



- Real time processing!
 - Distributed storage
 - Uv-data
 - Parameters?
 - GSM?
 - Distributed computing
 - BBS (+ Global Solver)
 - CImager
 - Source Finding (?; Image cubes are small)
 - Bandwidth for Beams
 - Process multiple observations simultaneously
- Control: SAS / MAC vs. scripting
- Calibration Strategy / Approach to be specified
- Performance of components needs to be improved



- Do we need storage in between?
 - 3 separate observations that need to be combined
 - Can we go through the chain a second time (Major Cycle)?
 - Should we first collect all 3 observations and process them together?

- Bandpass correction
- Flagging
- Calibration for clock drifts?
- Calibration for Ionosphere?
- Compression

- Performance
 - Distributed storage needed
 - Improve speed, I/O

- Distributed
- Global Solver needed for S/N
- Sky model
 - Point sources
 - Other models?
 - constant spectral index
 - Polarization?
- Ionosphere
 - What kind of ionospheric modeling and correction?
- Beam model
 - Current models to be validated
- Improve performance

- Distributed
- Application of Image Plane Effects
 - Facet Corrected Imaging
 - How many facets?
 - Convolutional gridding (Bhatnagar)
- Produces
 - Dirty image
 - Spectral cube
 - Continuum image
 - PSF?

- Distributed?
 - Final version must be distributed
 - Version for MSSS may be single core
- Source finding in multiple freq planes
- Performance / speed?
 - PyBDSM
 - Amsterdam real-time Source Finding

- To be initialized with inter- / extrapolated VLSS / WENSS data
- Eventually contains 2.5 million sources
- Performance
 - OR_GSM
 - Amsterdam database GSM

- What do we store?
 - OLAP uv-data: more than 7 Pbyte: infeasible
 - Post DPPP uv-data
 - Images
 - GSM
 - Calibration parameters?