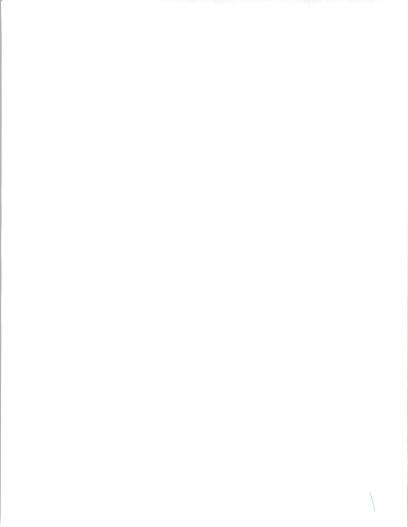
Presentation to:
McKinsey & Company

September 13, 1993







# Market Analysis Program Research Methodology



#### **INPUT Mission**

To provide objective data and insightful analysis on information services markets, companies, and products to enhance the competitive positions and increase the profits of our clients.



#### U.S. Information Services Market Analysis Program

#### **Verticals**

Banking/Finance

Discrete Manufacturing

Process Manufacturing

Retail Distribution

Wholesale Distribution

Education

**Health Services** 

Insurance

Utilities

Federal Government

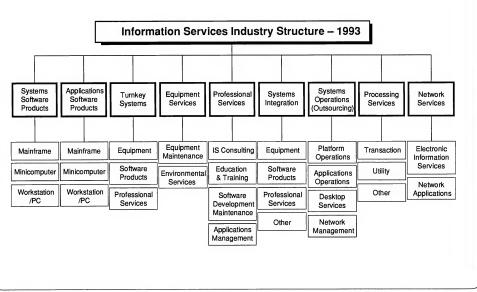
State/Local Government

Transportation

**Telecommunications** 

**Business Services** 

Miscellaneous Industries





#### U.S. Information Services Market Analysis Program

#### **Delivery Modes**

**Processing Services** 

Turnkey Systems

Systems Software

Products

**Network Services** 

Applications Software

Products

**Professional Services** 

Systems Integration

**Systems Operations** 

(Equipment Services)

#### **Cross-Industry Markets**

Accounting
Planning & Analysis
Office Systems

Human Resources

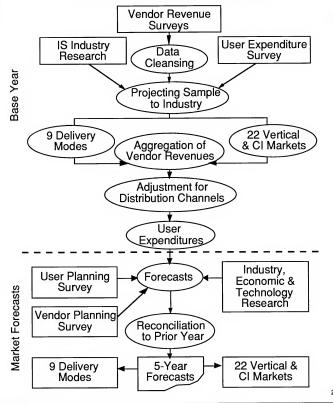
Engineering & Scientific

**Education & Training** 

Other



### INPUT Primary Market Research Methodology







#### **Forecast Methodology**

- 2,000 User Surveys (U.S.)
  - Telephone interview
  - Vertical industry
  - Size of firm
  - Functional management

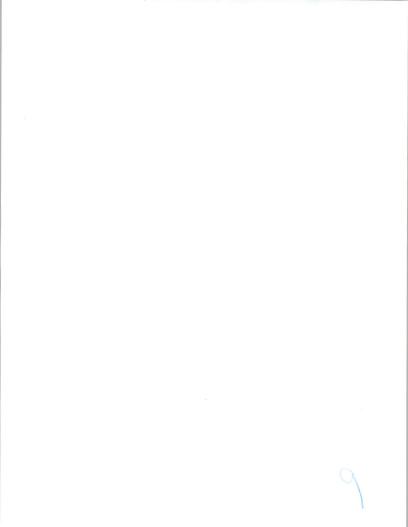
\_Sample Segmentation

- Survey Areas
  - New applications/technologies
  - Vendor preferences
  - Client/server
  - Outsourcing
  - Platforms
  - Budget levels and changes
  - Major issues



#### **Forecast Methodology**

- Vendor Revenue Surveys
  - Telephone Surveys
  - 400 Leading Vendors (U.S.)
    - · Delivery mode leaders
    - · Vertical market leaders
    - · 60% of industry total dollars
  - Survey Areas
    - · Total revenues, U.S. and international
    - Revenue growth by: Delivery mode, Vertical market, Client/server architecture
    - · Acquisitions/divestitures
    - · Price increases
    - · IS employees
    - · Key issues





#### **Forecast Methodology**

- Data Cleansing Vendor Surveys
  - Calendarizing
  - U.S. revenues versus international
  - Acquisitions: growth rate adjustments
- Projecting Sample to Industry
  - Large vendors: actual and estimated revenues
  - Small vendors: average revenue/firm, times number of firms = small vendor's segment
  - Sum of large and small vendor segments = first cut



### **Concentrated Information Services Markets**

Services	Industries		
Systems     Integration	Telecommunications		
Systems     Operations	Process     Manufacturing		
Systems Software	Utilities		
<ul> <li>Processing Services</li> </ul>	Insurance		
	• Federal		
	Banking and     Finance		



### Fragmented Information Services Markets

Services	Industries	
<ul> <li>Professional Services</li> </ul>	Discrete     Manufacturing	
<ul> <li>Applications Software</li> </ul>	Distribution	
	Health	
	State and Local     Government	





#### Forecast Methodology Vendor Planning Survey

- Leading and Emerging Vendors in Each Segment
  - Key issues
  - Technology trends
  - Growth promoters/inhibitors
  - Growth rate expectations
  - Product/market strategies
  - Key competitors/market shares



#### INPUT Market Research Conventions

- Use nominal GDP growth rates
  - Blue Chip Report (updated semiannually)
  - Inflation/deflation factor included; may be removed to get real GDP
- Rounded financial figures
- Identify respondent/population attributes (e.g., Is conclusion based upon percent of population or percent of responses?)





#### INPUT Market Research Common Sources of Forecast Variations

- Difference in market definition (SIC)
- Double counting where markets overlap
- Vendor market overstatement (revenues)
- User market understatement (expenditures)
  - Non-IS dollars omitted
  - Budgetary caution





#### **Market Research Truisms**

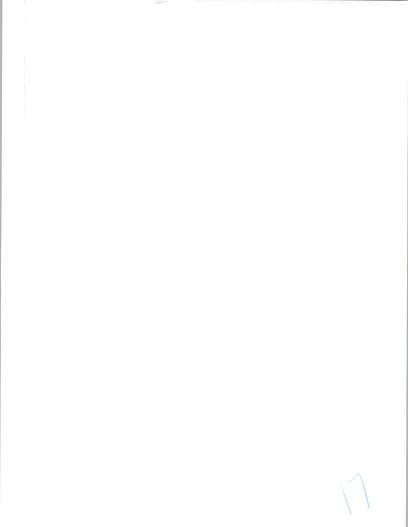
- Always a knowledgeable estimate
- Primary forecast attributes
  - Relative opportunity
  - Relative magnitude
  - Driving/inhibiting forces
  - Reconciliation (with last forecast)
  - Continuity (INPUT's 18 years)





## INPUT Market Research Sample Sizes

	Consideration	Interviews			
		Users	Vendors		
	Population typically controlling 80% exp./rev.	500-1,000	20-100		
	Target interviews	100	50		
	Minimum interviews	50	30		





### INPUT Market Research Confidence Level

- INPUT seeks to attain 95% confidence level
- Use targeted interviews based upon:
  - Industry
  - Topic
  - Geography
  - Installed equipment
  - Company revenues
  - Management title





#### Wholesale Distribution Sector Market Size by Delivery Mode 1991-1997

Delivery Modes	Growth 91-92 (%)	1992 (\$M)	1997 (\$M)	CAGR 92-97 (%)
Sector Total	11	2,532	4,573	13
Processing Services - Transaction Processing			418 418	6 6
Turnkey Systems	7	522	731	7
Applications Software - Mainframe - Minicomputer - Workstation/PC	11 4 12 22	587 255 137 195	1,083 317 226 540	13 4 11 23
Systems Operations	19	19 229 502		17
Systems Integration	16	181	384	16
Professional Services	8	380	542	7
Network Services - Electronic Info. Svcs Network Applications	22 10 21	326 69 257	13 127 786	23 13 25



## Wholesale Distribution Sector 1992 MAP Data Base Reconciliation

	1996 Market				91-96 CAGR	91-96 CAGR
Delivery Modes	1991 1992 Report Report (Fcst) (Fcst		Variance from 1991 Report		per data 91 Rpt	per data 92 Rpt
	(\$M)	(\$M)	(\$M)	(%)	(%)	(%)
Total Wholesale Distribution Sector	3,847	4,032	185	5	12	12
Processing Services -Transaction Processing	452 452	391 391	-61 -61	-13 -13	8 8	6 6
Turnkey Systems	683	683	0	0	7	7
Applications Software	958	958	0	0	13	13
Systems Operations	181	423	242	134	18	17
Systems Integration	331	331	0	0	16	16
Professional Services	465	565	40	9	6	8
Network Services	777	741	-36	-5	23	23



## Planned Transition Toward Total Information Technology Forecasting

- · Worldwide scope
- 30 countries
- Global vertical markets

#### **New Categories**

- Equipment and platform
- Staffing
- Data communications

### Goal: Complete IT forecast for all key dimensions

- · Country market
- Industry market
- · Service/product categories

#### AROUT INPUT -

Since 1974, information technology (IT) users and vendors throughout the world have relied on INPUT for data, objective analysis, and insightful opinions to support their plans, market assessments and technology directions particularly in computer software and services. Clients make informed decisions more quickly and save on the cost of internal research by using INPUT's services.

Call us today to learn how your company can use INPUT's knowledge and experience to grow and profit in the revolutionary IT world of the 1990s.

#### Annual Subscription Programs -

#### NORTH AMERICAN AND EUROPEAN MARKET ANALYSIS

Analysis of Information Services, Software and Systems Maintenance Markets 5-year Forecasts, Competitive and Trend Analysis

• 15 Vertical Markets • 9 Categories of Software and Services • 7 Cross-Industry Markets • The Worldwide Market (30 countries)

#### — U.S. —

- U.S. Outsourcing EDI
- Client/Server
- EDI / Electronic
  Commerce
- · Systems Integration · U.S. Federal Government
- · IT Vendor Analysis IT Procurements

#### — EUROPEAN —

- · Outsourcing
- · Systems Integration
- · Customer Services

#### CUSTOM CONSULTING -

Many vendors leverage INPUT's proprietary data and industry knowledge by contracting for custom consulting projects to address questions about their specific market strategies, new product/service ideas, customer satisfaction levels, competitive positions and merger/acquisition options.

INPUT advises users on a variety of IT planning and implementation issues. Clients retain INPUT to assess the effectiveness of outsourcing their IT operations, assist in the vendor selection process and in contract negotiation/implementation. INPUT has also evaluated users' plans for systems and amplications downsizing.

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