

# HP in the Manufacturing & Distribution Industries

"We Share What We Have Learned"

Uli van der Meer VP & GM Manufacturing & Distribution Industries March 23<sup>rd</sup> 2006





"The magic is applying technology to a business problem and when the two get connected, something great occurs."

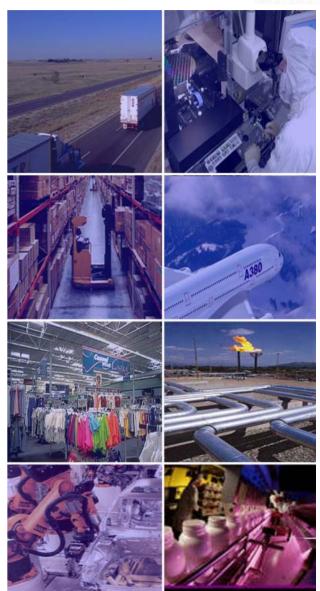
Mark Hurd
Chairman & CEO
Hewlett-Packard





## **Topics**

- Innovation YES, but ...
- Business & IT Alignment in HP Enabling customer-centric agility
- Focus on Manufacturing & Distribution Customers – Taking best practices to market
- Execution that yields results –
   We share what we have learned







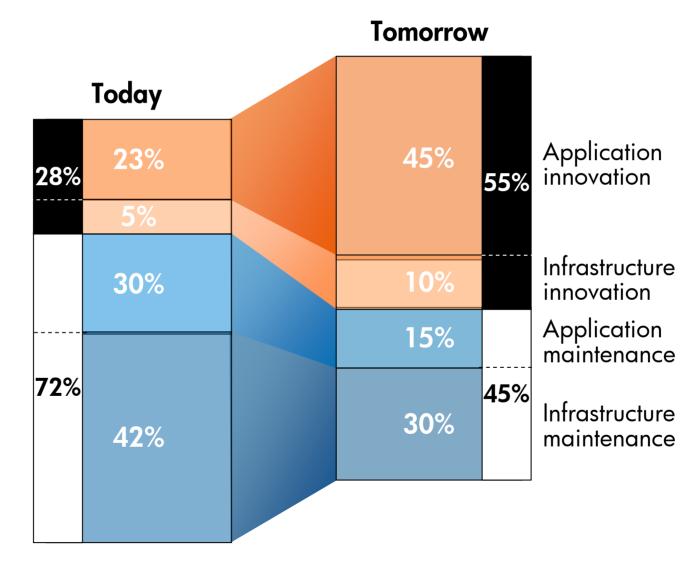
Using IT to enable business performance and innovation is now the No. 2 technical concern facing CEOs, behind security, according to Stephen Minton, IT strategy and budget analyst at research company IDC, in Framingham, Mass.

"Business managers have caught on to the concept that IT has a more strategic role to play than just supporting," Minton said. "Usually, CEOs were concerned with getting the cost out of IT or the complexity. It is a welcome turnaround that they are telling us they are driving strategic spending."

eWeek; March 12, 2006;

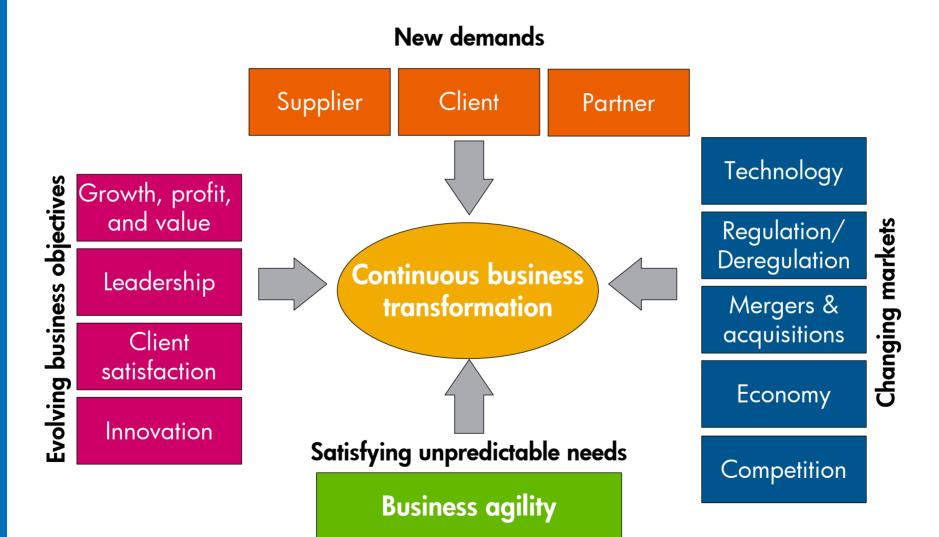
## Innovation – YES, but ... Freeing IT investment for innovation







### Pressures on the business...





## (Y)Our IT challenges are relentless

## Increased volume of change

### **Business challenges**

- Improve business performance, quality, and ROI while reducing costs
- Reduce risk associated with change
- Drive new business models and direction
- Shorten time-to-market
- Enable mergers, acquisitions, and divestitures

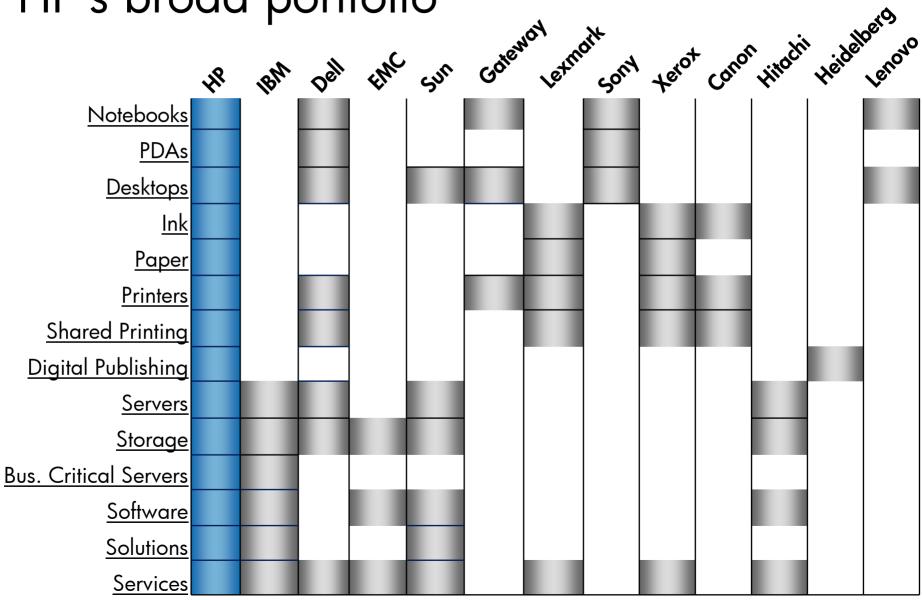
### Ability to adapt quickly

#### IT imperatives

- Link business and IT
- Reduce costs, help achieve stability and flexibility
- Reduce complexity
- Improve use of assets today and tomorrow
- Extend value and reach of the enterprise

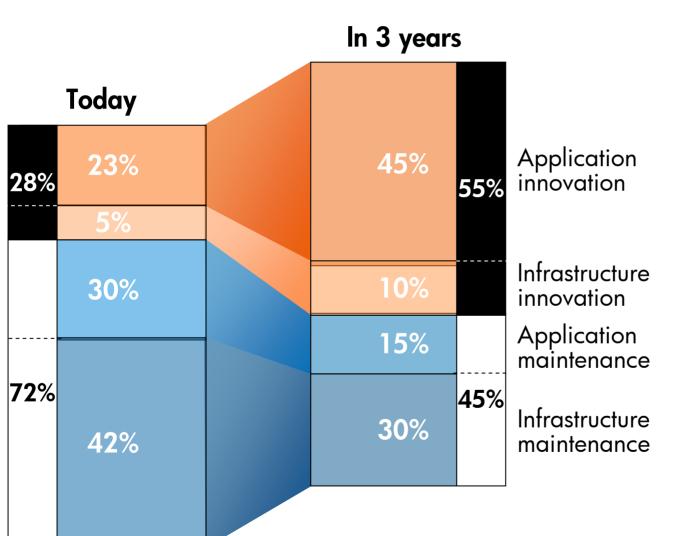


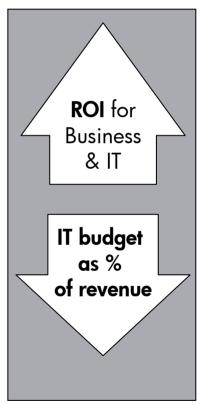
HP's broad portfolio





## Freeing IT investment for innovation





Source: HP-IT

## Simplifying IT



### Today

Servers: 21,700

• Storage: **4,000 TB** 

Datamarts: 762

Data centers: 85+ in 29 countries

HP IT sites: 100+, in 53 countries

Applications: 3,500

Active projects: 1,240

### Target

Portfolio mgmt: ~500 active projects

IT demography: ~25 HP IT core sites

IT effectiveness:

80% development, 20% support

Global data centers: 6

Enterprise data warehouse: 1

Cost structure: best-in-class levels

### HP's next generation data center

- Optimizing IT spend and streamlining business processes
- Leveraging our portfolio and services to maximize effectiveness
- Implementing an enterprise data warehouse to capitalize on customer data



## HP Global Operations today

- 137,000 printers shipped daily
- 82,000 PCs shipped daily
- 2M Industry Standard Servers shipped annually
- 110,000 retail outlets
- 20M calls/year at Sales contact centers
- 370M customer orders annually
- An eOrder placed every 9 seconds
- 77.7M unique visits/month to hp.com







## Global Operations Supply Chain Goals



### **Objectives**

Serve customers globally

Continuously deliver technology innovation

Across breadth of HP products & services

### Strategies

Leverage Portfolio
Of Supply
Chain capabilities

Drive efficiency and effectiveness

### **Differentiators**

Ability to serve customers how they want

Partner for success

Innovate Supply Chain best practices & processes





#### Procurement

Manages process of optimizing overall product material costs, assurance of supply & quality compliance

### Manufacturing

Leverages extended enterprise partners and HP internal resources to deliver high value products

### Logistics

Fulfills customer delivery expectations; transit time, availability, visibility & predictability

### **Planning**

Manages process of ensuring product availability aligns with customer demand

### Order Fulfillment

Co-ordinates process of fulfilling orders in readiness for delivery to customer

#### **HPIT**

Provides enabling infrastructure; connectivity, data integrity, security & collaboration, decision support

## Global Operations / Supply Chain as a competitive advantage



Relentless focus on day-to-day execution

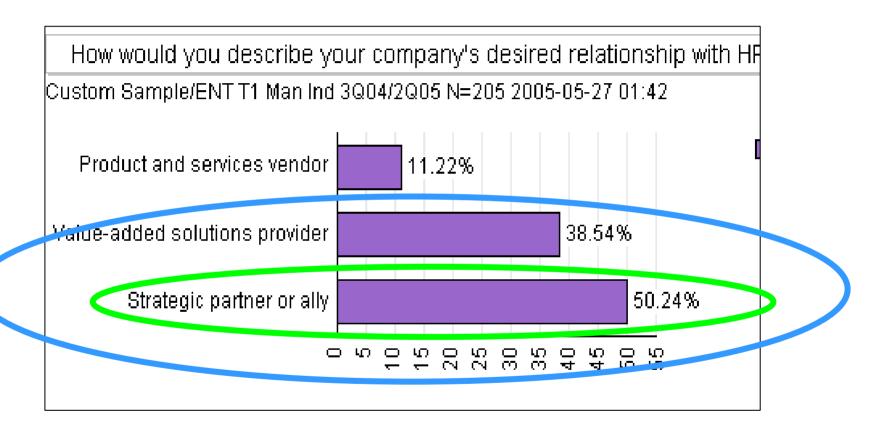
\$1B saved per year

The engine behind the portfolio

## MDI Customer Expectations



### Desired Relationship



50% of respondents want HP to be a strategic partner or ally with a further 39% looking for value added solutions.

## Organized around our customers: HP manufacturing & distribution industries



**Automotive** 

CPG - Logistics - Retail

Energy - Oil & Gas - Utilities

**Electronics** 

**Pharmaceutical** 

Other Discrete and Process Manufacturing

## HP Manufacturing & Distribution Industries Industry and Solution Expertise



### **Durables**

Consumables

**Distribution** 

Automotive, Electronics, Aerospace

Consumer Packaged Goods, Energy, Pharmaceutical Retail, Transportation and Logistics

**Warranty Management** 

Product Tracking and Authentication

**Product Tracking** 

**Product Lifecycle Management** 

**Supply Chain Visibility** 

**Procurement Risk Management and Business Process Outsourcing** 

A Wide Variety of HP Solutions and Services for ERP environments

**RFID** 

HP's Manufacturing and Distribution Industries Reference Architecture (MIRA)

← HP's Breadth of Infrastructure Products and Services →

## Partnerships and alliances Leveraging the best of the industry



Technology Partners



















Software Partners







System
Integration
Partners



Innovation delivered.



SIEBEL.



Deloitte Consulting

Channel Partners

















### HP Best Practice Sources and Goals



HP customers

HP internal organizations



Value delivery to customers

Differentiate from competitors

- HP Global Operations
- HP Internal Practice Organization
- HP Internal Knowledge Network
- HP Internal Centers of Excellence
- HP Labs
- HP Manufacturing & Distribution Industries Experts



## Execution that makes a difference



## Focused on improving business performance

- The right people, the right senior management team
- The right portfolio
- The right partners
- The right capabilities











## Supply Chain Visibility



HP Solutions for Supply Chain Visibility consist of structured methodologies, software and tools that simplify supply and demand data capture and analysis – an enterprise, its supply chain and its customers can better sense and respond to real-time demand shifts and supply constraints.



### **Best Practice Highlight**

• HP internal best practice are built into the HP software components and templates used in scorecards, dashboards, and operational reporting

### **Customer Benefits**

- Supply and demand balancing
- Better potential to recognize process improvement and course corrections requirements
- Enhance consumer experience
- Lower supply chain costs

## LCD Manufacturer



### Supply chain visibility: shared information hub

Korean LCD manufacturer was struggling to keep pace with volatile consumer demand and the corresponding strain on their supply chain. Centralizing supply chain data and synchronizing the data flow are critical for business flexibility.



### Challenge



### **Solution**



### **Expected Results**

- Inconsistent and inaccurate supply chain data
- Slow to respond; slow decision making
- Numerous supply chain data sources and applications
- Ability to meet future growth and portfolio management requirements

- Supply chain data model, systems, storage and services
- Best practices shared:
  - Supply chain data modeling and processes
  - HP Manufacturing experts participated in knowledge transfer sessions
  - HP's Global Delivery Supply Chain COE best practices used during the investigation and design phases
  - Customer's data model based on HP's internal data model

- Supply chain data model meets current and future requirements
- On-going project; 6-months complete

## Radio Frequency Identification



HP, an early adopter of RFID, is a already a recognized leader in using and understanding the technology. The company uses RFID within its own supply chain, provides RFID design, integration and implementation services to customers and is part of a global effort to establish RFID standards. HP's RFID solutions address both product tracking and asset management challenges.



### **Best Practice Highlights**

- HP RFID Centers of Excellence
- HP Labs RFID research
- Board of Governors of EPCGlobal

### **Customer Benefits**

- Improve product tracking
- Enhance asset management
- Reduce cycle times through automation
- Lower operational risks
- Improve return on investment
- Heighten customer satisfaction

## Retailer

### **RFID** and logistics

European retailer ships hundreds of millions of cartons through its distribution center each year. Imports from China are on the rise, especially textiles. Improved visibility and logistics including better processes for clearing customs required to maintain competitiveness.



### Challenge



### **Solution**



### **Results**

- Reduce shipment lead time from China to Europe by an average of 30%
- Increase read rate accuracy as compared to bar codes in order to reduce re-routing and re-work from conveyors
- Optimize the logistics process through better assessment of alternative processes (e.g. ship vs. air)

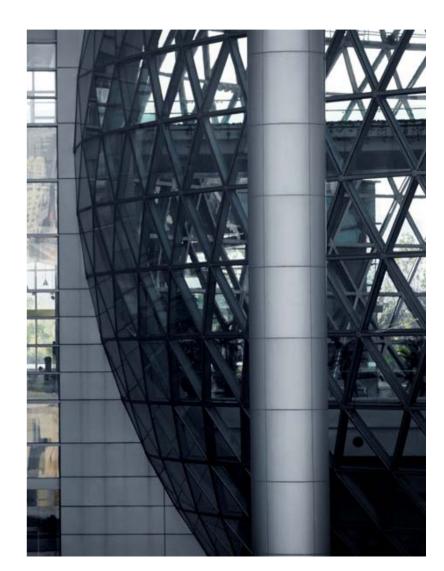
- RFID, supply chain and logistics process and IT consulting; inventory visibility for real-time optimization
- Best practices shared:
  - Logistics, customs, RFID process and implementation knowledge transfer
  - Delivery and deployment recommendations
  - Select RFID/logistics
     headquarter experts from HP involved at product launch

- Improved reading accuracy
   5% over bar codes; saving labor costs
- Estimated reduced time through customs
- Stand alone infrastructure with data shared via web services



## Innovation, collaboration, execution

- Commitment to customers, valuable solutions and experiences
- Collaboration with partners
- We share what we have learned



Bringing Best Practices to Market .....

..... We share what we've learned!

