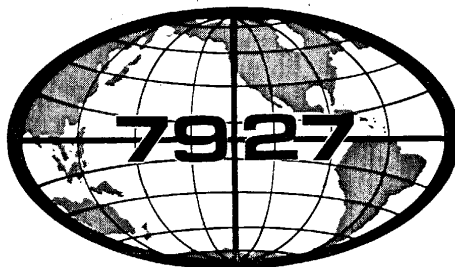


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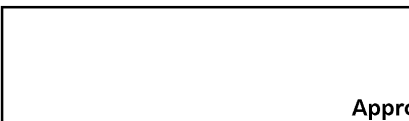
EXECUTIVE PRESENTATION

AUTOMATIC DATA PROCESSING SYSTEM STUDY PHASE I

08 APRIL 1981

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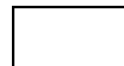
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PURPOSE

- **STUDY DO ADPS REQUIREMENTS**
- **DETERMINE IF SAFE IS COMPATIBLE**
- **PROVIDE PRELIMINARY BUDGETARY ANALYSIS**



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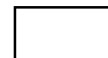
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METHODOLOGY

- REVIEWED DOCUMENTATION
- MET WITH IMS AND ODP PERSONNEL
- OBSERVED DO ADPS
- COMPARED SAFE WITH DO ADPS
- MEASURED AREAS OF OVERLAP

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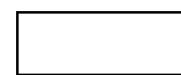
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WHAT IS DO ADPS?

FIELD (GEOGRAPHIC AREAS)		HEADQUARTERS		
		ANALYST PROCESSING		COMPUTER PROCESSING
		FIRST	SECOND	
ELECTRICAL MESSAGES: ● CABLES ● TELEPOUCH		● REVIEW ● EDIT ● INDEX ● ABSTRACT ● FILE	● NEW ● ADD ● REPLACE ● PURGE ● SECURITY	LOADING AND MAINTENANCE ACCESS
HARDCOPY DOCUMENTS: ● DISPATCHES ● EXTRA SENSITIVE DOCUMENTS ● MISCELLANEOUS				



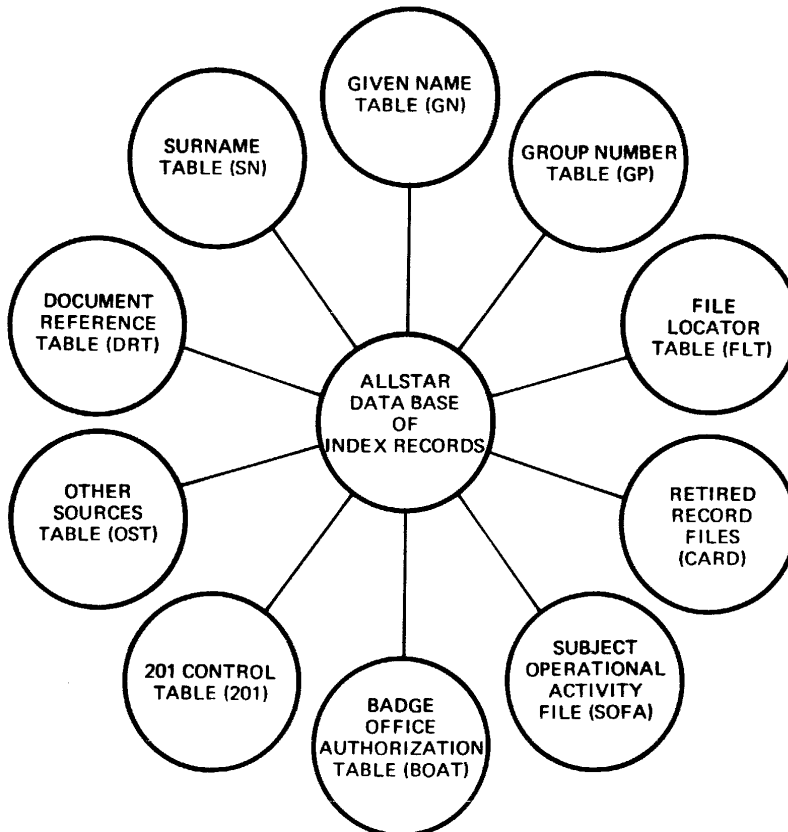
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WHAT IS DO ADPS?



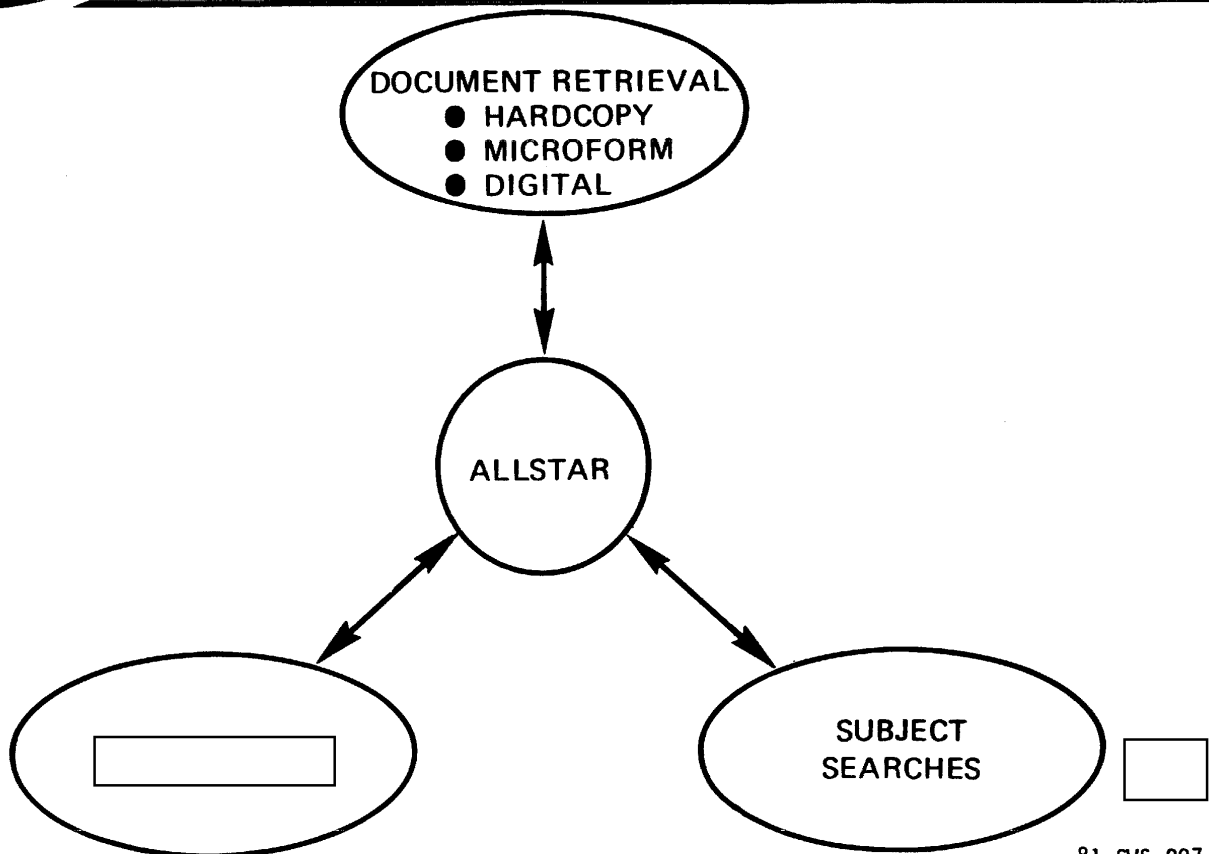
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MAIN USES OF ALLSTAR DATA BASE



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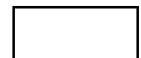
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WHAT IS SAFE?

- SUPPORT TO ANALYST'S FILE ENVIRONMENT (SAFE)
- JOINT CIA (NFAC) AND DIA
-
- MAY 1980 – NOVEMBER 1984
- ELECTRONIC PROCESSING, STORAGE, AND SEARCHING OF INTELLIGENCE DATA
- LATEST INFORMATION TECHNOLOGY
- TOTAL SYSTEMS APPROACH



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WHAT IS SAFE?

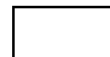
SAFE WILL:

- SPEED DISTRIBUTION
- SUPPORT INTELLIGENCE ANALYSTS
- PROVIDE GATEWAYS
- INCREASE COMMUNICATION AMONG INTELLIGENCE ANALYSTS WORLDWIDE
- REDUCE PAPER-HANDLING
- INCREASE PRODUCTIVITY



SAFE FEATURES:

- ELECTRONIC MAIL
- AUTOMATIC MESSAGE PROCESSING
- ELECTRONIC INDEX AND SEARCH
- ELECTRONIC FILES BUILDING
- MULTI-TERMINAL ON-LINE ACCESS
- ELECTRONIC MAINTENANCE OF PRIVATE AND CENTRAL FILES
- SECURE TELECONFERENCING



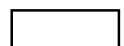
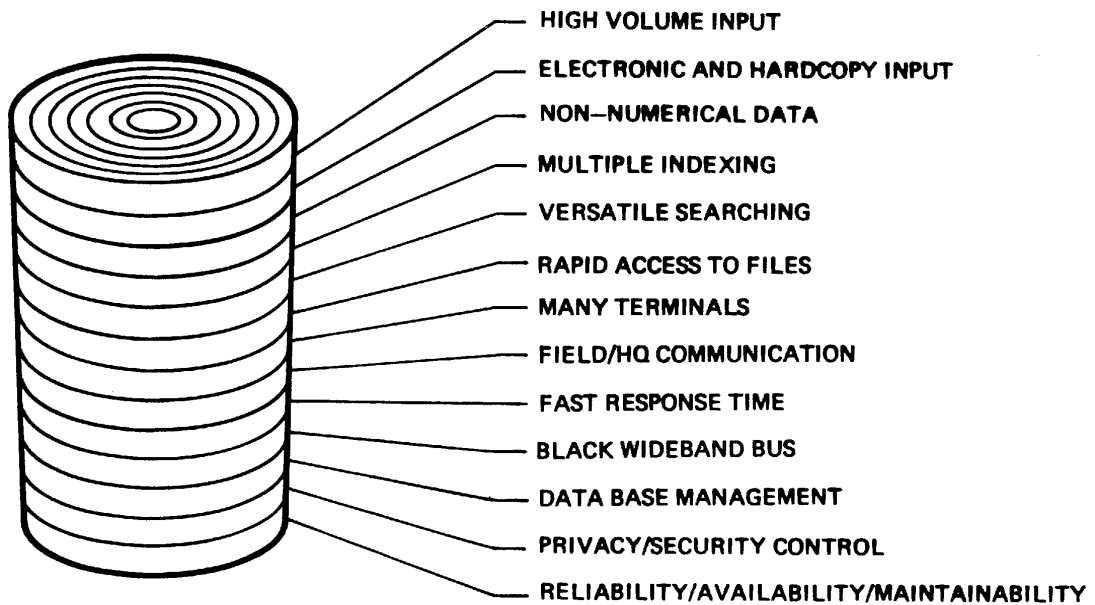
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**SAFE AND DO ADPS HAVE
SIMILAR FUNCTIONAL REQUIREMENTS**



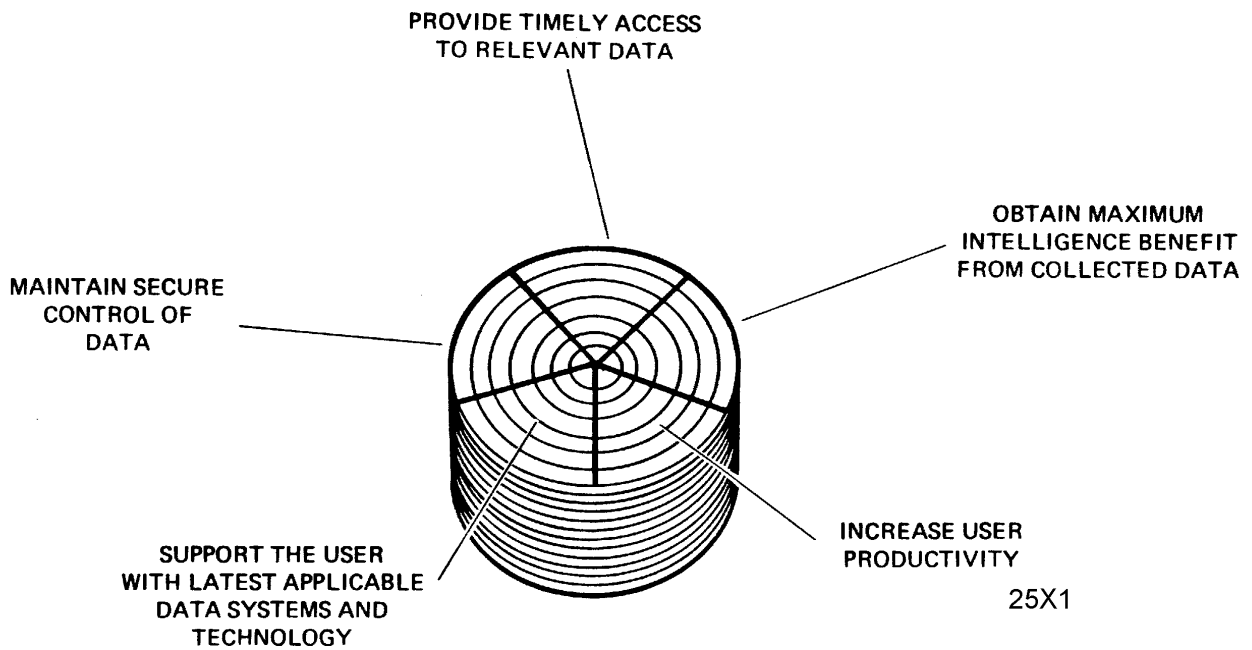
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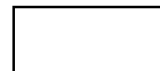
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**SAFE AND DO ADPS SHARE THE SAME
SERVICE GOALS**



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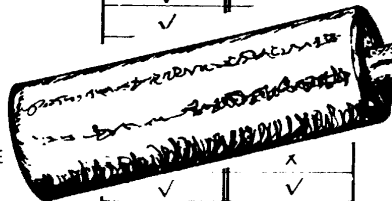
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PRELIMINARY COMPARATIVE ANALYSIS OF SAFE AND ADPS FUNCTIONAL REQUIREMENTS

	DESIGNED IN SAFE	REQUIRED FOR DO		DESIGNED IN SAFE	REQUIRED FOR DO
INPUT DATA			DISSEMINATION		
PRINTED	✓	✓	RO		✓
ELECTRICAL	✓	✓	S		✓
HIGH VOLUME RATE	✓	✓			
ALPHANUMERIC BUT MOSTLY NON-NUMERICAL	✓	✓			
			SEARCHING		
FILES			FREE TEXT	✓	✓
CENTRAL CATALOGS	✓	✓	WORDS AND PHRASES	✓	✓
DISTRIBUTED	✓	✓	PROXIMITY	✓	✓
PRIVATE	✓	✓	DON'T CARES	✓	✓
FREE TEXT	✓	✓	NUMBERS AND RANGES	✓	✓
STRUCTURED	✓	✓	BOOLEAN COMBINATIONS	✓	✓
			NAME TRACES	NO	✓
SOFTWARE			SPELLING VARIATIONS	NO	✓
DBMS					
FILE MAINTENANCE			Gr.		ERRED
SEARCH AND RETRIEVE		X	MICRO.		✓
AUTOMATIC INDEXING	✓	✓			
INTEREST PROFILE	✓	✓			
PROCESSING	✓	✓			
PERFORMANCE MONITORING	✓	✓			
SYSTEM MONITORING	✓	✓			



LEGEND:

✓ SIMILAR CAPABILITY REQUIRED

X REQUIRED, BUT MAYBE DIFFERENT

TBD TO BE DETERMINED

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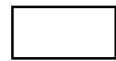


PRELIMINARY COMPARATIVE ANALYSIS OF SAFE AND DO FUNCTIONAL REQUIREMENTS (CONT)

	DESIGNED IN SAFE	REQUIRED FOR DO		DESIGNED IN SAFE	REQUIRED FOR DO
USER INTERFACE			ARCHITECTURE		
TERMINALS (100 OR MORE)	✓	✓	TRI-LEVEL:	✓	TBD
RAPID RESPONSE RATE	✓	X	GLOBAL	✓	X
CONCURRENT ACCESS	✓	✓	USER SUPPORT	✓	TBD
USER LANGUAGE	✓	✓	WORKSTATION	✓	✓
SPLIT SCREEN	✓	✓	HARDWARE		
HUMAN FACTORS	✓	✓	HIGH AVAILABILITY	✓	✓
WORD PROCESSING			PROVEN RELIABILITY	✓	✓
OPTICAL READ (OCR)	✓	✓	COMMUNICATIONS		
COMPOSE	✓	✓	BLACK WIDEBAND COMMUNICATIONS	✓	✓
EDIT	✓	✓	CABLE TV TECHNOLOGY	✓	✓
PRINT	✓	✓	BUS AND PROCESSOR	✓	✓
STORE	✓	✓	INTERFACE UNITS	✓	✓
REPORT PRODUCTION	✓	✓	BIDIRECTIONAL	✓	✓
SECURITY			ROOM FOR TERMINAL GROWTH	✓	✓
SOFTWARE CONTROL	✓	✓	MESSAGE SWITCHING	✓	✓
AUDIT TRAILS	✓	✓	GATEWAYS TO OTHER SYSTEMS	✓	X
COMPARTMENTATION	✓	X	AND NETWORKS	✓	
MONITORING	✓	✓	CABLE DISSEMINATION	✓	✓
END-TO-END ENCRYPTION	✓	✓	INTERFACE (CDS)	25X1 ✓	✓
TEMPEST-QUALIFIED					
REMOTE DEVICES	✓	✓			

LEGEND:

- ✓ SIMILAR CAPABILITY REQUIRED
- X REQUIRED, BUT MAYBE DIFFERENT

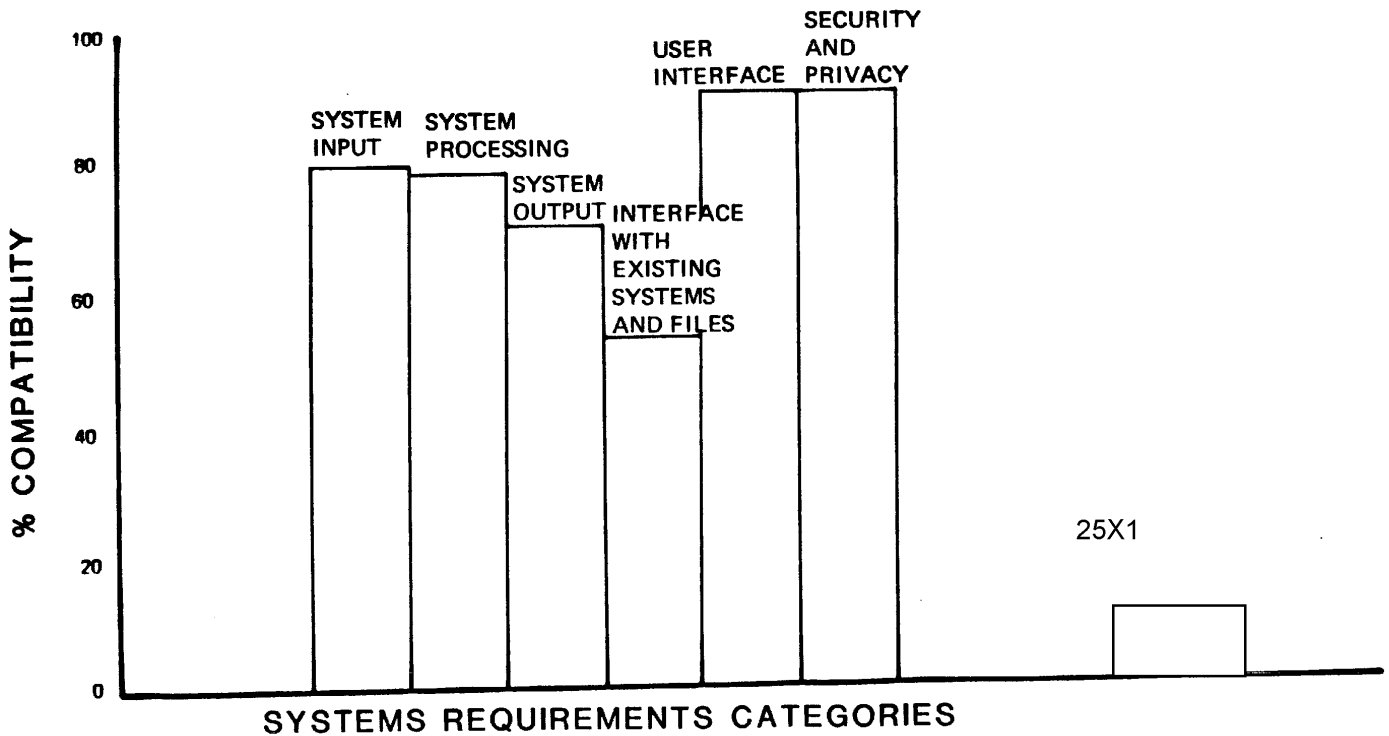


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HOW COMPATIBLE IS DO ADPS WITH SAFE?



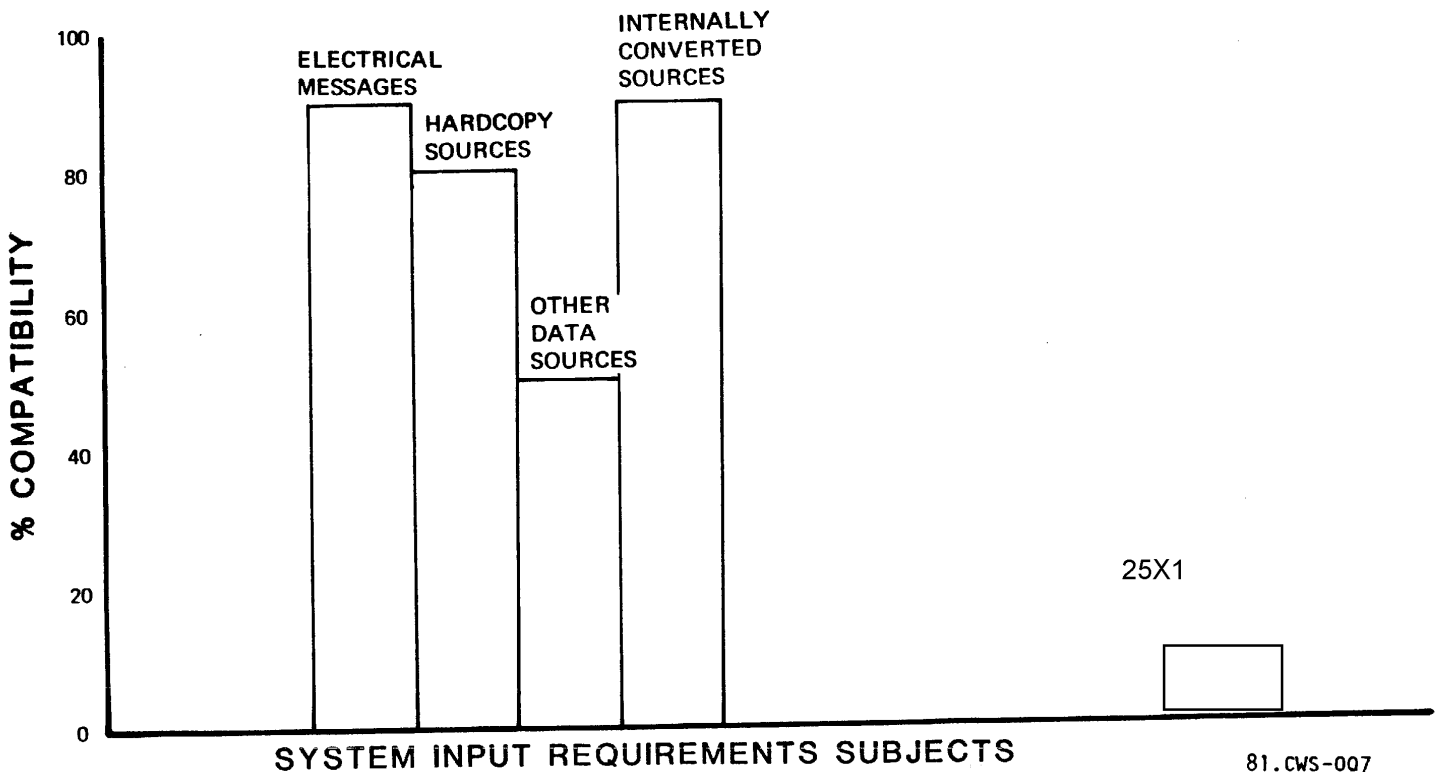
SYSTEMS REQUIREMENTS CATEGORIES

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SAFE % COMPATIBILITY FOR SYSTEM INPUT



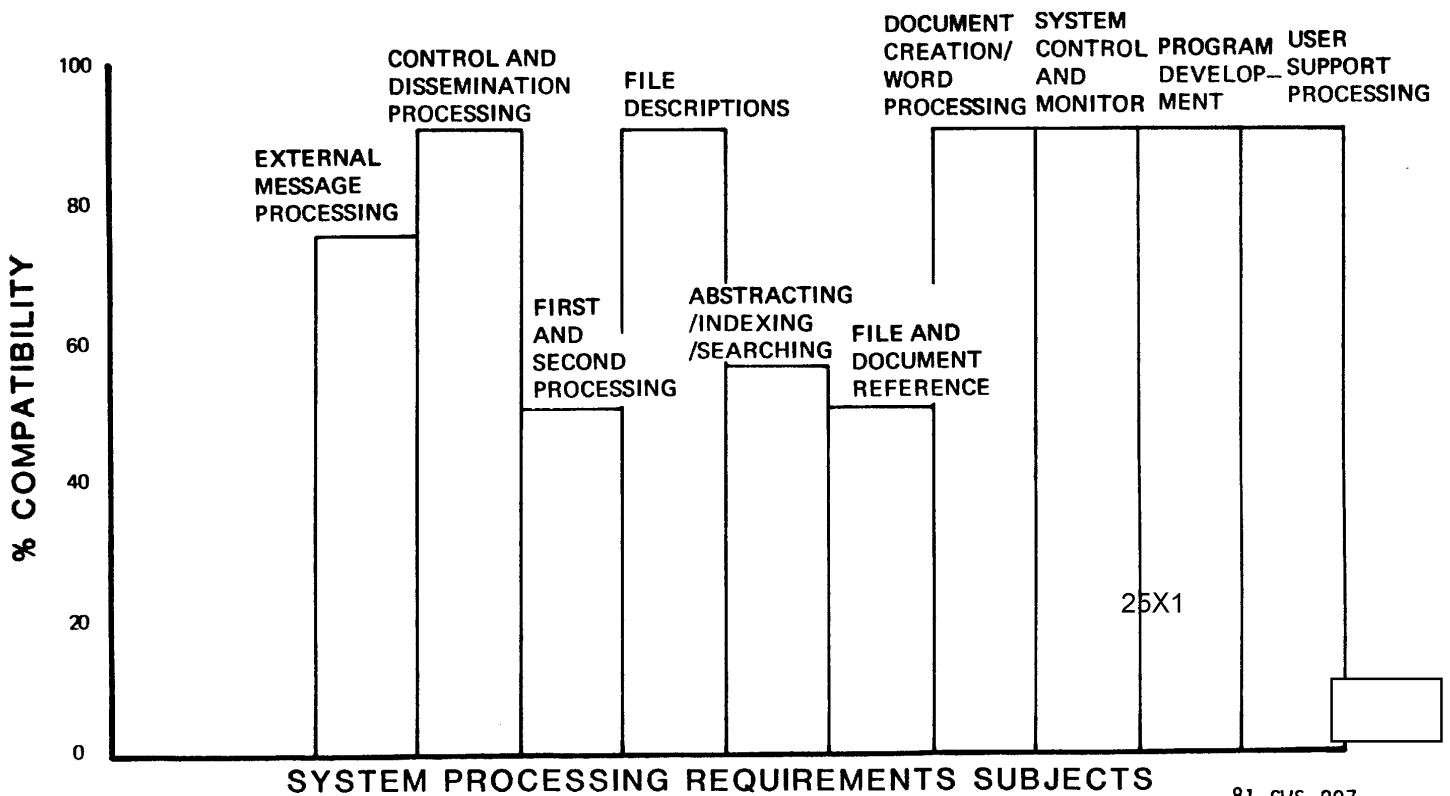
SYSTEM INPUT REQUIREMENTS SUBJECTS

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SAFE % COMPATIBILITY FOR SYSTEM PROCESSING



SYSTEM PROCESSING REQUIREMENTS SUBJECTS

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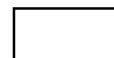
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COST VARIABLES

PROGRAMMATIC	NOMINAL TRACK?	FASTER TRACK?	
HARDWARE	IBM?	BURROUGHS?	BOTH?
PERSONNEL	IN-HOUSE?	CONTRACT?	
EXISTING ADPS PACKAGES	USE AS IS?	MODIFY?	
SAFE TRANSPORTABILITY	% SYSTEM DESIGN?	% SOFTWARE?	% EQUIPMENT

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ASSUMED GFE/GFI FOR BUDGETARY ANALYSIS

- "RED" IBM PROCESSOR WITH ALLSTAR SYSTEM
- BLACK WIDEBAND COMMUNICATIONS SYSTEM
- TERMINALS
- COMET II SYSTEM
- RECORDS MANAGEMENT SYSTEM
- AIMS ELECTRONIC MAIL
- CAMS 2 (DBMS)
- SAFE

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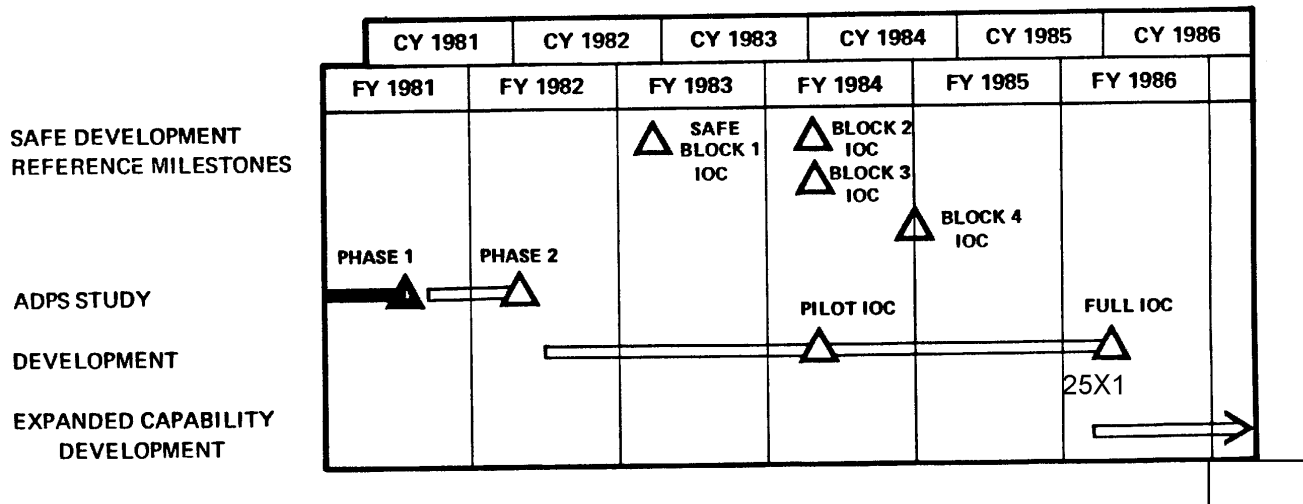


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BASELINE PROGRAM SCHEDULE



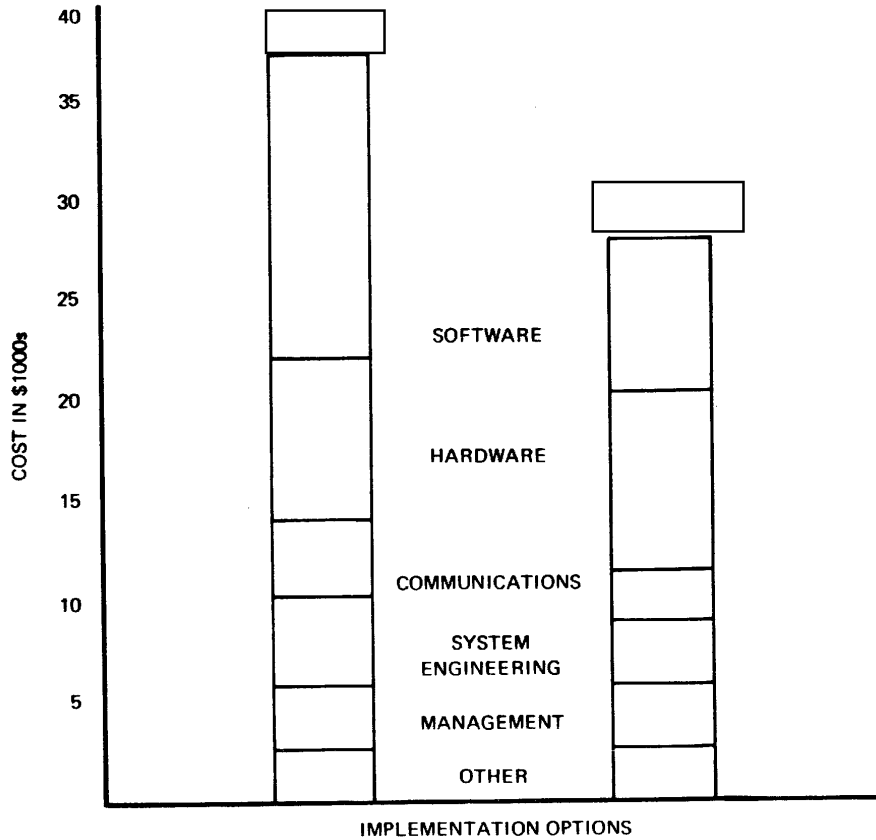
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BUDGETARY COST SUMMARY

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IMPLEMENTATION OPTIONS

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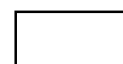
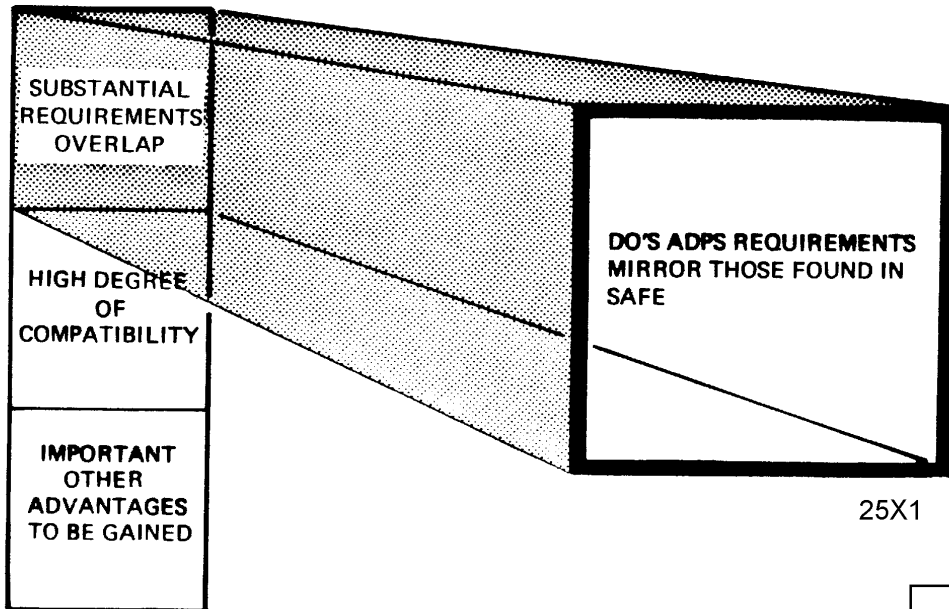
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PHASE I CONCLUSIONS

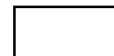
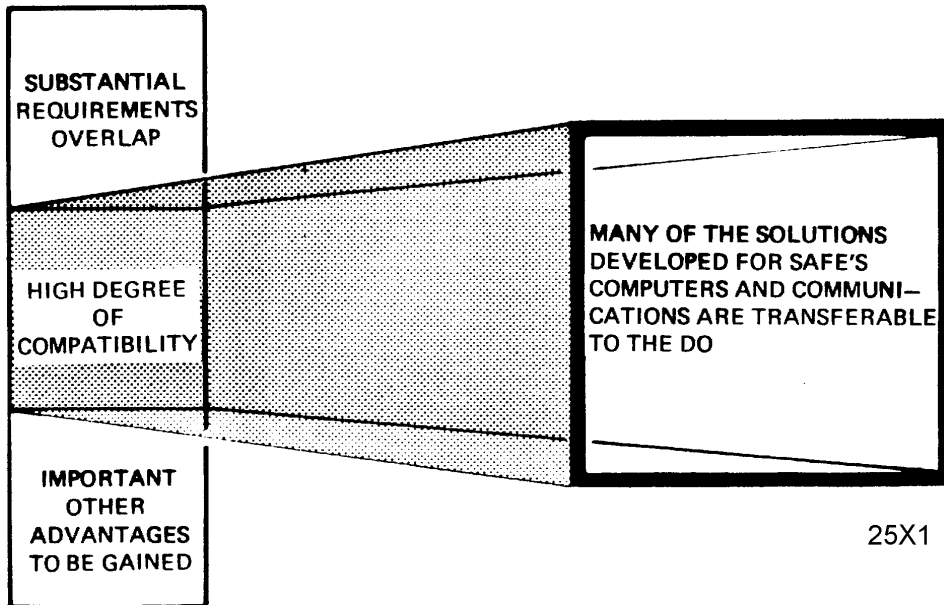


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PHASE I CONCLUSIONS

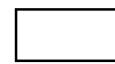
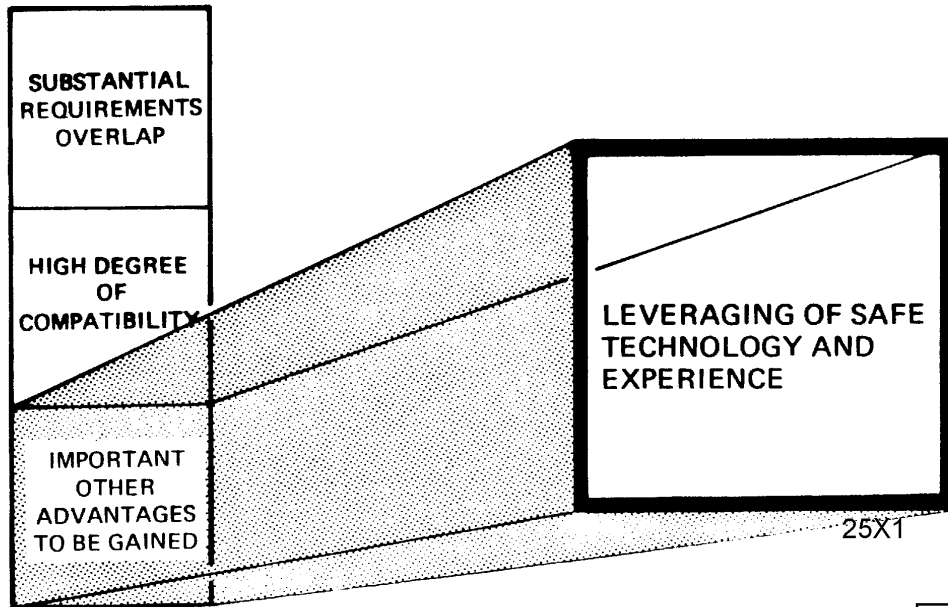


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PHASE I CONCLUSIONS



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IN SUMMARY

- SUBSTANTIAL REQUIREMENTS OVERLAP
- HIGH DEGREE OF COMPATIBILITY
- OPPORTUNITY TO LEVERAGE SAFE FOR DO BENEFIT
- PHASE II IS RECOMMENDED

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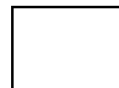
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AUTOMATIC DATA PROCESSING SYSTEM

PROPOSED STUDY PHASE II

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MAJOR TASKS

- STUDY PHASE I
 - REQUIREMENTS
 - COMPATIBILITY
 - BUDGETARY ANALYSIS

- STUDY PHASE II
 - ARCHITECTURE
 - IMPLEMENTATION PLAN

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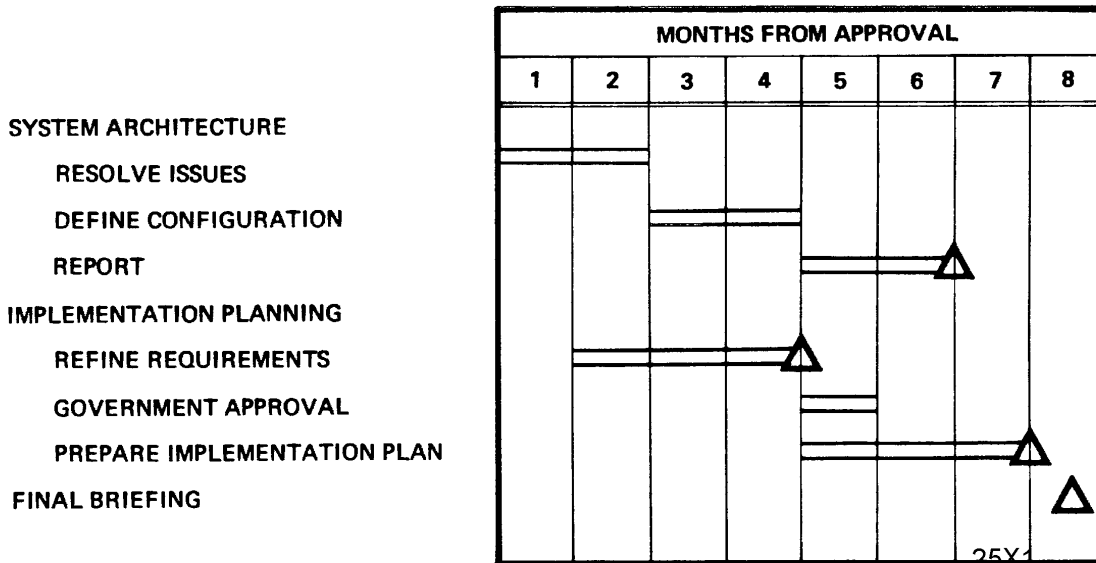


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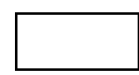
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PHASE II-SCHEDULE



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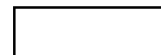
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HARDWARE AREAS OF SPECIAL INTEREST

- IBM AND/OR BURROUGHS
 - SOFTWARE TRANSPORTABILITY
 - OPERATIONS AND MAINTENANCE
- TERMINALS
 - IBM
 - DELTA DATA
 - WANG

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DEVELOPMENTAL AREAS OF SPECIAL INTEREST

- INTEGRATION OF DEVELOPMENT SYSTEMS
- DATA BASE
 - CONVERSION
 - CENTRALIZATION
- FACILITIES
- SECURITY IMPLEMENTATION
- UNINTERRUPTED OPERATIONAL CUTOVER
- CRYPTO LEAD TIME

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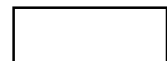
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THE DO ADPS CONCEPTS

- TOTAL SYSTEM APPROACH
- INCORPORATE BEST FEATURES
 - EXISTING DO SYSTEMS
 - DEVELOPMENT DO SYSTEMS
 - SAFE
 - OTHER
- INCREASE EFFICIENCY AND PRODUCTIVITY
 - ACCURACY
 - CONTROL
 - SECURITY
 - RESPONSE
 - FLEXIBILITY
- PROVIDE FRAMEWORK FOR GROWTH

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