



Grid Example: Lofar LTA

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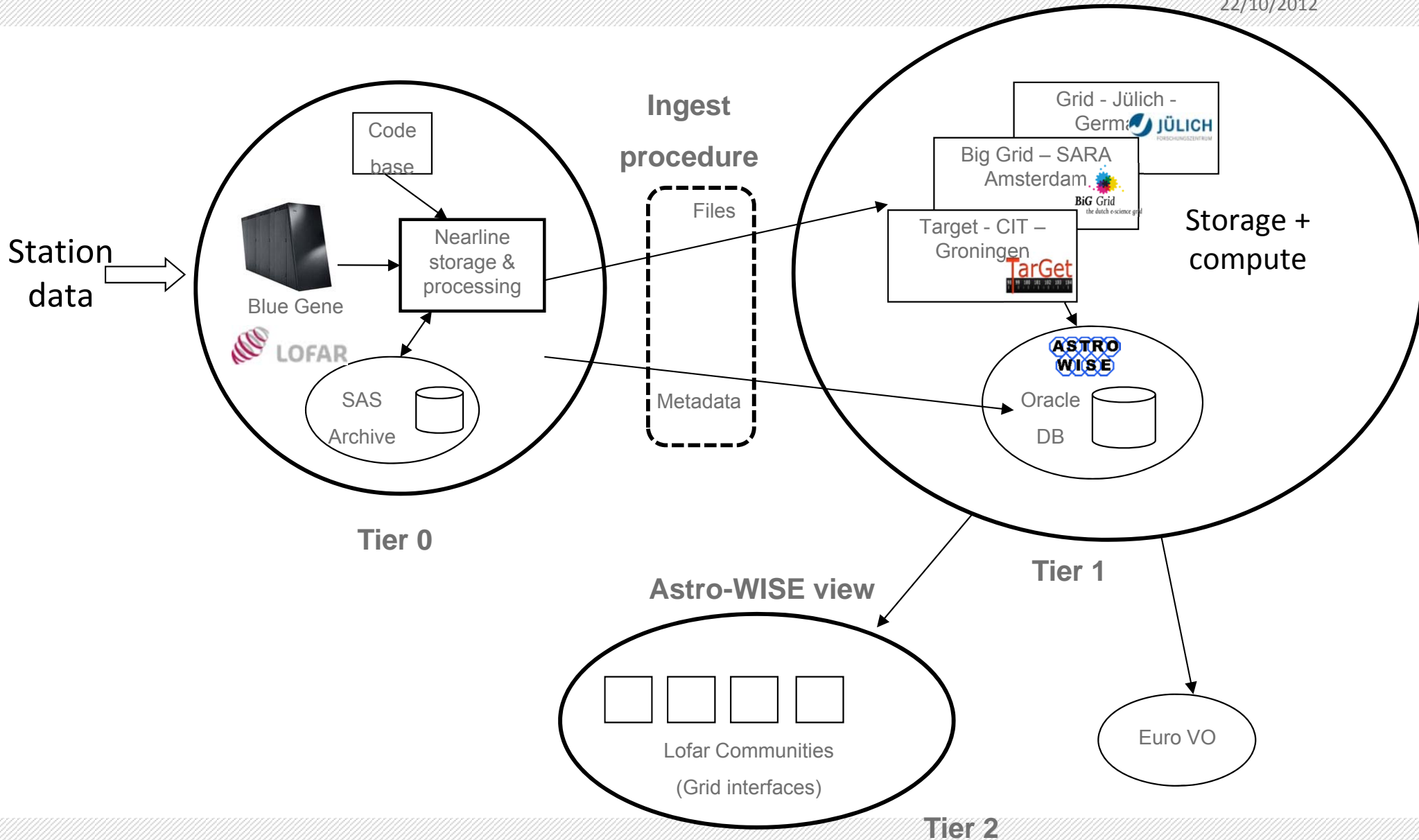
- › Radio telescope
- › Fields of small antenna's
- › Software telescope
- › Huge amount of data
 - ~2PB / year





- › LOFAR generates about 2 PB of data per year
- › Single site not able to hold this
- › Distributed archive
- › Several sites:
 - Target@RUG, Groningen
 - BigGrid@SARA, Amsterdam
 - Grid@Jülich, Jülich, Germany
 - + possible future sites







- › Central user and project administration
- › Metadata stored in Astro-WISE db
- › Raw files stored on distributed Grid storage
- › Large processing done close to the data at the Tier 1 sites
- › Managed access to the data



- › Astro-WISE integrated with GRID
 - Job submission
 - Data storage
- › Processing pipelines can be controlled by DPU
 - Tier 0 (testing)
 - Tier 1 (final goal Target processing)
- › Hides complexity of Grid middleware for end user



