

## JOURNEY INTO UNCHARTED TERRITORIES

How are owners, contractors and suppliers adapting to successfully execute projects and reposition their businesses in the ever evolving project environment?

September 7-10, 2011

JW Marriott Desert Ridge, Phoenix, AZ



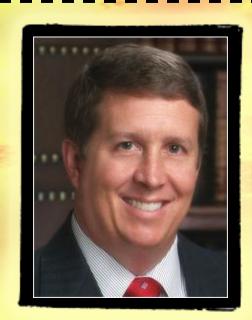
REPOSITIONING THE PROJECTS BUSINESS IN A WORLD WITH CHANGING BOUNDARIES



The Supply Game: Successfully Meeting Project Supply Needs in a World with Changing Boundaries

## MIKE McATEE

**BASF Corporation** 



Program Co-Chair

## UNCHARTED TERRITORIES

**PLENARY SESSION 2** 





#### **Enabling a Predictive Supply Chain**

## **CRAIG REED**

SVP – Supply Chain Management, Eaton Corporation



## UNCHARTED TERRITORIES

**PLENARY SESSION 2** 



## Agenda

- Eaton
- Business Challenges
- Business/Supply Chain Continuity
- Sustainability



# Eaton - A Leader Across the Power Management Spectrum

Mission: To provide safe, reliable, efficient and sustainable power management solutions for our global customers.



Cities & Buildings

Industrial & Machinery

Information Technology

**Transportation** 

Infrastructure

Energy & Utilities

- •Founded in 1911 by J.O. Eaton
- •Regional Headquarters in Shanghai, China; Morges,

Switzerland; Sao Paulo, Brazil

- Innovation Centers in the USA, China and India
- Customers in more than 150 countries
- •2010 sales of \$13.7 billion, 55% of sales outside the U.S.
- Approx. 70,000 employees





## Electrical Sector - A Leader in Electric Power Solutions

## Power Distribution

#### **Power Quality**

## Control and Automation

## Services and Aftermarket









- Circuit breakers
- Switchgear
- Panelboards and switchboards
- Transformers
- Assemblies

- Uninterruptible power supplies
  - Single phase
  - 3 phase
- Power distribution units
- Meters and software

- Drives
- Sensors
- Human machine interface
- Control components

- Engineering and consulting services
- Turnkey design, build and management
- Maintenance and aftermarket
- Power audits and studies



## Industrial Sector - A Leader in Mechanical & Fluid Power

#### Aerospace



- Hydraulic Systems
- Conveyance Systems
- Electrical, Sensing and Controls
- Fuel Systems

#### **Hydraulics**



- Controls
- Fluid Conveyance
- Power
- Filtration Systems

#### Oil and Gas



- Integrated Hydraulic Systems
- Integrated Power Systems
- Filtration Systems
- SubSea Umbilicals
- Control Systems

#### Vehicle



- Valvetrain
- Supercharger
- Torque Control
- Fluid Connectors
- Fuel and Powertrain
- Clutch
- Hybrid



## Business Challenges

### Increased Customer Expectations

- Delivery, Quality, Service & Cost
- Predictability, Innovation, Speed & Sustainability

### Regulations

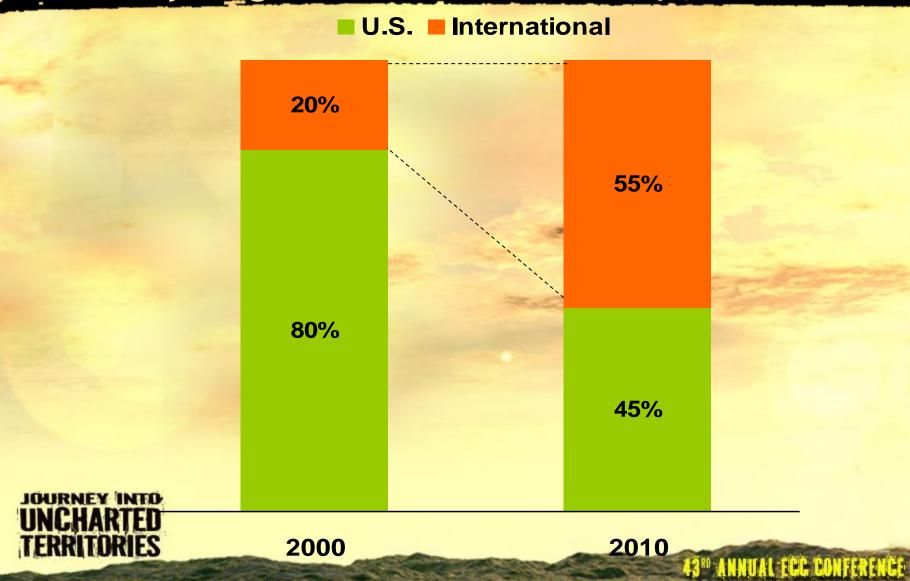
Trade & Environmental – by Country

#### Globalization

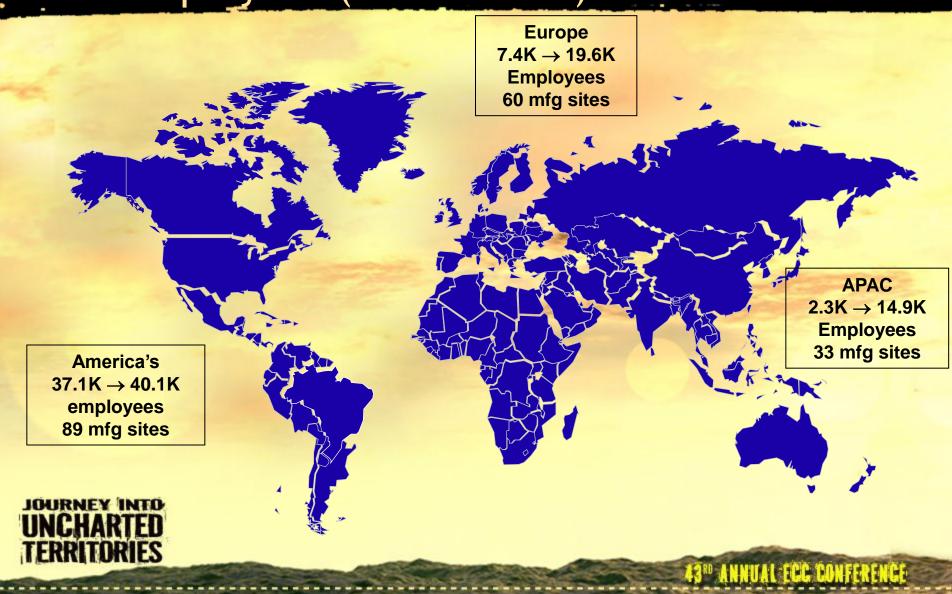
- Increased Volatility
- Length of Supply Chains
- Geopolitical Environment



# Manufacturing Regionalization - Sales by Region



# Manufacturing Regionalization - # of Employees (2002 - 2011)



## Enterprise Risk Management

**Regulatory Risk Business Risk** Regionalization Sustainability Salika Sa Continued



## Enterprise Risk Management Elements

- Starts with CEO & Board
- Enterprise Risk Management Team
  - Regionalization
  - Business Continuity
  - Supply Chain Continuity
  - Sustainability
- Changing Roles & Responsibilities
- Global Learning, Sharing, and Alignment



## **Business Continuity**



Warwick, Rhode Island

#### Event Summary

- March 31, 2010
- Record 500-year flood hits Rhode Island yielding unprecedented disaster
- Warwick Plant under 4 feet of water and no power
- \$38M property damage



## **Business Continuity**

### Protection of assets via a systematic process

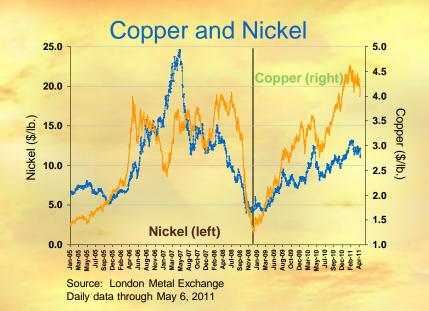
#### RISK

- Customer Impact Delivery,
   Quality & Cost Predictability
- Manufacturing
  - Employee safety
  - Equipment condition
  - Supply chain continuity
  - Natural disaster
    - Floods, hurricanes, etc.

- Business Continuity Teams
- Mfg. Site Risk Assessments
  - Customer recovery req.
  - Equipment, suppliers & people resource backup
  - IT recovery
- Plant Recovery Strategy/Plan



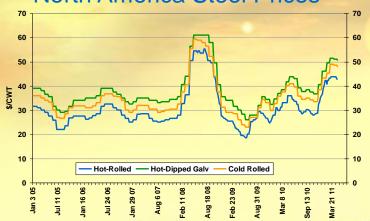
## Global Commodity Pricing





Daily data through May 6, 2011

#### North America Steel Prices



Source: Steel Business Briefing Weekly data through May 2, 2011



## Supply Chain Continuity

#### Supply Chain process to ensure predictable material flow

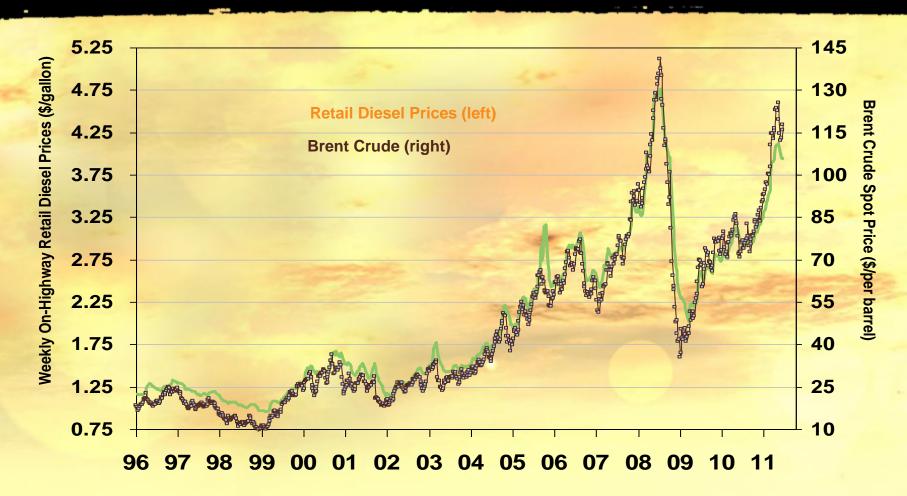
#### RISK

- Consistent Performance
  - Delivery
  - Quality
- Commodity
  - Raw material
  - Qualification lead times
- Financial
  - Solvency/Cash flow
- Region
  - Lack of standards
  - Political/Economic

- ProLaunch
- Sourcing Strategy
  - Dual source
  - Global sourcing
  - Localization
- Financial Health Monitoring
- Commodity and Currency Hedging
- Assessments
  - Financial, Quality,Sustainability
  - Contingency planning



### Global Oil and Diesel Fuel Prices





### Logistics

#### Management of transportation & distribution of materials

#### RISK

- Long, Complex Supply Chains with More Hand-Offs and Hubs
  - Variable product delivery
  - Congestion & scheduling
  - Cargo security & theft
- Government Legislation
  - Environmental & security

- Manufacturing
  - Regionalization
  - Flexible Manufacturing
  - EMEA, APAC, America's
- · SCM
  - Increased SIOP velocity
  - Consignment inventory
  - Strategic use of 3PL
  - Increased visibility to customer
  - CTPAT certified



## Trade Management

Compliance with export laws i.e., documentation, duties, taxes & technology controls

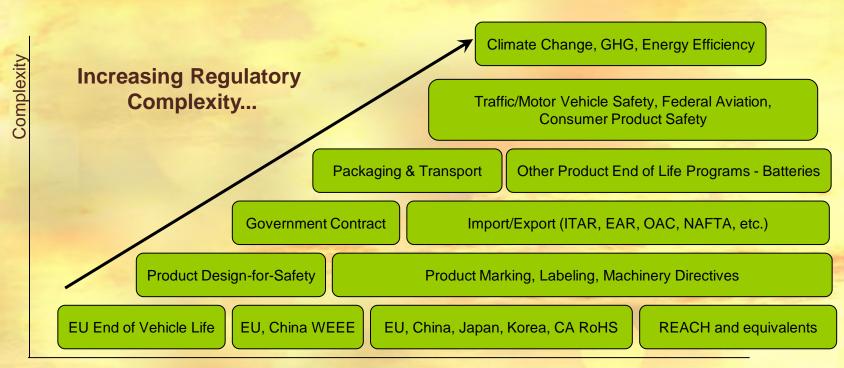
#### RISK

- Rapidly Changing Regulatory Landscape
  - More country export laws
  - Unnecessary Duties/Taxes
  - Fines/Penalties
  - Clearance Delays
  - Seizure of Goods
  - Loss of Import/Export Privileges
  - Audits/Investigations/Litigation

- Focus Organizational Excellence
  - Regionalization
  - Functional experts
  - Strategic use of 3<sup>rd</sup> parties
- Standards
  - Enterprise-wide policies and procedures
  - Routine assessments
- Technology
  - ERP controls product/country



## Sustainability



The task of getting and staying compliant is increasingly complex

**Number of Regulations is Exploding** 



## Sustainability

#### Meeting of today's world needs in ways that protect tomorrow

#### RISK

- Customer Requirements
- Regulatory Requirements
- Social Requirements

- Internal
  - Global Code of Ethics
  - Global site MESH assessments
  - Global Energy/GHG, waste, water reduction goals
  - Metals, packaging, & chemical recycling programs
- External
  - Supplier Code of Conduct
  - Assessments financial, quality, environmental
  - Carbon Disclosure Plan



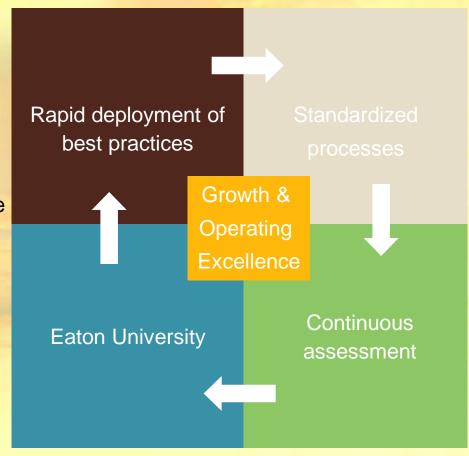
# The Eaton Business System (EBS) is How We Work/Learn at Eaton

The Eaton Business System (EBS) is the embodiment of our Integrated Operating Company philosophy.

- It is based on our belief in standard processes and a teachable point of view
- It ensures that we transfer best practices and key learning across the organization
- It encourages continuous improvement

#### EBS enables us to:

- Respond quickly to customer needs
- Deliver more cost-effective solutions
- Keep customers and businesses on the leading edge of change





## Enterprise Risk Management Elements

**Regulatory Risk Business Risk** Regionalization Sustainability Continuity





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