FIRST AFRICAN CONFERENCE OF ROAD MAINTENANCE FUNDS

TECHNICAL SEMINAR

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PERFORMANCE MONITORING INDICATORS

Presented by:

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Tools Proposed

Road Fund Description Sheet

- no apparent updating
- invariables (status, date of creation, role, etc.)

Road Fund Monitoring Tables

- annual updating
- to be drawn up in 2 stages :
 - Easily identifiable indicators
 - Indicators requiring research

Test Countries

Benin – Ghana – Togo

French-speaking / English-speaking

Older road funds / younger road funds

Different political and economic backgrounds

I - Description Sheets

The Beninese Road Fund

- 1 Name: ROAD FUND
- 2 Date of Creation: 1985
- 3 Legal status: Private body
- 4 . Headquarters: Cotonou
- 5 Organization:
 - Supervision Agency : ???
 - Board :

* Members =	Public =	Private =
* Members =	Public =	Private =
* Members =	Public =	Private =

- Executive Staff :
 - * Director / Administrator
 * Financial Director
 * Administrative Director
 Hiring method
- 6 Working scheme
- 7 Eligible roadworks to be financed :

Road maintenance under the MTPT

8 – Programming Process:

Writing up of the maintenance program by the DNERPR, verification by the Road Fund, approval by the Board, technical implementation by the DNERPR

- 9 Revenue:
 - * Tariff policy: ???
 - * Revenue breakdown:

earmarked resources, the Fund own resources, subsidies, outside contributions, co-operation, donation and legacy funds, local loans, other...

10 - Revenue collection

Earmarked revenue: based on an agreement between the Road Fund and the State / Concession Fees: defined in the concession agreements

11 – . Disbursement procedure:

After completion of the maintenance works by the small firms, and acceptance by the DNERPR

12 – Oversight and Auditing

Yes: by Private Accounting Firms

THE GHANA ROAD FUND

1 – Name: ROAD FUND

2 – Date of Creation: 1997

3 – Legal status: ???

4 - Headquarters: Accra

5 – Organization: Supervision agency: Highways & Transportation Ministry

- Board :

* Surveillance Council = 13	Public = 5	Private = 8
* Members =	Public =	Private =
* Members =	Public =	Private =

- Executive Staff:

* Director / Administrator	Hired from the private sector
* Financial Director	Hided from the private sector
* Administrative Director	Hired from the private sector

6 - Working scheme

The Secretariat is responsible for revenue collection and disbursement

7 - Eligible roadworks to be financed:

routine and periodic maintenance/ upgrading and rehabilitation / road safety activities

8 – Programming Process:

The road authorities to submit the work programs to the Council's approval. The road authorities to sign contracts and to clear the monthly statements. The road authorities to report to the Secretariat.

9 - . Revenue:

* Tariff policy:

* Revenue breakdown:

earmarked resources, the Funds own resources, subsidies, outside contributions, co-operation, donation and legacy funds, local loans, other..

10 – . Revenue collection :

Collection of the fees and transit rights by the customs services, and tolls by the Expressways Agency

11 – Disbursement procedure:

Variable according to the routine or periodic road maintenance (advances or transfers to make part payments).

12 - Oversight and Auditing

Yes: external audit at the end of each fiscal year

DONNEES SUR LE PAYS ET SON RESEAU ROUTIER COUNTRY / ROAD NETWORK DATA

N°	DESCRIPTION	UNITS			YEAF	s		OBSERVATIONS
			1	2	3	4	5	
1	Population	Millions						
2	Currency							
3	GDP per inhabitant	U/Currency						
4	Trade Balance							
	4.1 – Import	Millions						
	4.2 – Export	Millions						
5	Vehicle fleet							
	5.1 – Light vehicles (LV)	U						
	5.2 – Standard Trucks (SDT)	Ŭ						
	5.3 – Super Trucks(SPT)	Ŭ						
6	Road Network	Ŭ						
Ŭ	6.1 – National roads	Km						
	6.2 – Regional roads	Km						
	6.3 – Rural roads	Km						
	6.4 – Urban roads	Km						
7	Network Asset Value	Millions						
8	Preferred Road Network	IVIIIIOTIS						
0	8.1 – National roads	U						
	8.2 – Regional roads	U						
	8.3 –	U						
	0.0 -							

DESCRIPTION SHEETS

THE COUNTRY AND ITS ROADS

- Presentation of the Country
 - - Borders
 - - Area and population
 - Activities
- The Road Network
 - Administrative
 Classification
 - Technical Classification
 - Preferred Network

 Strategic Objectives in terms of Transport Infrastructure

- The Organisation of Road Maintenance
 - Recent Institutional Reforms
 - Road Authorities

FICHES SIGNALETIQUES

THE ROAD MAINTENANCE FUND

Identity

- Creation and restructuring
- Legal Status

- Role
 - Missions
 - Organization
 - Eligible roadworks to be financed

Revenue

- Sources
- Collection methods

- Methods
 - Programming process
 - Financial Management
 - Oversight and Auditing

II – MONITORING MATRIX



THE BOOKS OF THE ROAD (MAINTENANCE) FUND – Stage 1 Year :

	RE	VENUE	EXPE	NDITURE		
N°	Item	Estimated	Realised	Item	Estimated	Realised
№ ° 1 2	Item Carried forward The Fund own resources (Road Tariff) 2.1 – fuel fees 2.2 – toll 2.3 – overload fines 2.4 –damages 2.5 – annual road disk 2.6 – registration fees 2.7 – international transit fees Sub-total for the Fund's own resources Earmarked Revenue 3.1 –Contribution from the State 3.2 –	Estimated	Realised	Item 1 – State drawing 2 – Programmed road works 2.1 – Road authority A Routine maintenance Periodic maintenance Rehabilitation Emergency works Sub-total Road Authority A 2.2 – Road Authority B Routine maintenance Periodic maintenance Rehabilitation Emergency works Sub-total Road Authority B	Estimated	Realised
4	Sub-total of earmarked revenue Donors Grants Periodic maintenance 4.1 – Multilateral 4.2 – Bilateral Emergency Sub-total of donors grants			2.3 - Road Authority C Routine maintenance Periodic maintenance Rehabilitation Emergency works <u>Sub-total Road Authority C</u>		

LES COMPTES (D'ENTRETIEN) ROUTIER (suite) - étape 1 Année :

N°	RE	VENUE		EXPENDITURE						
~	ltem	Estimated	Realised	ltem	Estimated	Realised				
				 3 - Collection Costs Sub-total of collection costs 4 - Operations and similar Costs Sub- total of Operations and similar costs 						
	TOTAL									
	BALANCE =									



COVERAGE OF ROAD MAINTENANCE NEEDS – priority 1

		Year	1	Year	2	Yea	r 3	Yea	· 4	Year 5	
N°	ltem	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%
1	ROUTINE MAINTENANCE Total needs Needs covered by : RMF financing State financing Financing from Donors * Multilateral * Bilateral Total of the needs covered										
2	PERIODIC MAINTENANCE Total needs Needs covered by : RMF financing State financing Financing from Donors * Multilateral * Bilateral Total of the needs covered										
3	REHABILITATION Total needs Needs covered by : RMF financing State financing Financing from Donors * Multilateral * Bilateral Total of the needs covered										

COVERAGE OF ROAD MAINTENANCE NEEDS – Priority 1

		Year	1	Year	· 2	Yea	nr 3	Year	r 4	Yea	r 5
N°	Item	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%	Amount (millions)	%
4	EMERGENCY ROAD WORKS Total needs Needs covered by : RMF financing State financing from Donors * Multilateral * Bilateral Total of the needs covered										

INDICATORS OF ROAD TRAFFIC AND AGRESSIVENESS (stage 2)

		YI	EAR 1	YE	EAR 2	YEA	AR 3	YEA	AR 4
№ °	DESCRIPTION	AADT	Agression equivalent SDT	AADT	Agression equivalent SDT	AADT	Agression equivalent SDT	AADT	Agression equivalent SDT
	NATIONAL ROADS 1.1 - Paved LV SDT SPT 1.2 – Unpaved LV SDT SPT SPT								
2	REGIONAL ROADS 2.1 – Paved LV SDT SPT 2.2 – Unpaved LV SDT SPT								
3	RURAL ROADS 3.1 – Paved LV SDT SPT 3.2 – Unpaved LV SDT SPT								

INDICATORS OF ROAD NETWORK PERFORMANCE (stage 2)

		YE.	AR 1	YE	EAR 2	YEA	R 2	YE	AR 3	YE.	AR 4
N°	DESCRIPTION	%	Travel speed (km)	%	Travel speed (km)	%	Travel speed (km)	%	Travel speed (km)	%	Travel speed (km)
1	NATIONAL ROADS 1.1 – Paved Good Fair Poor 1.2 – Unpaved Good Fair Poor										
2	REGINAL ROADS 2.1 – Paved Good Fair Poor 2.2 – Unpaved Good Fair Poor										
3	RURAL ROADS 3.1 – Paved Good Fair Poor 3.2 – Unpaved Good Fair Poor										

INDICATORS OF PERFORMANCE OF ROAD (or AGENCIES) - stage 2 Year :

	Programming (1-6)			Execution and Acceptance (7)			Ex	Expenditure (8)		
	Start	End	Spread	Star	End	Spread	Star	End	Spred	
 ROAD AGENCY (A) 1 - Collection of data 2 - Programming 3 - Submission of Program 4 - Approval of Program 5 - Bidding 6 - Notification of Work Contracts 7 - Execution and acceptance of work 7.1 - Routine maintenance 7.2 - Periodic maintenance 7.3 - Rehabilitation 7.4 - Emergency works 8 - Receipt and payment of Invoices 8.1 - Routine maintenance 8.2 - Periodic maintenance 8.3 - Rehabilitation 8.4 - Emergency works 										

INDICATORS OF PERFORMANCE OF ROAD (or AGENCIES) - stage 2 Year :

	Programming (1-6)			Execution and Acceptance (7)			Expenditure (8)		
	Start	End	Spread	Star	End	Spread	Star	End	Spred
ROAD AGENCY (B)1 - Collection of data2 - Programming3 - Submission of Program4 - Approval of Program5 - Bidding6 - Notification of Work Contracts7 - Execution and acceptance of work7.1 - Routine maintenance7.2 - Periodic maintenance7.3 - Rehabilitation7.4 - Emergency works8 - Receipt and payment of Invoices	Start	End	Spread	Star	End	Spread	Star	End	Spred
8.1 – Routine maintenance 8.2 – Periodic maintenance 8.3 – Rehabilitation 8.4 – Emergency works									

PERFORMANCE INDICATORS OF SMALL FIRMS (stage 2) Year :

	BIDDING				EXECUTION			
	Offers received	Rejeted	Acceptable	Awarded respected	Time Period	Delay (Days)	Notice cancellation	Contract
CONTRACTOR (A)								
1 – Roadworks 1.1 – Routine maintenance								
Manual work			XX					
Mechanised work								
1.2 – Periodic maintenance 1.3 - Rehabilitation								
1.4 – Emergency works			\mathcal{N}					
			$X \times$					
2 – Project and Design			\times		\nearrow			
3 – Supervision			\times	$X \Delta X$				
CONTRACTOR (B)								
1 – Roadworks					$A \square h$			
1.1 – Routine maintenance					HTH			
Manual work Mechanised work								
1.2 – Periodic maintenance								
1.3 - Rehabilitation 1.4 – Emergency works			ΔD	T T T T		\bigtriangledown \checkmark		
						-		
2 – Project and Design					\frown			
3 – Supervision								
			\sim	\times				

MULTIYAEAR CHARTS

The charts shall be regularly updated, at the end of each year based on the data previously entered, thereby,

allowing a post-evaluation over several years of the progress of the Road Maintenance Fund accounts, as well as the roadworks executed <u>A) The RMF Books</u>

Charts of :

Revenue Expenditure B) <u>Funded Roadworks (Realisations)</u>

Charts of:

Routine maintenance Periodic maintenance Rehabilitation

MONITORING TABLE global framework

THE COUNTRY AND ITS ROADS

 country and road network summary

- managers identification
 - Administrative classification
 - Technical Classification
 - Preferred Network

- traffic and agressivity
 - Recent Institutional Reforms
 - Road Network Mangers

MONITORING TABLE – global framework

THE ROAD MANAGEMENT FUND

Road fund I.D.

Real Revenue vs Forecast
 Needs coverage
 Revenue

MONITORING TABLE- global framework

- PERFORMANCE TOOLS

Network performance

Road Agencies performance Small firms performance