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**FBIS MODERNIZATION:
KEY MOTIVATORS**

TRW

- **IMPROVE PRODUCT QUALITY AND TIMELINESS**
- **INCREASE PRODUCTION/PRODUCTIVITY (OUTPUT PER CAPITA)**
- **REPLACE OBSOLETE SYSTEMS AND EQUIPMENT**
- **REDUCE OPERATING COSTS**

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**FBIS MODERNIZATION:
APPLICABLE TECHNOLOGIES**

TRW

- ELECTRONIC PUBLISHING
- DATA BASE MANAGEMENT
- COMMUNICATIONS
- SIGNAL INTELLIGENCE

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**FBIS MODERNIZATION:
FUNCTIONAL CANDIDATES**

TRW

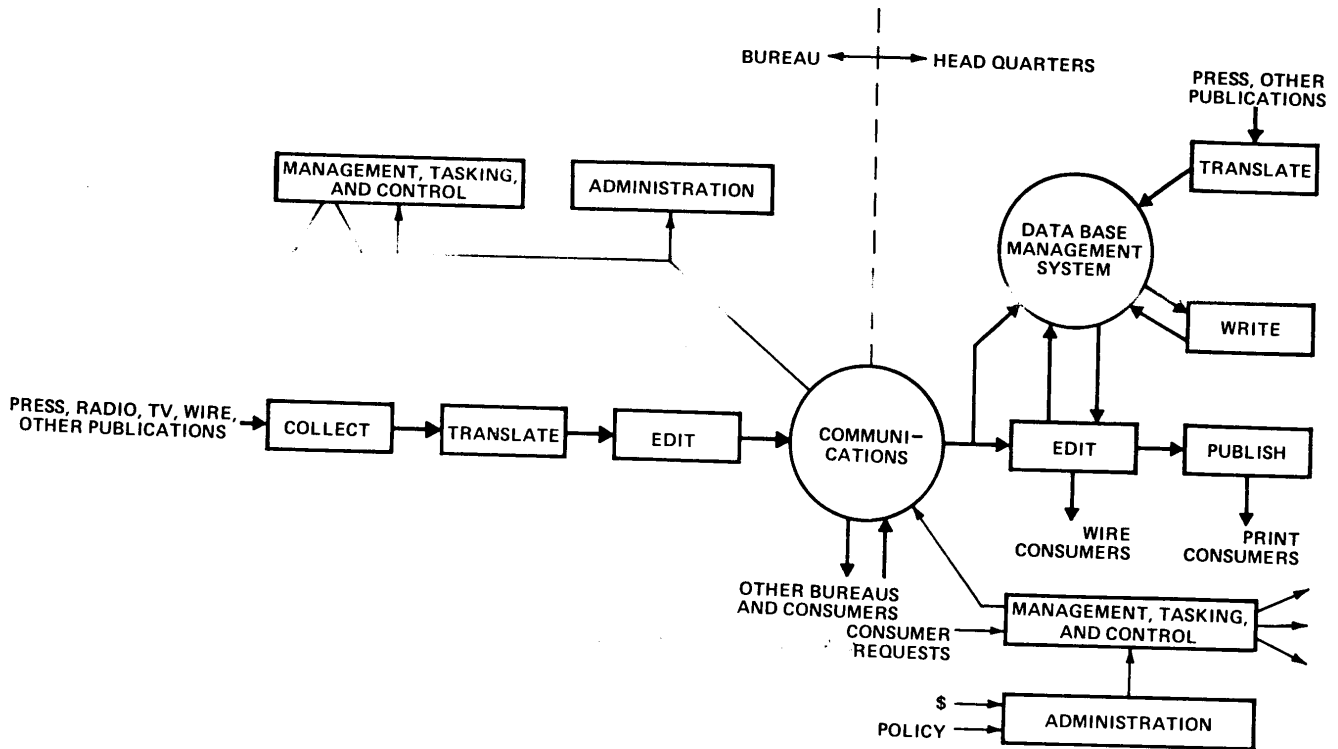
- COLLECTION
- TRANSLATION
- WRITING AND EDITING
- COMMUNICATIONS
- PUBLISHING (COMPOSE AND PRINT)
- DATA BASE MANAGEMENT
- MANAGEMENT, TASKING AND CONTROL
- ADMINISTRATION

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FBIS MODERNIZATION FUNCTIONAL FLOW



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**FBIS MODERNIZATION:
UPGRADE PRIORITIES**

TRW

- **MODERNIZE TRANSLATION, WRITING AND EDITING**
 - LOW RISK
 - IMMEDIATE IMPACT ON PRODUCTIVITY
 - EXPOSES ALL USERS TO ELECTRONIC TEXT HANDLING
 - CAN BE APPLIED IN PARALLEL TO BUREAUS AND HEADQUARTERS
 - OTHER FUNCTIONS FOLLOW NATURALLY
- **MODERNIZE DATA BASE MANAGEMENT**
 - NEED TO BEGIN LONG-TERM DATA ACCUMULATION AND CONVERSION OF EXISTING PAPER FILES TO ELECTRONIC FORM
 - SERVES AS FUNCTIONAL COMMUNICATION WITHIN FBIS
 - HIGHEST TECHNOLOGY WITHIN PROGRAM
- **MODERNIZE REMAINING FUNCTIONS**
 - MODULAR, SITE-BY-SITE TRANSITION
 - MANAGE TECHNOLOGY TRANSFER ON ESTABLISHED FOUNDATION
 - ORDERLY SITE PREPARATION

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**FBIS MODERNIZATION
RISKS AND DEFICIENCIES**

TRW

- INTEGRATION OF OFF-THE-SHELF SUBSYSTEMS
- LONG TERM TECHNOLOGY SUPPORT BY VENDORS
- SUITABILITY OF DESIGN FOR INTENDED USE
- TRANSITION TO NEW SYSTEMS (TECHNOLOGY TRANSFER)
- ELECTRONIC CAPTURE OF EXISTING FILES
- DATA BASE SEARCH PERFORMANCE VS EXPECTATIONS
- ADEQUACY OF MULTILINGUAL TECHNOLOGY

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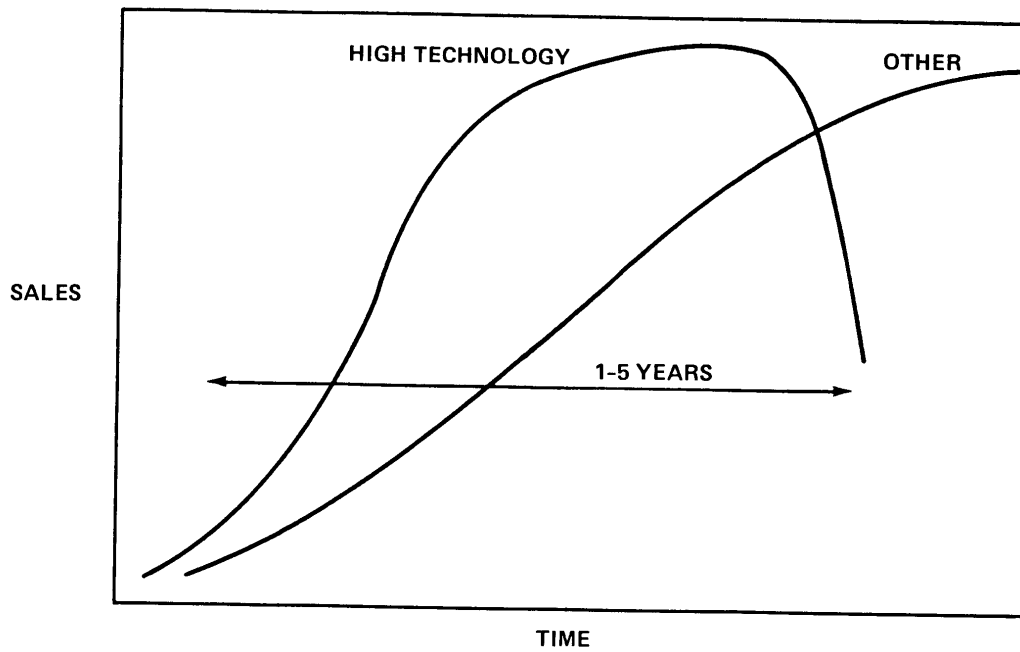
FBIS MODERNIZATION
ESL'S STRATEGY TO REDUCE RISKS

TRW

- **MAKE VENDOR TO VENDOR INTERFACES A KEY EVALUATION CRITERION**
- **WORK WITH VENDORS TO ASSESS TECHNOLOGY FUTURES**
- **SURVEY FBIS AND OTHER USERS TO OPTIMIZE DESIGN SUITABILITY, ESPECIALLY FOR MAN/MACHINE ISSUES, DBMS PERFORMANCE, AND MULTILINGUAL SUPPORT**
- **EMPHASIZE PLANNED TRANSITION AND PREINSTALLATION STAGING DURING ACQUISITION PHASE**
- **PRE-RFP INVESTIGATION OF HARD COPY ELECTRONIC ACQUISITION TECHNOLOGY**

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**FBIS MODERNIZATION:
TECHNOLOGY/PRODUCT LIFETIME**

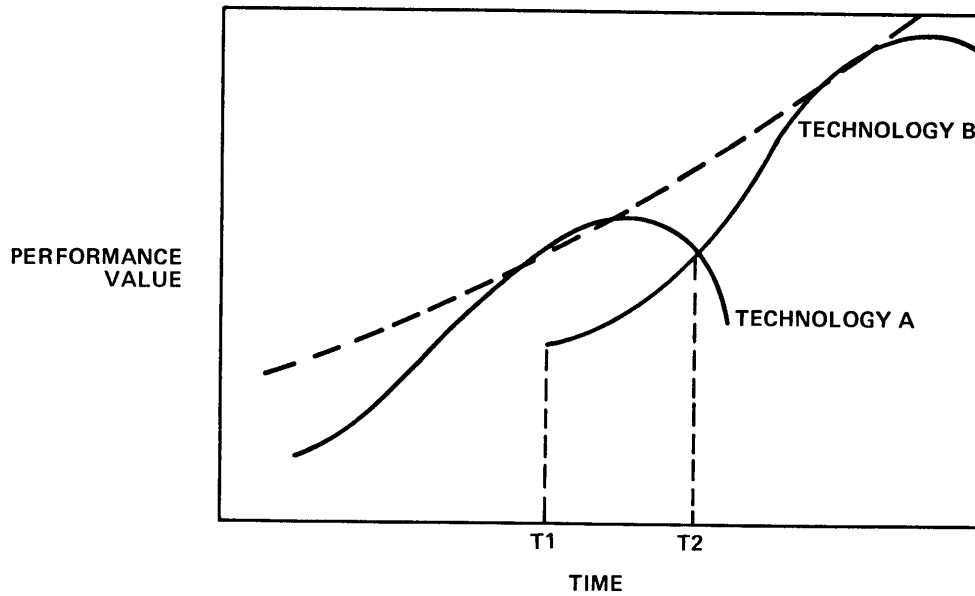


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**FBIS MODERNIZATION:
TECHNOLOGY REPLACEMENT MODEL**



- PREDICT TECHNOLOGY B BY T1
- T2 IS TOO LATE

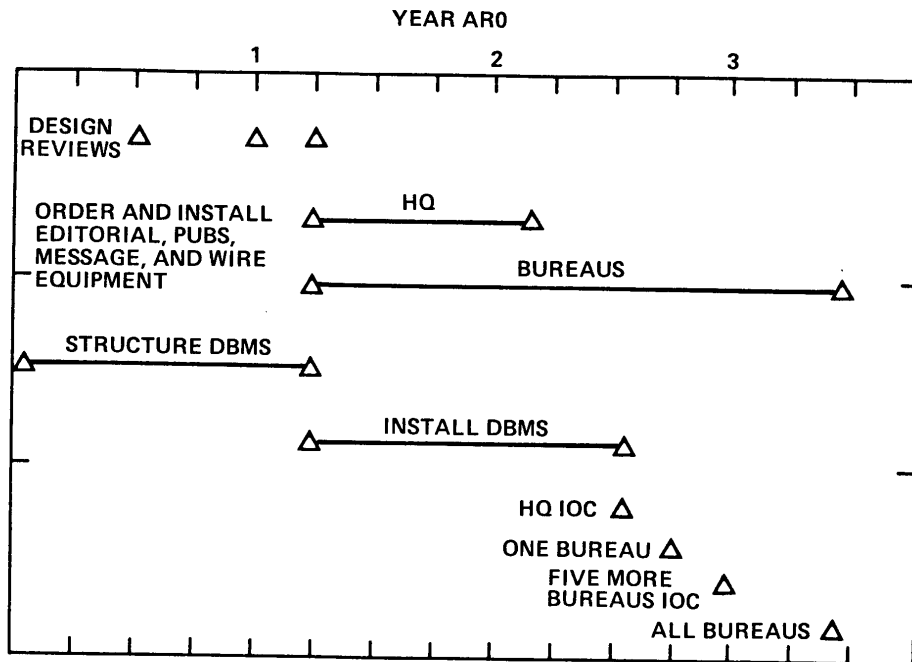


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**FBIS MODERNIZATION:
SCHEDULE**



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**FBIS MODERNIZATION:
PRE-RFP RECOMMENDATIONS**

TRW

- **FOR FBIS**
 - **REFINE "OFF THE SHELF" PHILOSOPHY TO ADD MINIMUM SUPPORTABLE LIFE SPAN REQUIREMENT**
 - **REACH CONSENSUS ON MOST EFFECTIVE MODERNIZATION SEQUENCE AND SCHEDULE FROM OPERATIONAL VIEW**
 - **FIRM UP INTERFACE DEFINITIONS**
 - **DEVELOP QUANTITATIVE PERFORMANCE CRITERIA**
 - **REFINE MULTILINGUAL REQUIREMENTS TO FIRM UP COSTS**