ROAD SAFETY IN NIGERIA

Sharing the Nigerian Experience: Case Study of the World Bank Safe Corridor Project



Africa Transport Policy Program (SSATP) Annual Meeting and Associated Experience' Sharing Events

20-24, February 2017



Marrakech, Morocco

Dr Boboye Oyeyemi, MFR, mni, NPOM

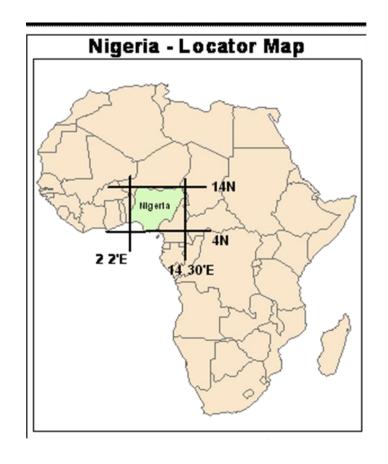
Corps Marshal, Federal Road Safety Corps- Nigeria

Introduction





NIGERIA



Located north of the equator in West Africa

Estimated
180 million
people and
the largest
population
of any
Africa
country

Has tropical temperature almost throughout the year

Land mass: 923,768 km²

The most common forms of human transportation available are Air, Water, Rail and Road



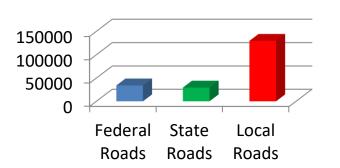
Road transport account for over 70% of total movements in Nigeria

The country's road network continues to grow due to developments on the economic front and ever expanding business environment

204,000 km of (paved and unpaved) road network

Road	Total length in Km		
Federal Roads	35,000		
State Roads	40,000		
Local Roads	129,000		
Total	204,000		

Total length of Roads in Nigeria (Km); 2013





Increase in motorization and road use activities over time has brought about some safety implications to the Country

Road safety in Nigeria

THE ROAD TRAFFIC PROBLEM

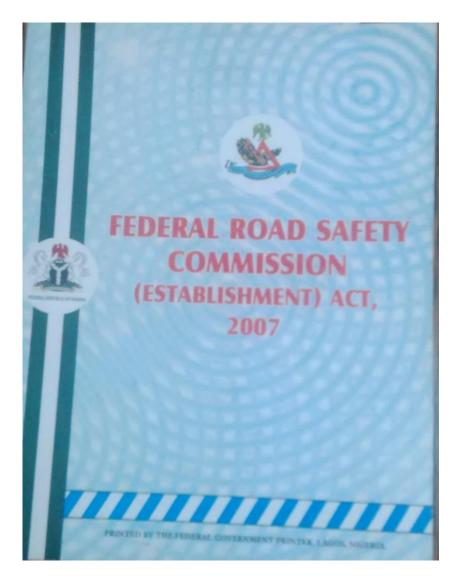
The world is stunned by 1.3 million deaths annually and nearly 50-60 million injuries from traffic crashes worldwide

Nigeria being a member of the global community has its own fair share of **350,976** deaths and **1,208,924** injuries (1960-2016) which calls for action

The Federal Road Safety Corps (FRSC), Nigeria's Lead Agency in Road Traffic Administration and Safety Management was created as a *RESPONSE*

THE FEDERAL ROAD SAFETY CORPS (FRSC)

FRSC as a Para-military Organization and a Lead Agency in Road Traffic Administration and Safety Management in Nigeria was established by the Federal Government of Nigeria in February 1988 with the enabling Decree No 45 of 1988 as amended by Decree 35 of 1992, now Federal **Road Safety Commission** (Establishment) Act, 2007



STATUTORY FUNCTIONS

1

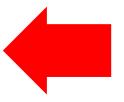
Prevent or minimize accidents on the highways



Clear obstructions on the public highways



Provide prompt rescue services to road traffic accident victims



Educate all road users on the proper and safe use of the highways

3

5

6

Conduct research on causes and prevention of Road Traffic Accident and implementing results of such researches



Determine and enforce speed limits to all categories of vehicles according to the classes of roads



Any other duties that the Federal Government may assign from time to time



Cooperate with and appreciate the views of other corporate bodies, agencies, and groups engaged with road safety management locally and internationally

8

7

VISION

MISSION

To eradicate road traffic crashes and create safe motoring environment in Nigeria

To Regulate, Enforce and Coordinate all Road Traffic and Safety
Management activities through:

- Sustained public enlightenment
- Promotion of stakeholders cooperation
- Robust data management
- Improved vehicle administration
- Prompt rescue services
- Effective patrol operation

THE STRUCTURE OF FEDERAL ROAD SAFETY CORPS



- a. 1 National Headquarters
- b. 12 Zonal Commands (Comprising at least 2 States)
- c. 37 State Sector Commands and FCT
- d. 206 Unit Commands (Grassroots)
- e. 23 Out Posts (Sub-Units on critical corridors)
- f. 200 Drivers Licence Centres
- g. 3 Number Plate Production Centres
- h. 1 Signage Plant
- i. 3 Mini Plants (Sokoto, Kano and Delta)
- j. 1 National Drivers Licence Print Farm
- k. 26 Road Side Clinics
- I. 41 Emergency Ambulance Service Points
- m. 17 Staff Clinics
- n. FRSC Academy (for Officers)
- FRSC Training School (for Marshals)

FRSC-MANPOWER

Regular Special Road Safety Clubs





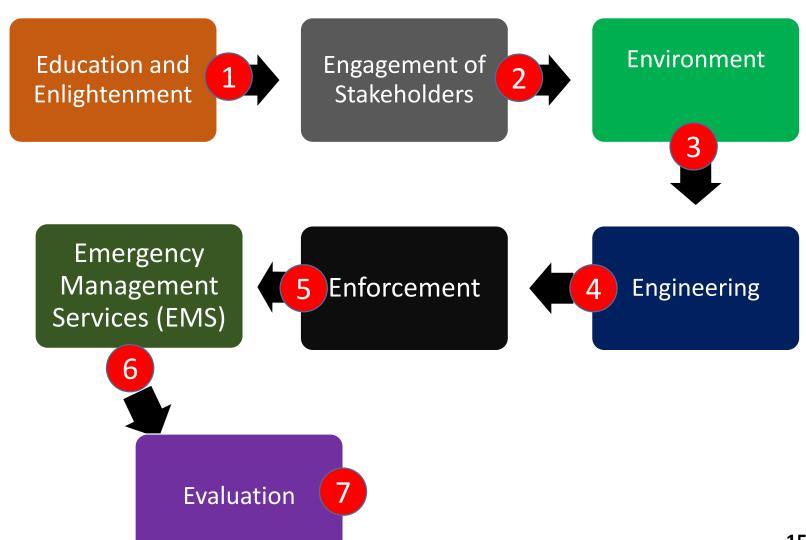


FRSC Initiatives

7-Es Road

Safety

Strategy



EDUCATION AND ENLIGHTENMENT

Raising a future generation of safe road users has always been a priority for FRSC

Integrating road safety education into the formal educational setting was achieved in 2010

The Federal Executive Council approved road safety education in Primary and secondary school curriculum



Adoption of robust approach in educating drivers and all road users is dynamic



- Motor Park Rallies
- Media Campaigns
 - -Traditional media
 - -Modern /Social media
 - Lecture Series
- ₩orkshops
- → Conferences
- → Seminars
- → Billboards/ Posters/ Handbills
- → Public Fora
- → Periodic Review of the Highway Code

ENGAGEMENT OF STAKEHOLDERS

Achieving safer Roads in Nigeria rests on concerted and cohesive partnership and engagements







The Corps takes advantage of the overwhelming role of Religious and Traditional Rulers as well as those in constituted authority to advance road safety in the country Relevant Stakeholders and sister para-military agencies are regularly engaged during periods of essential national services

This engagement foster better coordination of roles and facilitate positive results





ENVIRONMENT

The Corps undertakes Road Safety Audit (RSA) at all levels of government during pre and post road design and construction phases to identify gaps and make necessary recommendations

A total of **71 RSA** have been conducted - **10 RSA(2009)**, **5 RSA (2010)**, **9 RSA(2011)**, **7 RSA(2012)**, **9 RSA (2013)**, **6 RSA(2014)**, **10 RSA(2015)** and **15 RSA(2016 to date)**





EMERGENCY MANAGEMENT SERVICE

Post Crash Care plays a vital role in the cardinal objectives for which the Corps was established

Several efforts and innovations have been made on improving the survivability of crash victims over time



Rescue activities in Nigeria have been expanded and further enhanced through interventions like the World Bank

ENFORCEMENT

Enforcement of traffic regulations is critical

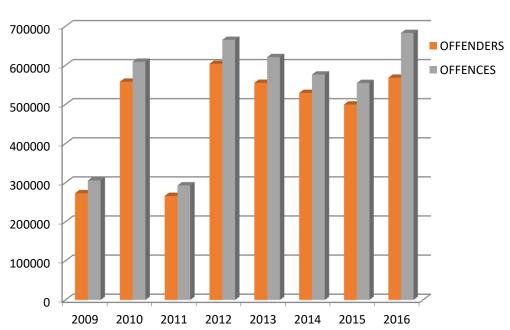
As Nigeria yearns to be in the top list of the world's 20 safest roads by 2020, road users compliance to road safety laws is key





TRAFFIC OFFENCES AND OFFENDERS DATA: 2009-2016

Stepped up enforcement has resulted in increased compliance to traffic regulations nationwide with steady decrease in offender/offences ratio particularly from 2012 till 2015



YEAR	OFFENDERS	OFFENCES
2009	272949	305606
2010	558234	609351
2011	266169	293007
2012	604038	665317
2013	555447	621138
2014	529557	576557
2015	499861	555001
2016	568492	628940

MOBILE COURT

Prompt dispensation of justice through Mobile/ Special Court sittings have aided compliance to traffic rules and regulations

YEAR	Mobile Court Sittings	
2015	2,501	
2016	1,189	

A total of 109 civil cases were won in 2016 as against 17 in 2015



ENGINEERING

A blend of conventional technology and emerging smart solutions are constantly deployed to improve road safety in Nigeria

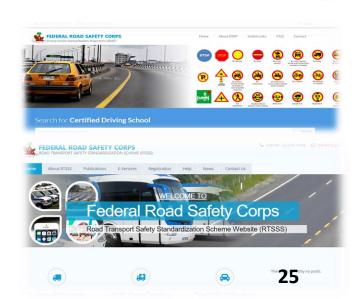
Currently, 26 e-applications run 24/7 service providing an integrated infrastructure to support other systems like:

Speed Limiting
Device
Programme (SLD)



Driving School Standardization Scheme (DSSP)

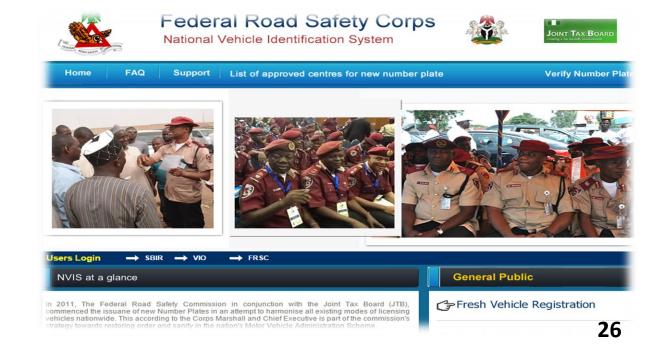
Road Transport Safety Standardization Scheme (RTSSS)







The use of technology has significantly advanced road safety administration in the country



EVALUATION

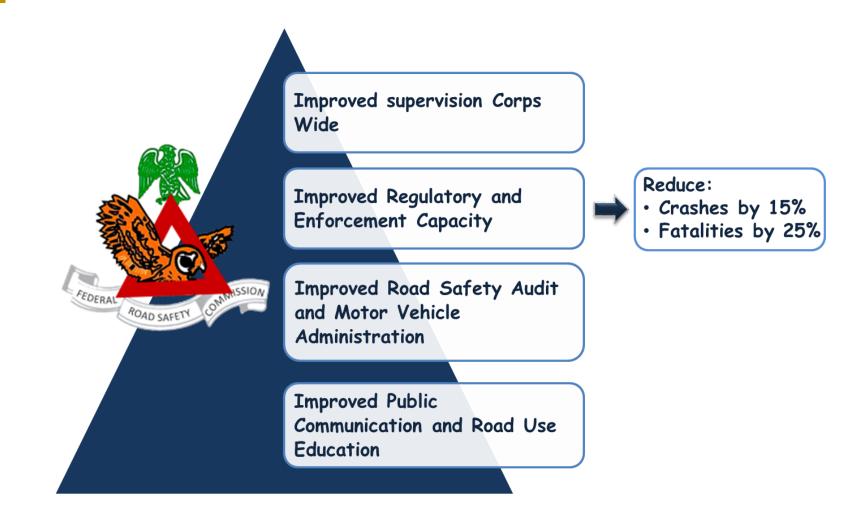
Adequate measures have been put in place to monitor performance and track changes

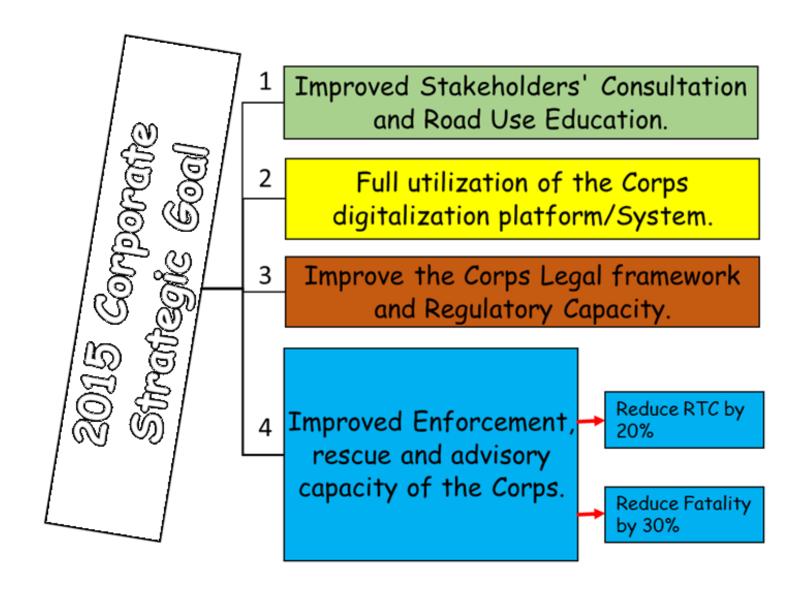


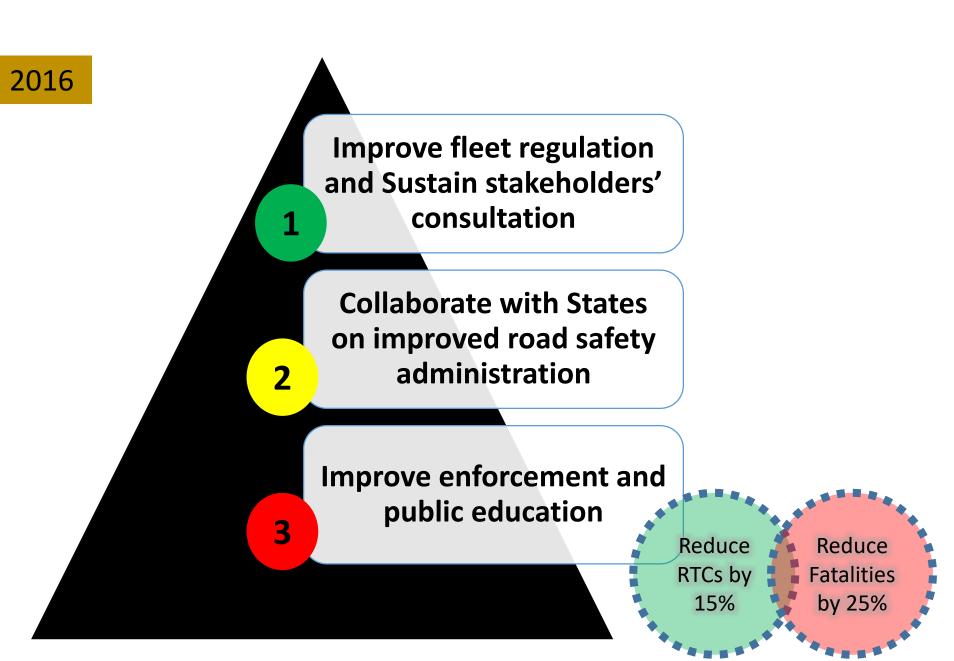
Gaps or deviations identified are usually addressed during strategy and performance review sessions on a regular basis

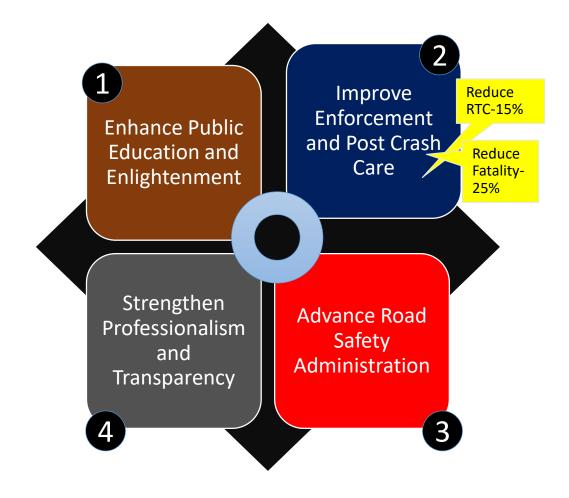


YEARLY TARGET **SETTING TO** MEASURE PERFORMANCE









EVALUATING ROAD TRAFFIC CRASHES: AN OVER VIEW- ANNUAL VALUES AND TRENDS

Year	Indices	Value	% change on previous year Remark	
2016	TOTAL RTC	9,707	-0.28%	
2015	TOTAL RTC	9,734	-6.22%	
2014	TOTAL RTC	10,380	-23.6%	
2013	TOTAL RTC	13,583	+2.4%	
2016	NO.KILLED	5,068	-6.84%	
2015	NO.KILLED	5,440	-9.27%	
2014	NO.KILLED	5,996	-8.37%	
2013	NO.KILLED	6,544	+7.42%	
2016	NO. INJURED	30,139	-1.11%	
2015	NO. INJURED	30,478	- 4.94%	
2014	NO. INJURED	32,063	-19.66%	
2013	NO. INJURED	40,057	+1.80%	

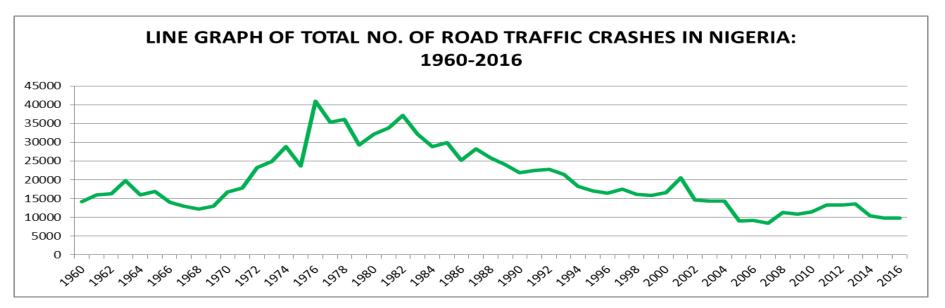
OUTCOME OF YEARLY PERFORMANCE

Since year 2010 when annual target setting became a part of performance measurement, tracking in road crashes and fatalities changes have been observed

Year	Total Fatality	Total RTC	Fatality Reduction Target (%)	RTC Reduction Target (%)	Fatality Reduction Attained (%)	RTC Reduction Attained (%)
2011	6,054	13,196	-20.00	-30.00	0.03	15.9
2012	6,092	13,262	-20.00	-30.00	0.05	0,6
2013	6,523	13,583	-30.00	-20.00	7.42	2.42
2014	5,991	10,380	-25.00	-15.00	-8.16	-23.6
2015	5,440	9,734	-30.00	-20.00	-9.27	-6.22
2016	5,068	9,707	-25.00	-15.00	-6.84	-0.28%

: -8% and -9% (reduction) in total number of persons killed; -24% and -6% (reduction) in total road traffic crashes were achieved in 2014 and 2015 respectively while 6.84% fatality reduction was recorded in year 2016 over 2015

TRENDING DOWN OF RTCs AND FATALITY IN NIGERIA

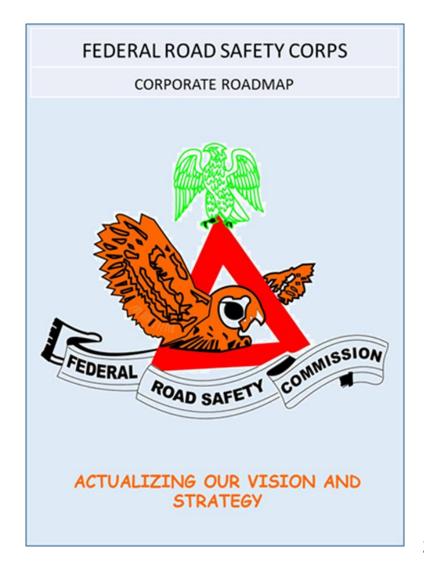




DOCUMENTATION AND THE FUTURE

A detailed documentation process gave the Corps a foresight into the future from the present

The FRSC Corporate Road Map outlined the direction for sustaining critical success factor thereby making the Corps' vision achievable

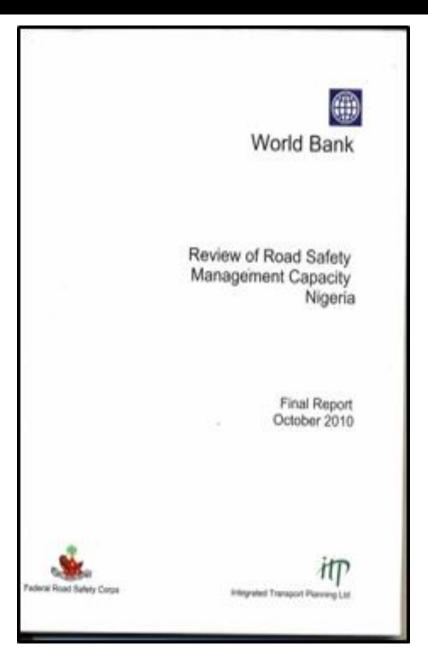


WORLD BANK INTERVENTIONN ON ROAD SAFETY IN NIGERIA:

SAFE CORRIDOR PROJECT: 2004 TO DATE

- Series of Meetings, Workshops, Conference calls as well as submission of documents for review on the country's situation preparatory to intervention was undertaken by the World Bank
- Three (3) corridors were identified for initial intervention
- A Consultant was engaged by the World Bank to conduct **Country Capacity Review** in 2010

COUNTRY CAPACITY REVIEW



The Review conducted by Integrated Transport Planning Limited centered on:

- Result Focus Management Function
- Coordination Management Function
- Legislative Management Function
- Funding & Resource Allocation Management Function
- Monitoring % Evaluation Management Function
- Research & Development and Knowledge Transfer Management Function

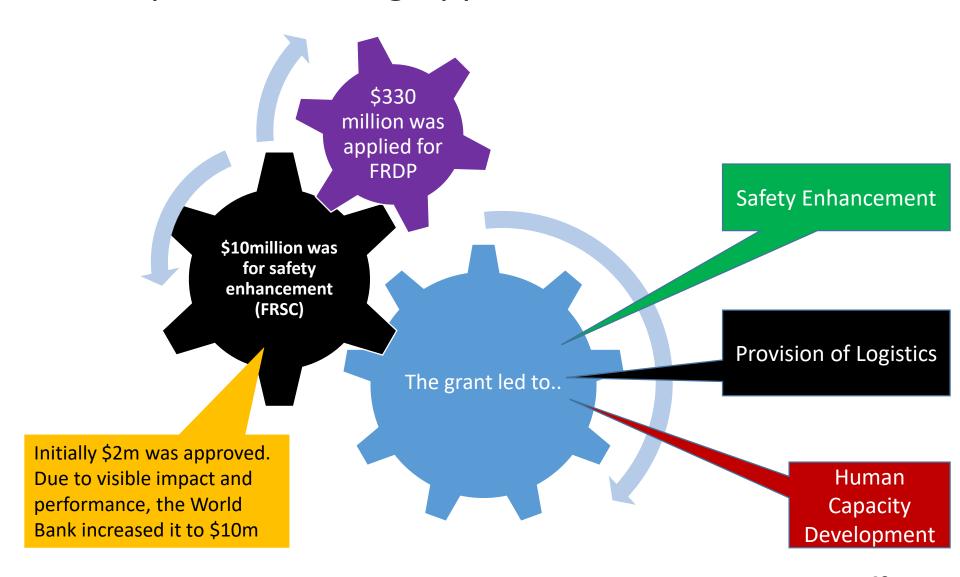
FUNDING

In April, 2008 the World Bank took a decision that 10% of cost of all road projects should be dedicated to the safety sub-components

The Federal Roads Development Programme (FRDP) took a facility of \$330 million

- The Safe Corridor Project had \$10 million
- Pedestrian Bridges in Abuja \$10 million
- Improvements of road markings \$10 million

The Country Capacity Programme brought about development funding opportunities



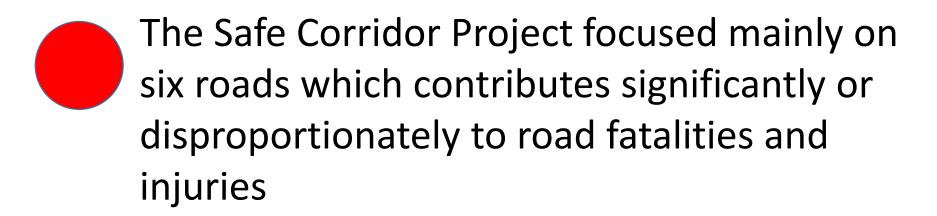
THE SAFE CORRIDOR PROJECT

Safe Corridor Project concept entails earmarking particular roads for rehabilitation in line with World Bank practices

The safety sub component of the Federal Roads Development Programme (FRDP) is the Safe Corridor Project



It is linked to the FRDP under the Federal Ministry of Works and managed by the Road Sector Development Team (RSDT), a unit of the Federal Ministry of Power, Works and Housing



The Safe Corridor concept started with three Unity Roads in the country namely:



Lagos-Ibadan Expressway

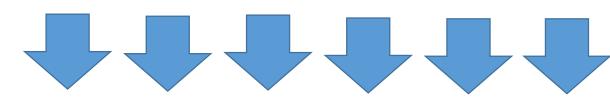


Mokwa-Bida-Suleja road



Enugu-Abakaliki-Ikom road

Due to concessioning, Lagos-Ibadan expressway was excluded from the list of the Six (6) corridors of the World Bank Safe corridor project The project has focused on the rehabilitation and safety enhancement of the following six "Unity Roads"

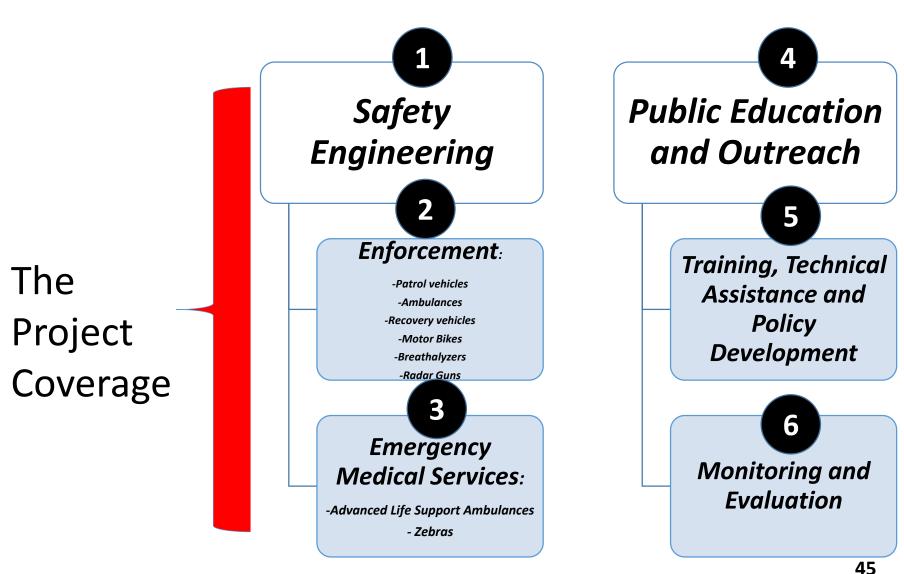




- Mokwa-Bida-Lambata-Suleja
- Enugu-Abakaliki-Ikom-Mfun (Cameroon Border)
- Benin-Ifon-Owo-Ilesa
- Jos-Bauchi-Gombe
- Abuja-kaduna-Kano
- Abuja Metropolis

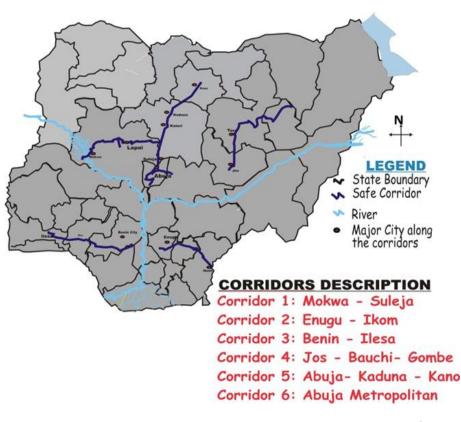
WORLD BANK SAFE CORRIDOR PROJECT

The Safety Component of the safety corridor involves the following key activities



SAFE CORRIDORS IN NIGERIA: OVERVIEW







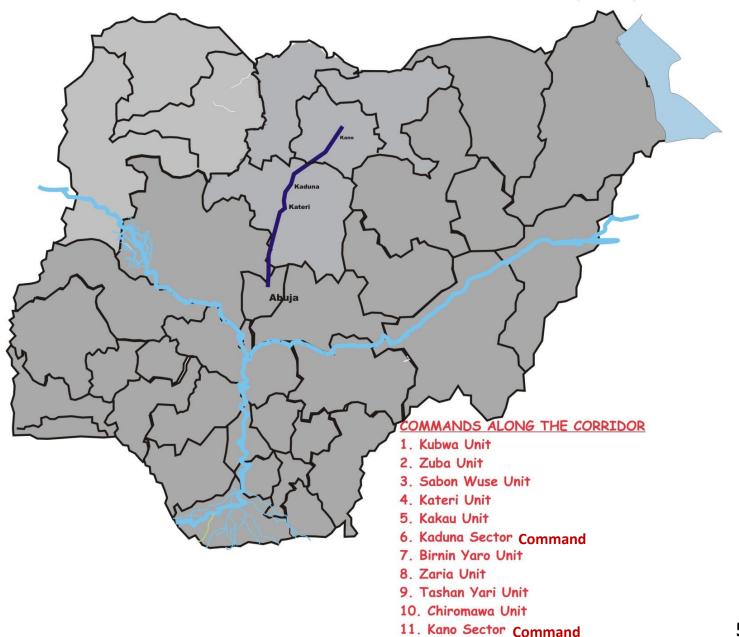
CORRIDOR 2: ENUGU - ABAKALIKI - IKOM CORRIDOR 580Km COMMANDS ALONG THE CORRIDOR 1. Enugu Sector 2. Ebonyi Sector 3. Nkalagu Unit 4. Igbagu Unit 5. Yahe Unit

6. Ikom Unit

CORRIDOR 3: BENIN -OWO - ILESA CORRIDOR (350km) COMMANDS ALONG THE CORRIDOR 1. Owan Esigie Unit 2. Ifon Unit 3. Owo Unit 4. Akure Sector Command 5. Ipetu Ijesa Unit 6. Ilesa Unit 49

CORRIDOR 4: JOS - BAUCHI - GOMBE CORRIDOR (540Km) COMMANDS ALONG THE CORRIDOR 1. Plateau Sector Command 2. Jos Bye- Pass 3. Toro Unit 4. Bauchi Sector Command 5. Alkaleri Unit 6. Bara Unit **50** 7. Gombe Sector Command

CORRIDOR 5: ABUJA - KADUNA - KANO CORRIDOR (500Km)



CORRIDOR 6: ABUJA METROPOLITAN (80Km)



18 OPERATION CORRIDORS IN NIGERIA

18 Operations corridors were created as an aftermath of the World Bank Safe corridor project

The Abuja-Kaduna-Kano dual carriage was initially part of the 18 operations corridors of the Corps. It was later taken over by the World Bank Safe Corridor Project

S/N	NAME OF CORRIDOR								
1	Ojota-Mowe-Sagamu-Ogere-Oluyole-Ibadan Corridor								
2	Sagamu-Ijebu Ode-Ore-Benin Toll Gate-Agbor-Issele Uku-Onitsha-								
	Nteje- Akwa								
3	Gwagwalada-Yangoji-Abaji-Kotonkarfe-Lokoja-Zariagi								
4	Nyanya-Keffi-Hawankibo-Plateau-Toro-Bauchi-Alkaleri-Gombe-								
	Kaltungo-Numan-Yola-Girei-Hong								
5	FCT-Sabon Wuse-kakau-Birnin Yero-Zaria-Chiromawa-Kano								
6	Mokola-Oyo-Atiba-Ogbomoso-Olooru-Bode Saadu-Jebba-Mokwa-								
	Birnin Gwari-Kaduna								
7	Iwo Road-Egbeda-Ife-Ilesha-Ipetu Ijesha-Ondo-Owo								
8	Benin-Sapele-Warri-Ughelli-Sagbama-Ahoada								
9	Enugu-Okigwe-Aba-Portharcourt								
10	Lafia-Langtang-Pankshin-Jos								
11	Jos-Saminaka-Kaduna								
12	Maiduguri-Biu-Numan-Jalingo-Wukari-Katsina Ala-Ogoja								
13	Bauchi-Darazo-Dogon Kuka-Potiskum-Damaturu-Benishek-Maiduguri								
14	Kishi-Ilorin-Omuaran-Isanlu-Kabba-Ankpa-Oturkpo								
15	Katsina-Kano-Wudil-Dutse-Azare-Potiskum								
16	Kotangora-Birnin Kebbi-Sokoto								
17	Katsina-Funtua-Zaria								
18	Onitsha-Njaba-Owerri-Umuahia-Arochukwu								

ENFORCEMENT

In view of the additional advance equipment, training and capacity building received from the Bank, the Corps has maximally put in use those facilities to curb recklessness on the highways

This is being further enhanced as new patrol vehicles are injected nationwide.





IMPLEMENTATION OF EMS

Emergency Medical **Services (EMS)** for the corridors are based on the recommendati ons of World Health **Organization** and studies of the Corps

Procurement of 18 Advance Life Support Ambulances

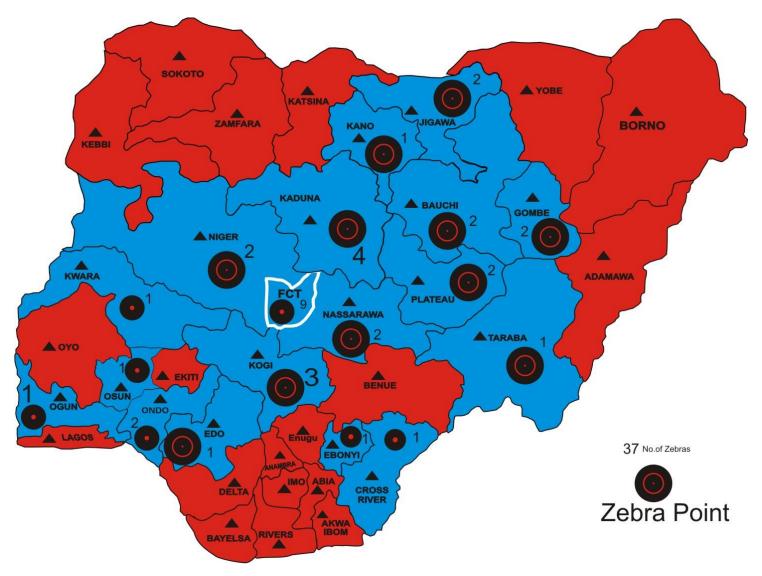
Construction of 18
Emergency Ambulance
Points (Zebras): The
contract for the
construction of 18
emergency ambulance
points (Zebras) has been
re-awarded and work is
in advance stage at most
of the sites.





The Emergency Ambulance Service has improved "Golden Hour" system in Nigeria

The Corps has 37 Emergency Ambulance rescue points (ZEBRAS) nationwide and 26 Road Side Clinic/Help Areas spread across the nation



The FRSC emergency clinics are providing more than handling trauma care but have become primary health care centers for the local community

57

-Supporting Post crash care

Common, simple emergency number: 122

Call center open 24/7

- Toll-free calls
- Toll-free assistance





The Toll-free emergency Centre has been coordinating emergency calls with precision directing calls to the nearest ambulance point without delays

Public Education and Outreach

A nationwide campaign is ongoing with Exxon Mobil on corridors including the safe corridors

EXXON MOBIL PAN NIGERIA ROAD SAFETY CAMPAIGN 2016 #dotherightthing







An initiative, **National Post Crash Community Care** Initiative (NPCCI) covers some of the safe corridors to enhance post crash care by first responders





Training, Technical Assistance and Policy Development

The World Bank intervention has led to manpower development and general capacity building, improved road safety practice and assistance in the creation of additional legal framework Under in the Corps

30 Patrol Rank Officers were intensively trained in Three (3) batches





52

Training of 30 Management Staff Concluded in March 2016 at California Highway Academy Patrol (CHPA), Sacramento, California, USA. The training was in two (2) batches





Support for the training of 40 Officers on train the-trainers for the delivery of liquid hydrocarbon products at APTH in France in May, 2013



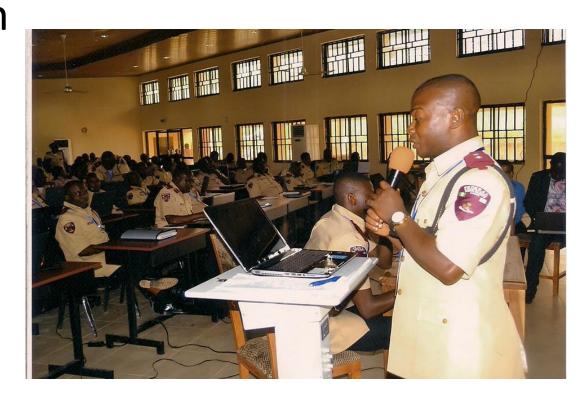


Support for the training of 5 Officers in Road Safety Audit in Birmingham University in **United Kingdom**





Procurement of the services of an Australian firm, **SMEC** International to train 218 FRSC Officers from May-October, 2014 at the FRSC Academy



Training of 100 Personnel of the Corps as **Certified First** Responders at **National** Hospital, Abuja in 4 batches of 25 personnel each in 2014



Provision of Stateof-Art e-learning facilities at the FRSC Academy in Udi-Enugu State, Nigeria





EXPERT SERVICE ENGAGEMENT

Engagement of an expert for the design, supply, implementation and deployment of a National Road Traffic Crash Data Management System (NRTCDMS) has commenced with the resumption of the consultant from Sweroad, Mr. Bo Yttergren on 8 August, 2016



FURTHER CAPACITY DEVELOPMENT



"NO OBJECTION" approval from the World Bank sponsorship of five (5) Officers at Royal Society for the Prevention of Accidents (RoSPA) for Road Crash **Investigation and Road Safety** Audit to come in March, 2017

TWINING PROJECT

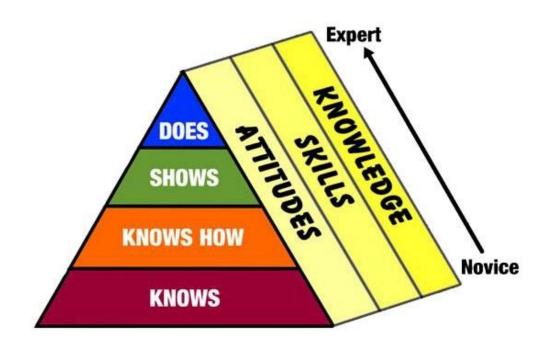
The IRTAD Twinning Project is intended to be a World Bank sponsored 3-year programme to create RTC data collection system for the Federal Road Safety Corps (FRSC), Nigeria that would eventually lead to a national database involving other agencies. It is a proposed partnering of FRSC with the UK Department of Transport and Transport Research Laboratory (TRL) as an effort at ensuring credible data management in the country

WORLD BANK SAFE CORRIDOR -STATUS

	NAME OF CORRIDOR	PATROL EQUIPMENT: AVALABILITY									
S/No.	WORLD BANK CORRIDOR		No.of	No.of	No. of		No. of	No. of	No. of	No. of	No. of
		Patrol	Heavy	Heavy		Breath-	Walkie	Digital	Cam-	VHF Base	VHF
		Vehicles	duty	Duty	Gun	alyzers	Talkies	cameras	coders	Stations	Mobile
			Patrol	Tow							Radio
			Bikes	truck							
	Abuja-Kaduna-Zaria-										
1	Kano	8	10	1	10	150	0	4	4	3	8
2	Benin-Ifon-Akure-Ilesha	7	6	1	20	387	5	4	4	1	6
	Mokwa-Bida-Lambata-										
63	Suleja	5	4	1	15	275	5	3	4	3	4
4	Jos-Bauchi-Gombe	6	7	1	7	137	0	1	1	2	7
4		D	/	1	/	157	U	4	4	3	/
	Enugu-Abakaliki- Ikom-										
5	Mfum	5	7	1	6	126	0	3	2	3	6
6	Abuja Metropolis	6	11	2	21	126	25	0	1	0	17
	TOTAL	37	45	7	79	1,201	35	18	19	13	48

Result of the Project

Acquisition of competence in virtually every field of road safety management



Plans are on to replicate the safe corridor success to other corridors in the country

The Corps has a pool of highly competent personnel who can serve as experts for other countries and serving on several international road safety committees. E.g Sierra- Leone

- Attracted increased funding for road safety at all levels of governance
- Local and International recognitions World Bank has described the FRSC as the Best example of Lead Agency in Road Safety Management in Africa
- Evolution of better Road Safety Culture

SUSTAINABLE PLANS

The African Development Bank (ADB) has outlined plans for road safety intervention along the Biu-Gombe corridor in North-Eastern part of Nigeria



This is highly encouraging and indeed a welcome development on the follow-up of the World Bank programme

GOVERNMENT'S SUSTAINED EFFORTS

Effort of government in improving road safety resulted in the procurement of about 400 Patrol vehicles, Ambulances and Tow trucks in year 2016

Procurements made by government in 2016 are unprecedented in FRSC

Patrol cars



Ambulances



Tow Trucks



Power Bikes



NIGERIA ROAD SAFETY STRATEGY

The Nigeria Road Safety Strategy (NRSS) has been approved by the Federal Executive Council (FEC) and endorsed by the National Economic Council (NEC)



The National Road Safety Advisory Council (NaSARC) chaired by the Vice President of Nigeria, was inaugurated on Thursday, 16 February, 2017

STANDARDS CERTIFICATION

Since embracing Quality Management System, the Corps has been able to sustain international operating standards and have earned for itself the ISO 9001: 2008 QMS Certification



The Corps has been recertified for the next
3-years having
sustained all standards

Extending Road Safety to the West African region



West African Initiative



The West African sub-region through ECOWAS created the West African Road Safety Organization (WARSO) for knowledge sharing and other forms of collaboration on Road Safety

Nigeria has been President of WARSO from inception on 8 May 2008 till 8 Dec 2016 while also providing Secretariat in Abuja-Nigeria

Broad spectrum of road safety interaction

FRSC has become a member of most road safety organizations with improved interactive benefits





























CHALLENGES

Fluctuations in Exchange Rates

Mounting Fleet maintenance cost

Procurement

ProcessingTime

Sustainability of the Programme

Lack of comprehensive insurance for fleet

6 The Role of RSDT in the Federal Ministry of Power, Works and Housing

RECOMMENDATIONS

☐ Institute

measures to

overcome

unnecessary

delays in the

procurement

process

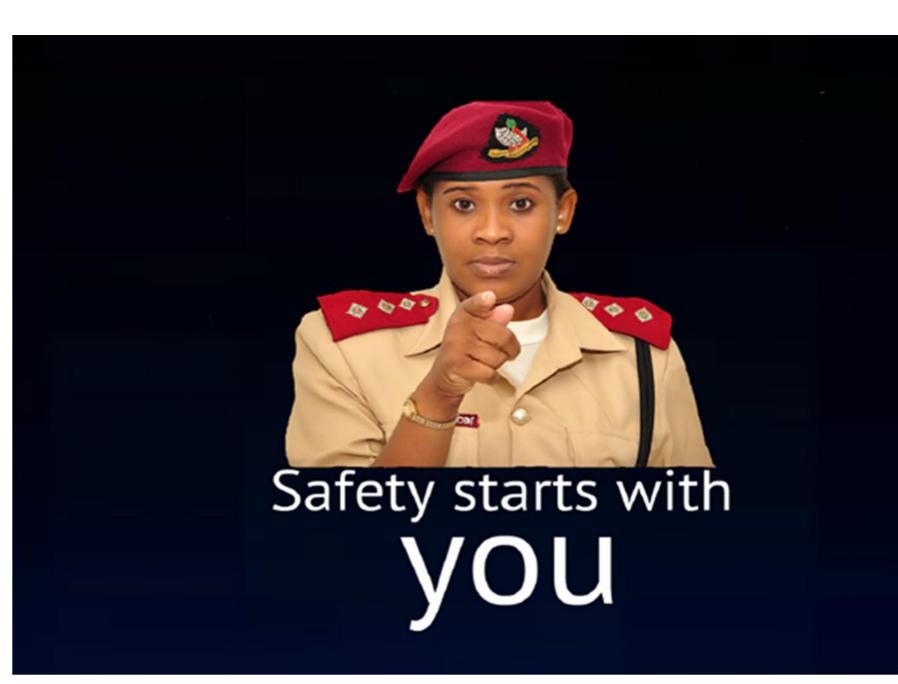
Put in place a programme to ensure regular re-fleeting

comprehensive insurance cover for the fleet and sustain the programme

CONCLUSION

Through the Safe Corridor Project, FRSC has demonstrated a critical capacity to engage in large scale externally funded interventions seeking organizational capacity and quick results, in a sustainable manner, to boost the visibility of road safety, and which can be replicated

More broadly, the organization's close administrative connection with the Presidency is an important and positive feature of the FRSC capacity to lead road safety efforts in Nigeria



THANK YOU

Phone Only





SMS Only



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