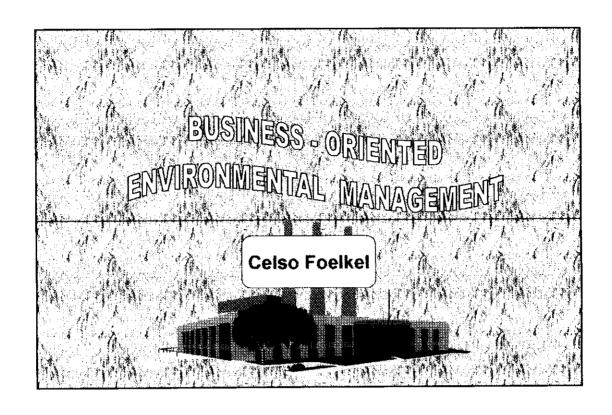
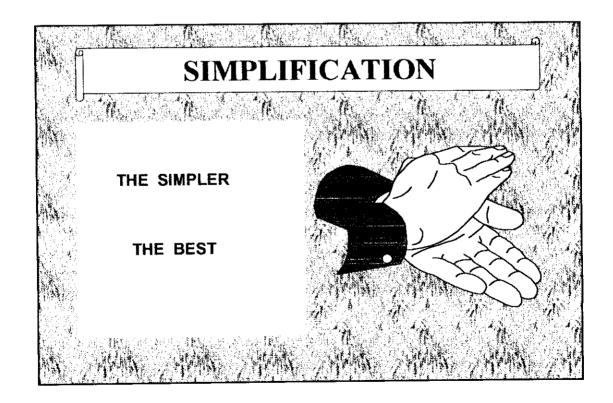


Gestão eco-eficiente orientada para obtenção de resultados econômicos para as empresas





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



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

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

MEGATRENDS

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

"FEWER PLANTS / HIGHER CAPACITIES"

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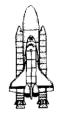
DRIVING FORCES

What is the Court of the Court

COMPETITIVENESS
COST EFFECTIVENESS (CAPITAL /
OPERATING)
PRODUCTION STABILITY / FLEXIBILITY
WISE UTILIZATION OF RESOURCES

- MAN
- WOOD
- ENERGY / CHEMICALS
- MACHINERY

NEW MARKETS AVAILABILITY



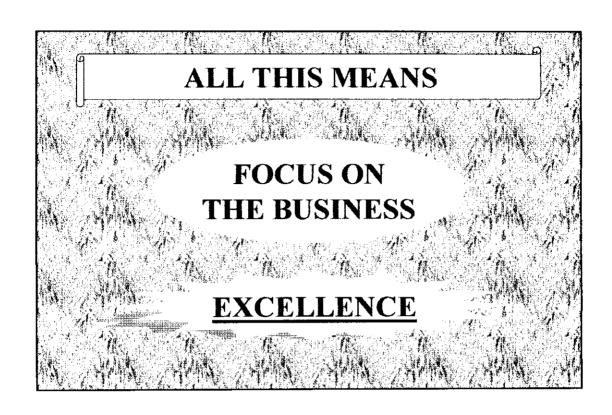
DRIVING FORCES

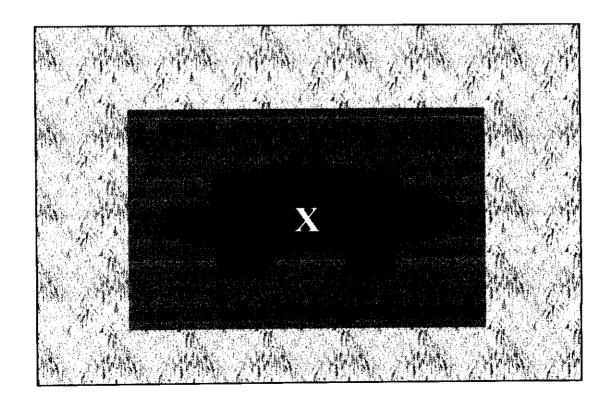
PROVEN TECNOLOGY
DISTRIBUTION
QUEST FOR SURVIVAL
QUALITY STABILITY
HUMAN RESOURCES (INTELLECTUAL
CAPITAL)
REDUCTION OF ALL WASTES AND BETTER
USE OF RAW MATERIALS AND ENERGY
PRODUCTIVITY
MAINTENANCE

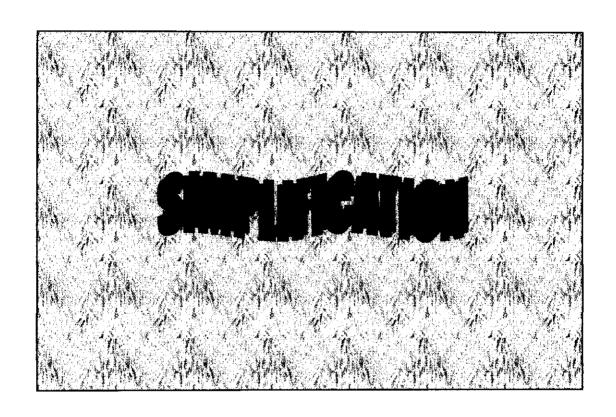
MAINTENANCE & BETTER ENVIRONMENT

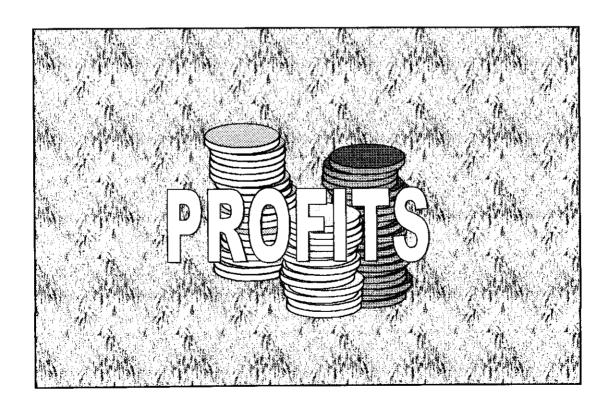
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AVAILABILITY (USE OF AVAILABLE MACHINERY)
OPERATING EFFICIENCY
HIGHLY EFFICIENT PROCESS
RIGHT DESIGN
OPERATING CONDITIONS
EMPOWERMENT OF OPERATOR
FOCUS ON PROBLEMS SOLVING
FOCUS ON WASTE GENERATION

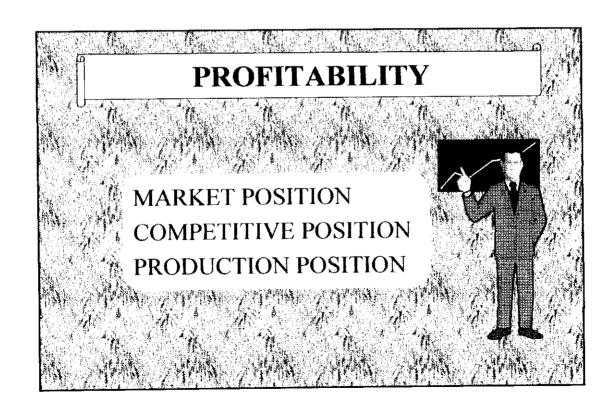








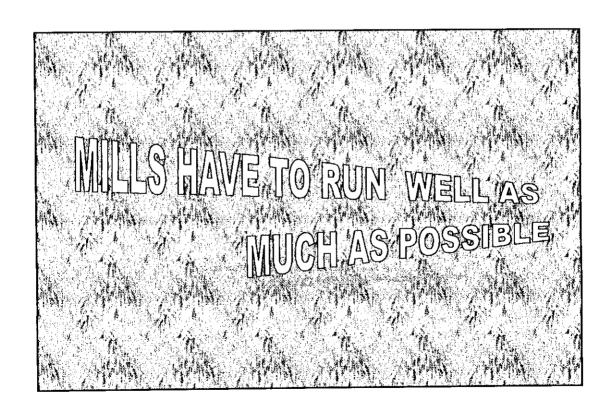


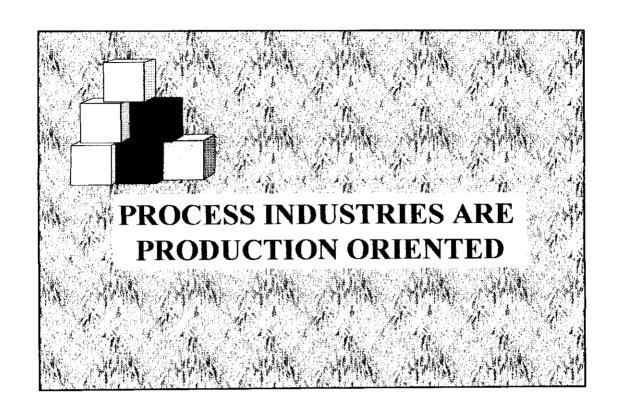


MANAGEMENT TODAY

KEY PEOPLE TO GUARANTEE

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

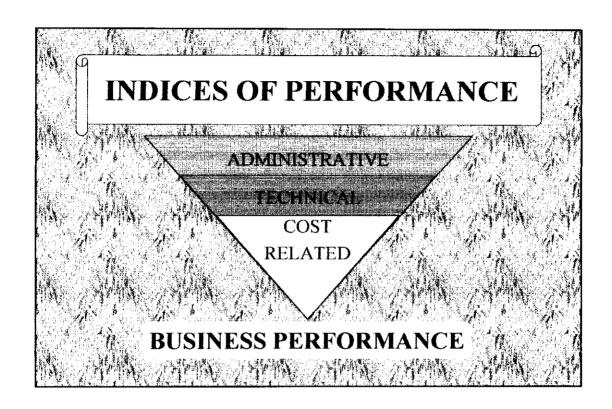






| | mill A | mill B | |
|------------------------|----------|-----------|--|
| DAILY CAPACITY (ton) | 2000 | 2000 💃 | |
| EFFICIENCY | 90% | 80% | |
| DAILY PRODUCTION (ton) | 1800 | 1600 | |
| YEAR PRODUCTION (ton) | 655 000 | 565 000 🥻 | |
| VARIABLE COST / ton | 200 US\$ | 200 US\$ | |
| FOB NET PRICE | 550 US\$ | 550 US\$ | |
| SALES MARGIN | 350 | 350 | |

| | mill A | mill B |
|---------------------------|-----------|--------|
| TOTAL FIXED COST (M US\$) | 80 | 80 |
| FIXED COST / ton | 122 | 142 |
| DIFF FAVORING mill A | 20 US\$ / | ton |



CASE STUDY #2 600 000 ton/year WASHER DRUM PERFORMANCE mill A mill B **OUTLET CONSISTENCY** 11% 14% COD CONCENTRATION (PPM) 1500 1500 COD LOSSES (kg/ton) 9.2 12.1 900 ton DIFF ACTIVE CHLORINE / YEAR

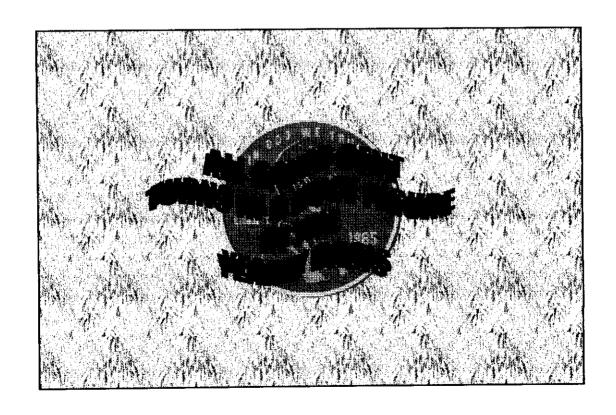
CASE STUDY #3

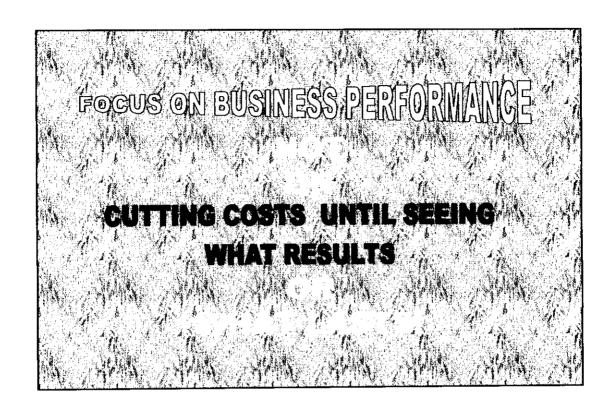
WOOD CHIPPERS / SCREENING PERFORMANCE

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







MANAGEMENT TEAM

IS TO ACT

MONEY IS NOT A GIFT PROYIDED BY THE TOP MANAGEMENT TO BUY A NEW TOY'





MONEY IS SPENT TO HAVE A RETURN

BUSINESS SUCCESS DEPEND ON THE

GOOD HUCK





Custo do REFUGO da fabricação do papel











Cústo: do Refugo na Produção Vendável

170 US\$ x 50 toneladas refugos/dia

8.500 US \$ / 250 t produtos vendáveis/dia

34 US \$ / tonelada produto vendável