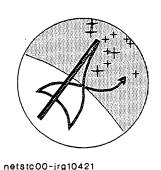
N92-12498



Johnson Space Center

Information Systems Directorate

Networking at JSC



"Networking as a Strategic Tool"

Conference

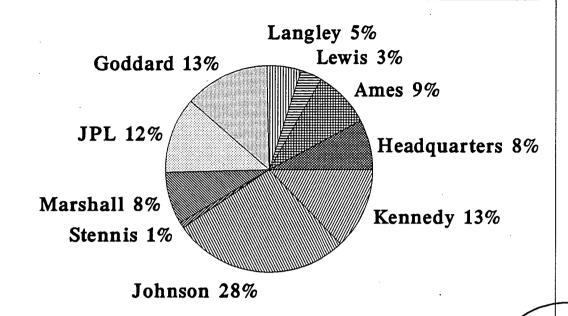
John R. Garman April 30, 1991

Presentation Outline

- JSC Network Perspectives
- IRM Approach at JSC
- The Information Systems
 Directorate
- Approach to JSC Networking Growth and Consolidation

netstc01-jrg10421

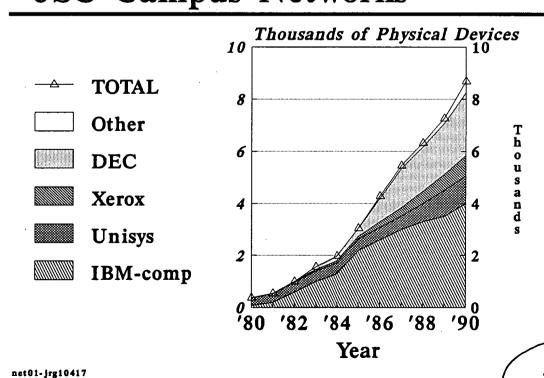
NASA IRM Budget by Center

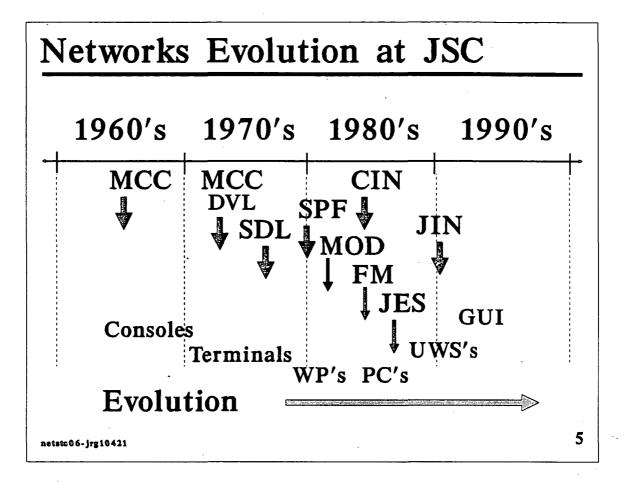


itsp01-jrg10421

Source: GSA Report based on FY89 ITSP

JSC Campus Networks



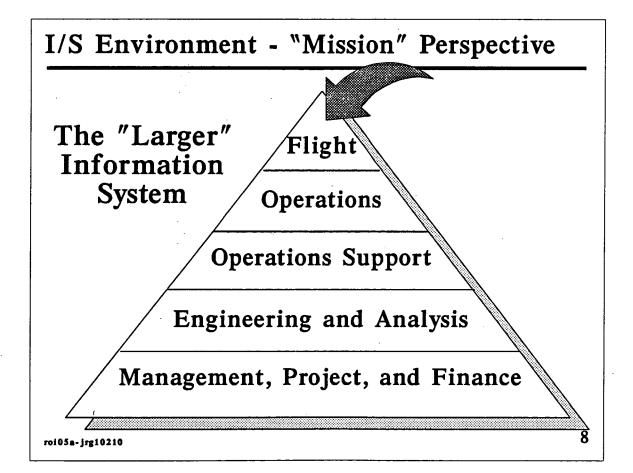


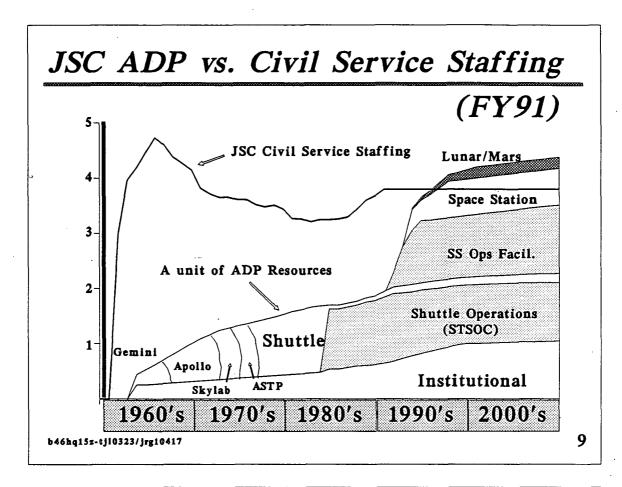
1960's	1970's	1980's	1990's
Hosts and "Cards"	Hosts and Terminals	Micros and Networks	Networks as the Utility
"Batch"	"Inter- active"	"Shared"	"Distributed

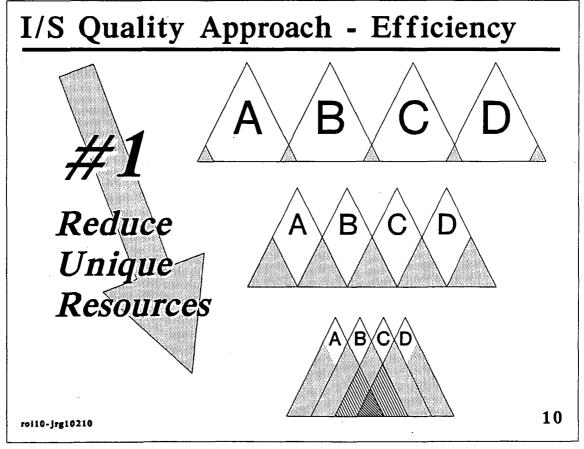
Networking as a Strategic Tool

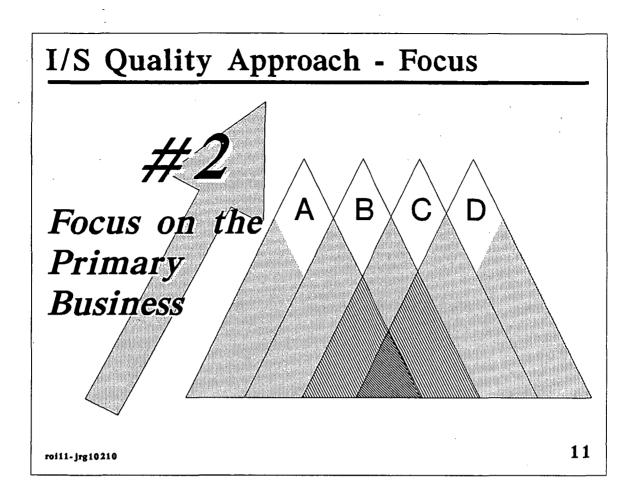
- Since the 1960's, computing power has been shifting from centralized hosts to distributed environments
- Networks are a strategic tool for distributed computing platforms
- Strategic planning is necessary to insert the technology, and increase reliability and availability of networks

netstc02-jrg10417

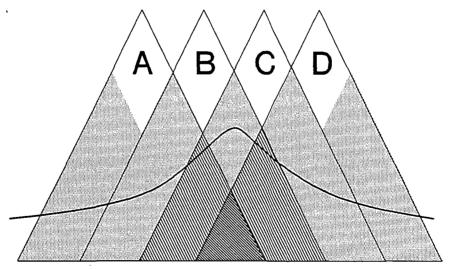






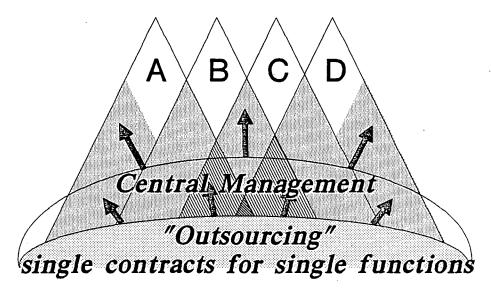


I/S Quality Approach - Commonality



roil1a-jrg10210

I/S Management/Contract Evolution

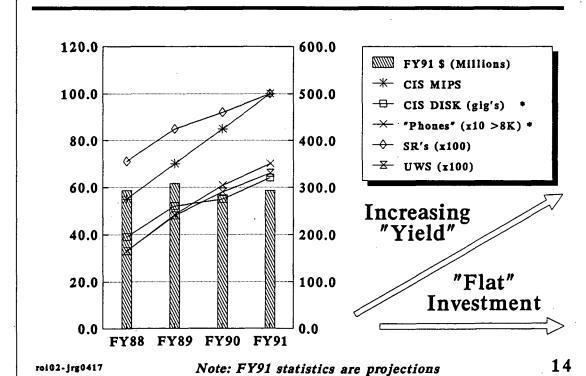


Platform Services

roi12-jrg10210

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ISD "Return-on-Investment"



Information Systems Directorate "Charter"

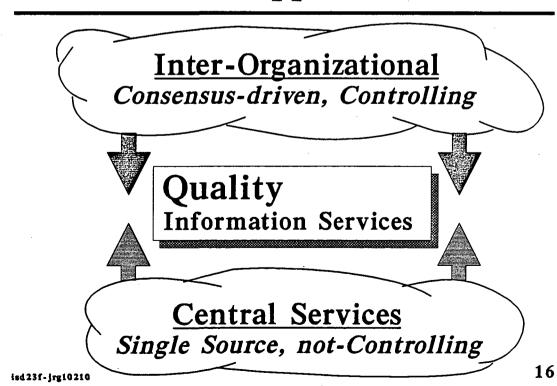
"ISD is established to lead and support the IRM Council in the establishment of Centerwide standards and policies for information services and to consolidate, in time, all institutional information services under a single JSC organizational structure".

Aaron Cohen
Director, Johnson Space Center
JSC Announcement 90-062
March 30, 1990

isd 25-jrg 10210

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General IRM Approach for JSC



JSC Networking Challenges

- Proliferation and Autonomy
- Rapid and continuing growth
- Acquisition Risks in Standards
- ADP security
 - unknown vulnerabilities
 - no ranked services
- Budget

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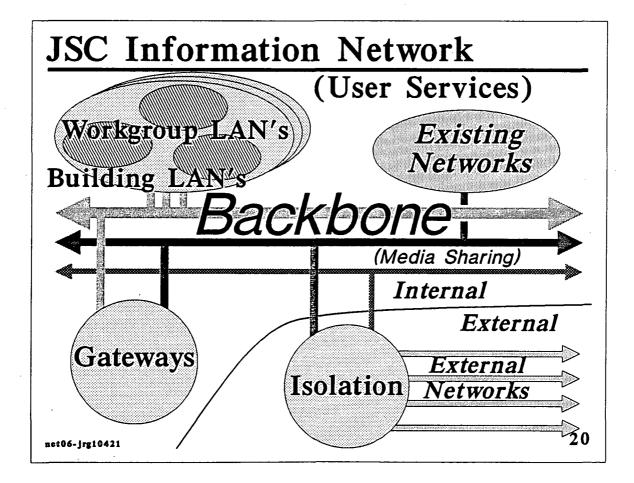
JSC Network Requirements Functions

- Distributed Processing
- Growth
- Heterogeneous
- Security
- Management

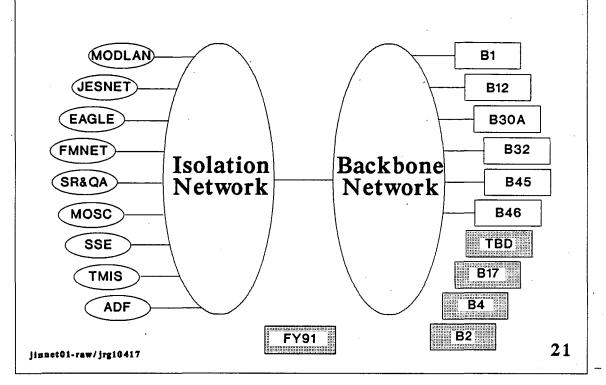
JSC Network Requirements Results

- A full range of network services on an institutional platform
- Open (authorized) access
- Focal point for outside interfaces
- Consolidation and integration of resources at JSC

netstc08-jrg10421 jsnp03-0204jmc



JSC Information Network Status



CONCLUSION

- Networks have evolved and proliferated rapidly in the industry
- JSC is undergoing fundamental changes (Multi-programs in particular)
- Networkings is the foundation of the next major evolution in I/T strategies (Consolidation via distributed processing)
- Network Technology isn't up to the task yet! (standards, products, speed)

The End

of the briefing.....

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