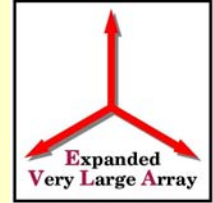




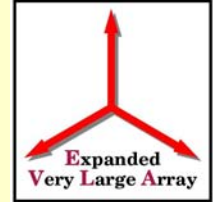
# EVLA Archive



- The EVLA Archive is the E2E Archive
- Will include data from :
  - VLA bulk data, 1976 - future
  - Continuous VLBA data
  - GBT data, 2004 – future
  - EVLA data
    - ALMA connection



# EVLA Archive



- E2E archive design/prototype – Fall 2001
- Phase 1 operational today :
  - All VLA science data 1976 – current
  - VLBA science data 2002 – current
  - Small amount GBT science data
  - EVLA monitor data – current
  - User downloads : 350 users, 8000 files,
  - 500 Gbytes public, 400 Gbytes proprietary



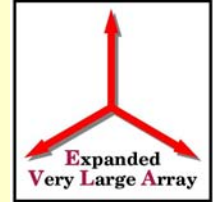
# EVLA Archive



- E2E Archive - Phase 1 Goals :
  - Scientific prototype, encourage imaginative data mining
  - Make all metadata available in catalog - EVLA
  - By experimentation determine technology limits for large archives
  - Support a useful monitor data archive during EVLA construction.



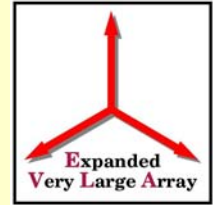
# EVLA Archive



- Phase 1 Archive Technology
  - User Interfaces – Query Tools :
    - Web browser forms pages
    - Simple Python scripts
  - User Interfaces – Displays :
    - Web browser – html
    - Comma Separated Variable text tables
    - XML tables (VO)
    - Graphical plotter, VO tbl inputs, applet



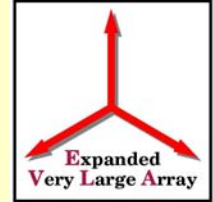
# EVLA Archive



- Phase 1 Archive Technology
  - JAVA servlet JDBC connection to db catalog
  - Apache Tomcat web server
  - Catalog tables Oracle 9 on PC Linux
  - 12 Terabytes disk array for bulk data
  - Assorted cgi C programs



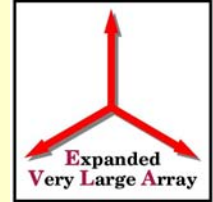
# EVLA Archive



- E2E Archive for EVLA
  - Phase 1 Archive designed for EVLA :
    - Mainly WIDAR correlator channelization
    - EVLA, NMA, VLBA combination
    - EVLA monitor data :
      - currently archived in daily Oracle tables,
      - accessible via web tool,
      - display in browser tables, cvs tables, graphical plotter
      - Demo'd to engineers, techs



# EVLA Archive



- Future Topics
  - EVLA data storage format
    - Near ALMA Data Export Format
  - Pipeline interfaces
  - Operating at WIDAR data rates
  - Storage media
  - Storing the ‘other’ information
  - Other archive technologies