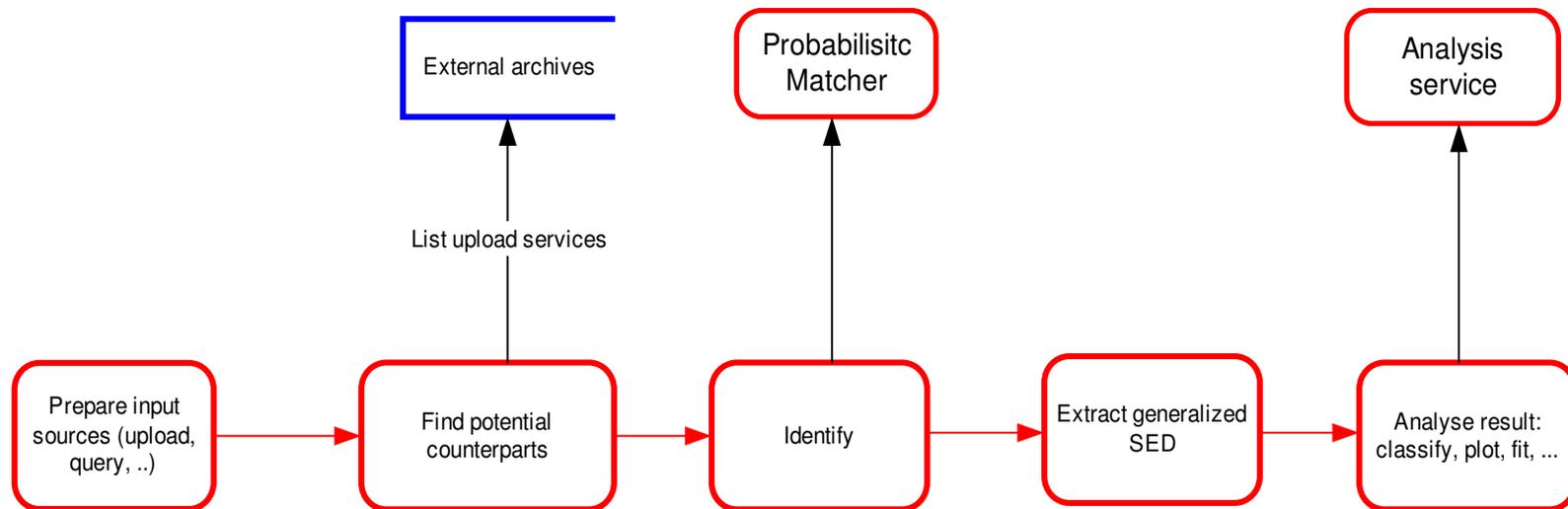


Datamining VizieR and SDSS

Experiences with distributed querying, XMatch and SED
extraction

- Hans-Martin Adorf, GL, Julius Adorf
- Wolfgang Voges, Stephanie Komossa

General architecture (before ADQL and SkyNode)



Features

- Uses list upload services iso separate cone searches
- Input list can contain physical properties
- Parallel queries to VizieR and SDSS
- Uses VizieR mirrors
- Uses XMatch for further refinement
- Can use alternative positions for XMatch, for example proper motion corrected
- GUI control center
- Feedback from science projects using it

Issues

- Requires custom metadata for implementing XMatch
 - Error columns
 - Catalogue wide errors
- Resolution multiple matches
 - XMatch can help, up to a limit
 - Catalogue problems (USNO example)
 - Link to original data
- Is XMatch syntax sufficient for all use cases?
 - Error in SkyNode doc
 - Choice of astrometric columns up to user ?
 - Systematic errors
 - Non-isotropic errors
- Performance improvement
 - Need to deal with “combinatorial explosion”
 - Find available and fast mirrors
- Use of SEDs
 - requires knowledge of apertures
 - Unit/filter conversion