Region Covered by activities	Africa
Position Title:	Chief of IT Department- (RARS TELECOMMUNICATIONS EXPERT ACMAD-SAWIDRA Project(1St July 2017- 30th September 2020)
Start Month and Year – Expected end month and year	January-December 2020

PROGRESS REPORT

1. General Information

Lead Partner Organisation	African Centre of Meteorological Applications for Development (ACMAD)
Other Partners Involved	Afdb/SOLETOP/Pinkmatters/Callisto/ACMAD
Names and position of Activity Lead (Corresponding author of this report)	Chief of IT Department/Pi
Support Staff contributing or co-authors if applicable	N/A
Reporting Period (start and end months and years)	January -December 2020
Date of Report	Dec 27th 2020

2. Activities/deliverables planned and related achievements

Provide your work plan and a table summary as below of the activities undertaken over the period with reference to the activities stated in your work plan and the ACMAD's or our project's programme of work, strategy and/or operating plans . Provide a short section summarizing the activities planned for the nex period.

If the activities differed significantly from the anticipated activities in the programme of work or plan, please give the reason and outline any impacts this had

Activities/Deliverable	Achievements	Constrains/opportunities
D-R1 **RARS-Africa network installation**	Gabon antenna Installed Testing and SAT performed	CoVID-19 lockdown affected installation process.
D-R1.1 1. Install RARS antenna in Gabon: - Monitor the Construction of the tour and civil works in GABON site - Install RARS antenna in Gabon. - Monitor and coordinate with the Callisto Technical asstan,ce FIRM, Pinkmatter and SOLETOP to deploy the Software on the installed RARS station. - Work with Technical assistance FIRM to organise SIT and OSAT - participate to installations of RARS antenna - Monitor Remote access to station by Pinkmatter for the software deployement - support establishment of data exchange with NMP centres through WMO/WIS (Special link between AGEOS	- Soil study conducted in Gabon. - -Antenna tour constructed - Equipment delivered to GABON - The antenna tour has been completed in September 20th *Gabon Antenna tour:* 2020 - SIT has been organised and achieved in collaboration with	CoVID-19 lockdown affected installation process. The Installation expert from Orbital systems and SOLETOP couldn't travel to AGEOS because of lockdown.Now Gabon is open but USA still travels not open. - The GIBS company had some communications and coordination challenges with AGEOS to implement the tour construction. We has a specific teleconference with all parties, set up a GABON civil works WHATAPP group and boost the construction

and Libreville/Brazzaville GTS node)	the RARS FIRM Callisto - A remote access credentials have been prepared by Gabon to allow PinkMatters remote access to Gabo site - The Site Acceptance test has also been performed	which ended in September 2020.
2. D-R1.2 - Install RARS antenna in Kenya: - Monitor Remote access to station by Pinkmatter for the software deployement -Organise teleconferences and coordinate the Software development activities. -Work with Technical assistance FIRM to organise SIT and OSAT -participate to installations of RARS antenna - Support establishment of data exchange with NMP centres through WMO/WIS (Special link between ICPAC and KMD GTS node)	- SOLETOP has made necessary arrangement and The Antenna Tour has been constructed - The FTP credential for remote access to KENYA site have been arrange for Pinkmatter to test site remote access . - SIT has been achieved and the 6 Minor and one Major NCR (non complient Requirement) have been addressed and SIT has been declared passed. Image of the RARS antenna in Kenya.	CoVID-19 lockdown affected installation process. Kenya site has been reopen to traffic with resections to few countries that could travel to Kenya. But installation experts are still affected by the restriction of travels from their countries (KOREA and USA).

3. D-R1.3 Install RARS antenna in South Africa: - Monitor Remote access to station by Pinkmatter for the software deployement -Organise teleconferences and coordinate the Software development activities. -Work with Technical assistance FIRM to organise SIT and OSAT -participate to installations of RARS antenna Missions (3) at ICPAC, AGEOS and SANSA for on-site test and receptions	Antena Istalled at SANSA south Africa. Due to CoVID-19 lockdown The Installation firm , SOLETOP subcontracted with the SANSA to have the antenna installed. RARS station has been installed in South Africa. SOLETOP due to COVID-19 situation has made arrangement with SANSA which has very good experience in space technologies to install the RARS station in SANSA. The installation ahs been successful and validated by SOLETOP and Orbital systems. Pinkmatters being located in South Africa, the SANSA station test of software will be performed smoothly Image of SANSA RARS antena	

4. **D-R1.4** Install RARS antenna in Niger: -Finish site preparation of RARS antenna in Niamey: civil works -Monitor FTP data received from Pinkmatter -Organise teleconferences and coordinate the Software development activities. -Work with Technical assistance FIRM to organise SIT and OSAT -participate to installations of RARS antenna -Optimize internet access at ACMAD to provide fluent service. - Prepare FTP link and necessary telecommunication link with Agrhymet hosting site. - Support establishment of data exchange with NMP centres through WMO/WIS (Special link between AGRHYMET/ACMAD and ASECNA/Niamey airport GTS node)	- The antenna base in Niger has been constructed by SOLETOP - The civil works have been identified and planned. Trees will be cut close to antenna installation date. - FTP remote acces to Niger site has been arranged for Pink matters to aceess Agrhymet hosting site. But the ACMAD fitp remote access is still operational for Pink matter to test FTP data delivery. About 5 GB RARS data have been shared with ACMAD as test. SIT has been organised and outcomes are applicable to all sites. SAT has been performed and validated Niger antenna image.	In annex Zoom meeting Minutes and SIT reports and MoM SAT report available
Monitoring of the station operation	This activity will be performed when the station will be installed. For this period, This secured Ftp has been created as required and the sample RARS station data has veen send to ACMAD by PinkMatters in the development process of the FarEarth which is the RARS station software 538.9 Gb data have been sent to ACMAD up to August 31st 2020.	

DR2. High Performance Computing acquisition and installation HPC acquired and installed	Coordination of the HPC acquisition and installation (Technical configuration to Network of ACMAD. HPC room preparation. Other thecnical support in the framework of HPC installation Etc)	The HPC room has been prepared. For this period we made contribution the Custom clearance process. The customs required ACMAD to consider the Communitarian taxes. ACMAD required the support of AfDB office in Niger to have clearance of all taxes by considering that the importer of the equipment is ACMAD and the owner is AfDB. This process is still on going.
DR3. Support to Audit report for 2019 exercise	Preparation of secured FTP site to host project documents according to the list required by the auditor (finalization of financial report)	This secured FTP has been created and tested. The auditor has been contacted and informed.
	Coordination with SAWIDRA staff for posting all required audit document of FTP site.	All SAWIDRA documentations needed by the Auditor as per his ToRs have been posted on the FTP site.
DR4. Capacity building Expert trainees, internship/fellowship supervised	- Supervision, mentoring and Evaluation of Internship staff - Prepare new plan and programme of Internship for IT staff	Suppervision of Mr Gema Katiellou on the IT support at ACMAD
DR5 IT Operations and support IT and Website developed and updated	- Development and Update of ACMAD website	The ACMAD RCC web site has been updated as well as the SWIFT website nwith the development of all SWIF deliverable page on the New ACMAD site usin WORDPRESS.
	- Maintenance of ACMAD website and backup preparation	Maintenance of ACMAD website and updated performed.
	Give necessary administrative support to achieve IT related programmes: -	Recruitment of IT consultant to develop and improve Web site at ACMAD

	Preparation of temporary custom importation documentation and make necessary processing Facilitate IT equipment importation clearance.	
	Installation of New Internet service provider's configuration at ACMAD; Monitoring of the transition to the new Internet link.	On 22nd September 2020 the radio link Mast fall down, as result of storm and was replaced with a new one within 48hours.

3. Results or Outputs

Provide a summary of how the activities undertaken have helped to move the towards meeting its outputs/results

D-R1 **RARS-Africa network installation**

- *The hosting sites od Gabon and Kenya, which have civil works to complete, have been prepared to receive the installation of Antenna.*
- *Software Integration test –SIT has been conducted and activities closed on August 2020.*
- *Minutes of meeting in annex*
- *The planned site visit to view installations progress did not occur due to Covid -19 situation where all targeted site were closed to visit.*
- *Remote work has been privileged and we received images of the civil works conducted in Gabon and Keya, as well as the successful installation of the SANSA antenna.*
- *All 4 antenna have been installed and they are operational.*
- *The site acceptance test -SAT has been performed and is validated*

Practical example

Extent to which deliverable/ outputs are made	Please mark with a start one box only
Fully	

Mostly	X
Partly	
Not at all	

If the deliverable/outputs were not fully achieved, please describe the factors that prevented their full achievement in the box below.

Factors that prevented full achievement of the related tasks
Covid-19 pandemic situation affected RARS installation processes and hens many delivarables.

4. Synthesis on Deliverables

List deliverables (as stated in the work plan - indicate new deliverables) and detail progress towards completion.
As per attached table of achievement .

5. Risks, issues and mitigation actions

Provide detail on any risks or issues you have encountered in the implementation period. Please include detail on the mitigating actions you are taking in response to this.

Identified risk or issue	Mitigation action
-SANSA, Korea, and USA are still under lock-down , while all other three hosting sites are open to traffic. The risk is the installation Experts from USA and Korea could not travel to hosting sites now.	Find internal arrangement at SOLETOP level so that they use skills existing in the region to complete the installations of the Antenna. EG SANSA expertise which was successful in installing SANSA site.

-last extension of 4 months of the Contract of SOLETOP is on-going and no installation actions are on going	Have a fixed plan on installation with SOLETOP which will comply with the last possible extension of their contact.
(insert additional rows as required)	

6. Lessons learned and recommendations

Please describe any key lessons learned during the period that you feel could be shared with others. Do you have any recommendations for future initiatives based on these lessons learned?
• The Covid-19 Situation has affected several times the schedule of the project in terms of installation. That has created a contain on the installation FIRM SOLETOP which is still struggle to implement the last possible extension of its contact in this project.   • Remote job has been privileged during this period with many Zoom meetings and one line workshops.

7. Additional items for discussion

Please add any further bullet points on key items to discuss.
• The On the job training program did note occur during 2020 for the IT department mainly because SAWIDRA support for the OJT ended in 2019 and the Covi-19 pandemic situation created lockdown and programs disturbance.   • The Global development of infrastructure during this year is the RARS antenna which has been installed at Agrhymet . The G10 HP server acquired under UNDP G3CPNUD initiative has been configured and deliverd to Burundi as per convention together with a 24ports Gigabits Switch.   Below is the SAWIDRA RARS station Network:
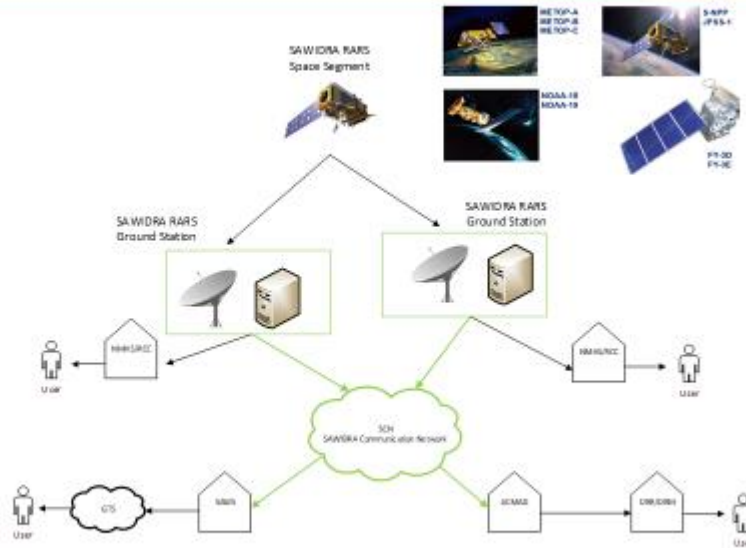
Figure 1 provides a system overview of SAWIDRA RARS (in green colour) ground segment and the external entities it is connected with.

Annex : Liste du Matériel Informatique

Catégorie de l'actif	Description	Date de livraison	P.U Hors TVA	Date de fin d'amortissement	Valeur Totale	N° Immatriculation	Localisation	Etat de l'immo	Observation/ numero serie	Source de financement
Total Matériel informatique			**11,585 ,027**		**11,585 ,027**					
Matériel informatique	Ecran Plat HP 20" LED	12/10/ 2012	125,00 0	2015	125,00 0	ACMAD/ISACIP/MAI/EP/12/004	Bureau DCE	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MAI/ST/13/006	Bureau DCE	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MAI/ST/13/007	Bureau DCE	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MAI/ST/13/008	Bureau DCE	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MAI/ST/13/009	Bureau DCE	Am orti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2 013		2016		ACMAD/ISACIP/MAI/EP/13/007	Bureau DCE	Am orti		ISACIP

Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/008	Bureau DCE	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/009	Bureau DCE	Amorti		ISACIP
Matériel informatique	Imprimante Laser couleur HP	11/6/2013	1,725,585	2016	1,725,585	N/I	Bureau DCE	Amorti		ISACIP
Matériel informatique	Imprimante Laser N&B HP	11/6/2013	695,845	2016	695,845	ACMAD/ISACIP/MAI/IP/13/006	Bureau DCE	Amorti		ISACIP
Matériel Informatique	Ordinateur de bureau-TR F604044	09/09/16	966,389	1	966,389	049/ACMAD/MESA/2016	DCE	Amorti		MESA
Matériel Informatique	Ordinateur de bureau-TR F60403W8	09/09/16	966,389	1	966,389	050/ACMAD/MESA/2016	DCE	Amorti		MESA
DIT										
Matériel informatique	Probook	11/1/2012	625,000	2015	625,000	ACMAD/ISACIP/MAI/LT/12/001	DIT	Amorti		ISACIP
Matériel informatique	Probook	11/1/2012	625,000	2015	625,000	ACMAD/ISACIP/MAI/LT/12/004	Bureau DIT	Amorti		ISACIP
Matériel informatique	Probook	11/1/2012	625,000	2015	625,000	ACMAD/ISACIP/MAI/LT/12/006	Bureau DIT	Amorti		ISACIP
Matériel informatique	Probook	11/1/2012	625,000	2015	625,000	ACMAD/ISACIP/MAI/LT/12/008	DIT	Amorti		ISACIP

Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000		2015	925,000	ACMAD/ISACIP/MAI/ST/12/001	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000		2015	925,000	ACMAD/ISACIP/MAI/ST/12/002	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000		2015	925,000	ACMAD/ISACIP/MAI/ST/12/003	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	12/10/2012	125,000		2015	125,000	ACMAD/ISACIP/MAI/EP/12/001	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	12/10/2012	125,000		2015	125,000	ACMAD/ISACIP/MAI/EP/12/002	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	12/10/2012	125,000		2015	125,000	ACMAD/ISACIP/MAI/EP/12/003	Bureau DIT	Amorti		ISACIP
Matériel informatique	Switch 24 ports Cisco	12/10/2012	115,000		2015	115,000	ACMAD/ISACIP/MAI/SW/12/001	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur APC 1500va Smart	12/10/2012	455,000		2015	455,000	ACMAD/ISACIP/MAI/OD/12/001	Bureau DIT	Amorti		ISACIP
Matériel informatique	Switch 24 ports Cisco	12/10/2012	115,000		2015	115,000	ACMAD/ISACIP/MAI/SW/12/006	Bureau DIT	Amorti		ISACIP
Matériel informatique	Switch 24 ports Cisco	12/10/2012	115,000		2015	115,000	ACMAD/ISACIP/MAI/SW/12/007	Bureau DIT	Amorti		ISACIP
Matériel informatique	Switch 24 ports Cisco	12/10/2012	115,000		2015	115,000	ACMAD/ISACIP/MAI/SW/12/008	Bureau DIT	Amorti		ISACIP

Matériel informatique	Switch 24 ports Cisco	12/10/2012	115,000	2015	115,000	ACMAD/ISACIP/MAI/SW/12/009	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur APC 1500va Smart	12/10/2012	455,000	2015	455,000	ACMAD/ISACIP/MAI/OD/12/006	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur APC 1500va Smart	12/10/2012	455,000	2015	455,000	ACMAD/ISACIP/MAI/OD/12/002	Bureau DIT	Amorti		ISACIP
Matériel informatique	Probook	11/1/2012	625,000	2015	625,000	ACMAD/ISACIP/MAI/LT/12/005	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000	2015	925,000	ACMAD/ISACIP/MAI/ST/12/004	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	1,776,455	2016	1,776,455	ACMAD/ISACIP/MAI/ST/13/010	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/006	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/010	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur Smart Tripp	11/6/2013	2,432,550	2016	2,432,550	ACMAD/ISACIP/MAI/OD/13/004	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur Smart Tripp	11/6/2013	2,432,550	2016	2,432,550	ACMAD/ISACIP/MAI/OD/13/005	Bureau DIT	Amorti		ISACIP
Matériel informatique	Disque dur Externe	11/6/2013	275,450	2016	275,450	ACMAD/ISACIP/MAI/DD/14/003	Bureau DIT	Amorti		ISACIP

	SEAGAT E								
Matériel informat ique	Disque dur Externe SEAGAT E	11/6/2 013	275,45 0	2016	275,45 0	ACMAD/ISACIP/MA I/DD/14/004	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Disque dur Externe SEAGAT E	11/6/2 013	275,45 0	2016	275,45 0	ACMAD/ISACIP/MA I/DD/14/005	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Disque dur Externe WD 2TO	12/10/ 2013	235,00 0	2016	235,00 0	ACMAD/ISACIP/MA I/DD/13/001	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Ordinateur de bureau DELL	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MA I/ST/13/004	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Ordinateur de bureau DELL	11/6/2 013	1,776, 455	2016	1,776, 455	ACMAD/ISACIP/MA I/ST/13/005	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Ecran Plat HP 20" LED	11/6/2 013		2016		ACMAD/ISACIP/MA I/EP/13/004	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Ecran Plat HP 20" LED	11/6/2 013		2016		ACMAD/ISACIP/MA I/EP/13/005	Bureau DIT	Am orti	ISACIP
Matériel informat ique	Imprimant e Laser couleur HP	11/6/2 013	1,725, 585	2016	1,725, 585	ACMAD/ISACIP/MA I/IP/13/003	Bureau DIT	Moy en	ISACIP
Matériel informat ique	Imprimant e Laser N&B HP	11/6/2 013	695,84 5	2016	695,84 5	ACMAD/ISACIP/MA I/IP/13/004	Bureau DIT	Moy en	ISACIP
Matériel informat ique	Armoir Rack	11/6/2 013	1,229, 835	2016	1,229, 835	ACMAD/ISACIP/MA I/AR/13/001	Bureau DIT	Moy en	ISACIP

Matériel informatique	Data base server DELL	11/6/2013	9,975,865	2016	9,975,865	ACMAD/ISACIP/MAI/DBS/13/001	Bureau DIT	Moyen		ISACIP
Matériel informatique	Onduleur Smart Tripp	11/6/2013	2,432,550	2016	2,432,550	ACMAD/ISACIP/MAI/OD/13/002	Bureau DIT	Amorti		ISACIP
Matériel informatique	Onduleur Smart Tripp	11/6/2013	2,432,550	2016	2,432,550	ACMAD/ISACIP/MAI/OD/13/003	Bureau DIT	Amorti		ISACIP
Matériel informatique	Disque dur Externe WD 2TO	12/10/2013	235,000	2016	235,000	ACMAD/ISACIP/MAI/DD/13/002	Bureau DIT			ISACIP
Matériel informatique	Disque dur Externe WD 2TO	12/10/2013	235,000	2016	235,000	ACMAD/ISACIP/MAI/DD/13/003	Bureau DIT			ISACIP
Matériel informatique	Disque dur Externe WD 2TO	12/10/2013	235,000	2016	235,000	ACMAD/ISACIP/MAI/DD/13/004	Bureau DIT			ISACIP
Matériel informatique	Disque dur Externe WD 2TO	12/10/2013	235,000	2016	235,000	ACMAD/ISACIP/MAI/DD/13/005	Bureau DIT			ISACIP
Matériel informatique	Disque dur Externe SEAGATE	10/2/2014	275,450	2017	275,450	ACMAD/ISACIP/MAI/DD/14/001	Bureau DIT			ISACIP
Matériel informatique	Disque dur Externe SEAGATE	10/2/2014	275,450	2017	275,450	ACMAD/ISACIP/MAI/DD/14/002	Bureau DIT			ISACIP
Matériel informatique	Ordinateur de bureau HP 3500	10/2/2014	675,000	2017	675,000	ACMAD/ISACIP/MAI/EP/14/032	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP 3500	10/2/2014	675,000	2017	675,000	ACMAD/ISACIP/MAI/EP/14/033	Bureau DIT	Amorti		ISACIP

Matériel informatique	Ecran Plat HP 20" LED	10/2/2014		2017		ACMAD/ISACIP/MAI/EP/14/032	Bureau DIT	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	10/2/2014		2017		ACMAD/ISACIP/MAI/EP/14/033	Bureau DIT	Amorti		ISACIP
Matériel informatique	Server HP Proliant ML 350 G6	10/2/2014	3,150,000	2017	3,150,000	ACMAD/ISACIP/MAI/SV/14/002	Bureau DIT	Moyen		ISACIP
Matériel informatique	Switch D-LINK 24 port	10/2/2014	65,000	2017	65,000	ACMAD/ISACIP/MAI/SW/12/002	Bureau DIT			ISACIP
Matériel informatique	Licence Logiciel TOM2PRO	10/2/2014	5,904,000	2017	5,904,000	ACMAD/ISACIP/MAI/LL/14/001	Bureau DIT			ISACIP
Matériel informatique	Switch TP-LINK 24 Ports	12/15/2014	48,500	2017	48,500	ACMAD/ISACIP/MAI/SW/14/003	Bureau DIT			ISACIP
Matériel informatique	Switch TP-LINK 24 Ports	12/15/2014	48,500	2017	48,500	ACMAD/ISACIP/MAI/SW/14/004	Bureau DIT			ISACIP
Matériel informatique	Switch TP-LINK 24 Ports	12/15/2014	48,500	2017	48,500	ACMAD/ISACIP/MAI/SW/14/005	Bureau DIT			ISACIP
Matériel Informatique	Ordinateur portable-Hp pro book 454S-S/N 2CE41305YB	6/4/2015	495,799	2018	495,799	001/ACMAD/MESA/2015	Bureau DIT	Bon		MESA

Matériel informatique	Probook	8/6/2015	1,836,390	2018	1,836,390	ACMAD/ISACIP/MAI/LT/12/010	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/038	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/039	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/040	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/041	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/042	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/043	DIT	Amorti		ISACIP

Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/044	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/045	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/046	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/047	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/048	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/049	DIT	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau HP Elite 8300	8/6/2015	892,620	2018	892,620	ACMAD/ISACIP/MAI/ST/15/050	DIT	Amorti		ISACIP

Matériel informatique	Server DELL Poweredge R730	8/12/2015	1,709,550	2018	1,709,550	ACMAD/ISACIP/MAI/SV/14/003	Bureau DIT	Moyen	ISACIP
Matériel informatique	Appareils photo numérique	8/12/2015	695,845	2018	695,845	ACMAD/ISACIP/MAI/PN/15/001	Bureau DIT	Moyen	ISACIP
Matériel informatique	Appareils photo numérique	8/12/2015	695,845	2018	695,845	ACMAD/ISACIP/MAI/PN/15/002	DIT	Moyen	ISACIP
materiel informatique	Temperature and Humidity Controller	9/13/2017	-	1	-	075ACMAD/MESA/2016	DIT	Moyen	MESA
materiel informatique	Rack APC 42U	9/14/2017	3,862,786	1	3,862,786	076ACMAD/MESA/2016	DIT	Moyen	MESA
Matériel Informatique	hp pavilion i7 15-cc0xx 1TB 8gb RAM	3/12/2019	607,460	1	607,460	008/ACMD/SAW/019	Ali Abani, Expert RARS du Projet	Neuf	SAWIDRA
Matériel Informatique	hp pavilion i7 15-cc0xx 1TB 8gb RAM	3/12/2019	607,460	1	607,460	009/ACMD/SAW/019	Peter-William Abbey, Expert IT et Base de données du Projet	Neuf	SAWIDRA

Matériel Informatique	Disque dur externe 2 TB THOSIBA Série :2896TH9 LTSVF	3/12/2019	75,000	1	75,000		Peter-William Abbey, Expert IT et Base de données du Projet			SAWIDRA
Matériel Informatique	Onduleur Eaton 5E 1500i usb, 1500 va	9/20/2019	500,000	1	500,000	056/ACMD/SAW/019	DIT	Neuf		SAWIDRA
Matériel Informatique	Onduleur Eaton 5E 1500i usb, 1500 va	9/20/2019	500,000	1	500,000	058/ACMD/SAW/019	DIT	Neuf		SAWIDRA
Total Matériel informatique			**27,806,545**		**27,806,545**					
Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000	2015	925,000	ACMAD/ISACIP/MAI/ST/12/005	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	12/10/2012	125,000	2015	125,000	ACMAD/ISACIP/MAI/EP/12/005	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	1,776,455	2016	1,776,455	ACMAD/ISACIP/MAI/EP/13/024	Bureau DVP	Amorti		ISACIP

Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/024	Bureau DVP	Am orti		ISACIP
Matériel informatique	Imprimante Laser couleur HP	11/6/2013	1,725,585	2016	1,725,585	ACMAD/ISACIP/MAI/IP/13/007	Bureau DVP	Am orti		ISACIP
Matériel informatique	Imprimante Laser N&B HP	11/6/2013	695,845	2016	695,845	ACMAD/ISACIP/MAI/IP/13/008	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	1,776,455	2016	1,776,455	ACMAD/ISACIP/MAI/EP/13/011	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	2,455,675	2016	2,455,675	ACMAD/ISACIP/MAI/EP/13/012	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	2,455,675	2016	2,455,675	ACMAD/ISACIP/MAI/EP/13/013	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	2,455,675	2016	2,455,675	ACMAD/ISACIP/MAI/EP/13/014	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	2,455,675	2016	2,455,675	ACMAD/ISACIP/MAI/EP/13/015	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ordinateur de bureau DELL Optiplx	11/6/2013	2,455,675	2016	2,455,675	ACMAD/ISACIP/MAI/EP/13/016	Bureau DVP	Am orti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/011	Bureau DVP	Am orti		ISACIP

Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/012	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/013	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/014	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/015	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	11/6/2013		2016		ACMAD/ISACIP/MAI/EP/13/016	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau DELL	8/12/2015	1,591,650	2018	1,591,650	ACMAD/ISACIP/MAI/ST/15/017	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau DELL	8/12/2015	1,591,650	2018	1,591,650	ACMAD/ISACIP/MAI/ST/15/018	Bureau DVP	Amorti		ISACIP
Matériel informatique	Ordinateur de bureau DELL	8/12/2015	1,591,650	2018	1,591,650	ACMAD/ISACIP/MAI/ST/15/019	Bureau DVP	Amorti		ISACIP
Matériel informatique	imprimante LaserJet Couleur	8/12/2015	1,126,600	2018	1,126,600	ACMAD/ISACIP/MAI/IP/12/010	Bureau DVP	Amorti		ISACIP

Matériel Informatique	Onduleur APC 1400VA	7/16/2019	220,000	1	220,000	ACMAD/MAB/019/006	DVP	Neuf		ACMAD
Matériel Informatique	hp pavilion i7 15-cc0xx 1TB 8gb RAM, n° de serie: 5CD72862H3	3/12/2019	607,460	1	607,460	002/ACMD/SAW/019	Léon Guy R., Cordonnateur du Projet	Neuf		SAWIDRA
Matériel Informatique	hp pavilion i7 15-cc0xx 1TB 8gb RAM	3/12/2019	607,460	1	607,460	010/ACMD/SAW/019	Godefroid NSHIMRIMANA,Expert en PNT	Neuf		SAWIDRA
Matériel Informatique	hp pavilion i7 15-cc0xx 1TB 8gb RAM	3/12/2019	607,460	1	607,460	012/ACMD/SAW/019	Bamidele OLORUNTOBA,Expert Modelisateur du Projet	Neuf		SAWIDRA
logiciel	Kaspersky anti virus 365 jours	3/12/2019	14,975	1	14,975	026/ACMD/SAW/019	Léon Guy R., Cordonnateur du Projet			SAWIDRA
logiciel	Kaspersky anti virus 365 jours	3/12/2019	14,975	1	14,975	034/ACMD/SAW/019	Godefroid NSHIMRIMANA,Expert en PNT			SAWIDRA

logiciel	Kaspersky anti virus 365 jours	3/12/2019	14,975	1	14,975	035/ACMD/SAW/019	Ikenna Orisakwe, Assistant PNT			SAWIDRA
logiciel	Kaspersky anti virus 365 jours	3/12/2019	14,975	1	14,975	036/ACMD/SAW/019	Bamidele OLORUNTOBA,Expert Modelisateur du Projet			SAWIDRA
Matériel Informatique	Onduleur Eaton 5E 1500i usb, 1500 va	9/20/2019	500,000	1	500,000	057/ACMD/SAW/019	DVP	Bon		SAWIDRA
Secretariat										
Total Matériel informatique			**1,386,132**		**1,386,132**					
Matériel informatique	Ordinateur de bureau HP Elite	12/10/2012	925,000	2015	925,000	ACMAD/ISACIP/MAI/ST/12/007	Secrétariat	Amorti		ISACIP
Matériel informatique	Ecran Plat HP 20" LED	7/12/2014	125,000	2017	125,000	ACMAD/ISACIP/MAI/EP/12/011	Secrétariat	Amorti		ISACIP

Matériel Informatique	Imprimante laser Jet pro 400 MFP M425dn-S/N CNF8H63HCP	9/10/2015	336,132	2018	336,132	014/ACMAD/MESA/2015	Safia	Amorti		MESA

Conclusion /recommendation/plan future

work plan 2021														
Deliverables	**Activities**	J	F	M	A	M	J	J	A	S	O	N	D
	RARS-Africa network operationalisation													
4 RARS stations installed and connected to GTS	1. Monitor RARS antenna activities in Gabon: - Monitore RARS operations and the Garanti period - Contribute to RARS telecommunications - support establishment of data exchange with NMP centres through WMO/WIS (Special link between AGEOS and Libreville/Brazzaville GTS node)												
	2. Monitor RARS antenna activities in Kenya: - contribute to the RARS telecommunication network establishment - Support establishment of data exchange with NMP centres through WMO/WIS (Special link between ICPAC and KMD GTS node)												
	3. Monitor RARS antenna activities in Niger: -participate to the monitoring of RARS antenna -Optimize internet access at ACMAD to provide fluent service. - Prepare FTP link and necessary telecommunication link with Agrhymet hosting site. - Support establishment of data exchange with NMP centres through WMO/WIS (Special link between AGRHYMET/ACMAD and ASECNA/Niamey airport GTS node)												
	4. Monitor RARS antenna eploitation in South Africa: - Explore with SAWS the possibility to connect RARS station to GTS hub in SAWS.												
	- Monitoring of the station operation												
	-Planification of Maintenance and RARS Network operation												
	High Performance Computing acquisition and installation													
HPC acquired and installed	1. Coordination of the HPC acquisition and installation (Technical configuration to Network of ACMAD. HPC room preparation. Other thecnical support in the framework of HPC installation and management Etc)												
	Preventive Maintenance of ACMAD Equipment													
Maintenance	2. Maintenance of the Integrated sytems of ACMAD/ PUMA station etc.												

	3. Acquisition of Maintenace tools and new equipment to improve network											
	.											
Project closure												
Closure report	4. Drafting of final report											

Capacity building												
Expert trainees, internship/fellowship supervised	- Supervision, mentoring and Evaluation of Internship staff - Prepare new plan and programme of Internship for IT staff											
IT Operations and support												
	Development and Update of ACMAD website											
	Maintenance of ACMAD website and backup preparation											
IT and Website developed and updated	Give necessary administrative support to achieve IT related programmes: Preparation of temporary custom importation documentation and make necessary processing Facilitate IT equipment importation clearance.											
	Installation of New Internet service provider's configuration at ACMAD; Monitoring of the transition to the new Internet link.											
ACMAD Operational Activities												
Telecommunications and IT support	Test and Monitor GTS Link with ASECNA Update of ACMAD websites											

Reports on support to other Departments and units as well as Meteorological Services and Centres or users	Maintain and support ACMAD's technical installations (answer Advanced configurations needs)												
Report on the activities and outputs/deliverables (weekly reports and timesheets, quarterly reports and activity schedules, annual and final reports)	Make a weekly report, timesheets using relevant templates prepare quarterly reports and activity schedules												
	prepare annual and final reports												

Indicative List of Equipment to Improve IT operations in 2021

Item	Caractéristics	Indicative Unite cost in CFA	Quantity	Estimation total cost in CFA	Comments
Gigabits SWITCH	24 ports Gigabit Switch 100/1000	260000	7	1820000	That will improve Network speed at ACMAD
Server Gen 10	Gen 10 Server with Gigabit Nework adapter at leat 2	11 000 000	2	22 000 000	That will improve internet access and data management
Maintenance tools	Maintenace box with at least 700 items including Networking tools	2 000 000	1	2 000 000	
RG45 25 m Nework cable	Standard RG45 Network cable cat 6 25 m each	15 000	10	150 000	
RG45 10 m Nework cable	Standard RG45 Network cable cat 6 10 m each	10 000	10	100 000	
Air Compressor 50 L	Air Compressor 50L with blowing kit	800 000	1	800 000	
Rouleau 300 m RG45 cable	300m RG45 cat 6 Network cable	300 000	1	300 000	

Desk top computers	Desktop computers 2TB DD, 32 GB RAM	2 000 000	8	16 000 000	This is to replace production comptuers at DVP, DCE, DIT and key positions DG RAF, RH, Cont Fin, Logistics