

N91-27023

**USING HST:
"From Proposal To Science"**

**P. SHAMES
13 FEB 91**

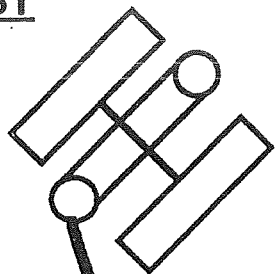
A SHORT HISTORY:

- **Use Of Modems Denied, 1982**
- **Astronet Project, 1985**
- **Internet Link @ 56Kb, 1986**
(NOAO & NRAO Supported @ 9.6Kb)
- **SPAN Link @ 9.6Kb, 1986**
- **Dual Protocol Proteon, 1989 @ 56Kb**
- **T1 Link, 1991**

USES OF NETWORKS @ STSCII

- **General Communication**
 - **National & International User Community**
 - **All Protocols (Bitnet, Internet, Decnet, X.25)**
- **Science Collaboration**
- **Functional Activities**
 - **Distributed Development (TRW & ST-ECF)**
 - **Proposal Submission**
- **Internal Data Management**
 - **Heterogeneous Environment**
 - **Science & Operational Uses**
- **External Data Access**
 - **Remote Catalog Access DMF**
 - [-- **ADS Integration]**
 - [-- **DADS Futures]**

HST



POCC

SOGS

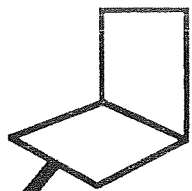
Sci Systems

NSI

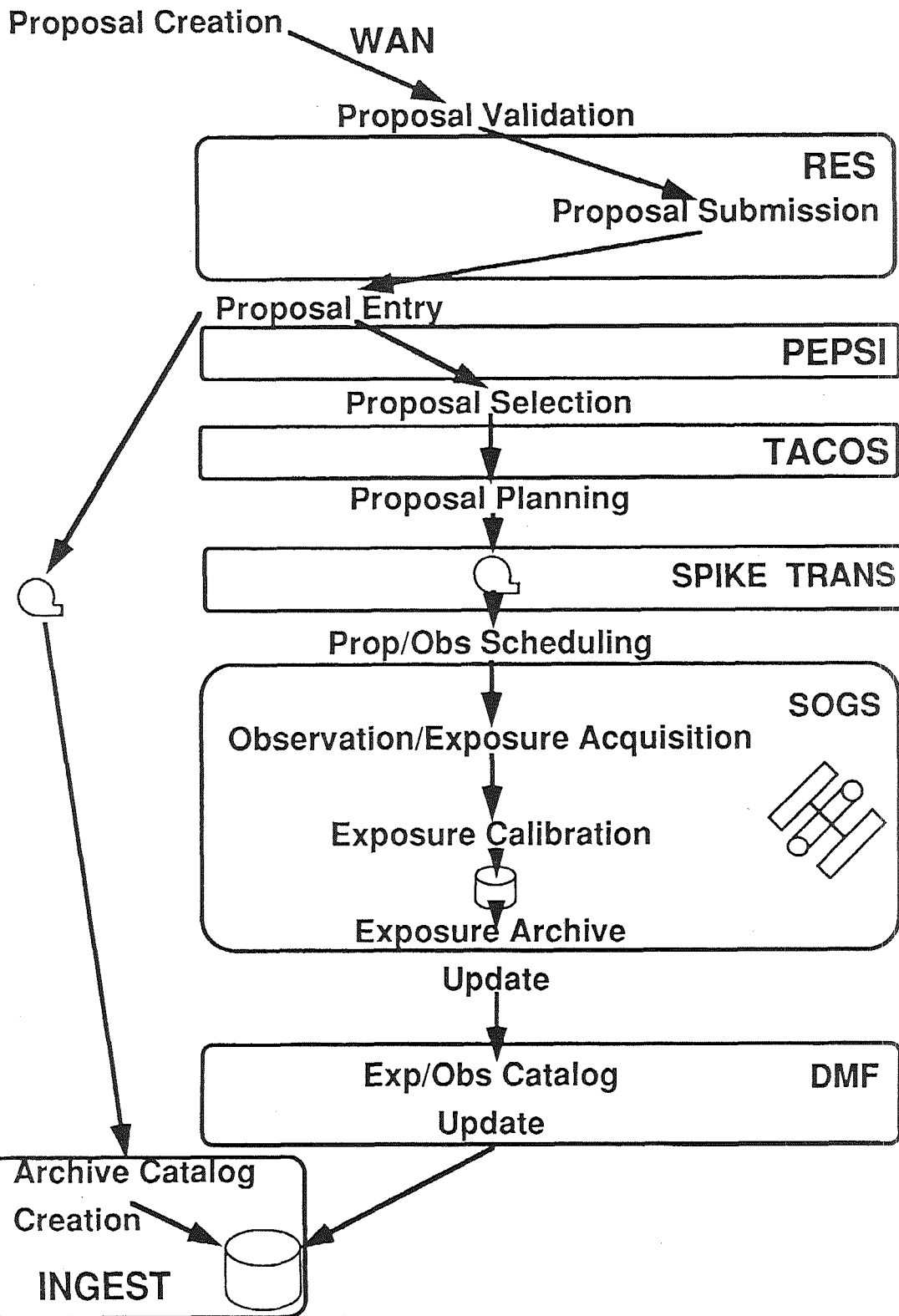
NSF

International Networks

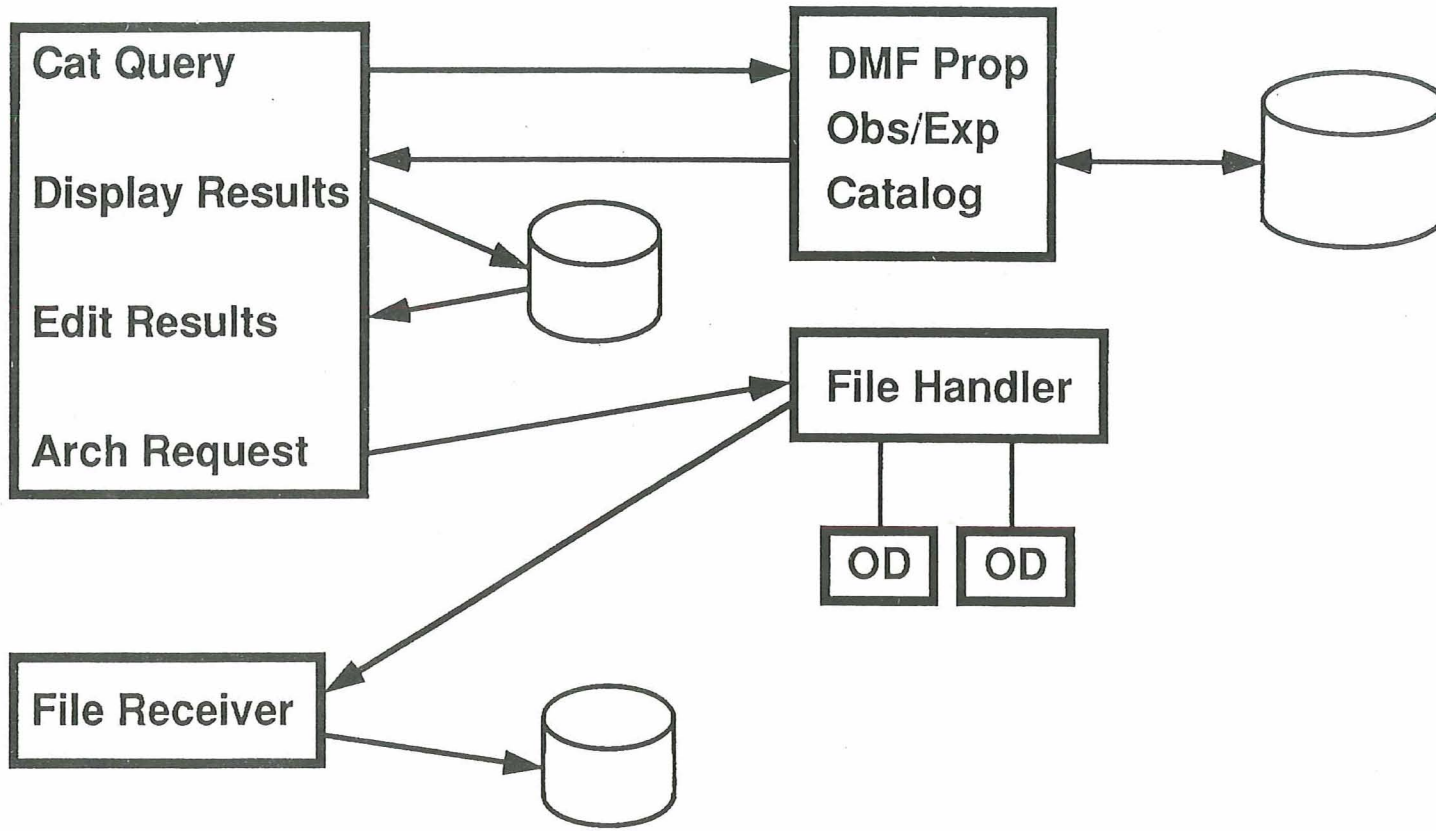
USERS



Proposal/Observation Handling



DMF ACCESS



FUTURE USES

Catalog Browse

- Direct access
- Via ADS

Archive Browse

- Via ADS
- DADS

Multidisciplinary Analyses

- Different wavelengths
- Different data types

REQUIREMENTS

Modest Bandwidth

(56Kb)

High Bandwidth

(T1, TB)

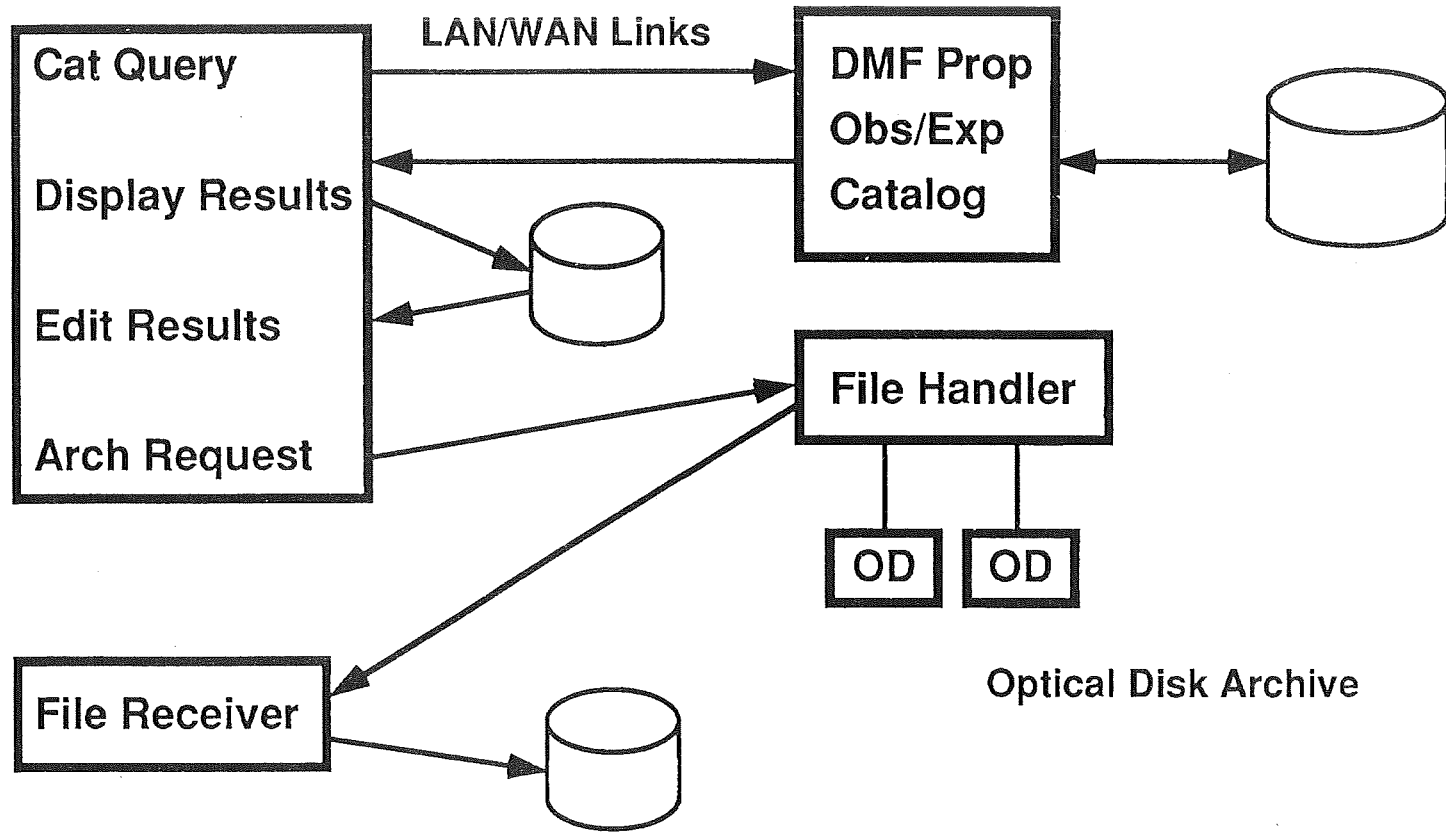
Image Compression

Common Protocols &

Interfaces

Data Interchange Standards

DMF ACCESS



Expectation: ADS & NREN functionality will be crucial to success of these systems