

SRC activities in The Netherlands

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 @SKA_NL

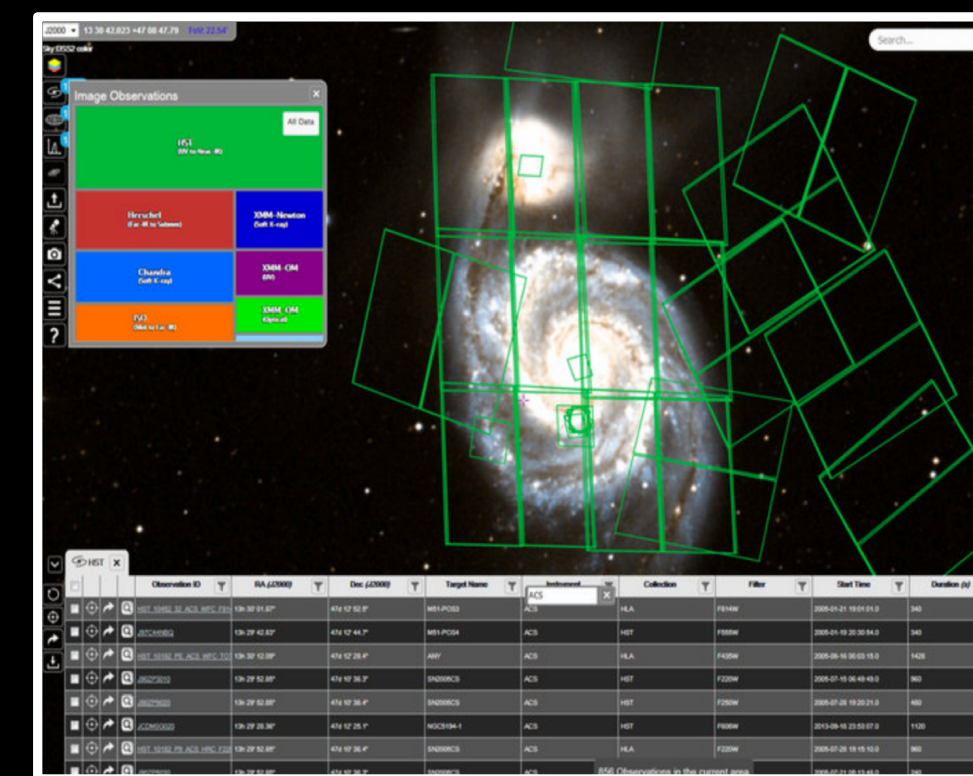
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- ASTRON - operates LOFAR and WSRT/Apertif
 - Processing in Groningen at CIT
 - Distributed archive at SURFsara in Amsterdam, Jülich, Poznan
- SURF - SURFsara, SURFnet - National eScience Infrastructure
- Nikhef - High Energy Physics (CERN, WLCG), Gravitational Waves (ET), KM3NeT
- Universities of Amsterdam, Groningen, Leiden, Nijmegen
 - CIT in Groningen hosts LOFAR CEP
- Funding through
 - NWO, Ministry, EC, Regional Funds

- Support for both SKA and (parts of) LOFAR
- Hosts/runs NL SRC node
 - NL SRC “part of” European SRC/Global SRC “Alliance”
- Technology development for SKA, LOFAR
 - with international partners and industry
 - funding in part from SKA ODP
- Shares infrastructure with other disciplines
 - part of European Open Science Cloud
- Provides user support for SKA, LOFAR
- Platform for multi-wavelength and multi-messenger, data science

- ASTRON operates LOFAR/ILT and Westerbork/Apertif
- Ongoing projects:
 - ASTRON Data Portal
 - Science Delivery Framework
- EC H2020 Projects
 - ASTERICS
 - AENEAS
 - ESCAPE
 - EOSCpilot & EOSC Hub
- ASTRON Science Data Centre

ASTRON DATA PORTAL



- **ADP** - ASTRON Data Portal will provide access to:
 - **data collections** of current instrument operated by ASTRON + those that will become operational in the (near) future
 - **metadata** associated with the collections
 - added value services such as **analytics, visualization, pipelines**
- **Requirements and high level implementation plan**

SCIENCE DELIVERY FRAMEWORK

- **Goal: maximize scientific return of observing facilities**
- Why?
 - Data products of RO pipeline are *FAR* from science → need more **advanced reduction pipelines** in production.
 - now large amounts of data moved between computing facilities → need to **exploit data where it resides**.
 - Archive portal does not optimally expose data → Need to **improve data access, discovery, and analysis**.

