



REGIONAL  
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# SRCNet development update

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SKACH Winter meeting 2026, Lugano  
27/01/2026

SRCNet development highlights

SRCNet development roadmap adjustments

Swiss Community Involvement

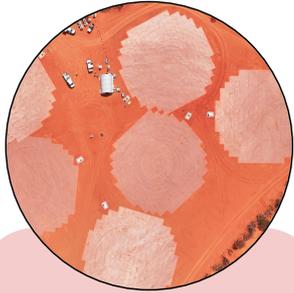


# SKAO milestones

Slide credit: Shari Breen

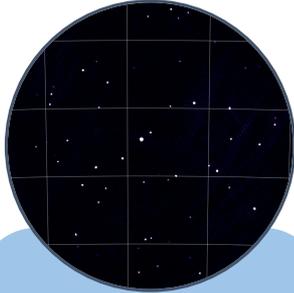
Credit: I. Heywood, SARAO

Community involvement starts



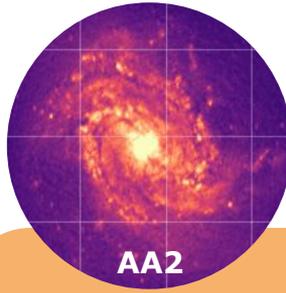
## Construction

- Building antennas, dishes, roads etc!
- Followed by Assembly, Integration and Verification

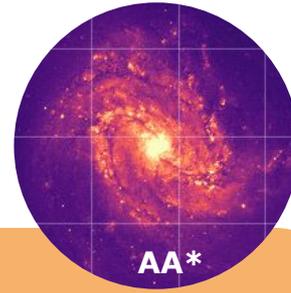


## Commissioning

- SKAO activity
- Collaborative across system verification and science commissioning



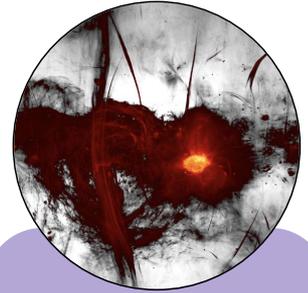
AA2



AA\*

## Science Verification

- A full dress rehearsal of the end-to-end system for every mode of operation
- Modes and capabilities rolled out over time
- Data will be publicly available for scrutiny
- Number 1 goal is verification, science secondary
- Feedback crucial, for SKAO and SRCNet



## Cycle 0

- Shared-risk PI projects
- SRCNet resources ready for user
- proprietary periods

**SRCNet real users doing real things!!!** →



Now

Now

First half 2027

First half 2029

2030



Now

Soon

First half 2029

First half 2031

2032

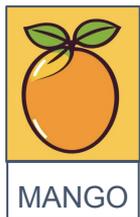


# SRCNet Architecture Components / Team Mapping



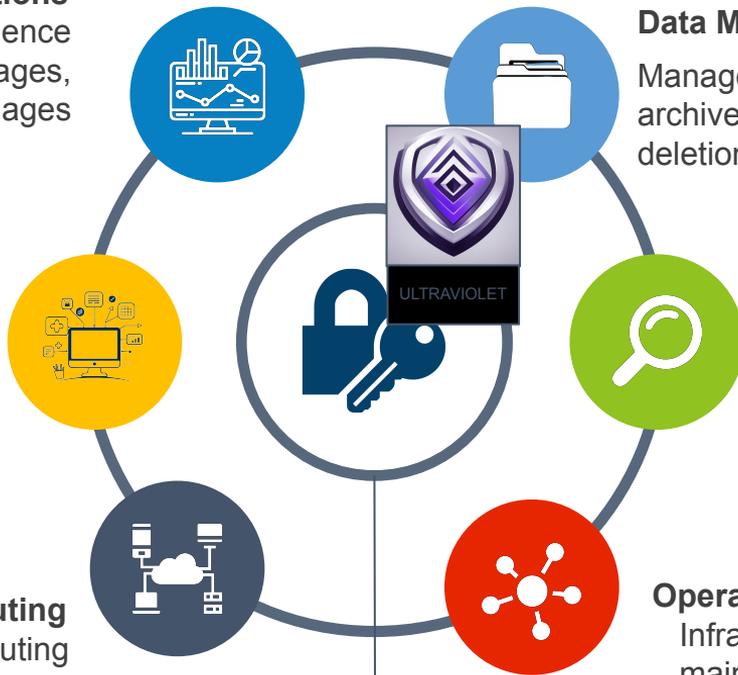
## Science Enabling Applications

Standard tools to enable science such as software packages, notebooks, container images



## Science Gateway

UI based Platform to enable workflow execution, data investigation, helpdesk, etc



## Data Management

Management of SKAO science archive including replication, deletion, and ingestion of data

## Metadata Management

Data discoverability through science metadata, provenance metadata handling for FAIR practices



## Federated Computing

Interconnected computing resources at different SRCNodes via common APIs to allow remote data processing

## Operations Enabling and Interoperability

Infrastructure to manage and maintain the SRCNet such as Monitoring, Accounting, gathering metrics, resource availability, etc



## Authentication and Authorization

A common AA infrastructure allowing the SRCNet services to trust and communicate each other

and users

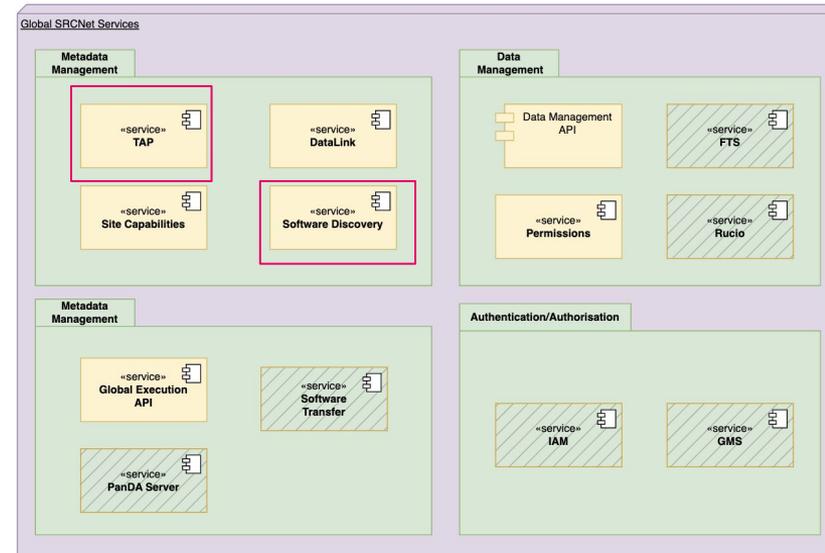


# SRCNet development highlights

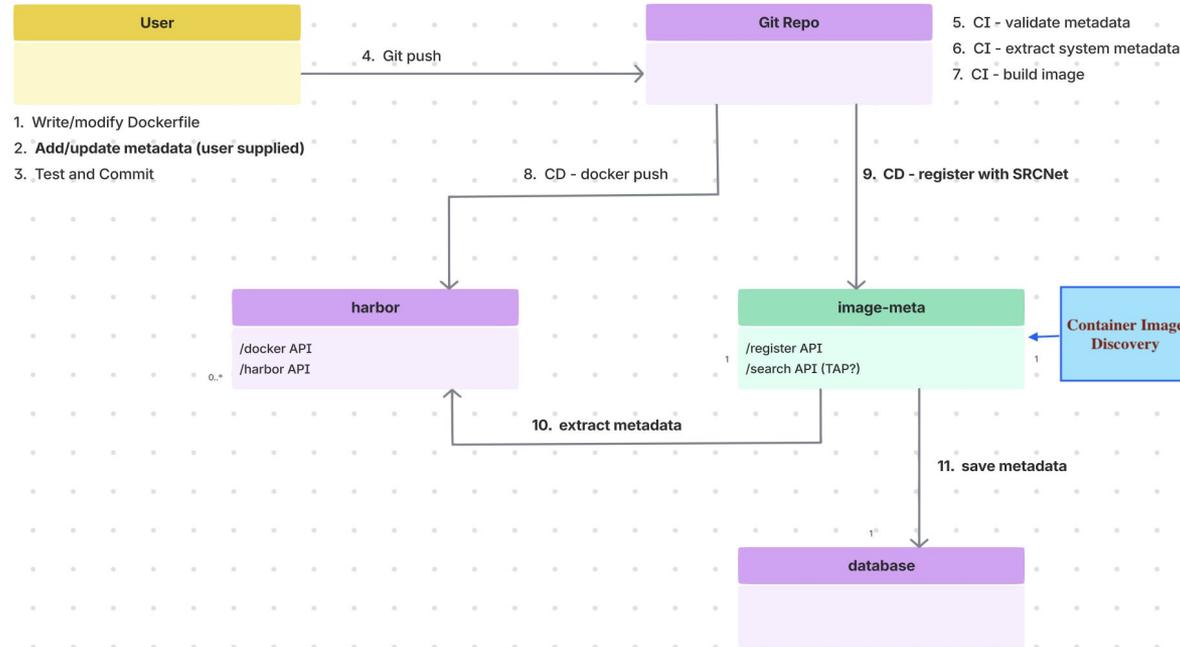
## Recent goals and features of note

- Agile software development process, quarterly planning, PI29
- We're currently aiming towards SRCNet v0.2 functionality and scale, while also keeping an eye on whether we are ready for SV

Development realises the architecture, and these are the global services for v0.2 we don't have yet.



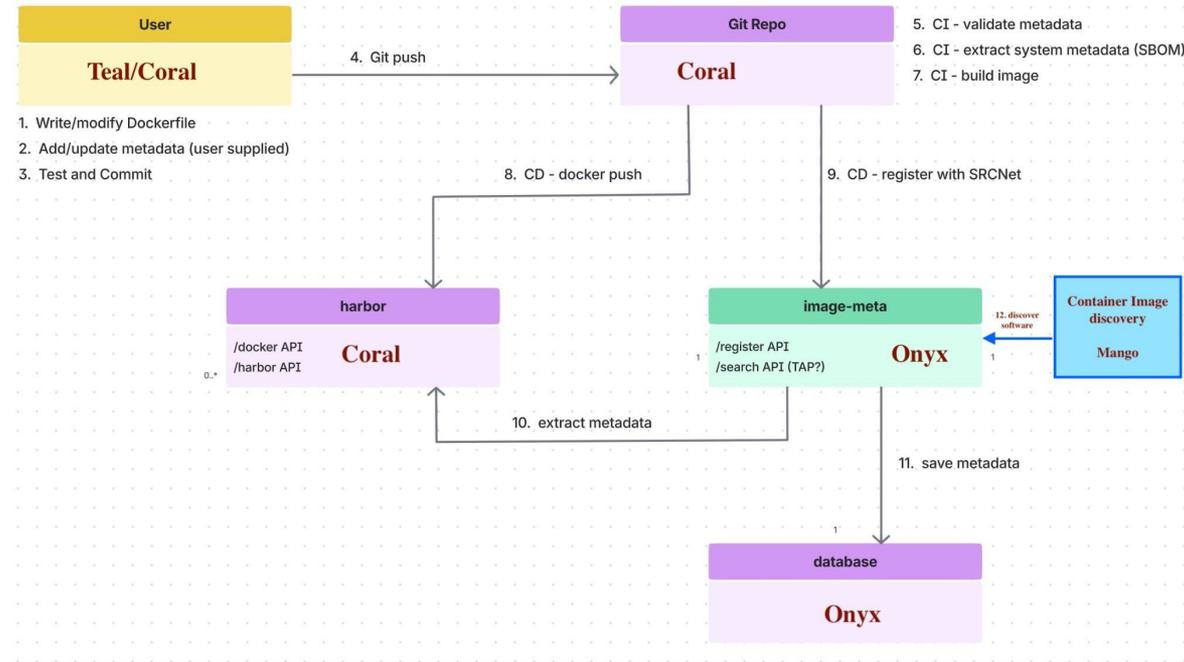
# Software discovery service coming up!



*Thank you Brian Major for the original diagram!*



# Software discovery service coming up!



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# More PI29 Development features to note

## Science Gateway

- Accessibility support starting

## Distributed Data Computing

- Global Execution API extension
- Getting more nodes in federated execution testing

## AAI

- Ingress-nginx retirement. Ah!

## DMS

- Ingesting hierarchical data

## OEI

- System testing

## Science enabling tools

- Supporting DSC implementation



# More PI29 Development features to note

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SAFe Program / SP-6400

**Centralised SRCNet Knowledge & Documentation Hub**

## OEI

- System testing



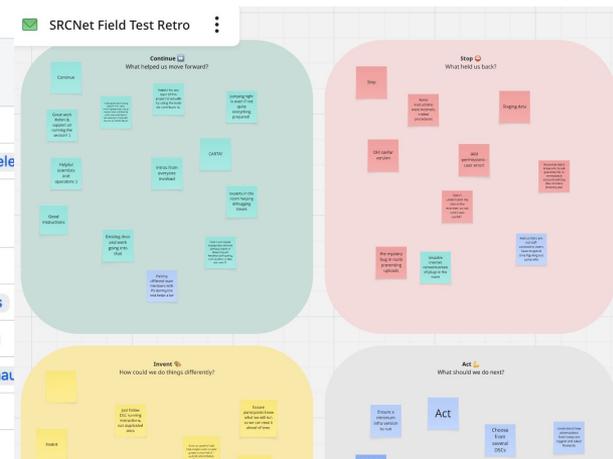
# SRCNet development highlights

## SRCNet Field Test event takeaways

- Improving cross value stream alignment
- CHSRC run of the field test was invaluable
- Getting people talking to each other



Project Scientists	Support Scientists	Development (POs)	Operators / Service Operations
<b>The friendly neighbourhood science user!</b>			
@Ross, Kathryn	@Alegre, Lara	@Sanchez Exposito, Susana	@Coles, Jeremy
@Cunningham, Nichol	@Wagg, Jeff	@Joshi, Rohini	Global Service Operator: @Delli Veneri, Michele
@Chang, Chin-Shin	@Kim, Shinyoung	@Collinson, James	CHSRC: @Lindqvist, Carolina @Herzog, Pascal
@Toribio, Carmen	@Collier, Jordan	@Brassfield-Bourke, Erin	UKSRC: @Sean McConkey
	@Galluzzi, Vincenzo	@Skipper, Chris (EU REMOTE)	ESPSRC: @Parra, Manuel @Sanchez, Jesus
	@Barkus, Bonny (EU REMOTE)		SWESRC: @Kirsten, Franz @Vittacil, Dejan
	@Walker, Charlie (EU Remote)		CANSRC: @Ouellette, John @Bathgate, Sha
			xySRC...

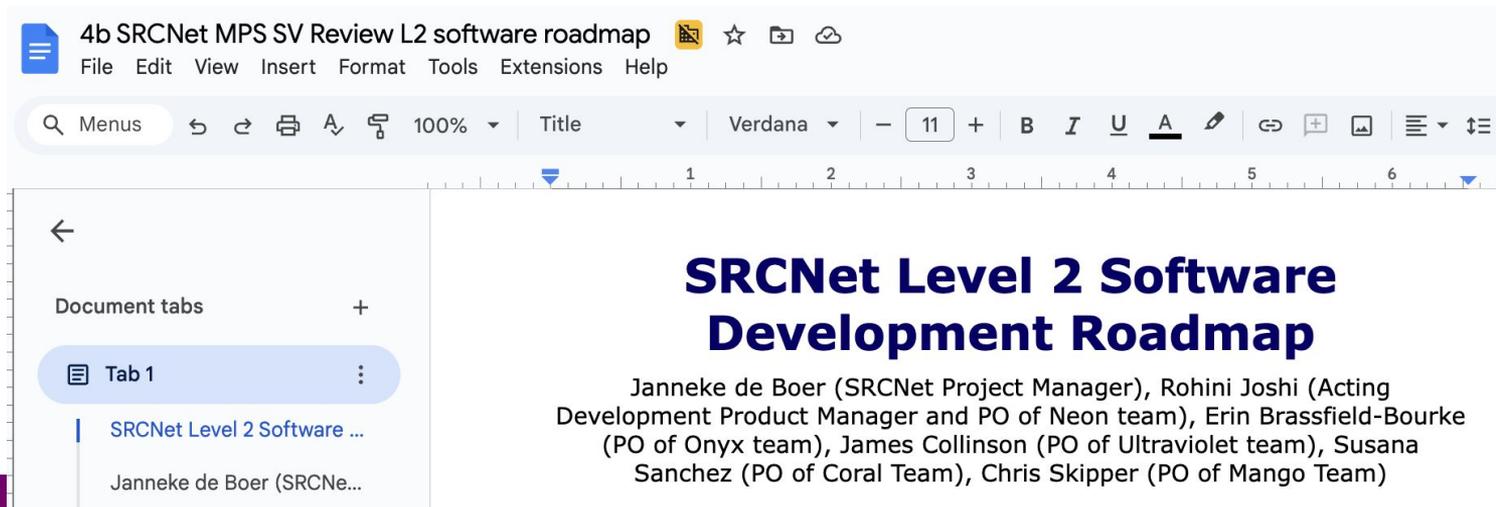


# SRCNet development roadmap adjustments, path to SV



## SRCNet Review

- A diverse panel was given a set of charges and we will hear more about the outcomes soon
- Help us focus on critical gaps and risks to SV
- Development roadmaps to be adjusted based on the outcomes of the review.



The screenshot shows a Microsoft Word document interface. The title bar reads "4b SRCNet MPS SV Review L2 software roadmap". The ribbon includes "File", "Edit", "View", "Insert", "Format", "Tools", "Extensions", and "Help". The font settings are "Verdana", size "11". The document content features a large blue heading: "SRCNet Level 2 Software Development Roadmap". Below the heading, the text lists the project team members: "Janneke de Boer (SRCNet Project Manager), Rohini Joshi (Acting Development Product Manager and PO of Neon team), Erin Brassfield-Bourke (PO of Onyx team), James Collinson (PO of Ultraviolet team), Susana Sanchez (PO of Coral Team), Chris Skipper (PO of Mango Team)". On the left side, the "Document tabs" pane shows "Tab 1" and "SRCNet Level 2 Software ...".



## SRCNet Review

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## Product owners actively engaging and aligning with project scientists

- Potential for increase in personpower is limited.
  - How to make the most of the people and resources we have
  - Alignment with the SKAO will be crucial



# SRCNet Collaboration: Swiss participation

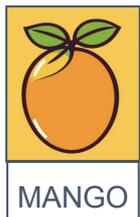


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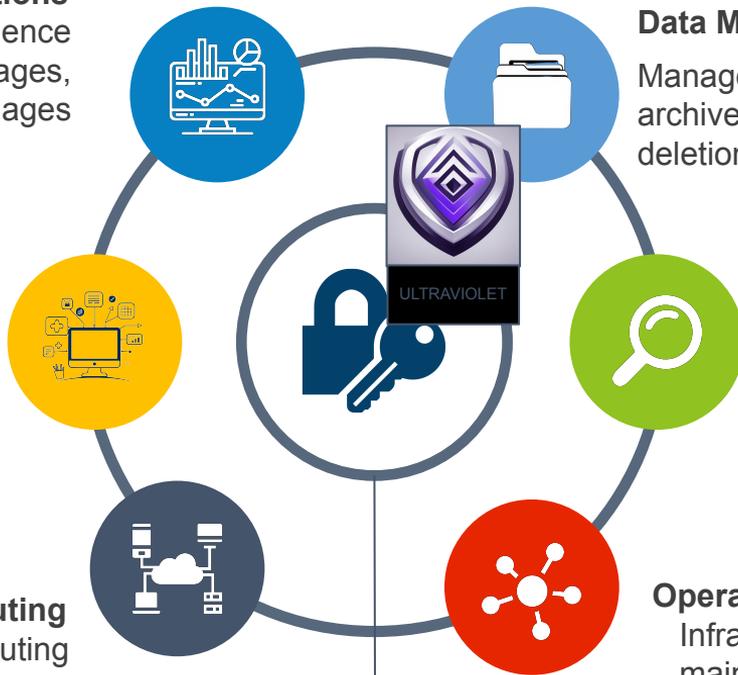
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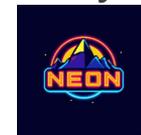


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# SRCNet Collaboration: Swiss participation

Neon team:

Federated computing and Operations Enabling and Interoperability.

Forming our niche in SRC land. Leaning into our strengths, we can't (shouldn't) do it all.

We are working with a larger, more diverse team.



People

---

Process

SRC | Net

SKAO Regional Centre Network



# Swiss community involvement

Stay tuned for the team talk later for details!

How/when we can get involved on the Science side? Stay tuned for Chin-Shin's talk next!



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Hosting PI planning in December in Brugg! Good opportunity to engage with this wider collaboration and showcase Swiss activities



# Bringing Alps into SRCNet...

- So far, CHSRC contributions are about playing by the rules and being good citizens
- A small project to focus on CHSRC node development, with some research aspects to ensure the platform being developed is suitable for Swiss science interests
- A 6-month Swiss pilot on CHSRC node development and Alps integration



Thank you!

Any questions ?

*We recognise and acknowledge the  
Indigenous peoples and cultures that have  
traditionally lived on the lands on which  
our facilities are located.*

**SKAO**



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