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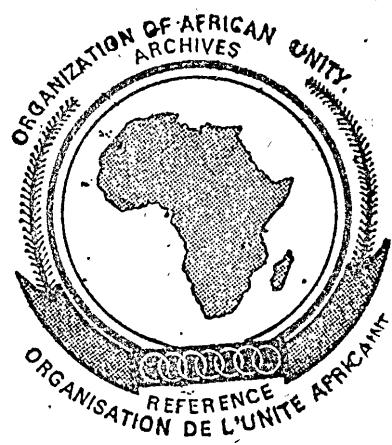
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COUNCIL OF MINISTERS
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CM/824(XXIX)

REPORT ON THE
IMPLEMENTATION OF THE PANAFRICAN TELECOMMUNICATION NETWORK
(PANAFTEL)



C 10 824

MICROFICHE

ORGANIZATION OF AFRICAN UNITY
AFRICAN DEVELOPMENT BANK

INTERNATIONAL TELECOMMUNICATION UNION
ECONOMIC COMMISSION FOR AFRICA

IVTH REPORT OF THE COORDINATING COMMITTEE FOR THE IMPLEMENTATION
OF THE PAN-AFRICAN TELECOMMUNICATION NETWORK

I. INTRODUCTION

1. The Coordinating Committee for the Implementation of the Pan-African Telecommunication Network, meeting in accordance with Resolution CM/Res.309(XXI) of the Council of Ministers of the Organization of African Unity, met at OAU Headquarters 11-13 May 1977, to discuss the progress being made in the implementation of the Network and related subjects concerning telecommunications in Africa. The Coordinating Committee has the honour to submit the following report to the Council of Ministers:-
2. In accordance with Resolution CM/Res.404 (XXIV) of OAU and following Resolution 1 of the 1975 Second African Telecommunications Administrations Conference held in Kinshasa in 1975, under the auspices of the Coordinating Committee, a Plenipotentiary Conference to establish a Pan-African Telecommunications Union was convened in Addis Ababa on 9 May 1977, by the Administrative Secretary-General of OAU. The Report of this Conference will be submitted to the Council of Ministers by the Administrative Secretary-General of OAU.
3. In addition to Resolution 1, concerning the Pan-African Telecommunications Union, the Kinshasa Conference adopted 15 other resolutions bearing on various aspects of telecommunications operation and development. The Coordinating Committee discussed the progress being made in the implementation of these resolutions and identified several problems that were being encountered. Two points of special interest which emerge from the discussion should perhaps be noted here:
 - a) A general matter which affects the action taken to respond to a considerable number of resolutions is the severe shortage of funds from UNDP which is being experienced at present. This has severely hampered the efforts being made to respond to these resolutions and

has set back the programme of technical assistance for the development of telecommunications in Africa in a considerable number of fields.

- b) The most encouraging perspective which emerges from the analysis is the pattern of regular sub-regional coordination committee meetings which have been held since the Kinshasa Conference. These auger well for continued collaboration between the countries of Africa concerned with the establishment of the Pan-African Telecommunications Network and form the basis for a wider cooperation within the framework of the Pan-African Telecommunications Union.

II. Financing of the PANAFTEL Network

4. The PANAFTEL Coordinating Committee considered those sections of the PANAFTEL Network for which pre-investment studies had been carried out but for which financing had not been obtained. The Coordinating Committee appreciated the fact that in certain cases the delay in implementation was the result of changes in the priorities afforded to particular sections of the Network by the governments concerned. It was agreed that, for the sections for which high priority was being maintained, renewed efforts would be made to assist the countries concerned to obtain the necessary financing. The sections that require financing are tabulated in Annex 1 hereto.

5. During and since the Kinshasa Conference, about 35,000 kms of new PANAFTEL routes and several new international switching centres have been identified by the countries concerned. To permit the countries concerned to give appropriate priorities to their sections of these additional links or for the proposed Switching Centres and to obtain the necessary financing, it will be necessary to carry out preliminary studies followed by preinvestment studies for these sections found feasible.

6. UNDP funds will not be available for more than a small fraction of these studies and so a new source of financing must be sought. The search for financing would be facilitated if the interested countries were to reconfirm their

requirements through official channels. A list of the concerned new routes and Switching Centres are tabulated in Annex 2 together with indication of any official reconfirmation that have been received.

III. Problems being Encountered

7. A major problem affecting the rentability of the terestrial links of the PANAFTEL Network is the growing tendency in Africa to utilize satellite communication earth stations for communication over short distances even between neighbouring countries. The satellite communication technology provides a most attractive method of providing communications over long distances especially for international circuits. Even where the low level of traffic does not justify the provision of full time circuits between terminal countries distant from each other, the use of demand assignment techniques can provide a valid economic method of serving the need. However, great care must be taken that for distances of about 2,500 kms and less to ensure that the satellite system is not used to divert traffic which from a technical and viability point of view should use the PANAFTEL Network. The reasoning behind this caution is that the PANAFTEL Network provides the means of improving the national network together with the international links. The desired development of telecommunications in Africa requires that equal importance be given to the national as well as the international sectors of the telecommunication network. A second factor which for practical reasons must be taken into consideration is the cost of the space segment which is a charge that must be met in convertible hard currency. The Coordinating Committee recognized the mutual advantages of neighbouring States to share the use of telecommunication facilities such as satellite communication earth stations. However, only two such arrangements have been observed in Africa. Such arrangements would have economic advantages to the partner States and at the same time provide additional traffic to the PANAFTEL Network.

8. The Coordinating Committee considered other problems arising out of operational, maintenance, and training activities. It noted the steps being taken to identify these problems and the efforts being taken to obtain the financial resources to resolve them. As with the studies for the PANAFTEL Network, the resources available from UNDP will not be sufficient and therefore urgent efforts must be made to identify and obtain funds from other sources. A step in this direction has been obtained in the form of bilateral aid which it is hoped will permit the man power study to be commenced.

IV. Use of a Regional Satellite System for Education and Development in Africa

9. The Coordinating Committee consequent to the OAU Resolution CM/Res.506(XXVII) of Mauritius 1976 and ECA Resolution 310(XIII) of Kinshasa 1977, noted that the three concerned members of the Coordinating Committee were taking initial steps to implement these resolutions.

V. Report on ITU/UNDP Assistance on the Implementation of PANAFTEL

10. It is to be recalled that with UNDP financial assistance, experts have been placed at strategic location in Africa to assist telecommunication administrations in the detailed planning, selection of equipment and the installation of the PANAFTEL Network.

11. Now that a good portion of the network is under installation with the view of putting in new and improved services in the near future, there is a pressing need for providing additional technical assistance to African administration, by expanding the scope of the activities of the experts in order to provide for the needs of maintenance and operation of this important Network.

12. Although UNDP has made and continues to make determined efforts to provide funds to meet the growing technical assistance requirements for the PANAFTEL project, the magnitude of the continental operation is such that additional resources need to be secured to ensure the proper operation and maintenance of network including training.

Administrative Secretary-General of
the Organization of African Unity

William Eteki Mboumoua

Deputy Executive Secretary
of the Economic Commission
for Africa

David C. Ganao

Secretary-General of the
International Telecommunications
Union

Mohamed Mili

African Development Bank



IMPLEMENTATION OF PAN-AFRICAN TELECOMMUNICATION NETWORK
MISE EN OEUVRE DU RESEAU PANAFRICAIN DE TELECOMMUNICATION

Country - Pays Switching Centre/Centre de commutation	Date(to be) commissioned - date de mise en service (prévue)	Source of funds & date - Source de financement et date
BENIN	Cotonou	80
BOTSWANA	Gaberones	-
BURUNDI	Bujumbura	79
CAMEROON/CAMEROUN	Yaoundé	early 78
CENTRAL AFRICAN EMPIRE	Bangui	-
EMPIRE CENTRAFRICAIN	Brazzaville	1979
CONGO	Addis Ababa/ Addis-Abéba	mid 78
ETHIOPIA/ETHIOPIE	Malabo	-
EQUATORIAL GUINEA/ GUINEE-EQUATORIALE	Libreville	end/78 fin
GABON	Banjul	80
GAMBIA/GAMBIE	Accra	9/79
GHANA	Conakry	79
GUINEA/GUINEE	Abidjan	7/75
IVORY COAST/ COTE D'IVOIRE	Nairobi	72
KENYA	Maseru	6/72
LESOTHO		ext. 10/77
LIBERIA	Monrovia	79
MALAWI	Blantyre/Limbe	12/78
MALI	Bamako	79
MAURITANIA/MAURITANIE	Nouakchott	79
NIGER	Niamey	80
NIGERIA	Lagos	4/79
RWANDA	Kigali	-
SENEGAL	Dakar	12/76
SIERRA LEONE	Freetown	-
SOMALIA/SOMALIE	Mogadishu	-
SUDAN/SOUDAN	Khartoum	3/77
SWAZILAND	Mbabane	8/77
TANZANIA/TANZANIE	Dar-Es-Salaam	6/78
TOGO	Lomé	6/78 (CTN)
UGANDA	Kampala	3/78
UPPER VOLTA/HAUTE VOLTA	Ouagadougou	7/77
ZAIRE	Kinshasa	12/77
ZAMBIA/ZAMBIE	Lusaka	4/77

Transmission Routes Artères de transmission	date (to be) commissioned/ date de mise en service (prévue)	Source of funds & date/Source de financement et date
BENIN (BEN)		
BEN-NER Bohicon-Bodjekali Frontière	78	CAN
BEN-NIR Cotonou-Porto Novo-Frontière	3/76	BEN/NIR
BEN-TOG Ouidah-Frontière	73	FRA
BOTSWANA (BOT)		
BOT-AAA Gaberones-Francistown	78	ADB/BAD
BOT-ZAM Francistown-Frontière	80	-
BURUNDI (BDI)		
BDI-URT Bujumbura-Frontière	-	-
BDI-ZAI Bujumbura-Bukavu	78	NDL
CAMEROON/CAMEROUN (CMR)		
CMR-AAA Yaoundé-Ebolowa	8/77	CMR
CMR-BBB Yaoundé-Sangmélima	8/77	-
CMR-EQG Ebolowa-(Bata)	-	-
CMR-CHD Kousseri-Frontière	78	USA
CMR-NIR Kousseri-Frontière	78	USA
CENTRAL AFRICAN EMPIRE/EMPIRE CENTRAFRICAIN (CAF)		
CAF-CMR Bangui-Gamboula	12/76	USA (Exim)
CAF-BBB Berberati-Nola	-	GER
CAF-CHD Bossembele-Paoua-Frontière	-	ADB/BAD
CAF-PRC Bangui-Impfondo	to be coordinated with PCR	ADB/BAD/FRA
CHAD/TCHAD (CHD)		
CHD-AAA N'Djamena-Moundou-Sahr	-	ADB/BAD
CHD-CAF Moundou-Frontière-CAF	-	ADB/BAD
CHD-CMR-NIR N'Djamena-Frontière	78	USA
CONGO (PRC)		
PRC-AAA Brazzaville-Ouesso-Impfondo	8/78	FRA/BAD
PRC-ZAI Brazzaville-Kinshasa	78	-
PRC-CAF Imptondo-Bangui	to be coordinated with CAF	
ETHIOPIA/ETHIOPIE (ETH)		
ETH-KEN Shashemane-Moyale	6/78	IBRD/IDA
ETH-SOM Jijiga-Tug Wajali	-	-
ETH-SUD Asmara-Tessenai	78	IBRD/IDA
EQUATORIAL GUINEA/GUINEE EQUATORIALE (EQG)		
EQG-CMR Bata-(Ebolowa)	-	
GABON (GAB)		
GAB-CMR Bitam-Frontière	6/76	GAB
GAMBIA/GAMBIE (GAM)		
GAM-SEN Banjul-Frontière	2/77	UNDP/PNUD
GHANA (GHA)		
GHA-IVC Takoradi-Maféré-Frontière	79	ADB/BAD
GHA-TOG Tema-Akatsi	79	ADB/BAD

Transmission Routes Arères de transmission	date (to be) commissioned/date de mise en service(prévue)	Source of funds & date/Source de financement et date
GUINEA/GUINÉE (GUI)		
GUI-AAA Conakry-Faranah-Kankan	79)	
GUI-SIL Mt. Kakoulima-Forecariah-Frontière	79)	
GUI-SEN Mamou-Mali-Frontière	79)	ADB/BAD
GUI-BBB Dabola-Dungueraye	79)	
GUI-CCC Mt. Kakoulima-Boke-Frontière	80	
GUI-MLI Kankan-Siguiri-Frontière	80	
GUI-LIR Faranah-N'Zérékoré-Frontière	80	
GUI-DDD Kindia-Koundara-Mali	80	
GUI-EEE Kankan-N'Zérékoré	80	
IVORY COAST/COTE D'IVOIRE (IVC)		
IVC-LIR(A) Man-Mt.Nimba	7/79	IBRD/BIRD
IVC-LIR(B) San Pedro-Tabou-Harper	12/77	IVC
IVC-GHA Aboisso-Frontière	7/79	IBRD/BIRD
IVC-MLI Korhogo-Nielle-Front	-	-
IVC-UPV Korhogo-Banfora	11/75	FAC/IVC
IVC-SEN Abidjan-Dakar (sous marin)	78	FRA/IVC
KENYA (KEN)		
KEN-ETH Nyeri-Moyale	8/79	IBRD/BIRD
KEN-SOM Garissa-Somalia	-	-
KEN-URT Nyeri-Arusha	12/78	IBRD/BIRD/7/73
LESOTHO (LES)		
LES-SWA Maseru-Mbabane (KEN-LES Nairobi-Maseru-HF/OC)	(9/76)	(SWE)
LIBERIA (LIR)		
LIR(A)-IVC Monrovia-Mt. Nimba	8/78	JAP
(B)-IVC Monrovia-Harper	8/78	USA
LIR-SIL Monrovia-Mano-Frontière	8/78	JAP
LIR-GUI Mt. Nimba-Frontière	8/78	JAP
MALAWI (MLW)		
MLW-URT Mzuzu-Frontière	81	-
MLW-ZAM Lilongwe-Frontière	79	-
MALI (MLI)		
MLI-GUI Bamako-Delimban-Frontière	-	-
MLI-SEN Bamako-Koulinegote-Frontière	79	CDN
MLI-UPV Bamako-Zerila-Frontière	79	CDN
MLI-IVC Sikasso-Tahali	-	-
MAURITANIA/MAURITANIE (MAU)		
MAU-AAA Akjoujt-Atar (Coax)	79	-
MAU-BBB Atar-Choum	79	-
MAU-CCC Choum-Zouerate	79	-
MAU-DDD Choum-Nouadhibou	79	-
MAU-SEN Rosso (Richard Toll)	78	-
MAU-EEE Rosso-Nouakchott-Akjoujt	11/75	Kreditanstallt
NIGER (NER)		
NER-BEN Niamey-Taki Koara	79	CDN/7/75
NER-NIR Maradi-Meragakina-Frontière	79	NER/NIR/ADB
NER-UPV Niamey-Bouna Bouna-Frontière	79	CDN/7/75

Transmission Routes Artères de transmission..	date (to be) commissioned/date de mise en service (prévue)	Source of funds & date/Source de finan- cement et date
NIR-BEN Lagos-Owode-Frontière	76	NER
NIR-NER Kano-Katsina-Frontière	12/77	NER
NIR-NER Katsina-Frontière	78	NER-NIR
NIR-CMR-CHD Maiduguri-Kousseri-N'Djamena	78	*LCBC/USA
RWANDA (RWA)		
RWA-ZAI Kigali-Bukavu	under study	CAN
SENEGAL (SEN)		
SEN-GAM Kaolack-Keur-Ma Anthe	2/77	UNDP/PNUD
SEN-GUI Tambacounda-Tom-Boronkonto	-	-
SEN-MAU Richard Toll-(Rosso)	78	-
SEN-MLW Kaolack-Kidira	79	CDN
SEN-AAA Dakar-Thies	6/77	IBRD/BIRD
SEN-BBB Thies-Richard Toll	8/77	IBRD/BIRD
SEN-CCC Richard Toll-Bakel	10/77	IBRD/BIRD
SEN-DDD Thies-Mbour	10/77	IBRD/BIRD
SEN-IVC Dakar-Abidjan (cable sous marin)	78	FRA/SEN
SIERRA LEONE (SIL)		
SIL-GUI Freetown-Kambia-Frontière	-	-
SIL-LIR Freetown-Bo-Bandijuma	-	-
SOMALIA/SOMALIE (SOM)		
SOM-ETH Hargeisa-Tug Wajali-Frontière	-	-
SOM-KEN Chisimaio-Frontière	-	-
SUDAN/SOUDAN (SUD)		
SUD-AAA Khartoum-Atbara-Port Sudan	2/77	Arab Fund/Fond Arabe
SUD-ETH Sennar-Kassala	77	Arab Fund/Fond Arabe
SUD-BBB Sennar-El Obeid	77	Arab Fund/Fond Arabe
SWAZILAND (SWA)		
MOZ-SWA Mozambique-Mbabane	80	ADB/BAD
TANZANIA/TANZANIE (URT)		
URT-AAA Dodoma-Arusha	17/79	IBRD/BIRD
URT-BDI Kigoma-Frontière	-	-
URT-KEN Arusha-Moshi-Nyeri (see/voir KEN)	79	IBRD/BIRD
URT-ZAM Dodoma-Tunduma	79	IBRD/BIRD
URT-MLW Mbeya-Frontière	-	-
TOGO (TOG)		
TOG-BEN Kakaveli-Anecha	73	FRA
TOG-GHA Kakaveli-Frontière	-	ADB/BAD
TOG-UPV Lama Kara-Dapango	7/77	FRA
UGANDA/OUGANDA (UGA)		

* LCBC Lake Chad Basin Commission

Transmission Routes Artères de transmission	date (to be) commissioned/ date de mise en service (prévue)	Source of funds & date/Source de finan- cement et date
UPPER VOLTA/HAUTE VOLTA (UPV)		
UPV-MLI Bobo Dioulasso-Koloko-Frontière	78	CDN
UPV-NER Ouagadougou-Nalougou	78	CDN
UPV-TOG Ouagadougou-Sanga-Nianguedi	10/76	FRA
ZAIRE (ZAI)		
ZAI-PRC Kinshasa-Brazzaville	Nov. 77	ZAI/PRC
ZAI-ZAM Lubumbashi-Frontière	-	-
ZAI-RWA Bukavu-Cyangugu	-	-
ZAI-BDI Bukavu-Bujumbura	78	NDL
ZAMBIA/ZAMBIE (ZAM)		
ZAM-BOT Livingstone-Kasane	-	
ZAM-MLW Lusaka-Petauke-Chipata-Frontière	-	
ZAM-UWT Lusaka-M'Beya	6/78	ADB/BAD
ZAM-ZAI Chingola-Frontière	-	

SECTIONS OF PANAFTEL STILL TO BE FINANCED

International Exchanges

	<u>Remarks</u>
Brazzaville (Congo)	
Malabo (Equatorial Guinea)	Very small national network low priority
Banjul (The Gambia)	Depends upon agreements concerning routing of International Traffic Small National Network low priority
Freetown (Sierra Leone)	
Mogadishu (Somalia)	Prior improvement required National Network

International Routes

	<u>Distance</u> (km)	<u>Remarks</u>
Bangui - Impfondo (Imp. Centrafricain) (Congo)	309	
Francistown - Livingstone (Botswana) (Zambia)	563	Requirement being reviewed by Governments in light of political developments
Ebolowa - Bata (Cameroon) (Equ. Guinea) (Rio Muni)	250	Prior improvement Equatorial Guinea national network required
Ebolowa - Bitam (Cameroon) (Gabon)	123	Alternative Routing
Jijiga - Hargeisa (Ethiopia) (Somalia)	228	
Siguiri - Bamako (Guinea) (Mali)	369	
Mt. Nimba - N'Zerekore (Liberia) (Guinea)	42	
Sikasso - Korhogo (Mali) (Ivory Coast)	175	Alternative Routing possible initially via Bobo-Dioulasso (Upper V.)
Tambakounda - Mali (Senegal) - (Guinea)	543	
Freetown - Forecariah (Sierra Leone) (Guinea)	99	
Freetown - Mano Mines (Sierra Leone) (Liberia)	281	
Mzuzu - Mbeya (Malawi) (Tanzania)	358	
Garissa - Chisimaio (Kenya) (Somalia)	190	

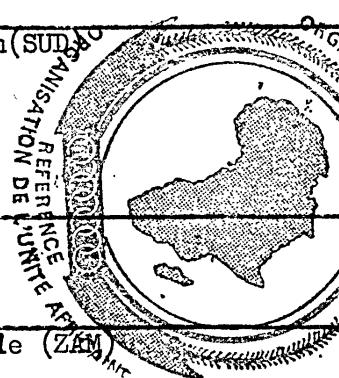
ADDITIONAL TRANSMISSION ROUTES TO BE SURVEYED (ANNOUNCED DURING KINSHASA CONFERENCE)
ARTERES DE TRANSMISSION ADDITIONNELLES A ETUDIER (NOTIFIEES PENDANT LA CONFERENCE DE KINSHASA)

Note: See comments in Annex 1, Resolution No.2
 Voir commentaires à l'Annexe 1, Resolution No.2

Country proposing survey Pays qui demande l'étude	Route to be studied Artère à étudier	Length Longueur	Link with connexion avec	Formal request received/demande formelle reçue
Algérie/Algérie (ALG)	ALG-MLI Algeria/Algérie - Mali ALG-NER Algeria/Algérie - Niger ALG-MAU Algeria - Mauritania	3000 2600 2900	Mali Niger Mauritania	
Cape Verde Is/Iles du Cap Vert (CPV)	CPV-GBS Praia - Bissau CPV-SEN Praia - Dakar	800 650	Buinea-Bissau Senegal	
Burundi (BDI)	BDI-URT Nyanza Lac - Kigoma	60	Tanzania/Tanzanie	yes/oui
Cameroon/Cameroun (CMR)	CMR-EQG Campo - Bata CMR-STP Douala - Sao Tomé	60 550	Equatorial Guinea/ Guinée Equatoriale Sao Tome & Principe	
Central African Empire/ Empire Centrafricain (CAF)	CAF-500 Bangui - Sibut-Bambari-Bangassou-Obo-Wau CAF-SUD (2) Bambari - Bria - Birao	1170 600	Sudan/Soudan Sudan/Soudan	
Chad/Tchad (CHD)	CHD-SUD N'Djamena - Massaguet - Ati - Oum Hadjer Abeche - Adre - Genaina CHD-BBB Massaguet - Bol - Mao	793 272	Sudan/Soudan National	
Congo (PRC)	PRC-GAB Makabena - M'Binda - Bakoumba PRC-AN6 - Pointe Noire-Cabinda	200 120	Gabon Angola	
East African Community/ Communauté de l'Afrique de l'Est	URT-BDI Kigoma - Nyanza Lac URT-MOZ Mtware - Pemba URT-ZAI Kigoma - Kalemie UGA-RWA Kampala - Twanda UGA-ZAI Kabale - Goma UGA-SUD Kampala - Nimule URT-RWA Mwanza - Kigali	60 320 140 380 80 390 330	Burundi Mozambique Zaire Rwanda(improvement/ Zaire amélioration) Sudan/Soudan Rwanda	yes/oui yes/oui yes/oui

Country proposing survey Pays qui demande l'étude	Route to be studied Artère à étudier	Length Longueur	Link with connexion avec	Formal request received/demande formelle reçue
Equatorial Guinea/ Guinée Equatoriale (EQG)	EQG-CMR Bata - Campo EQG-GAB Bata - Libreville	60 170	Cameroon/Cameroun Gabon	
Ethiopia/Ethiopie (ETH)	ETH-SUD Gondar - Metemma - Doka - Dedaref ETH-YEM Assab - Yemen ETH-FAI Dire Dawa - Djibouti	290 150 270	Sudan Yemen Republic/ République du Yémen Connection to Middle East and Mediterranean/Connexion avec le Moyen Orient et la Méditerranée Afars/Issas	
Gabon (GAB)	GAB-PRC Bakoumba - M'Binda GAB-STP Libreville - São Tomé GAB-EQG Libreville - Bata	300 170	Congo Sao Tomé & Principe Eq. Guinea/Guinée Eq.	
Ghana (GHA)	GHA-UPV Bolgatanga - Ouagadougou	200	Upper Volta	
Guinea/Guinée Bissau (GBS)	GBS-SEN Bissau - Ziguinchor GBS-CPV Bissau - Praia	100 800	Senegal Cape Verde Isl.	
Madagascar (MAG)	MAG-URT Madagascar - East African Coast/ Côte de l'Afrique de l'Est	900	East Africa/Afrique de l'Est	
Malawi (MLW)	MLW-MOZ Blantyre - Tete	200	Mozambique	
Mali (MLI)	MLI-MAU Mali - Mauritania/Mauritanie MLI-ALG Mali - Algeria/Algérie MLI-NER Mali - Niger	1050 3000 1130	Mauritania/Mauritanie Algeria/Algérie Niger	
Mauritania/Mauritanie (MAU)	MAU-ALG Mauritania/Mauritanie - Algeria/ Algérie MAU-MLI Mauritania/Mauritanie - Mali	2900 200	Algeria/Algérie Mali (via Senegal)	
Mauritius/Ile Maurice (MAR)	MAR-URT Mauritius/Ile Maurice - East African Coast/Côte de l'Afrique de l'Est)	2150	East Africa/Afrique de l'Est	

Country proposing survey Pays qui demande l'étude	Route to be studied Artère à étudier	Length Longueur	Link with connexion avec	Formal request received/demande formelle reçue
Mozambique (MOZ)	MOZ-MLW Tete-Blantyre MOZ-ZAM Songo (Tete - Kutete MOZ-URT Pemba - Mtwara	200 300 320	Malawi Zambia/Zambie Tanzania/Tanzanie	yes/oui
Niger (NER)	NER-ALG Niger - Algeria/Algérie NER-AAA Zinder - Goure - Mainesoroa - Diffa	2600 400	Algeria/Algérie National	
Rwanda (RWA)	RWA-URT Kigali - Mwanza RWA-UGA Kigali - Kampala	330 380	Tanzania/Tanzanie Uganda/Ouganda (improvement/amélioration)	yes/oui
Sao Tomé & Principe (STP)	STP-GAB Sao Tomé - Libreville STP-CMR Sao Tomé - San Antonio - Douala	300 550	Gabon Cameroon/Cameroun	
Senegal (SEN)	SEN-GUI Senegal - Guinea/Guinée SEN-GBS Senegal - Guinea-Bissau SEN-CPV Senegal - Cape Verde Isl./ Iles du Cap Vert	800 100 650	Republic of Guinea/ République de Guinée Guinea/Guinée-Bissau Cape Verde Islands/ Iles du Cap Vert	
Somalia/Somalie (SOM)	SOM-AAA Mogadishu - Hargeisa	1300	National	
Sudan/Soudan (SUD)	SUD-ETH Gedaref - Doka - Metema - - Gondar SUD-CHD Obeid - Nyala - Genaina SUD-UGA Kosti - Juba - Nimoli SUD-CAF Wau - Raga	290 900 1100 250	Ethiopia/Ethiopie Chad/Tchad Uganda/Ouganda Central African Emp. Empire Centrafricain	
Zaire (ZAI)	ZAI-URT Kalemie - Kigoma ZAI-UGA Goma - Kabale	140 80	Tanzania/Tanzanie Uganda/Ouganda	
Zambia/Zambie (ZAM)	ZAM-ANG Zambia/Zambie - Angola Zam-MOZ Katete - Songo (Tete)	300	Angola Mozambique	



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