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MIDPREP 2nd WS

PIRSES-GA-2013-612599

Arnold van Ardenne

Aveiro, Portugal

20 April 2015

“Prepare and Advance for Mid-SKA in Africa through staff exchange and knowledge dissemination”



Starting in Mauritius Sept.2013

This research was supported by a Marie Curie International Research Staff Exchange Scheme Fellowship within the 7th European Community Framework Programme under Grant Agreement: PIRSES-GA-2013-612599





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Workshop aims

- Inform on project and progress:
 - Brief on MIDPREP history and objectives
 - Progress Status and Mid-Term reporting
- Communicate:
 - Exchange and disseminate
- Also:
 - Identify Issues and progress gaps
 - Invite Questions and possibly response

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Agenda

PROGRAMME 2nd MIDPREP workshop – 20 April, 2015 – University of Aveiro/IT – Aveiro, Portugal

"Progress toward the SKA"

08:30 Registration

0. Management of the MIDPREP project

09:00 Welcome and opening

Domingos Barbosa (IT & ENGAGE SKA)

09:05 Overview of the MIDPREP programme & management

Arnold van Ardenne (MIDPREP Coordinator)

1. Receivers Wide Band Single Pixel Feed and Phased Array Feeds (Chair: Bhushan Billade)

09:20 Wide Band Feeds for the SKA

Miroslav Pantaleev (Chalmers)

09:40 Views on Modelling

Tobia Carozzi (Chalmers)

10:00 New approaches to Radio Astronomy Receiver Design

Isak Theron (EMSS)

10:20 Early results and developments of APERTIF

Wim van Cappellen (ASTRON)

10:40 Break

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Agenda

1. Receivers Wide Band Single Pixel Feed and Phased Array Feeds (contd) (Chair: David Davidson)

- | | | |
|-------|---|--|
| 11:10 | New trends regarding RoF and beam forming for thousands of elements | Rogério Nogueira (IT) |
| 11:30 | Multi-Mode Antennas for Hemispherical Field-of-View Coverage | David Prinsloo (Stellenbosch University) |

2. Calibration and Simulation of Large Telescopes (Chair: Tobia Carozzi)

- | | | |
|-------|------------------------------|--|
| 11:50 | Calibrating large telescopes | Oleg Smirnov (Rhodes University) |
| 12:10 | SKA-LOW | Eloy de Lera Acedo (University of Cambridge) |
| 12:30 | Lunch | |

2. Calibration and Simulation of Large Telescopes (contd) (Chair: Tobia Carozzi)

- | | | |
|-------|---|------------------------------------|
| 13:30 | Design for Calibratibility | Stefan Wijnholds (ASTRON) |
| 13:50 | A new suite of state-of-the-art simulations of HI line emission | Ed Elson (University of Cape Town) |

3. Evolution of Mid Aperture Arrays (Chair: Steve Torchinsky)

- | | | |
|-------|-----------------------------------|--|
| 14:10 | Overview MFAA and role of MIDPREP | Jan Geralt Bij de Vaate (ASTRON) |
| 14:40 | Wide FoV SKA science | Jeff Wagg (SKA Office) |
| 15:10 | EMBRACE results | Steve Torchinsky (Observatoire de Paris) |

15:40 Break

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3. Evolution of Mid Aperture Arrays (continued) (Chair: Jan Geralt bij de Vaate)

16:10	Progress on Dense Dipole Arrays	David Davidson (Stellenbosch University)
16:30	ENGAGE SKA - MFAA	Dalmiro Maia (IT & ENGAGE SKA)
16:50	Update MITRA and MFAA in Mauritius	Girish Kumar Beeharry (University of Mauritius)
17:10	MFAA's in Africa, discussion and wrap up	Arnold van Ardenne (ASTRON/Chalmers)
18:00	<i>End of workshop</i>	
18:30	<i>Departure for dinner</i>	

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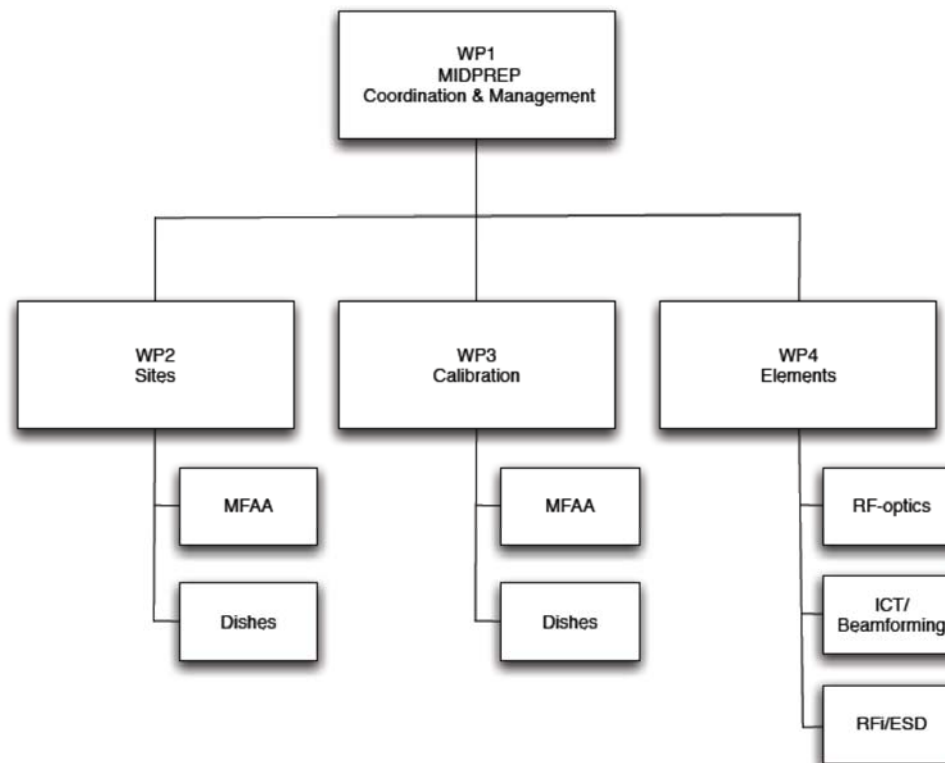
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Reminder: MIDPREP Organization



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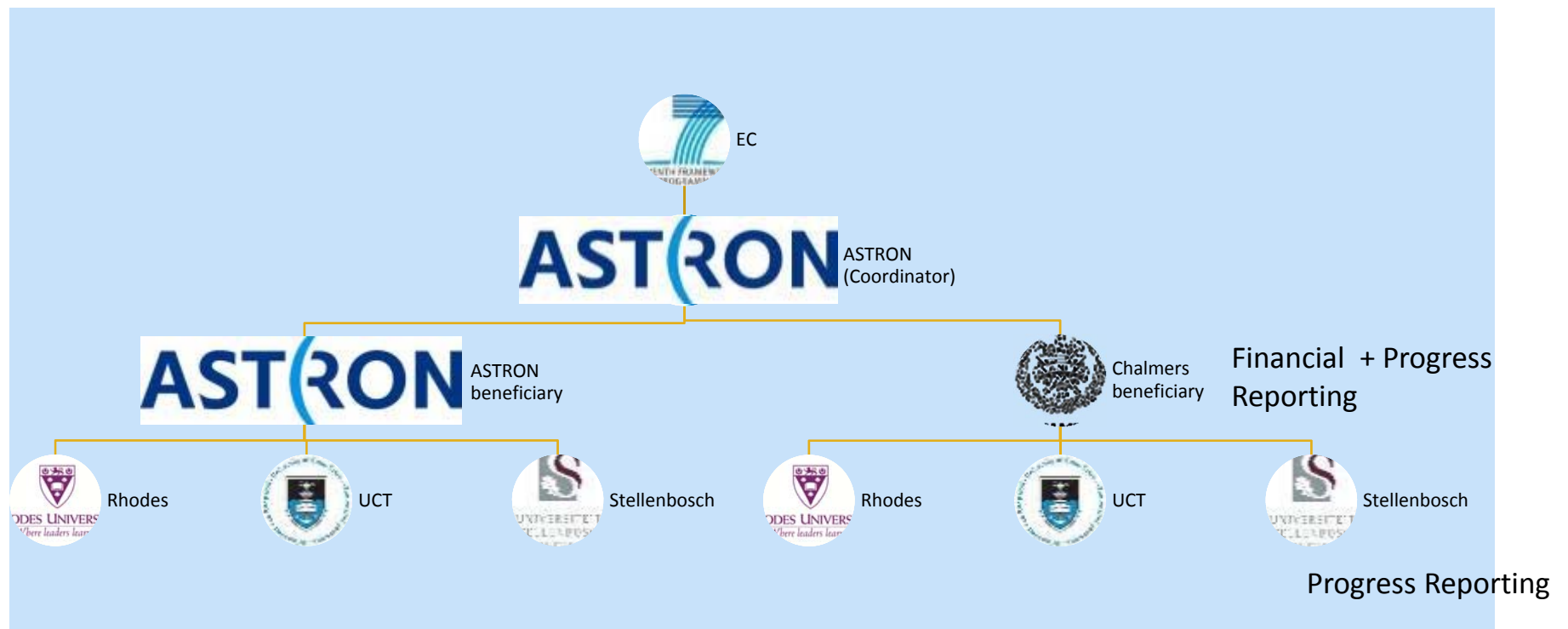
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Distribution of Funds (not presented)



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List of Milestones

List and schedule of milestones					
Milestone n°.	Milestone name	WPs n°	organisation short name	Delivery date	Comments
1	Kick-off	1	ASTRON	T0	In first month
2	Workshop 1	1	ASTRON	T0+10	First years WS
3	Report 1	1,2,3,4	All	T0+12	
4	Workshop 2	1	ASTRON	T0+22	Second Years Workshop
5	Report 2	1,2,3,4	All	T0+24	
6	Workshop 3	1	ASTRON	T0+34	Third Years Workshop
7	Final report	1,2,3,4	All	T0+36	Single report to EC

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MARIE CURIE ACTIONS



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Reporting

REPORT PERIOD	SCIENTIFIC MID-TERM REVIEW REPORT* DUE AT MONTH	PERIODIC REPORTS** DUE AT MONTH	FINAL REPORT DUE AT MONTH
1	12	18	
2	24	36	36

12, 24 progress reports

18, 36 scientific, activity, management en form-C

Templates for reporting will be distributed

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Status Work Package Deliverables

- D1.1: Partner Agreement (T0, Sept. 2013)
D1.2: Exchange Scheme Year 1 (T0 + 2)
D1.3: Workshop Year 1 (T0 + 10)
D1.4: Report Year 1 (T0 + 12)
D1.5: Exchange Scheme Year 2 (T0 + 10)
- Mid-Term report, *now to be finished with “your” support*
- **D1.6: Workshop Year 2 (T0 + 22)**
D1.7: Report Year 2 (T0 + 24)
D1.8: Exchange Scheme Year 3 (T0 + 22)
D1.9: Workshop Year 3 (T0 + 34)
D1.10: Final Report (T0 + 36)

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Workshops; planning and actual

- Year 1: Sweden, Chalmers (focus on WBSPF)
 - Actual Yr2: @Pt, IT/Aveiro , April 2015
- Year 2: South Africa (focus on Calibration)
 - Also: MFAA in Feb. 2014/Stellenbosch
 - To Plan Yr3 : @S.A., RU?, April –June 2016?
- Year 3: ASTRON (focus on AAMID)
 - Actual Yr1: @NL, ASTRON/ Dwingeloo, April 2014



To decide Year 3: Venue, time and place of workshop

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100 years on - 100 years of knowledge - 100 years on



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Participants exchanges @ Mid-term -Feb15

Portal entry nr	PARTI PANT NUMBER	ORIGIN PARTNER	ORIGIN COUNTRY	HOST PARTNER	HOST COUNTRY	SECONDED TYPE	WORK PACKAGE	DURATION (MONTHS)	STARTING MONTH	STARTING MONTH	NAME
0	1	ASTRON	NL	SU	ZA	MNGT	1	0,37	1	sep-13	André van Es
7	1	ASTRON	NL	UCT	ZA	MNGT	1	0,18	6	feb-14	Arnold van Ardenne
2	1	ASTRON	NL	UCT	ZA	ER	2	2,55	4	dec-13	Joeri van Leeuwen
4	1	ASTRON	NL	UCT	ZA	ER	2	0,52	5	jan-14	Ilse van Bommel
5	1	ASTRON	NL	UCT	ZA	ER	2	0,43	6	feb-14	Ilse van Bommel
3	1	ASTRON	NL	UCT	ZA	ER	2	0,21	6	feb-14	Jan Geralt bij de Vaate
6	1	ASTRON	NL	UCT	ZA	ER	2	0,53	6	feb-14	Rob Millenaar
1	1	ASTRON	NL	SU	ZA	ESR	2	5,57	6	feb-14	Mark Kleijnen
11	4	SU	ZA	ASTRON	NL	ESR12	4	1,13	7	mrt-14	Vereese van Tonder
12	4	SU	ZA	ASTRON	NL	ESR10	4	1,13	7	mrt-14	Jacki Gilmore
13	4	SU	ZA	OSO	SE	ER16	3	0,53	8	apr-14	André Young
14	4	SU	ZA	OSO	SE	ESR	4	2,43	8	apr-14	David Prinsloo
15	4	SU	ZA	OSO	SE	ESR	3	1,83	8	apr-14	Theunis Beukman
16	5	UCT	ZA	OSO	SE	ESR6	3	2,03	8	apr-14	Bernard Asabere
17	5	UCT	ZA	ASTRON	NL	ESR?	3	2,97	9	mei-14	Iniyana Natarajan
8	3	RU	ZA	ASTRON	NL	ER15	3	2,94	9	mei-14	Trienko Grobler
9	3	RU	ZA	ASTRON	NL	ESR9	3	2,94	9	mei-14	Spheshile Makhathini
10	3	RU	ZA	ASTRON	NL	ER23	3	2,94	9	mei-14	Griffin Foster
	1	ASTRON	NL	SU	ZA	ER	3	0,32	7	mrt-14	Jason Hessels
	1	ASTRON	NL	SU	ZA	ER	3	0,59	15	nov-14	Stefan Wijnholds
	1	ASTRON	NL	UCT	ZA	ER	2	0,95	15	nov-14	Rob Millenaar
	1	ASTRON	NL	SU	ZA	MNGT	1	0,46	18	feb-15	Arnold van Ardenne
	5	UCT	ZA	ASTRON	NL	ER	2	1,00	11	jul-14	Ed Elson
	5	UCT	ZA	ASTRON	NL	ER	2	1,95	11	jul-14	Richard Armstrong
	4	SU	ZA	OSO	SE	ER20	4	1,68	11	jul-14	Dirk de Villiers
	4	SU	ZA	OSO	SE	ER20	4	4,05	13	sep-14	Dirk de Villiers
	4	SU	ZA	ASTRON	NL	ESR10	4	0,73	15	nov-14	Jacki Gilmore



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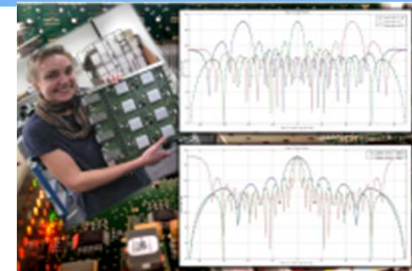


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Status Schedule

- Very positive spirit with positive perspective for ESR/PhD's
 - Publications and networking
 - Several In-between meetings
- To be updated but
- Secondments potential not achieved realized in previous period
 - Now estimated at 1/3 of total 154mmo
- Affects all partners
- Notice:
 - Fever secondments: Reduction subtracted from advance payment
 - Status (also payment) to be checked



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Local Coordinators

- To establish a supporting network for MIDPREP exchanges
- Participating institute assigns “single point of contact” to coordinates the exchanges
- Be part of progress and reporting meetings/telcons

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To remember: Acknowledgment

- The European Union support of Marie Curie Actions will be referenced in publications, conference papers, presentations and posters in connection with this project
- “This research was supported by a Marie Curie International Research Staff Exchange Scheme Fellowship within the 7th European Community Framework Programme MIDPREP under Grant Agreement PIRSES-GA-2013-612599

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Summary

- Program on track and performing fine
- Secondment schedules need updating but performance requires catching up
 - Action for all participants
- Propose third workshop in South Africa April-June 2016



P.S. Acknowledge MIDPREP in publications and presentations please

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