# Globalization of R&D

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#### **Background of International Trade**

Business Scenarios
 Focus: Reasons for Trade
 External Forces
 Resultant Actions
 Research & Development
 Current State

# Offsets / Countertrades

 Focus: Sell product
 Change in nature of trade over time

- Commodities
- Training
- Manufacturing

Outcomes dependent on trade

# Offsets / Countertrades

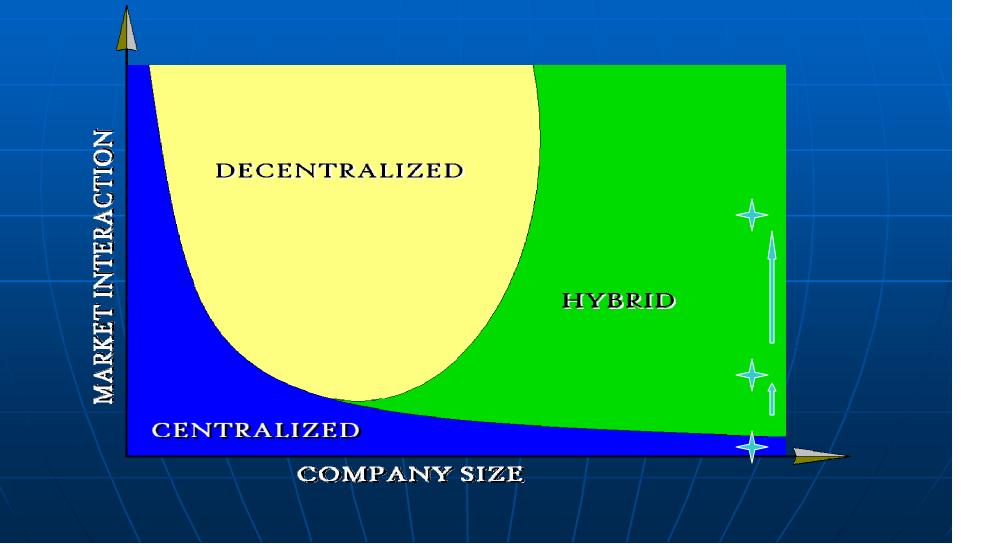
Larger companies
More international purchases
Majority of goods brought into US
Largely positive

Increased sales
Increased utilization

# Offsets / Countertrades

25% of world trade
Company-specific policies/practices
Company advantage
Mutual advantage

# Changes to R&D Structure



#### Evolution of R&D

Trends within the company
 Increase in market interaction
 Movement from centralized R&D structure to hybrid
 Increase in "applied" R&D

The trend was away from doing own basic research

## Collaborations

#### Sources of basic R&D needed

- Universities
- Suppliers
- External laboratories
- Government laboratories / agencies

The need for high quality basic research exists

#### **Technology Planning & Acquisition**

Strategic universities
 Strategic suppliers
 Technology links
 Off shore resources

We are moving from a supplier relationship to a partner relationship

## **Globalization of R&D**

 Excellent resources are available
 Diversity of ideas / research available
 Value greater than just being a supplier

We seek the highest quality R&D

## Globalization

- In a global world, if you're not "there" you won't survive
- Principal benefits of global R&D
  - Proximity to the market
  - Exposure to a diversity of people and ideas
- Global corporations must value non-U.S. business experience as much as U.S. experience
- Country teams
  - Empowered to devise their own strategies
  - Important for creating responsiveness to local needs/opportunities