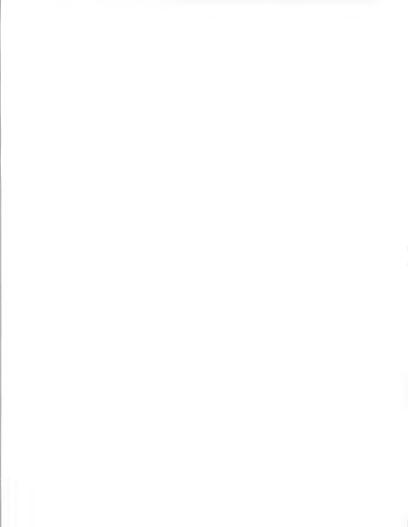
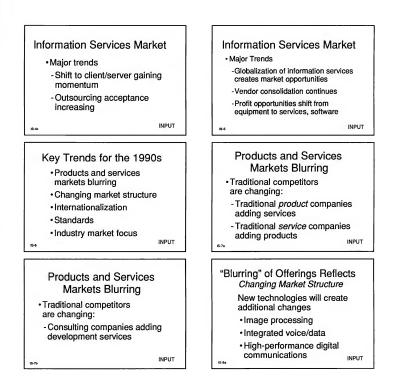
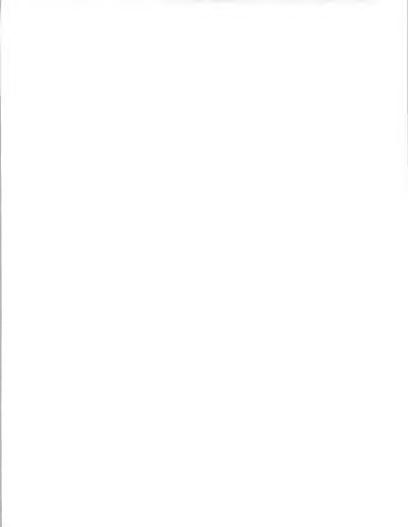
7. INFORMATION SERVICES INDUSTRY TRENDS (15)

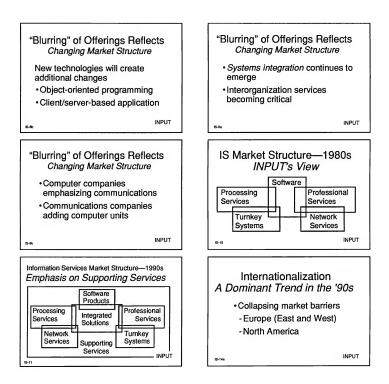


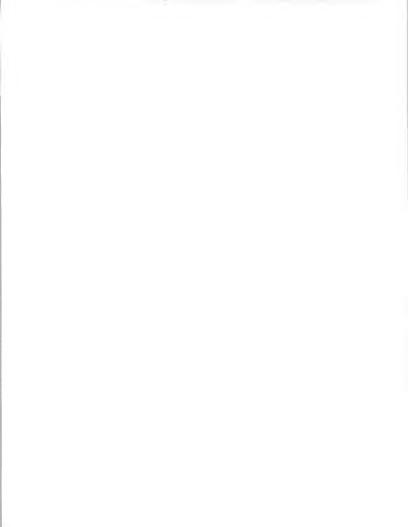


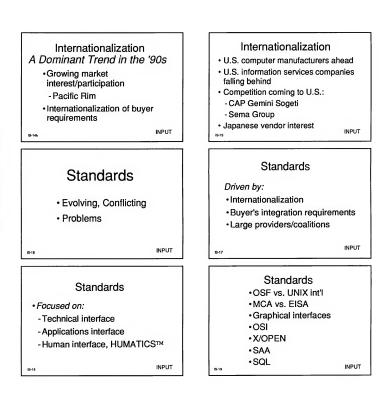


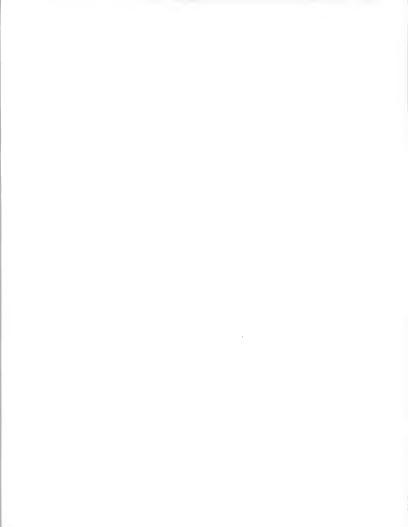


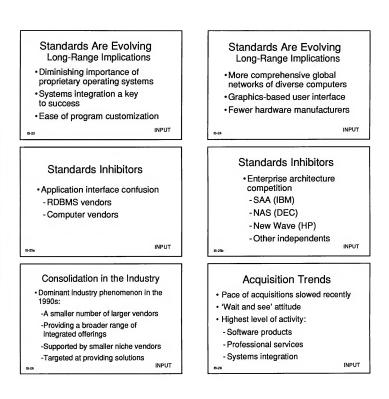


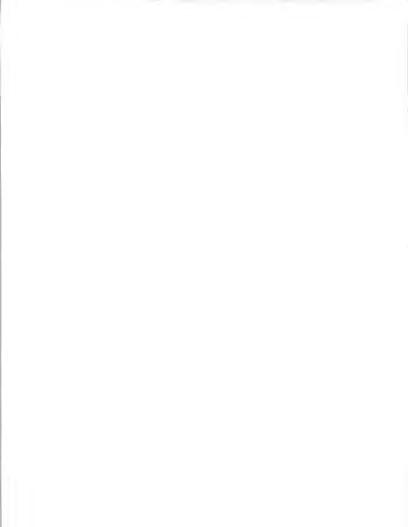


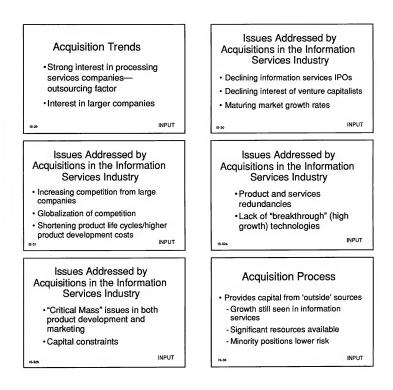


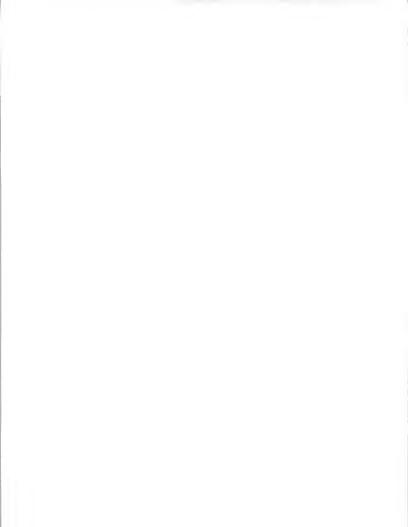


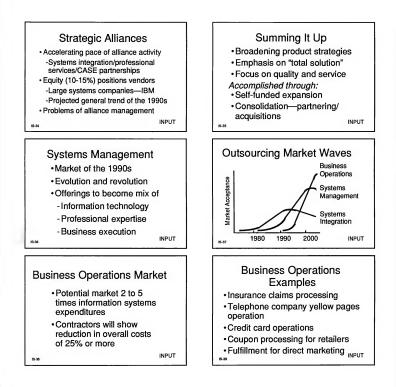














U.S. IS Industry Conclusions

- · Slower growth in near term
- · Shift to broad-based services zones
- · Large services vendors grow fastest
- Software products—turmoil continues

INPUT

Information Services Industry, 1980 vs. 1990		
Difference	Implication	
Willingness to outsource operations	Processing services shifts to systems operations	
More technological alternatives	More services required to integrate	
5-42	INPUT	

Information Services Industry—What It Does

Provides services and products to develop, implement and operate information technology-based systems.

15-44

15-40

INPUT

Information Services Industry, 1980 vs. 1990

Difference	Implication
Five times as big	Slowing growth
Many large vendors	Consolidation and dominance
Stronger vendors	Greater reliance by user
15-41	INPUT

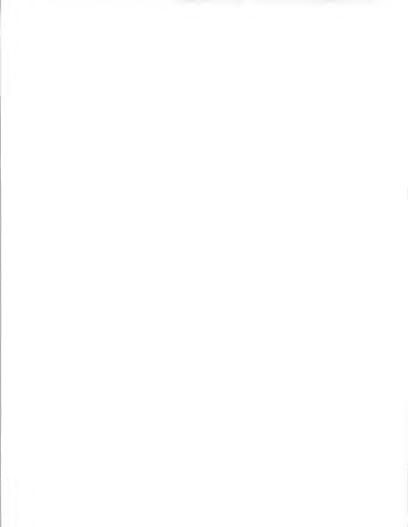
Information Services Industry, 1980 vs. 1990

Difference	Implication
Greater variety of services Worldwide	Changing distribution channels Breadth and complexity
orientation	of service offerings
Many small vendors	Alliances to succeed
15-43	INPUT

Processing Services/ Systems Operations

- 24% of industry
- · Alternatives to internal investment
- Specialized services—payroll
- Services to specific industries banking
- Worldwide capabilities desirable

15-45





- 8% of market
- Network applications—services that link organizations
 - Electronic data interchange
 - Electronic mail
 - Network management
 - Foundation for electronic commerce

13-46

Professional Services/ Systems Integration

- 23% of industry
- · Alternative to internal employment
- Access to skills & technology
- Solutions oriented services
- Developer of IT skills for U.S.

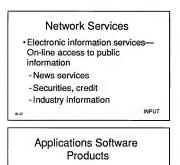
S-48

INPUT

Turnkey Systems

- 10% of market
- Software plus hardware purchase
- Channel for applications software products
- Vendors add professional services

INPUT



- 18% of industry
- · Products to manage a business
- Products to improve personal productivity

INPLIT

INPUT

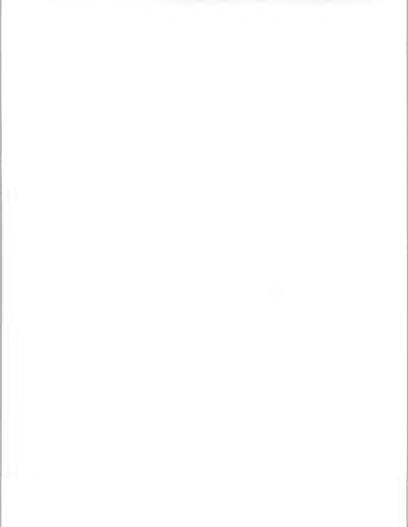
International markets

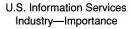
\$-49a

Systems Software Products

- 16% of industry
- Tools that support computer operation
- Products to create application systems
- Basis for U.S. leadership

IS-50



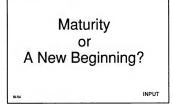


- International leadership
- •Outgrows the economy-2 to 3 times
- · Developer of people skills
- Source of competitive strength

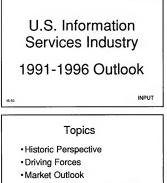
INPUT

18-5

U.S. Information S Industry	Services
Sector	No. of Companies
Processing services/ Systems operations	3,500
Network services	500
Total	11,200
15-526	INPUT



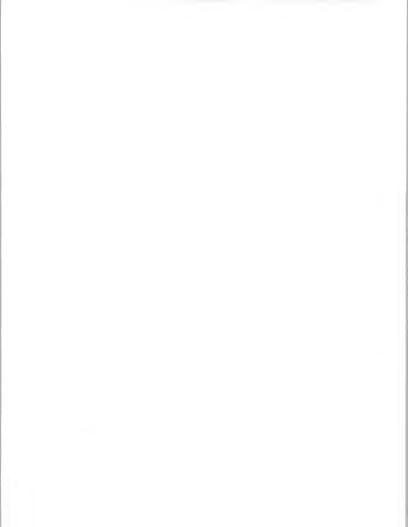
U.S. Information Services Industry Sector No. of Companies Software products 2,900 Turnkey systems 2,500 Turnkey systems 2,500 Typofessional services/ Systems integration

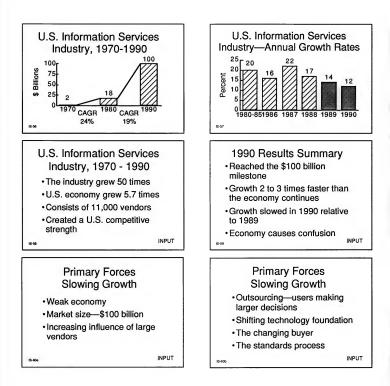


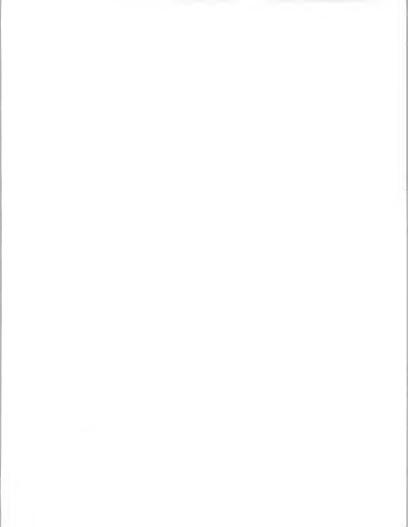
· Opportunities and Conclusions

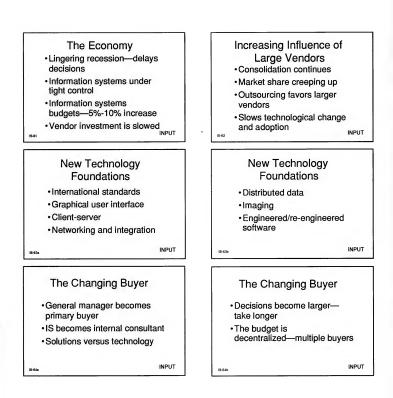
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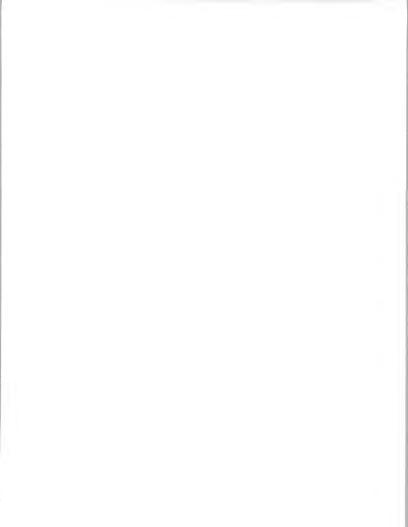
18-55

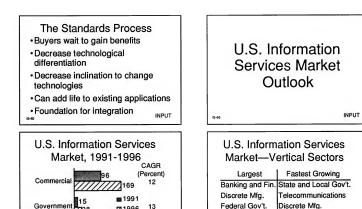




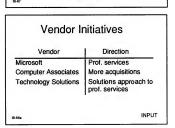








13 1996



0 100 150 200 \$ Billions

Government

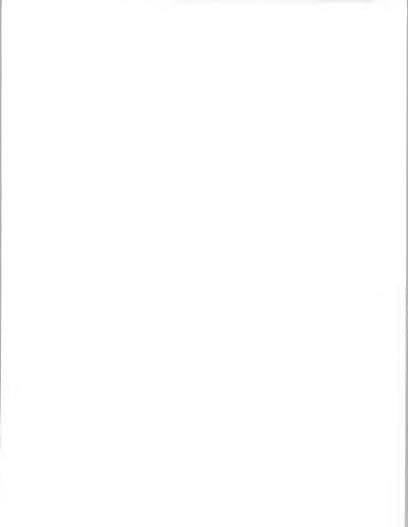
Ver	ndor	Direction
IBM/	DEC	Profitability measurement for sales
NCR		Broaden prof. services
UNIS	SYS	Commercial prof. services

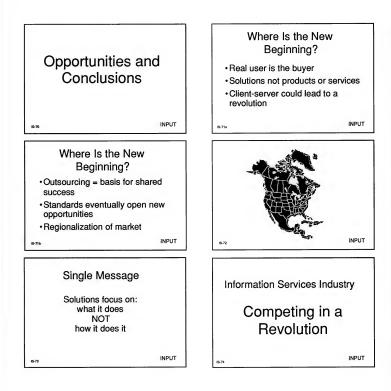
Retail Distribution

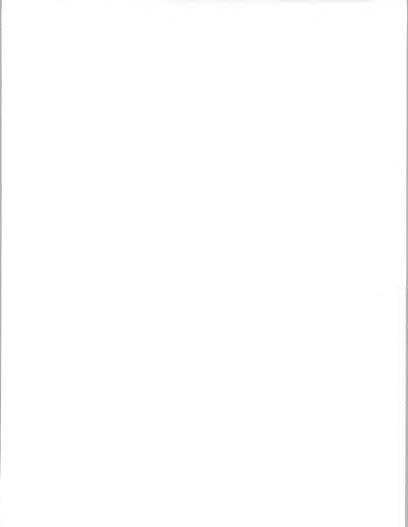
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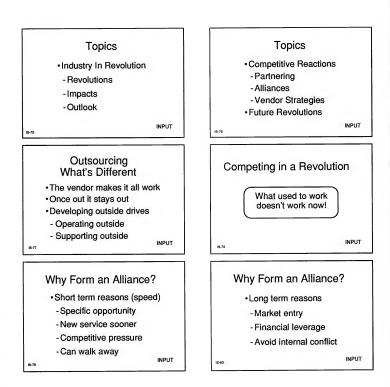
Process Mfa.

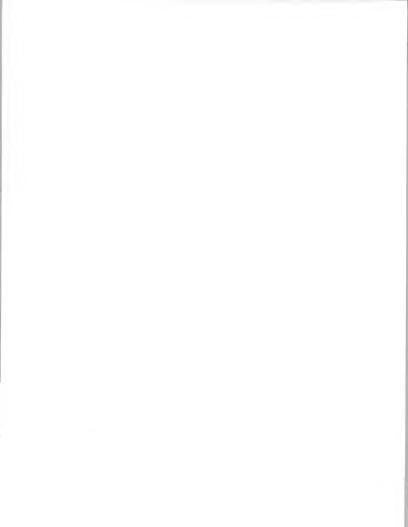
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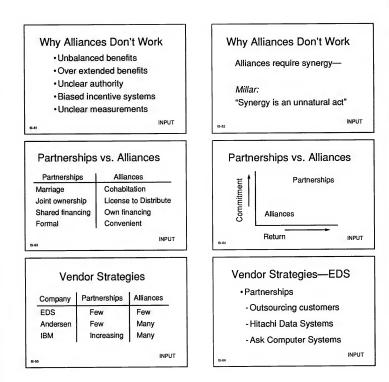


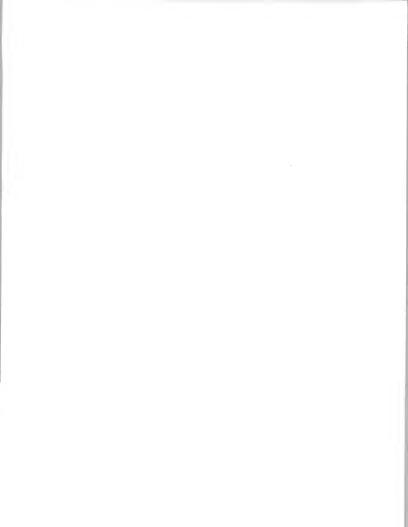


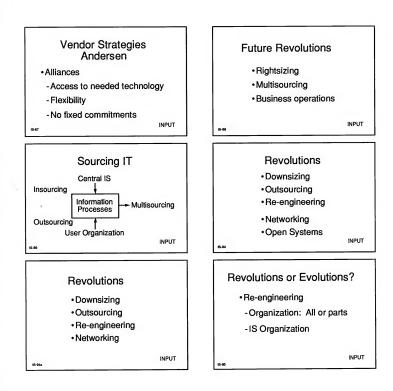


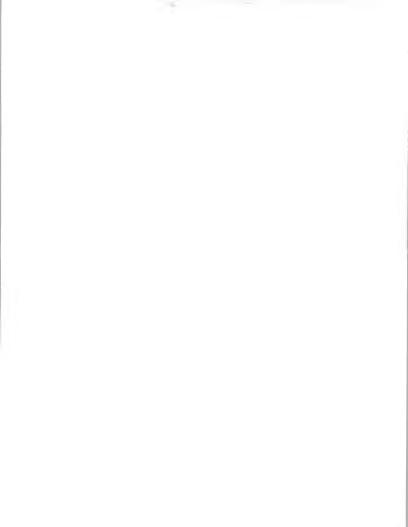


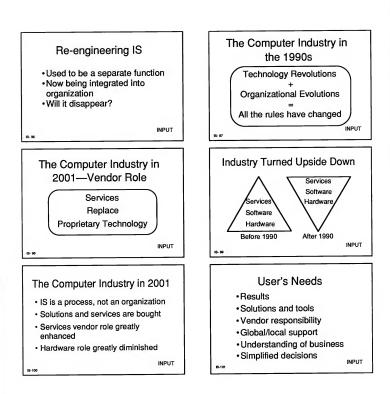


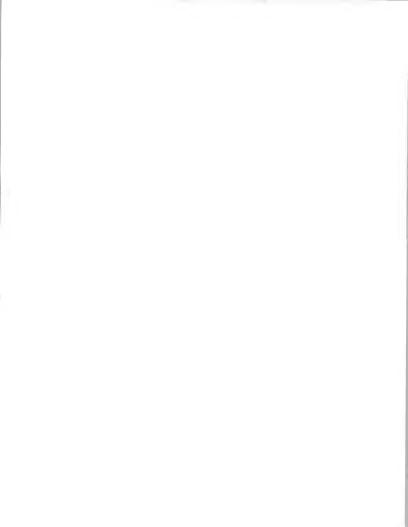


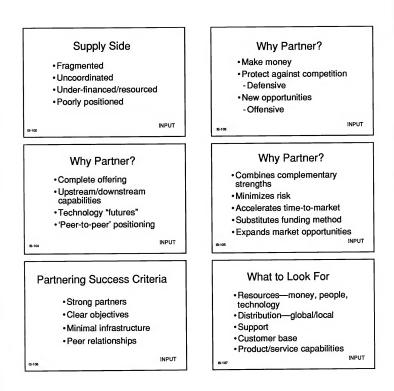


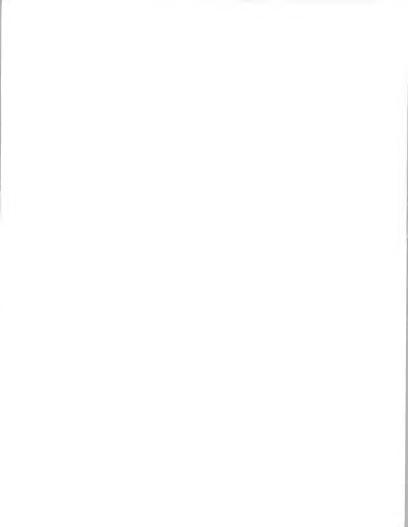


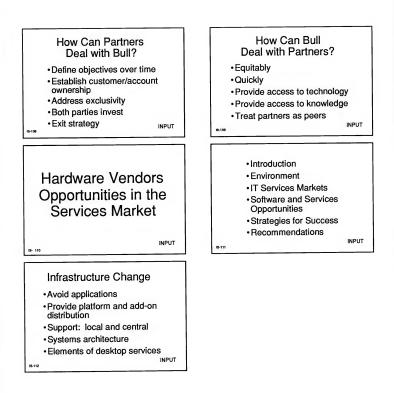












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