

Support for (prospective) ALMA users

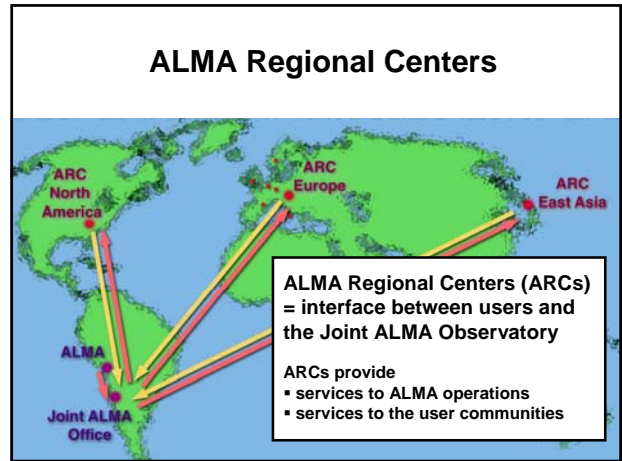




Stefanie Mühle
 German ARC node
 University of Bonn


 Argelander-
 Institut
 für
 Astronomie

ALMA Regional Centers

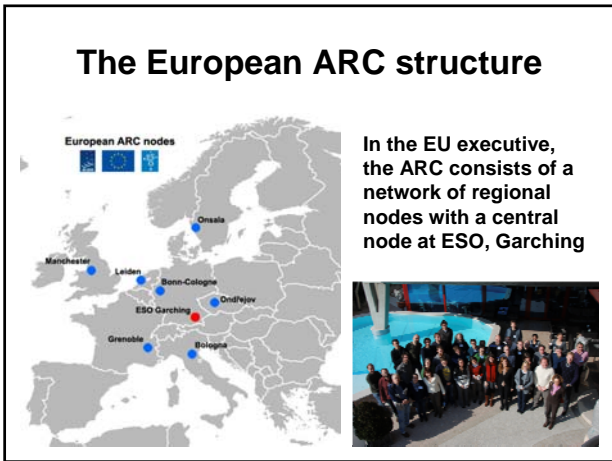


ALMA Regional Centers (ARCs)
 = interface between users and
 the Joint ALMA Observatory

ARCs provide


- services to ALMA operations
- services to the user communities

The European ARC structure

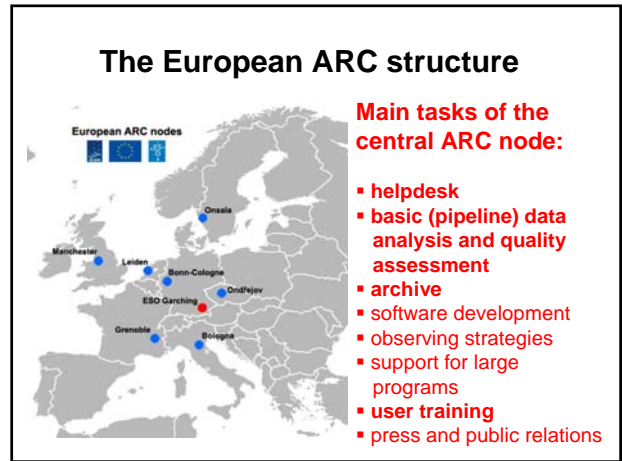


European ARC nodes

In the EU executive, the ARC consists of a network of regional nodes with a central node at ESO, Garching



The European ARC structure

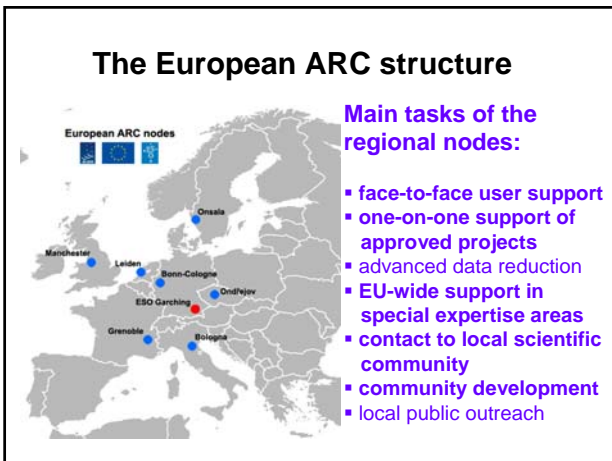


European ARC nodes

Main tasks of the central ARC node:

- helpdesk
- basic (pipeline) data analysis and quality assessment
- archive
- software development
- observing strategies
- support for large programs
- user training
- press and public relations

The European ARC structure

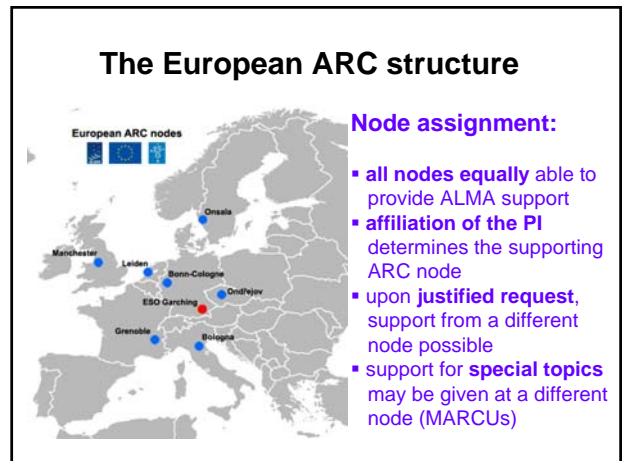


European ARC nodes

Main tasks of the regional nodes:

- face-to-face user support
- one-on-one support of approved projects
- advanced data reduction
- EU-wide support in special expertise areas
- contact to local scientific community
- community development
- local public outreach

The European ARC structure



European ARC nodes

Node assignment:

- all nodes equally able to provide ALMA support
- affiliation of the PI determines the supporting ARC node
- upon justified request, support from a different node possible
- support for special topics may be given at a different node (MARCUs)

The German ARC node



- Universities of Bonn and Cologne
- special expertise areas:
 - advanced data analysis and modeling tools, CDMS
 - polarimetry
 - zero-spacings for continuum data
 - mm-VLBI



The German ARC node

User and Software Support:

- up to now, phase II support of more than 35 scientific projects
- dedicated computer cluster and disk space for ALMA data reduction
- participation in data quality assessment
- participation in imaging and single-dish task forces
- participation in software tests
- European representative in the CASA Users' Committee

Training and Outreach:

- **lecture + tutorial** *Radio Interferometry* (with remote access)
- annually **ALMA Community Days/ALMA Users' Meetings**
- monthly **newsletter (+ newsflashes)**
- **ALMA talks in seminars**
- **conferences:** meetings of the German Astronomical Society, NAM 2012, YERAC 2013, specialized meetings and conferences
- **public talks:** Planetarium Bochum, Walter-Hohmann-Sternwarte Essen, Lehrerfortbildung Cologne, Astronomie Stiftung Trebur, Sternwarte Recklinghausen, Bonner Sternenhimmel

The German ARC node

Technical Projects:

- Adaptable Radiative Transfer Innovations for Submillimeter Telescopes (ARTIST) - *Astronet*
- Coherent set of Astrophysical Tools for Spectroscopy (CATS) - *Astronet*
- Cologne Database for Molecular Spectroscopy - *DLR, BMBF-VF*
- Polarization calibration tools - *BMBF-VF*
- Zero spacings for continuum data - *BMBF-VF*
- Integration of phased ALMA into the GMVA – *BMBF-VF*

Science:

- molecular clouds and (high-mass) star formation, astrochemistry
- extragalactic ISM, starburst galaxies and AGN
- galaxy clusters, shocks in the ICM
- star formation in high-redshift galaxies
- structure formation in the early universe
- high-resolution laboratory spectroscopy

The German ARC node

What we can offer to visitors:

- dedicated ARC room with workstations
access to all required software (OT, CASA) and the data archive
- server with sufficient computing power
effective data reduction and analysis
- dedicated contact scientist
one-on-one support to guarantee a productive stay in Bonn
- personal desk with internet connection for your laptop
- parent-child room etc.
- free tea and coffee
- a vibrant research environment (Argelander-Institut für Astronomie, MPIfR, University of Cologne)



How to get help

How can I ...

- get the latest ALMA news?
- learn more about radio interferometry?
- get help with my ALMA proposal?
- get help with other ALMA procedures?
- learn how to reduce ALMA data?
- get ALMA data without writing a proposal?
- deal with huge ALMA data sets?
- get an answer to my specific question?

German ARC node

German ALMA Comm/Users' Meetings
course Radio Interferometry (incl. CASA)
ARC node staff (arc@astro.uni-bonn.de)
your Contact Scientist
face-to-face visit (arrange via helpdesk)
[home page](#)
[newsletter and newsflashes](#)

Science Portal at ESO

[news section + newsletter](#)
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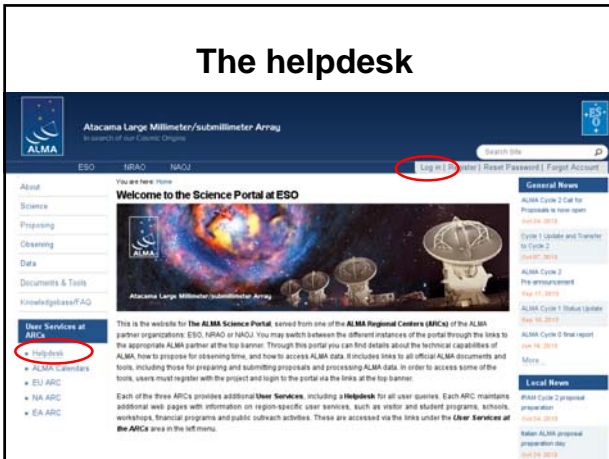
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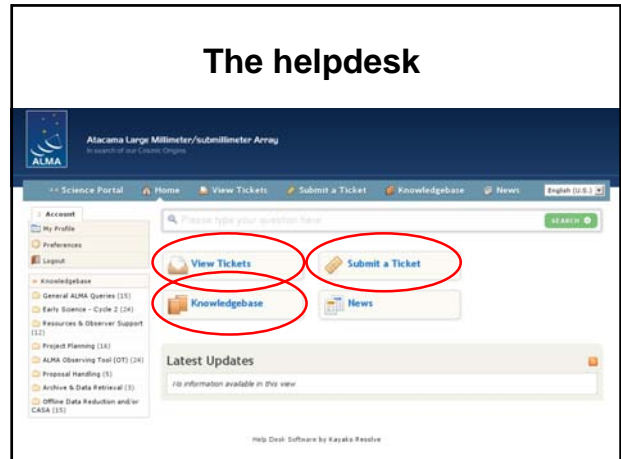
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The helpdesk



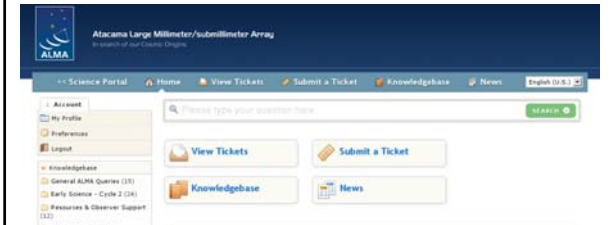
The helpdesk



The helpdesk

Advantages of the helpdesk:

- (growing) knowledgebase
- always the right person (via triage)
- holiday etc. replacement (fast feedback, log)



The German ARC node

Let's stay in touch!

German ARC node, newsletter etc.:
<http://www.astro.uni-bonn.de/ARC>

ALMA Science Portal at ESO:
<http://almascience.eso.org>

Helpdesk:
<http://help.almascience.org>

