

AstroGrid Datacenters

ESO

M Hill (ROE), Aug 2004

AstroGrid

- Remit:
 - Prototyping
 - Produce working Grid, real science
 - Feedback to IVOA on practical issues
- 3 years (18 months development)
- Iterative development
- Deploying Itn05 complete

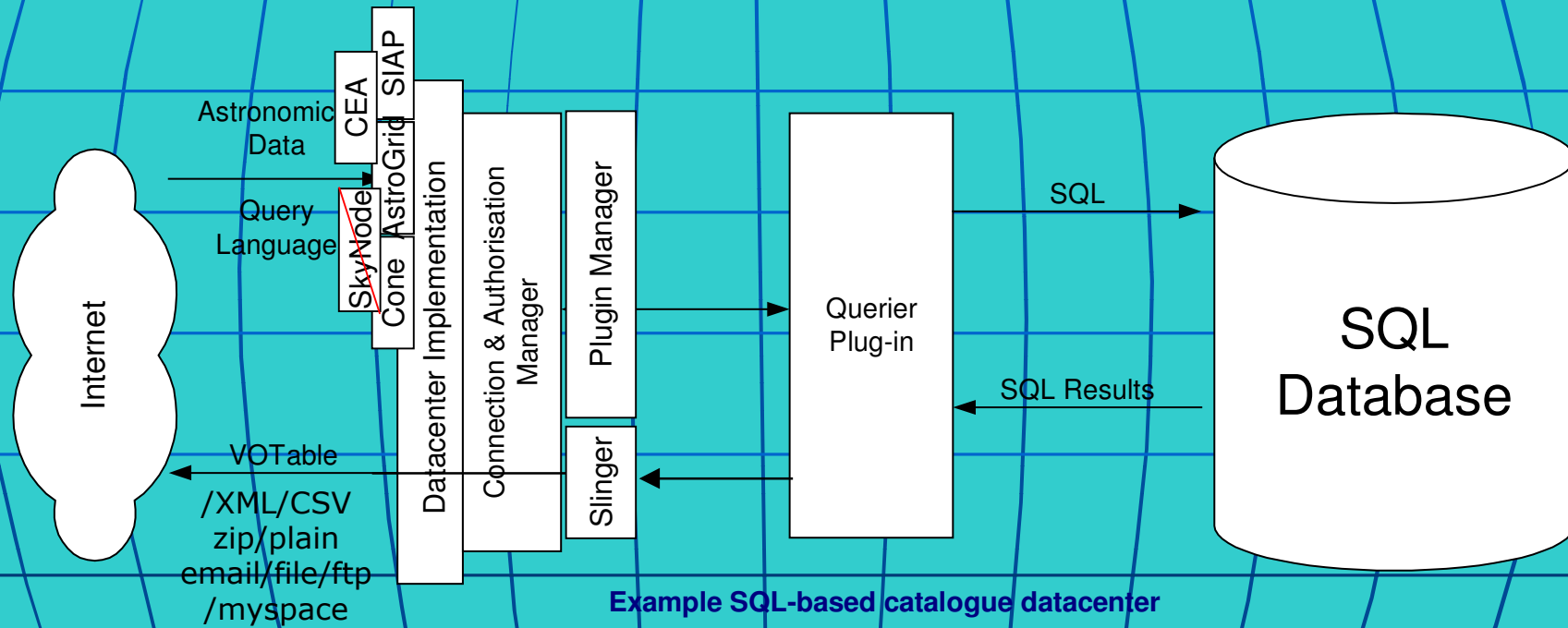
AstroGrid Components

- Portal (UI)
- MySpace (secure public storage)
- Registry (discovery)
- Applications (SExtractor etc)
- Community (accounts, security)
- Datacenters (PAL)
- Workflow (+scripts eg Python?)

PAL

- 'Easy to publish to the VO'
- Implements VO interfaces:
 - Home-grown Astrogrid (2 versions)
 - NVO-Cone search
 - (extra Simple) SIAP
 - CEA
 - Prepped for SkyNode
- Querier 'Plugins'

Architecture



Asynchronous Querying

- Identifying a Query
- Keeping it transient:
 - No work files/temporary files
 - All Streaming
 - TargetIndicators
- Aborting...
 - Tricky – depends on implementation
- Timeouts
 - None
 - Necessary
- Polling Status
- Callback status (event-driven)
 - Requires webservice to call

Future

- Deploying to ROEb, Leicester, Cambridge (UK), JBO, ESO.
- SkyNode interface
- Metadata wizards
- -> Query pages
- Full SIA, SSA interface
- Comprehensive status

ESO PAL

- Tomcat 5, vonc1
- 'one click' update
- RDBMS now
- HOTF plugin later?
- No MySpace...