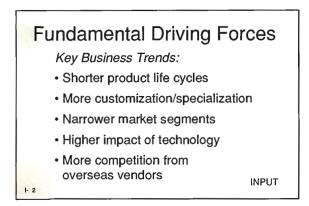
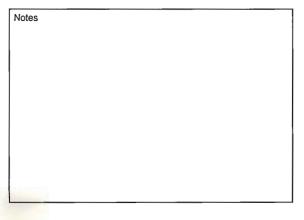
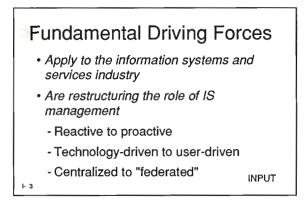
Information Sy	ystems
F 1	INPUT

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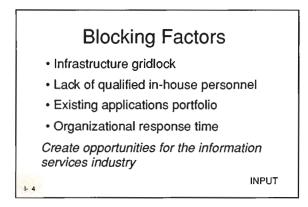






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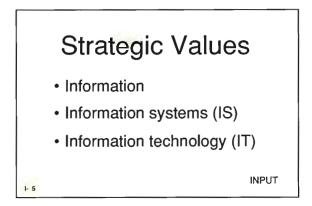
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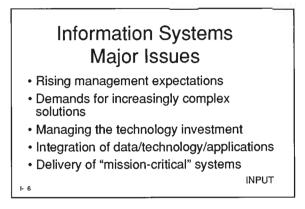


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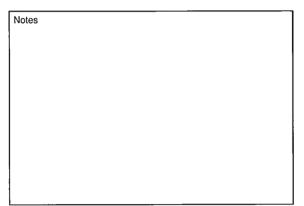
Notes		

Information Systems Driving Forces

- 1. Bottom line return
- 2. Rapid response and deployment
- 3. Expanding wealth of technology
- 4. International competition
- 5. Unstable organizational environments
- 6. Integration

ŀ 7

INPUT

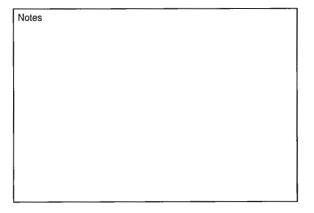


rev. 11/13/90

Where's the Productivity?

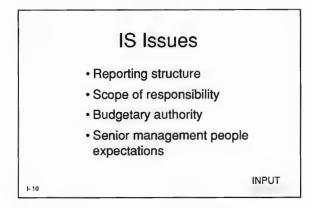
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INPUT





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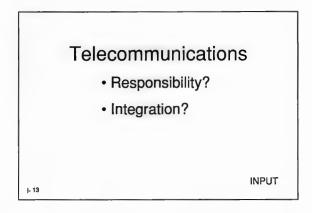
	Make vs. Buy	
ь 1 1		INPUT

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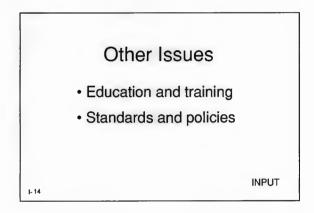
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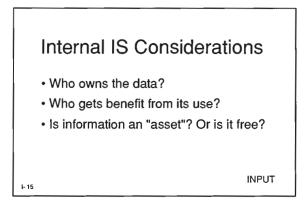
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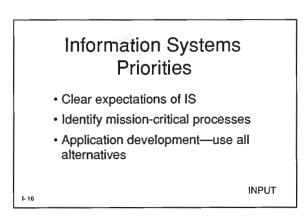


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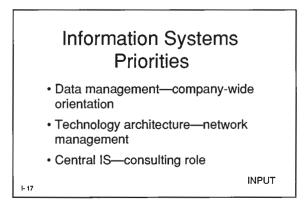
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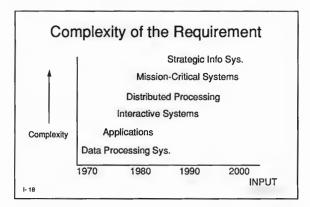
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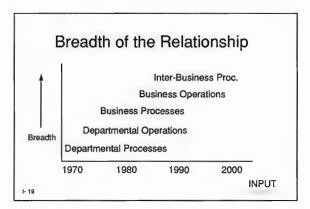


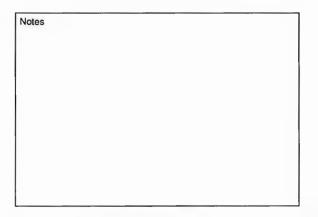
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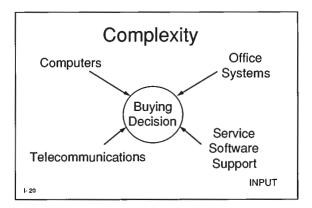


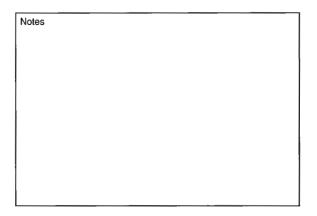
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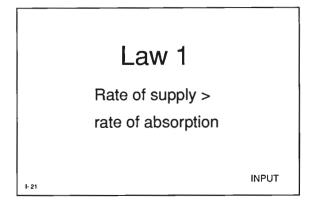




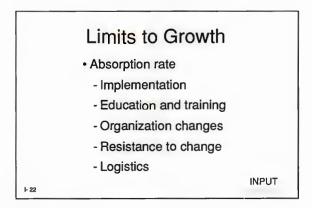




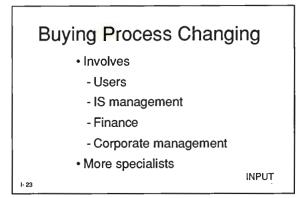




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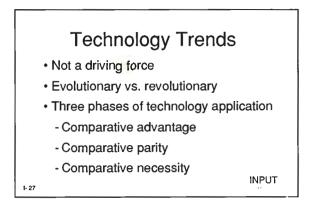
Ranking of Impact of New Technologies

- 1. Image processing
- 2. Voice recognition
- 3. Natural language processing
- 4. Self-teaching expert systems

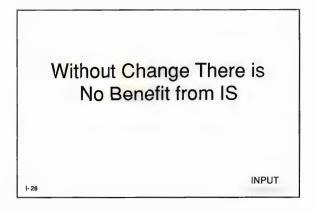
I- 26

Notes

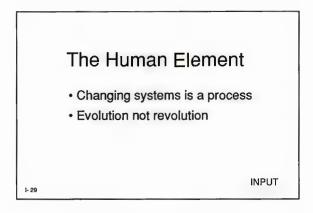
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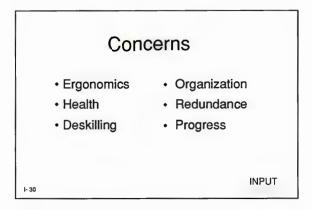
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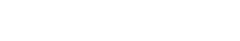
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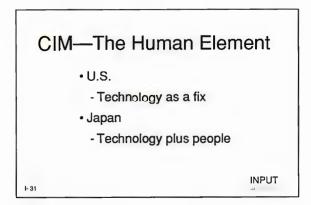


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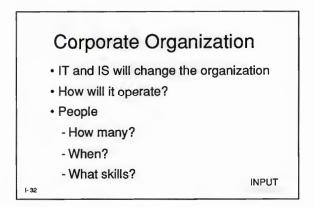


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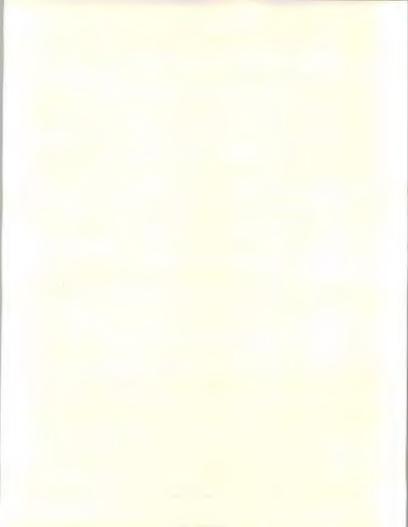
V.P. Humatics

Notes

INPUT

Key Future Trends—Impact on IS			
Trend Impact on IS			
Business integration	Centralization of infrastructure planning		
Business integration- between companies			
Decentralization of technology			
⊦34			

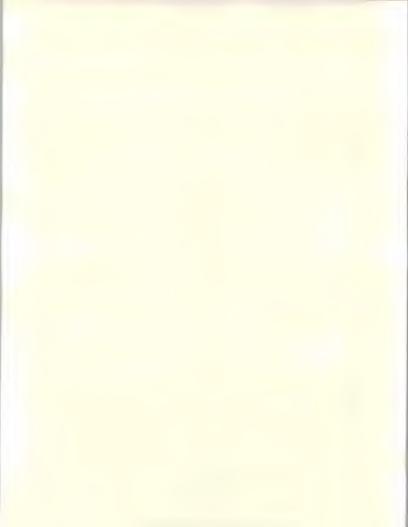
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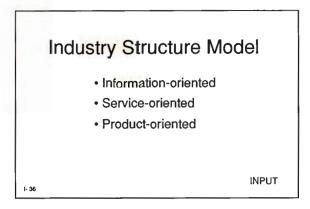


Key Future Trends—Impact on IS			
Trend	Impact on IS		
Increasing use of communications	Network view of the corporation		
Emphasis on business planning	Decreased involvement in operations		
1-35	INPUT		

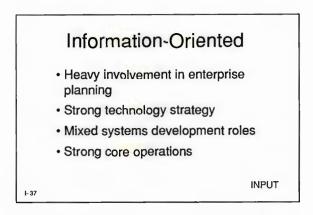
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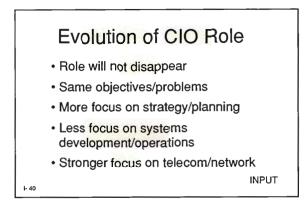




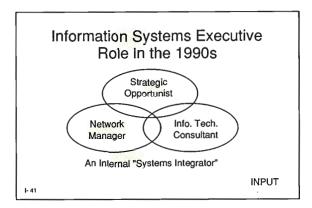
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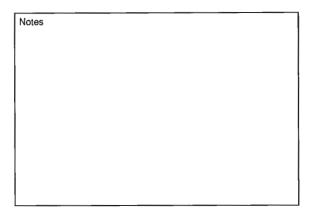






Notes		





IS Organization in the 1990s
Not Centralized
Not Decentralized
Federated
Brought together "by agreement of each party to sublimate its power to the central authority in common affairs." - Webster
F42 INPUT

Notes			



	Federated IS Organization				
	Federal Government	Corporate I <u>S</u>			
	Defense	Competition			
	Treaties	Partnerships			
	Regulation	Standards			
	National programs	Corporate systems			
I- 43	National policies	Corporate policies	INPUT		

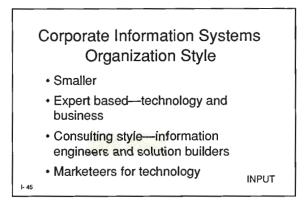
Notes			

Federated	Federated IS Organization				
State Government	Unit I <u>S</u>				
Citizens	Customers				
Local issues	Business support				
Operating programs	Operating systems				
Policy implementation	Policy implementation INPUT				
l- 44					

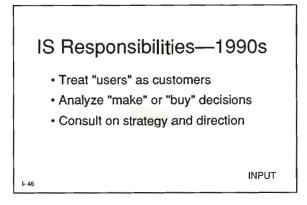
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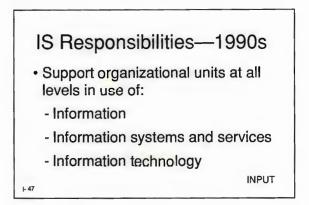




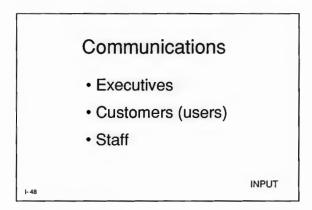
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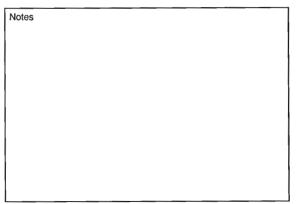


Notes	

Information Systems Technology Trends

- · Integrated data bases (relational)
- Platform independence/systems connectivity
- CASE technologies
- Expert systems
- · On-line transaction processing capabilities

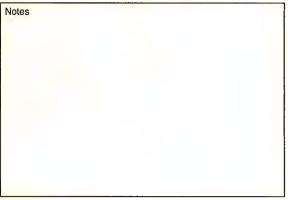
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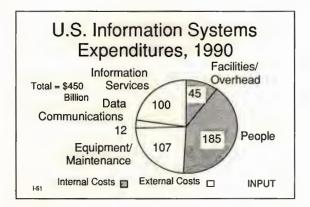
11/13/90

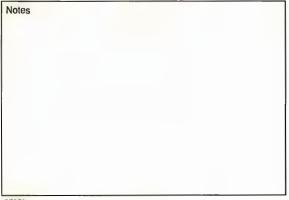
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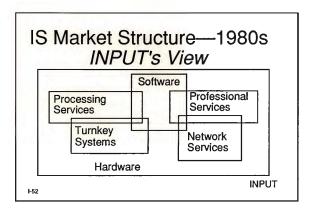


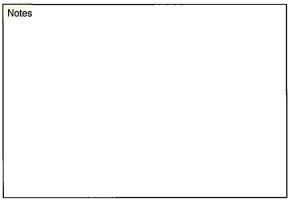
1/14/91





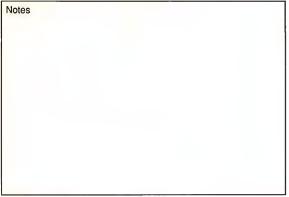
5/30/91





11/13/90

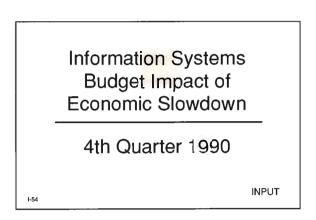




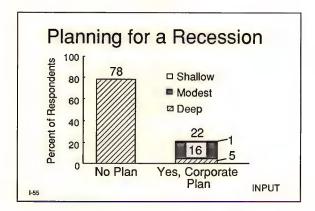
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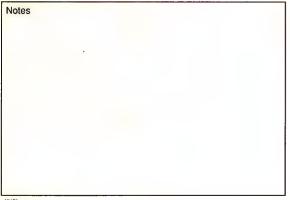




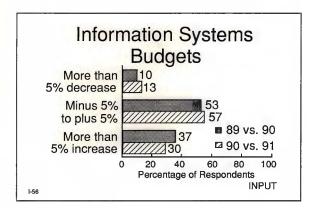


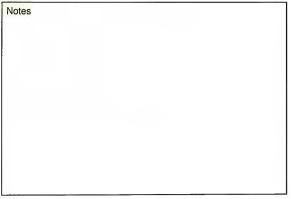
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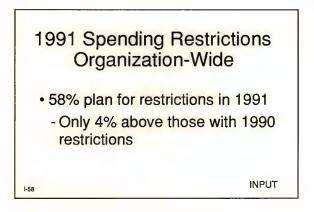




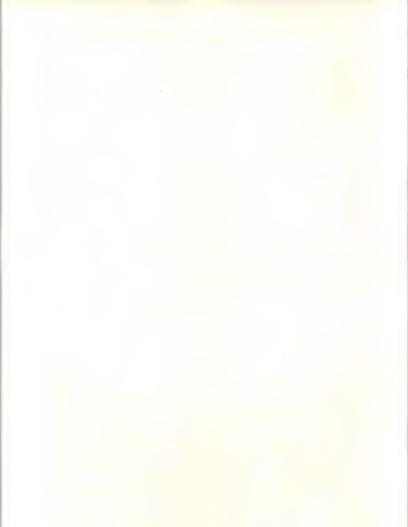
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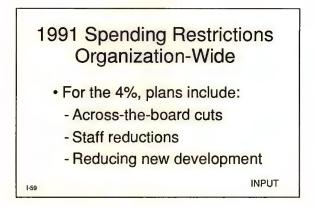


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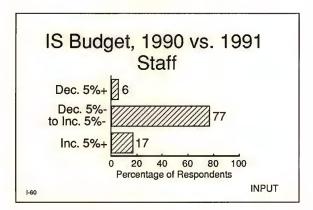
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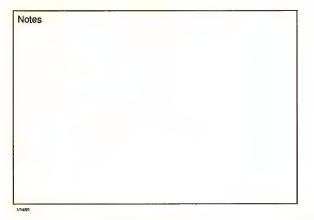




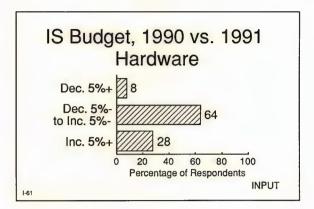
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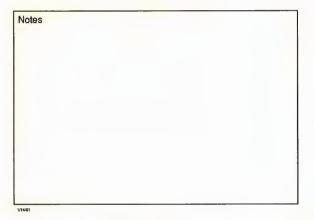




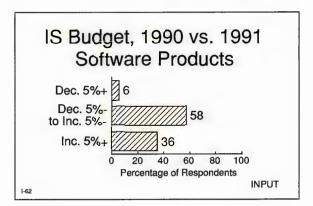


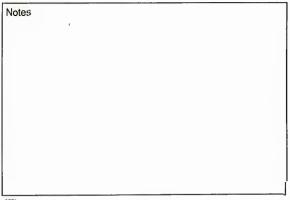




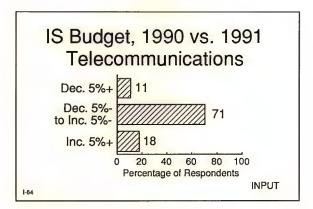


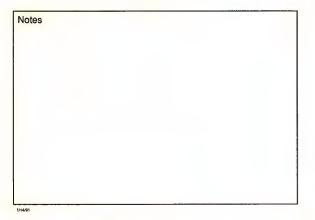




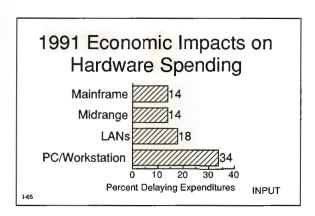


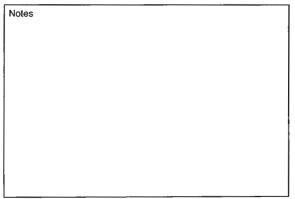


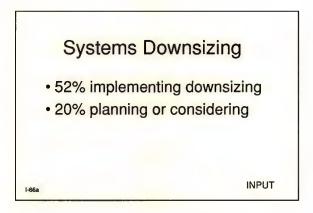




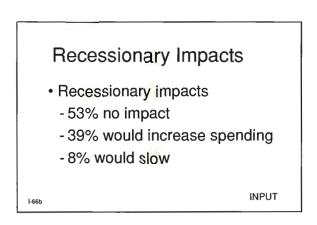
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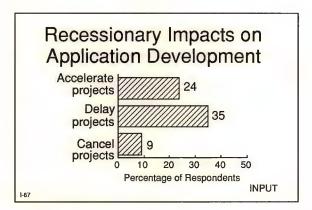


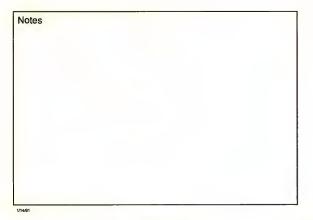


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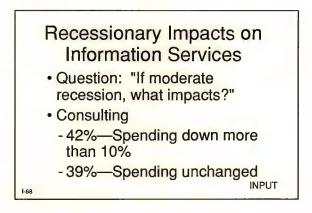
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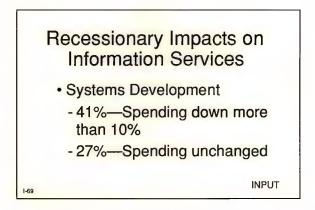
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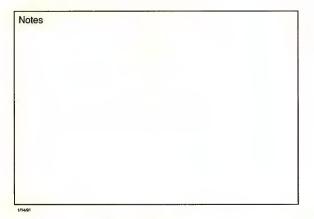




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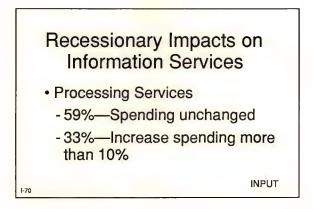






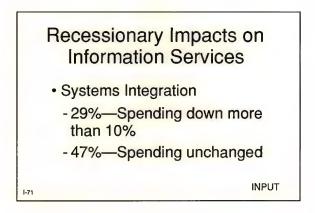


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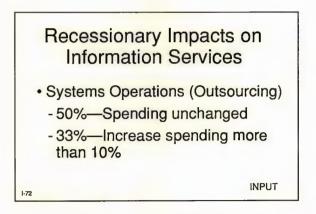
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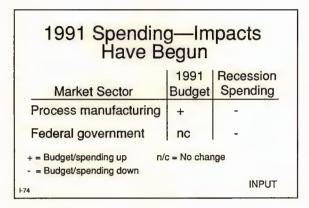
Notes		



1991 Spending—Impacts Have Begun					
	1991	Recession			
Market Sector	Budget	Spending			
Wholesale distribution	n/c	-			
Retail distribution	n/c	-			
Discrete manufacturing	+	-			
+ = Budget/spending up n/c = No change					
 Budget/spending down 		INPUT			

Notes		

.



Notes	



1991 Spending Probab	—Imp ole	oacts
	1991	Recession
Market Sector	Budget	Spending
Transportation	+	-
Banking and finance	+	-
State & local government	+	-
+ = Budget/spending up n/c	= No chang	je
- = Budget/spending down		INPUT

Notes			





1991 Spending- Impacts Exp	-Min Decte	nimal d
Market Sector		Recession Spending
Insurance	+	+
Medical/health care	+	+
Business/consumer svcs.	+	n/c
	= No cha	nge
- = Budget/spending down		INPUT

Notes			



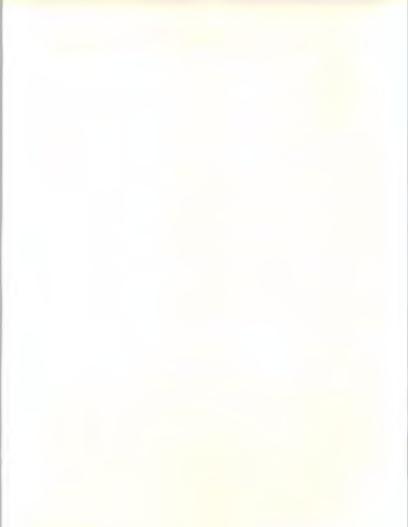
Impacts Expected

Market Sector	1991 Budget	Recession Spending
Utilities	n/c	n/c
Telecommunications	n/c	n/c
Education + = Budget/spending up n/	+ /c = No cha	n/c Inge
- = Budget/spending down		INPUT

Notes			



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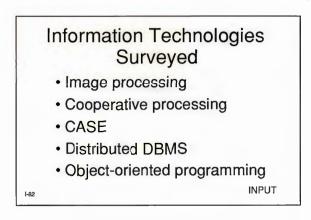


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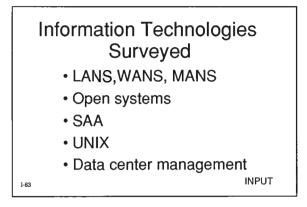


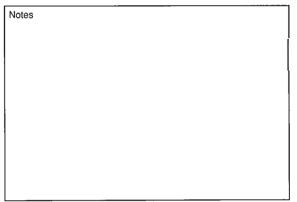
Information Technology Implementation Trends	
1-80 INPUT	

Notes	



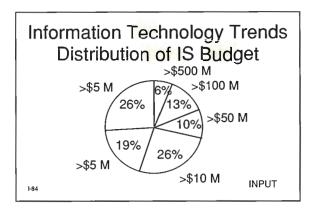
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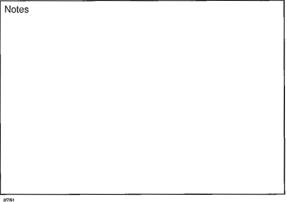


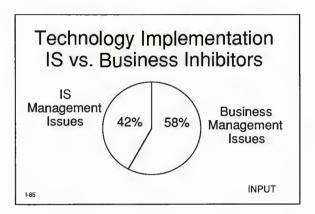


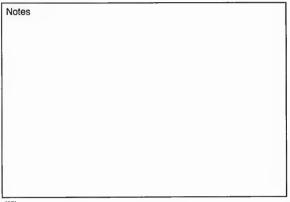
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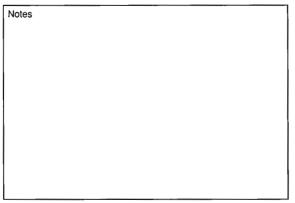






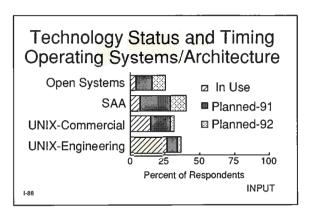


Technology Implementation Business Mgmt. Inhibitors					
Rank	Percent of Rank Respondents Inhibitors				
1	41	Business need			
2	19	Business interruption			
3	15	Budget			
4	10	Cost/benefit			
5 1-86	9	Startup cost INPUT			

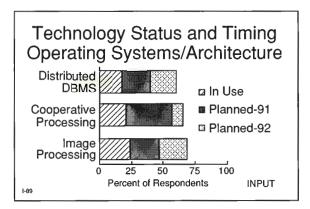


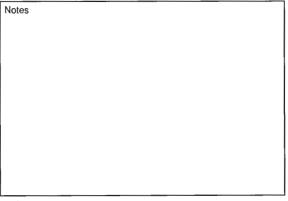
Technology Implementation IS Mgmt. Inhibitors					
	Dauli	Percent of	la h th thank		
	Rank	Respondents	Inhibitors		
	1	22	Staff availability		
	2	21	Existing systems		
	3	19	Integration		
	4	14	Training		
	5	12	Resistance to change		
1-87	7	-	INPUT		

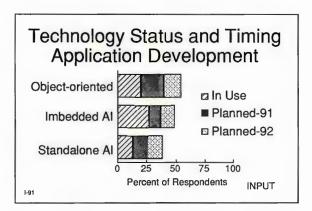
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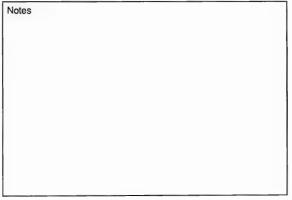






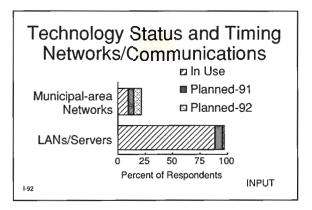


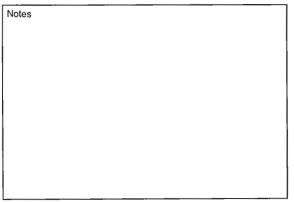


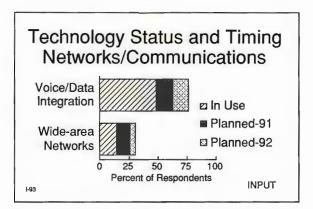


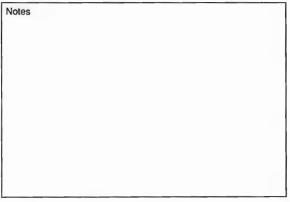
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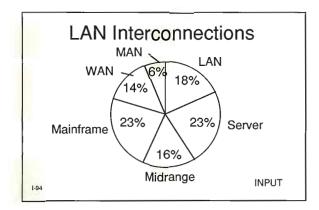


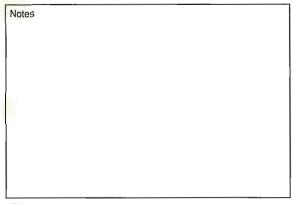






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LAN Use—Active Central Applications		
Application		% to be Act.—1992
Accounting	45	60
Executive Info Sys	27	65
Mainframe DBS Queries	40	72
1-95	1	INPUT



LAN Use—Active Central Applications		
Application 1990 Act.—1992		
Production Scheduling	16	36
Sales Reporting	23	38
Order Entry	23	37 INPUT

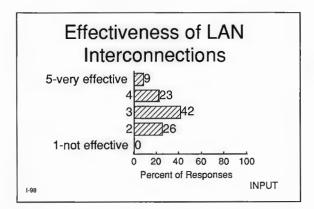
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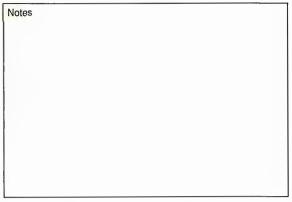


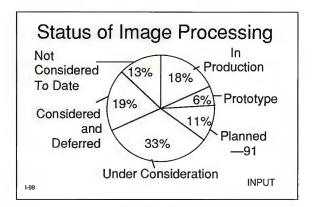
LAN Use—Active PC Applications			
	% Act.	% to be	
Application 1990 Act.—1992			
Electronic Mail 52 75			
Desktop Publishing	55	68	
PC Tools 84 90			

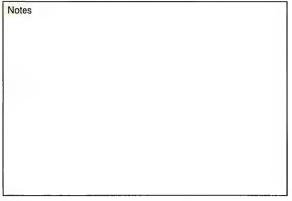
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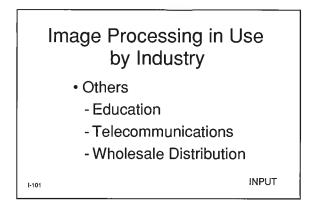


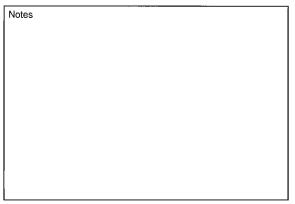


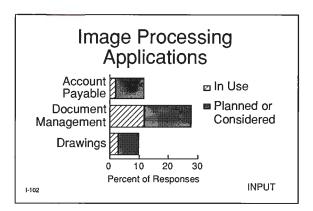
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Image Processing in Use by Industry		
In Use Planning Industry (Percent) (Percent)		
Insurance	20	8
Transportation	20	12
Discrete Mfg	15	18
Process Mfg	10	23 INPUT

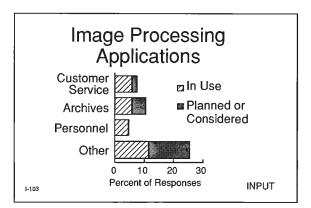
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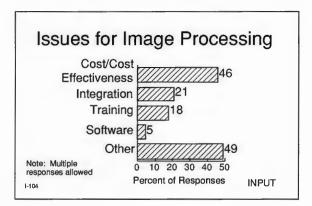




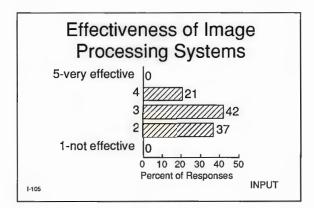


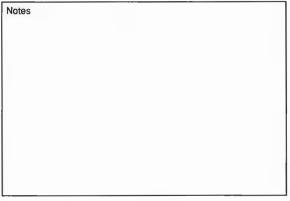


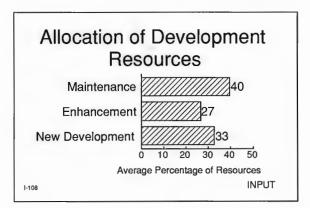


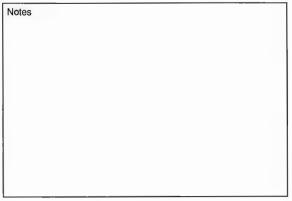


Notes	











Controlling Application Maintenance Resources		
	% Using	
Limited resource allocation	71	
Purchased software replacement	43	
Re-engineering of	38	
applications INPUT		

Notes	

Controlling Application Maintenance Resources		
	% Using	
Maintenance only function	34	
Contract out	22	
Assign to user	18	
Recode	13 _{INPUT}	

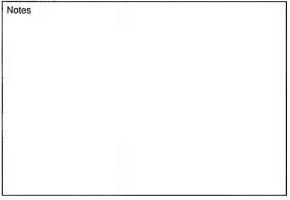
Notes	

Controlling Application Maintenance Resources		
	Effectiveness*	
Re-engineering of applications	3.1	
Maintenance only function	2.8	
Purchase of software replacement	2.7	
* 1 = not effective, 5 = very effective	INPUT	

Notes		

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Controlling Application Maintenance Resources		
	Effectiveness*	
Recode	2.7	
Limited resource allocation	2.7	
Contract out	2.7	
Assign to user 1 = not effective, 5 = very effective	2.6 INPUT	



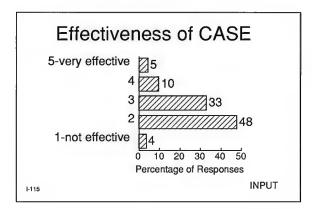
CASE Activity by Industry				
Industry	% Using	% Considering		
Discrete Mfg.	18	12		
Process Mfg.	14	32		
Utilities	11	-		
Telecommunications	11	4		
Insurance	9	12		
Transportation	9	16		
I-113		INPUT		

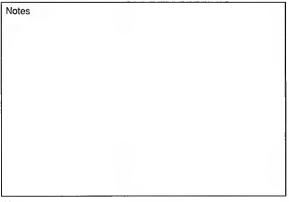
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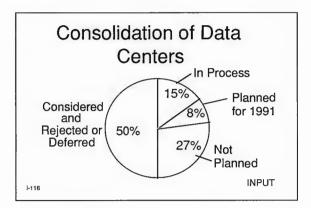
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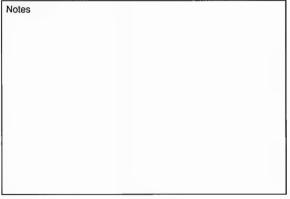
Issues in Using CASE					
Issue	Issue Using Considering				
Staff acceptance	111	11			
Cost/training	111	1			
Integration	11	11			
Planning	11	1			
Proven results	1	1			
Methodology	1	1			
l-114	-	' INPUT			

Notes	

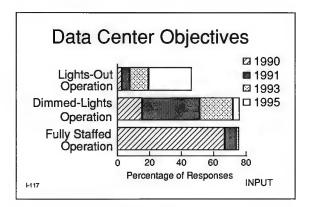


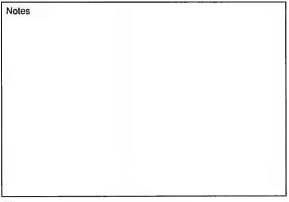


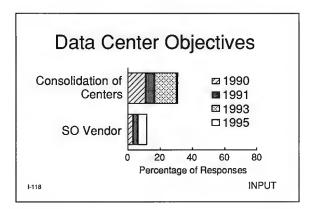


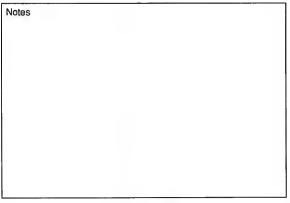


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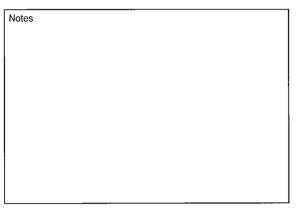




Information Technology Trends Observations

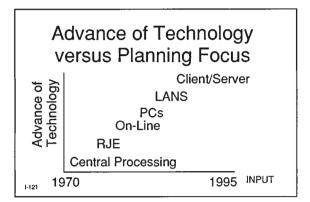
- Inhibitors differ between IS and top management
- Technologies apparent to top management adopted faster
- Learning curves remain—witness image processing and CASE INPUT

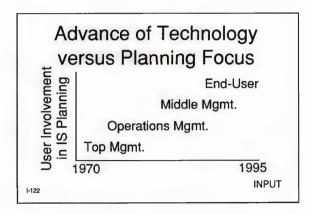
I-119





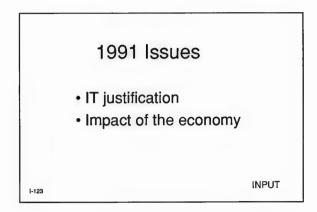
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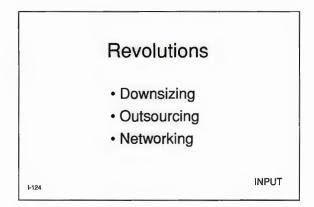


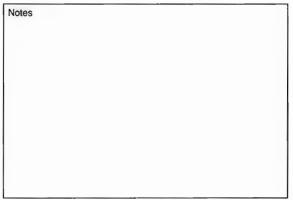
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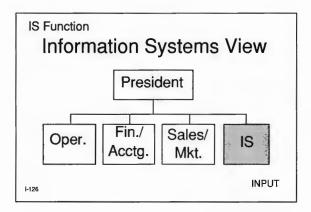


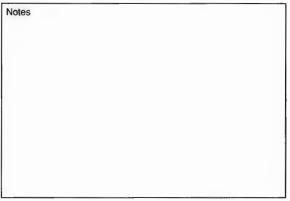
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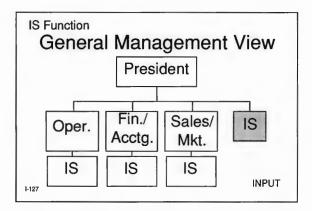


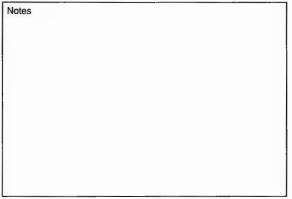




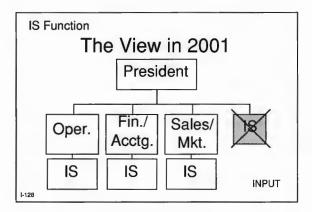


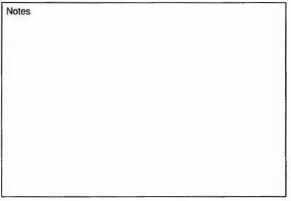


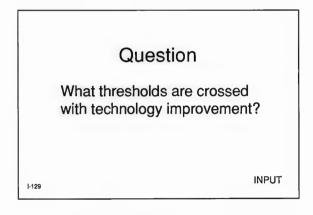




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