THE BUSINESS OF BIOREACTORS

AN INDUSTRY VIEW
THE STRATEGIC LANDSCAPE
THE WASTE STREAM

• >80% ORGANIC
• >60% BIOGENIC
• >50% OF MOST BIOGENICS RECYCLED (newsprint, corrugated, yard waste)
RECYCLING

- THRIVING
- LOW-HANGING FRUIT
- SPECIAL ITEMS
- TOXICS CONTROL
- ECONOMIC PUSHBACK

From everyday collection to environmental protection, look to the NEW Waste Management.
POLICY CHOICES: BEYOND RECYCLING

- THE EURO APPROACH
- WTE
- COMPOSTING
THE LANDFILL

- ~ 5,000 MMt ORGANIC WASTE IN PLACE
- >150 MMt/YR FOR THE FORESEEABLE FUTURE
- WITH 100% FOOD WASTE DIVERSION, REDUCE BY 25 MMt/YR
THE LANDFILL

• **EVEN WITH AN IDEAL ORGANICS DIVERSION PROGRAM AT SOME FUTURE POINT WE MAY STILL BE LANDFILLING >50MMt ORGANICS/YR**
QUO VADIS?

• HOW DO WE BEST OPERATE THE LANDFILL TODAY AND FOR THE FORESEEABLE FUTURE
OUR MUTUAL EDUCATION

THE LESSONS OF REGULATION:
• CONTAINMENT
• LCS AND LEACHATE QUALITY
• LFGCS
• PC CARE METHODOLOGY
A BETTER WAY?

STABILIZE – TREAT!– THE WASTE MASS THROUGH ACCELERATED DEGRADATION
BENEFITS

- LEACHATE / TOXICS TREATMENT
- GAS/ENERGY RECOVERY
- LAND USE EFFICIENCY AND REVITALIZATION
- NON-HW LIQUIDS AND BIOSOLIDS MANAGEMENT
- THE RECYCLABLE LF
WIN-WIN!

- POST CLOSURE CARE PREDICTABILITY
- AIR SPACE EFFICIENCY
- LEACHATE CONTROL
- DEFERRED CONSTRUCTION COSTS
- ENERGY SALES
- LIQUID WASTE STREAM REVENUES

From everyday collection to environmental protection, look to the NEW Waste Management.
MYTH AND REALITY!

- BIOREACTORS V. COMPOSTING & RECYCLING
- LEACHATE/EMISSIONS TOXICITY
- ENGINEERING
- STATE COMPETENCE
- THE 30-YEAR ISSUE
- RESPONSIBILITY
PROGRESS AND PURPOSE

- HONEST DEBATE
- OPPORTUNITY
- FOCUS
- DECISION RULES
- ACTION!