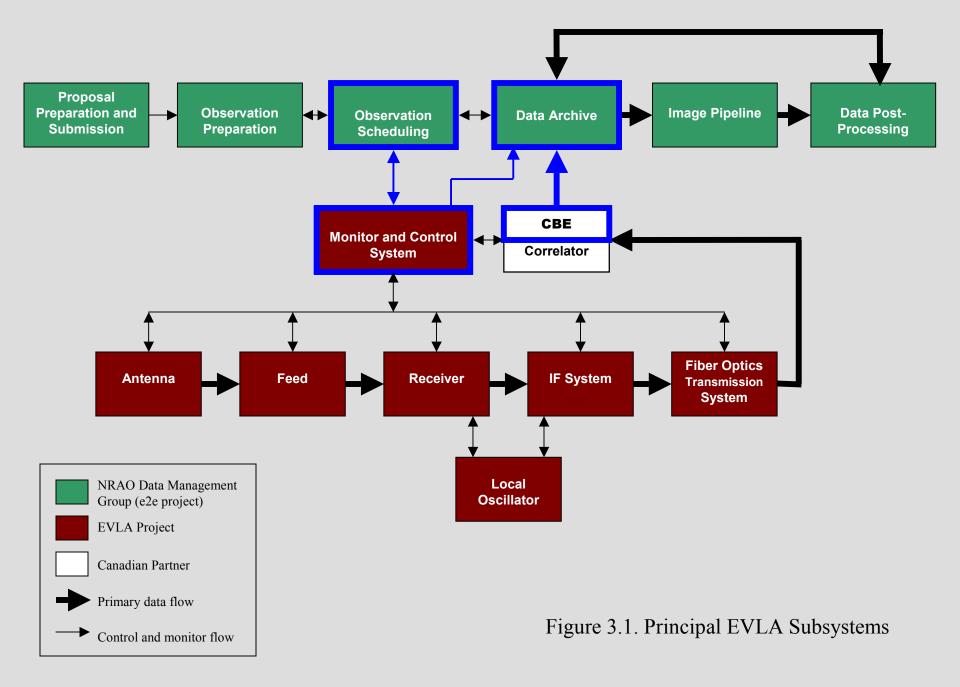


Overall Data Processing Architecture

EVLA timeline and priorities





EVLA Schedule

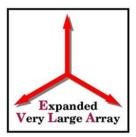
(Calendar years)



•	Start installation of fiber optics cables on Y	Q4 2002
•	Prototype EVLA system lab integration and test	Q1 2003
•	Install prototype EVLA system on EVLA Test Antenna	Q2 2003
٠	Subsystem CDRs	Q4 2003
٠	Start EVLA electronics production	Q4 2003
٠	Start retrofitting 7 antennas/year with new system	Q2 2004
٠	Start observing in "transition" mode	Q2 2004
•	Test of prototype correlator on 3 or 4 antennas	Q4 2005
٠	Start outfitting new correlator room	Q2 2006
٠	Start tests of first correlator subset at VLA	Q4 2006
٠	First "shared-risk" science with new correlator subset	Q2 2007
٠	Last antenna retrofitted to EVLA design	Q1 2008
٠	New correlator declared "operational"	Q1 2009
٠	Last EVLA receiver installed	Q1 2010



Interfaces e₂e – EVLA M&C



- Correlator (Backend) \rightarrow Archive
- M&C System \rightarrow Archive
- Observation scheduling ←→ M & C System
- Pipeline and Post-processing



Correlator \rightarrow Archive

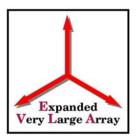


Paced by correlator development

- Q1 2009 New correlator operational required
- Q2 2007 First science with new correlator subset
 - highly desirable
- Q4 2006 Start test first correlator subset at VLA desirable
- Q4 2005 Test correlator prototype desirable



M&C System \rightarrow Archive



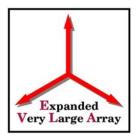
- Archive (and retrieve) monitor data
- Paced by antenna upgrades

Q2 2004 Start observing in transition mode – required

- Q2 2003 Prototype system on EVLA test antenna – highly desirable
- Q1 2003 Prototype bench tests desirable



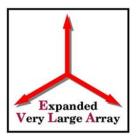
Scheduling $\leftarrow \rightarrow$ M&C System



- When to transition from 'cards' to new Observation Scheduling System?
 - Less of a 'drop-dead' date
 - Becomes more important as new M&C system gains importance
 - Q4 2006 Start test first correlator subset at
 VLA highly desirable



Pipeline and postprocessing



- Required because:
 - Amount of data
 - EVLA specific requirements
- Q1 2009 new correlator operational required
- Q2 2007 First science with new correlator subset highly desirable
- Q4 2006 Test first correlator subset desirable



Priorities



- 1. Archive
 - Monitor data Q2 2003 / Q2 2004
 - Visibility data Q2 2007 / Q1 2009
- 2. Observation scheduling Q4 2006
- 3. Pipeline Q2 2007
- 4. Observing preparation TBD
- 5. Proposal preparation/submission TBD