INFORMATION SYSTEM

ANNUAL PRESENTATION 1984



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INFORMATION SYSTEMS DIRECTIONS, 1984

by Peter A. Cunningham President INPUT





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INPUT PRESENTS:

Preparing for the Age of Individualized Systems

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PURPOSE

- Identify Key IS Trends
- Relate Major INPUT Research Findings
- Recommend Corporate Computing Strategies



INPUT Performs Thousands of Vendor and User Interviews Each Year

- INPUT -





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INPUT SUBSCRIPTION PROGRAMS

- Information Systems Program
- Market Analysis and Planning Service/U.S.
- Market Analysis and Planning Service/Europe
- Customer Service Program/U.S., Europe
- Company Analysis and Monitoring Program
- Federal Information Systems and Services Program







AGENDA

- Driving Forces
- Management Issues
- Organizational Trends
- End-User Developments
- Central IS Issues
- Recommendations





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INFORMATION SYSTEMS AS WEAPONS

Reduction of Cost, Time

- Improvement of Accuracy, Effectiveness
- Products Themselves

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MANAGERS DEMAND INDIVIDUALIZED SYSTEMS

- Knowledge Based
- Focused
- Strategic
- Rapid Response







	STRATEGIC MUST BE REC	TRENDS COGNIZED	
Mainfram Batch	e ->>> Interactive Terminals	->> Minis ->> Minis	Micros
DP 🧼	MIS ->> DSS	Expert Sys	stems
Data 📟	Information		ledge
	Time	t de la companya de l	~>

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MANAGEMENT SYSTEMS BENEFITS



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Issue Group Cost		26
Planning and Control	32 21 4	
	1984 Survey	🛛 1983 Survey

















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NEW I.S. SKILLS REQUIRED

- Advising
- Coaching
- Consulting
- Facilitating
- Teaching



Marketing IS Services

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PERSONAL INFORMATION CENTERS ARE COMING

- Extension to Mainframe Information Centers
- Decision Support
- Report Generation Integrated
 With Word Processing

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TOP DSS FUNCTIONS

- Data Acquisition
- Data Base Management
- Forecasting
- Modeling
- Spreadsheet

- INPUT























END-USER AND I.S. VIEW MICRO-MAINFRAME DIFFERENTLY








































SOFTWARE IS A CATALYST TO SUCCESSFUL MANAGEMENT SYSTEMS

- Integrated Software
- Intuitive Systems
- Broad Span of Information Sources
- Transparent Interfaces

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CURRENT DEVELOPMENT PROCESS

Different Application

- States
- Cycles
- Goals

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NEED FOR INTEGRATION

- Major IS Problem
- Current Structures Do Not Work

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K,



DEVELOPMENT PROCESS

NOW

FUTURE

Application Oriented
System Oriented

Compartmentalized
Integrated ≠
Centralized



VENERABLE IMS WILL LAST THROUGH 1990

- Widely Used
- Operational Files
- Difficult to Convert

- INPUT



















RELATIONAL DB = DATA BASE MACHINE

- Performance Sensitive
- Large Resource Requirement
- Simplicity Masks High Cost

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IBM APPLICATION SOFTWARE STRATEGY

• Late 1980's

Acquire and Market PC Software

•1990's

Develop, Acquire, and Market Integrated Application Software for the Office



LARGE MAINFRAMES ARE BECOMING CORPORATE STORAGE DEVICES

• Micro-Mainframe Links

Corporate Data Bases











COMMUNICATIONS DEREGULATION -OPPORTUNITIES

• More Equipment Choices

Technological Advances Encouraged

Competitive Pricing



COMMUNICATIONS DEREGULATION -RISKS

- Procurement Process More Complex, Costlier
- Service and Maintenance More Diffused
- Need for Costlier, Qualified Personnel
- Standards and Compatibility Problems
- Unproven Technologies —> Expensive Mistakes



LAN VERSUS CBX DECISION CRITERIA

Select LAN

- Mainframe to Mainframe Links
- Extensive Data Base Updates
- High Speeds Needed
- Protected Investment in PBX
- Redundant Networks Desired



LAN VERSUS CBX DECISION CRITERIA

- Select CBX
 - Low Speed Okay
 - Sporadic Terminal/PC Access to Mainframe
 - Physical Constraints on New Cable Installation
 - Frequent Moves
 - Integrated Voice/Data Features Desirable



ALTERNATIVES FOR INTEGRATING VOICE AND DATA

- Upgrade PBX
- Third-Generation CBX
- LAN
- Fourth–Generation CBX with Integrated LAN

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TELECOMMUNICATION IMPLICATIONS

• Wider Range of Tariffs

• Wider Range of Vendors

 Increased Corporate Network Design Flexibility

 New Opportunities for Reducing Communications Costs







THE LATE 1980s

- Personal Information Centers
- Connectivity Between End User and Corporate Data Base
- Resurrection of DDP
- Advent of Individualized Systems



1990s

- Subscription Software
- Turnkey Solutions
- Paperless Office
- Expert Systems



CONCLUSION

- You Need Involvement
 - Corporate and Distributed Management
 - IS and Line
 - Staff
 - Outsiders


CONCLUSION

- You Can't Plan in a Vacuum
- You Need a Systematic Approach

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RECOMMENDATIONS

- Establish End-User Computing Support Function
- Distribute Processing
- Market IS Services
- Go with Individualized Systems

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The Firm's Competitive Health Requires Better Information Systems

Prepare Now!!

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BE PREPARED FOR THE 1990s

Get into the Service Business

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