

Aperture Array Design & Construction Consortium

The Low Frequency Aperture Array

Jan Geralt Bij de Vaate



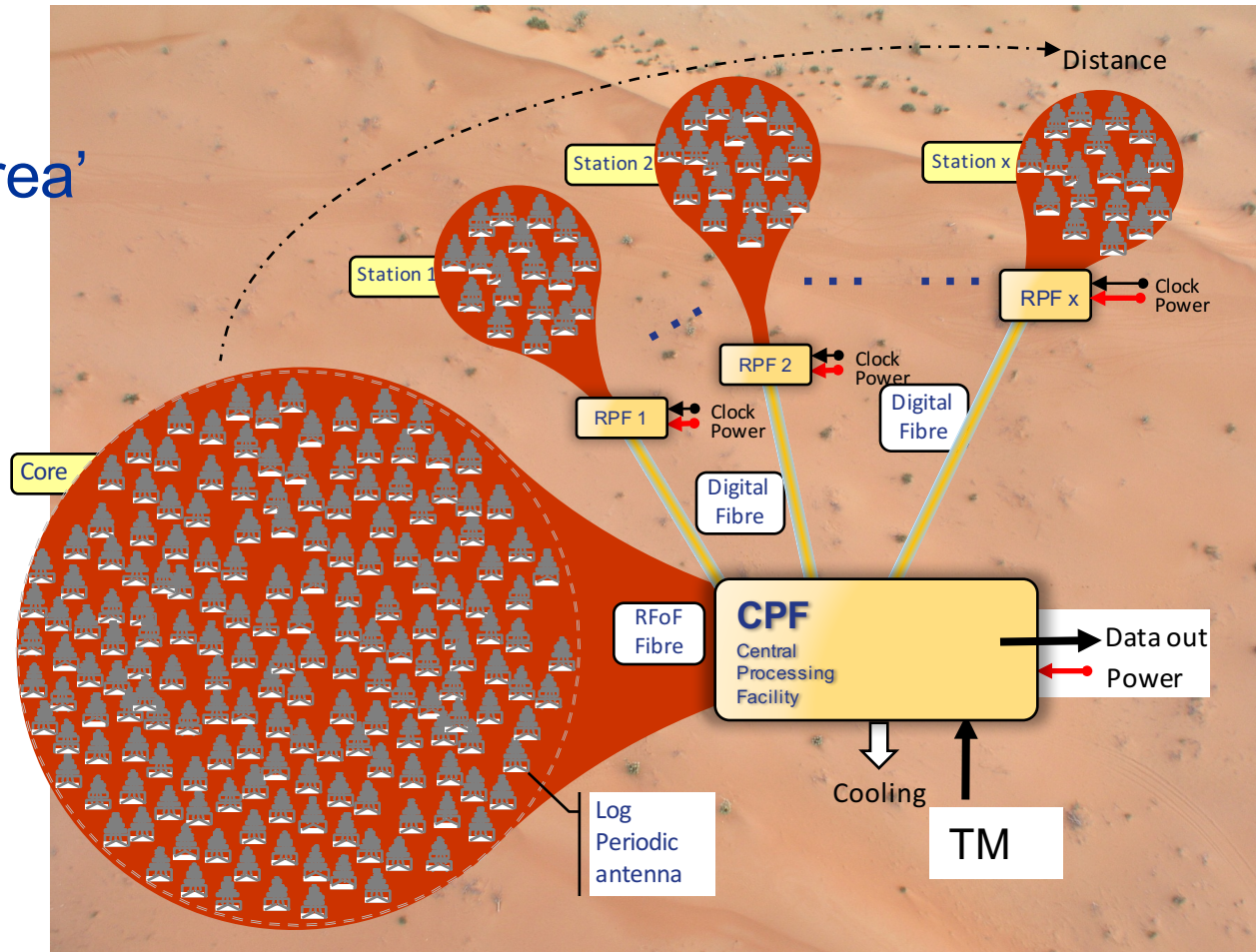


Credit: MWA Project, Curtin University

- Installed April 2013

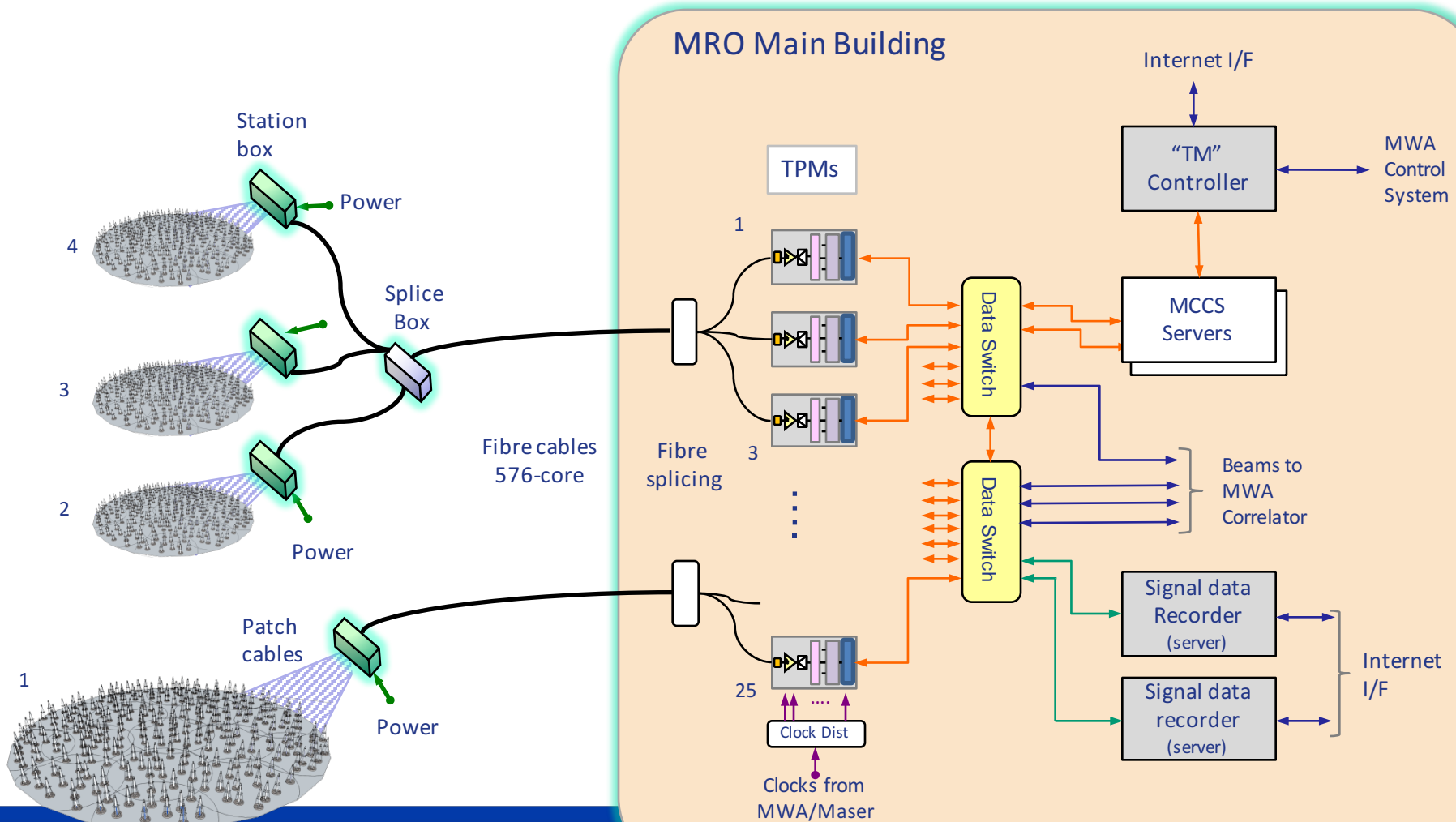
SKA1-LOW

- 131,072 antennas
- 512 stations
- xx% in 'Central Area'
 - 95% to 55%?
- Large central processing

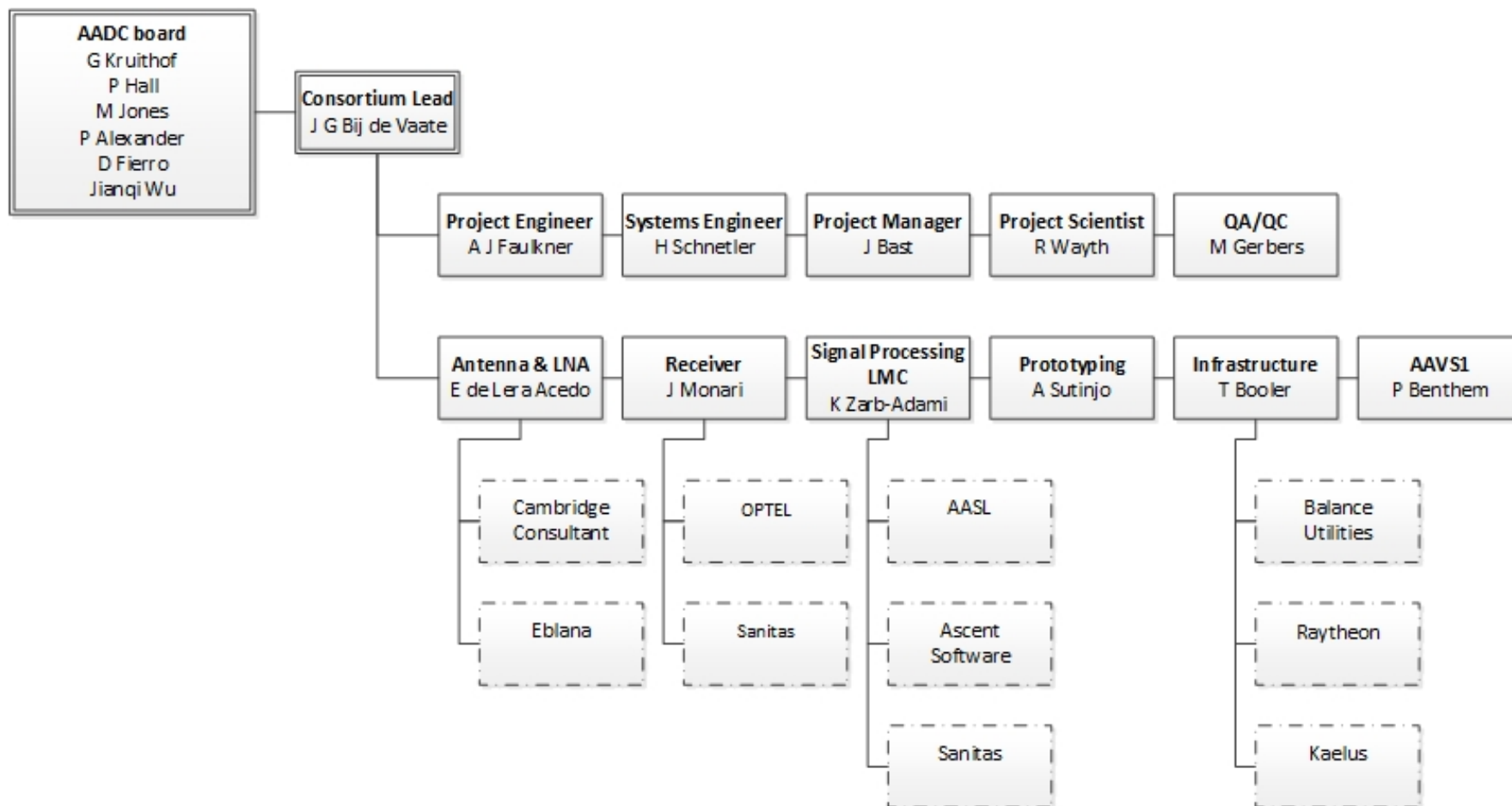


AAVS1

- 400 antennas, one full station plus three small stations



Consortium Organisation



Where are we (1)

- Preliminary Design Review, PDR, Jan 2015, successful
- All stage 1 milestones completed
- AAVS1 Detailed Design Review, DDR, completed Oct 2015
- Scheduled Stage 2 milestones completed
 - Draft RAM report
 - Preliminary installation plan
 - ICDsand more..

Where are we (2)

- Close to cost target
- Power on budget
- Schedule fine for most milestones

Where are we (3)

- Risks:
 - Calibration → good results
 - Tile Processor module → working prototypes
 - RFoF links → within spec → potential to go up to 50km?

All Hunky-dory?

Where are we (3)

- Schedule under pressure
 - AAVS1 construction is delayed
 - Full CDR in April 2017 not possible
 - 80% ready by April 2017
 - AAVS1 evaluation completed Q4 2017
- Antenna modification needed
- Known impact on CDR preparation:
 - L1 requirements updates
 - ECPs
 - System PDR

Upcoming

- New configuration, “*for costing only*”
 - Request for cost update, due 3rd June
- L1 version 7
- Invitation for an Expression of Interest on SKA1 construction
 - To the SKAO members
 - Responses by 3rd June
- Invite to submit SODP plans:
 - LOW, PAFs, WBSFP, MFAA
 - Responses by mid June

This week

- SKA1-Low
- Progress work packages
- Low frequency pathfinders and precursors:
 - MWA, LOFAR, NenuFar, MAD/SAD, EDA
- Telescope Team, TT-LOW meeting on Thursday+Friday
- Break outs



TT-LOW

LOW Telescope Team Home... South-Africa-Dutch SKA d... +

https://confluence.skatelescope.org/display/LTT/LOW+Telescope+Team+Home

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Pages

LOW Telescope Team Home

Created by Stevenson, Tim, last modified by van Es, Andre on Apr 05, 2016

LOW Telescope meetings

LOW Telescope Team (Notes and agendas)

Current (last) meeting: [TT-LOW Meeting](#)

April 1st (room **23** SKAO) at 08:00 UTC
(09:00 UK, 10:00 CET)

Agenda of Next Meeting: see meeting notes pages

Minutes of previous TT-LOW Meeting: [2016-03-31 Meeting notes](#)

Further scheduled meetings:

April 28th

May 12th/13 (f2f in Bologna)

June 15th

Issues Stats:

Issue	Nr.	%
Total Number of Issues	21	100
Active Issues	12	57
Deferred/Watch Issues	5	24
On Hold	0	0
Not assigned Issues	0	0
Closed Issues	4	19

Click here for: [Issues Template](#)

TT Terms of Reference:
[Telescope_Teams_Terms_of_Reference_v10.docx](#)

Current Low_TT members:

- [@Mark Waterson](#) - Chair
- [@Jan Geralt bij de Vaate](#) - Co-Chair
- [@André van Es](#) - PM
- [@Maria Grazia Labate](#) - SE, LFAA
- [@Jeff Wagg](#) - PS
- [@Wallace Turner](#) - Requirements
- [@Corrie Taljaard](#) - RAMS
- [@Andrew Faulkner](#) - LFAA
- [@Rosie Bolton](#) - SDP
- [@Ben Stappers](#) / [@Grant Hampson](#) - C
- [@Alan Bridger](#) - TM
- [@Richard Oberland](#) - SaDT
- [@Abeywickrema, Shandip](#) - INFRA-AUS
- [@Michael Hayes](#) / [@Adam MacLeod](#) - A

- [@Peter Dewdney](#) - AG
- [@Alistair McPherson](#) - HoP

Top Level Issue Log

Last Update: October 30th 2015

Priority: **Extreme** / **High** / **Norm** / **Low** / **Hold**

Space tools

Issue Issue Name Issue Identified Assianed Proaress Priority Expected Current Clos

Windows Taskbar: Chrome, Firefox, Outlook, Word, PowerPoint, etc.

Achievements

			performance	
4.	T0+34 weeks	1 st July 2014	Preliminary installation plan (including demonstration plan)	€0,5M
5.	T0+38 weeks	1 st August 2014	Preliminary power design report	€1M
6.	T0+46 weeks	Mid Sept 2014	System Requirements Review and associated documents (see SEP)	€2M
7.	T0+50 weeks	End of Oct 2014	Preliminary Design Review and associated documents (see SEP)	€1M
8.	T0+68 weeks	1 st March 2015	Closure of Stage 1	€0,6M
		Total		€7,6M

→ €7M

Table 5 List of deliverables for Stage 2.

	Nominal date	Deliverable	Earned Value
M1	15 th April 2015	Kick-off Stage 2	€1M
M2	12 th Oct 2015	AA Verification System 1 (AAVS1) Detailed Design Review	€2M
M3.1	15 th March 2016	Preliminary installation plan	€0,5M

→ €4.5M

€11.5M

Or build a beautiful Telescope

