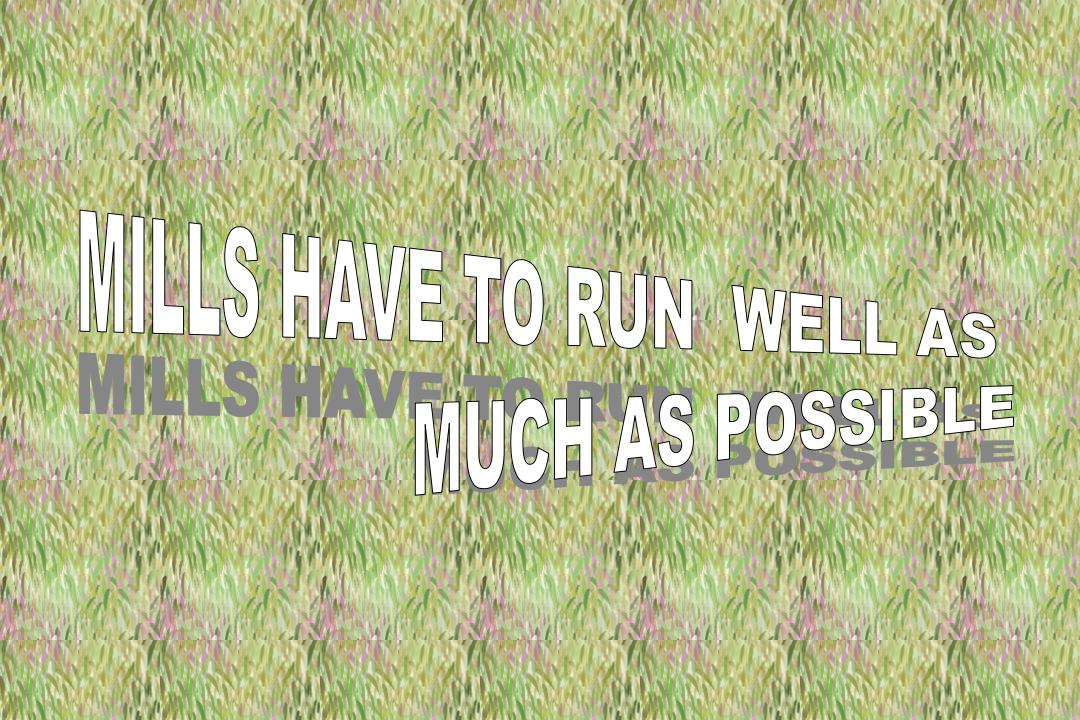




#### MANAGEMENT TODAY

#### KEY PEOPLE TO GUARANTEE

- LOW COST
- HIGH PRODUCTION
- HIGH OPERATING PERFORMANCE
- HIGH QUALITY
- EXCELLENT ENVIRONMENT HEALTH
- **尽** SUCCESS IN THE BUSINESS







	mill A	mill B
DAILY CAPACITY (ton)	2000	2000
EFFICIENCY	90%	80%
DAILY PRODUCTION (ton)	1800	1600
YEAR PRODUCTION (ton)	655 000	565 000
VARIABLE COST / ton	200 US\$	200 US\$
FOB NET PRICE	550 US\$	550 US\$
SALES MARGIN	350	350
DIFF ON TOTAL MARGIN	30 MILLION US\$	

	mill A	mill B
TOTAL FIXED COST (M US\$)	80	80
FIXED COST / ton	122	142

DIFF FAVORING mill A

20 US\$ / ton

#### INDICES OF PERFORMANCE

**ADMINISTRATIVE** 

**TECHNICAL** 

COST

RELATED

**BUSINESS PERFORMANCE** 

# 600 000 ton/year WASHER DRUM PERFORMANCE

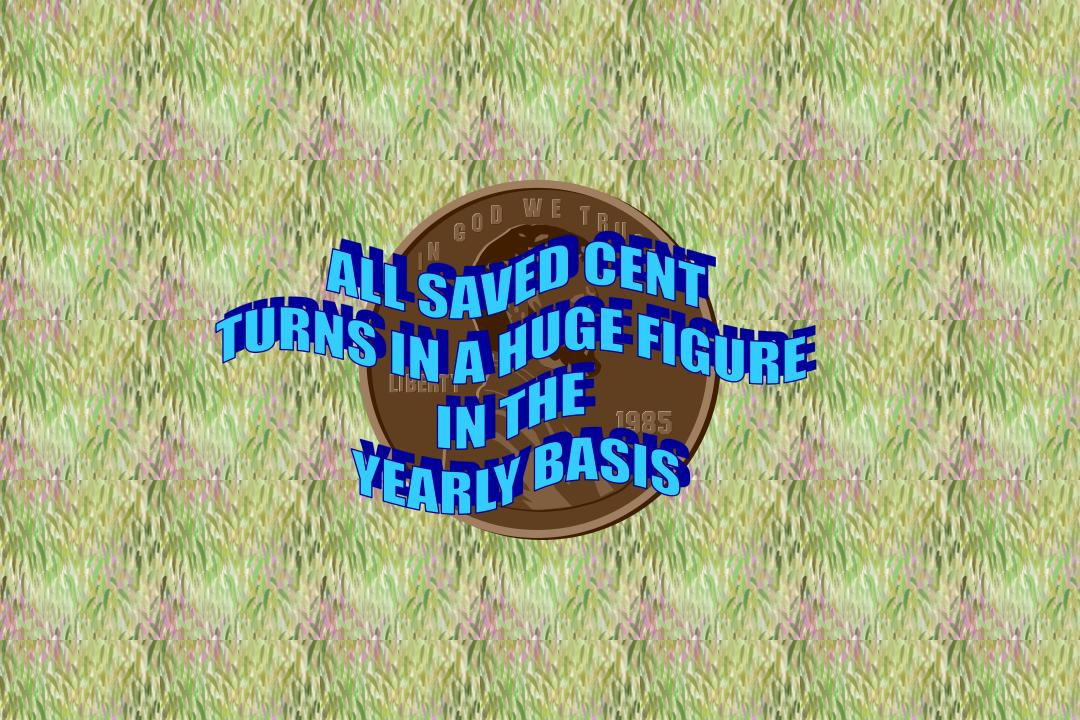
	mill A	mill B
OUTLET CONSISTENCY	14%	11%
COD CONCENTRATION (PPM)	1500	1500
COD LOSSES (kg/ton)	9.2	12.1

**DIFF ACTIVE CHLORINE / YEAR** 900 ton

# WOOD CHIPPERS / SCREENING PERFORMANCE

	mill A	mill B
SAWDUST DISCARDED	0.8%	1.5%
SAWDUST / YEAR	9,600	18,000

DIFF IN SAWDUST 8,400 ton
DIFF IN EQUIVALENT PULP 4,200 ton



# FOCUS ON BUSINESS PERFORMANCE NOT ON CHITTING COSTS HINTH SEEING

CUTTING COSTS UNTIL SEEING WHAT RESULTS

MHAT LASTS

#### MANAGEMENT TEAM

- OPERATION
- ENGINEERING
- MAINTENANCE
- R & D
- SALES / PURCHASING
- ACCOUNTING
- ENVIRONMENT



#### MANAGEMENT TEAM

IS TO ACT

AS A TEAM
AS ENTREPRENEURS
AS PEOPLE MOTIVATOR

MONEY IS NOT A GIFT PROVIDED BY THE TOP MANAGEMENT TO BUY A NEW 4TOY99



# MONEY IS SPENT TO HAVE A RETURN

## BUSINESS SUCCESS DEPEND ON THIS

