Partner city

Yaoundé, Cameroon

Status of the project: Completed technical assistance



Basic Information

Area: Administrative limits: 304 km² Urbanised area: 183 km² Population: 4.1 million (2020, functional urban area) GDP per capita: USD 1,529 (2018, Cameroon)

Key facts

City, Country	Yaoundé, Cameroon			
Population	4.1 million (2020, functional urban area)			
Growth rate	3.5%			
Land area	Administrative limits: 304 km² Urbanised area: 183 km²			
GDP per capita	USD 1,529 (2018, Cameroon)			
Baseline motorisation rate ¹	58 cars per 1,000 inhabitants 18 motorbikes per 1,000 inhabitants			
Annual transport emissions per capita ²	241 kg CO ₂ eq			
Local Partner (organisation)	Urban Community of Yaoundé (CUY)			
Implementing partners	Agence Française de Développement (AFD), Codatu			
Donors supporting technical assistance for SUMP	French Facility for Global Environment (FFEM)			
Amount in technical assistance	Approximately €350,000 ³			
SUMP implementation timeline	Joined MobiliseYourCity in November 2016 MobiliseDays in June 2016 Start of SUMP in March 2018 SUMP completed and approved in September 2019			

¹ For comparison with motorisation rates in European capital cities, Berlin has a motorisation rate of 330 cars per 1,000 inhabitants, and other capital cities in Austria, Belgium, Denmark, France, Hungary, Ireland, and the Netherlands have a motorisation rate under 450 cars per 1,000 inhabitants. Source: Eurostat Regional Yearbook 2020.

3 From a FFEM envelope of 2 M ${\rm \in}$

² For comparison, the annual transport (except air travel) emissions per capita in Germany are 1.61 tCO₂eq. Source: Die Umweltwirtschaft in Deutschland: Entwicklung, Struktur und internationale Wettbewerbsfähigkeit. www.umweltbundesamt.de

Yaoundé, Cameroon
No concise vision formulated
CAPEX by term
• 298.1 M€ (2025) / 554.7 M€ (2035)
Yearly OPEX to term
• 15 M€ (2035)
Total CAPEX & OPEX requirements by 2030
• CAPEX: 550 M€
• OPEX: 151 M€
 Total CAPEX and OPEX: 701 M€

Diagnosis: Urban Mobility in Yaoundé

Like many other major cities in Sub-Saharan Africa, Yaoundé is experiencing rapid population growth. The metropolis suffers from a lack of mobility infrastructure and the financial resources to properly maintain what it has, whether it is the public transport network, the organisation of small-scale transport offer, parking facilities or even simply roads and pedestrian areas. The economy of the city suffers from the lack of infrastructure, and struggles to attract investors.

Following the current evolution of rapid urban growth, the population will reach 5.5 million inhabitants in 2035, and the urban area will reach a radius of 25 km by the end of the century. The increase in the demand for travel, and in the rate of motorisation accompanying the rise in income, may rapidly lead to the saturation of the existing system. Hence, travel times will increase significantly along with the overall cost of travel, due to the consumption of more fuel by private vehicles and taxis.

Existing mobility and transport services

The transport system in Yaoundé, while being relatively fluid, is accident prone, uncomfortable, polluting, and expensive for the population.

There are about 8 million of trips travelled every day, from which one third are short distance trips travelled by walking or by moto-taxis. For longer trips, taxis, motorbikes, and cars are the main modes of transport. Official bus service and informal minibuses currently only play a minor role.

All these modes of transport use the same poorly maintained road network, where only 300 km of 2,700 km of roads are asphalted. The state of the road network limits both private and public transport. In particular, it suffers from the following problems:

- Most of the secondary and local roads are unasphalted
- Main and metropolitan roads are not optimally laid out and do not provide for the sharing of the road network between low-capacity modes and high-capacity modes (bus) and soft modes
- Degraded road surfaces or unmanaged intersections create traffic bottlenecks
- · Vehicles, including freight vehicles, are parked on the road
- Geographical elements and neighbourhoods that are densely built on several km² without wide roads constitute obstacles to transit traffic of cars and public transport

Walking: 4 million trips travelled every day by pedestrians and walking is the main mode of transport. However, the lack of sidewalks combined with a chaotic traffic poses a threat to pedestrians' safety, and they are particularly exposed to traffic accidents.

Taxi service: Less than 5% of vehicles are taxis, but they have a 38% share of the modal split by distance. They transport all categories of the population, and with an average occupation rate of 3 passengers, they are the main motorised mode of transport. Taxis, even used collectively, are relatively expensive: for one passenger out of four, taxi fares only represent over 15% of their household income.

Moto-taxis: Moto-taxis are particularly present in the outlying districts. Their flexibility and agility allow them to use roads that are unpracticable for other vehicles, due to the poor state of the pavement or the narrowness of the road. Moto-taxis, often operated informally by very young drivers, are notably resistant to any regulation, which is nevertheless necessary to address the safety issues associated with this mode of transport.

Private cars: Cars are handicapped by the state of the road network and only 10% of trips are made by private cars. The car ownership rate, which is highly dependent on household income, is nevertheless increasing along with the standard of living.

Informal minibuses: Informal minibuses are of lesser importance in comparison to other African cities. In Yaoundé, they are mainly used for transport between the centre and the periphery, following fixed routes and departing from bus stations.

Formal buses: A formal bus service is available through the private company Stecy and is growing, but remains a minority element in the current mobility landscape. No facilities are in place to encourage this mode of transport. Buses travel on the same roadway as other vehicles and suffer from congestion and low commercial speed.

Environmental challenges

The vehicle fleet is very old (20% of vehicles are over 20 years old) and is very polluting, emitting large amounts of greenhouse gases and air pollutants.

Internal trips within the CUY emit the equivalent of 635 ktCO_2 per year. Along with distances travelled by vehicles, emissions follow a strong growth. Unfortunately, the gradual improvement in the performance of the vehicle fleet linked to its renewal does not counterbalance this trend.

In a list of 54 countries, Cameroon ranked 15th among the most polluted countries in Africa in 2017. While the average concentrations of pollutants are not sufficiently documented, punctual measurements have observed peak concentrations of fine particulate matter PM2.5 that were one hundred times higher than the WHO standard.

Safety and comforts are key issues to be addressed

Safety is a major issue for mobility in Yaoundé, where accidents cause around 1,000 deaths and 5,000 serious injuries per year. A specific study on a sample of taxi drivers revealed that 73% of them had an accident in the two previous years. In addition to accidents, inquired passengers raised the issue of the risk of assault in taxis.

Comfort is also often a problem: long waits in hot or rainy environments, difficulty in finding an available taxi in certain areas, or vehicles overloaded with passengers and goods.

Gender disparities: women travel less and use less comfortable modes of transport

The diagnosis describes a slight difference in the number of journeys made by women, which can be linked to significant disparities in terms of full-time formal employment (15% of women compared to 27% of men). Compared to men, women in Yaoundé make half as many journeys using private cars but travel more by foot or on moto-taxis.

The high cost of transport puts low-income users under pressure

After housing and food, transport is the third largest item of expenditure for Yaoundé residents and accounts for more than 11% of household spending. This is particularly critical in this city where inequalities are extremely high, and the highest 20% of incomes are on average more than 7 times higher than the bottom 20%.

The high cost of transport is attributed to the low efficiency of minibuses, taxis, and motor taxis, linked with a poor road network, and the weakness of public transport offer.

Institutional and financial capacity of the CUY: a gap remains between mandate and resources

The Urban Community of Yaoundé is the transport organising authority, both legally and in practice.

However, in spite of notable capacities, the CUY does not currently have the institutional means nor the adequate human resources to perform some of the essential tasks assigned to it by law, including the following: (i) the organisation and management of public transport, (ii) the traffic and parking management, and (iii) continuous monitoring of performance the urban transport system and the quality of service provided to citizens.

As the majority of the city will develop outside the administrative boundaries of the CUY by 2035, the municipal authorities, i.e. the CUY and the peripheral municipalities, will have to develop together an integrated organisation for public transport and define a structuring infrastructure network and priority multimodal investment plans on the scale of the future large conurbation.

In total, financial resources allocated to the construction and maintenance of roads, nearly 40 M€ per year, are in line with expectations based on the economic status of the city and country. However, the CUY has an insufficient share of these resources in perspective of its mandate. The national level compensates financially with its much greater resources and the support of international donors, but coordination is insufficient between the city and the ministries responsible for urban development and public works.

The SUMP preparation process and stakeholder involvement

In order to take the future urban development into account, the perimeter of the study covers a surface of about 700 km², from which 304 km² are within the administrative boundaries of the city.

Throughout the process of developing the SUMP, the various stakeholders involved in mobility were associated through technical committees, specific exchange workshops, and bilateral meetings.

The technical committees gathered the Yaoundé Urban Community, the Ministries of Urban Development, Transport, Public Works, Economy and Planning, Environment, the Police, the various taxi, and motorbike taxi unions, the Stecy bus company and the Agence Française de Développement (AFD).

Specific workshops in small groups linked representatives of the technical committee with academics, officials from the local districts, rail transporters, and managers of places that generate large amounts of travel, such as markets. These workshops enabled the different actors to take sufficient ownership of the approach.

In addition to the members of the technical committee, the team in charge of developing the SUMP also met bilaterally with international donors and representatives of the local districts.

Three time-horizons were considered:

- A. The very short term: horizon of 1 to 2 years in order to highlight quick wins
- B. The medium term: horizon of 5 to 7 years in order to observe the effects of the first SUMP measure
- C. The long term: horizon of 15 years to aim at significant results, to anticipate possible needs for reorientation

Vision setting and definition of scenarios

Strategic Vision

The SUMP of Yaoundé does not propose clear vision and goals for urban mobility in the city. However, it fully adopts the EASI framework and puts a strong emphasis on identifying challenges and solutions. Challenge-related objectives of the SUMP are:

- Improving traffic conditions by developing a network of roads beneficial to all
- · Reducing the cost of mobility supported by households
- Improving the quality of life in the city with a less dangerous and less polluting system

How does the SUMP adopt the EASI framework?

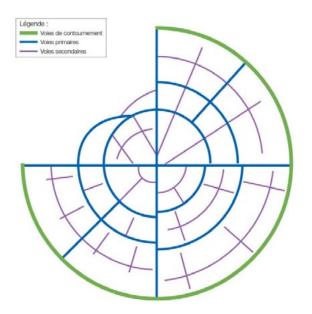
ENABLE - Improvement of steering and financing

AVOID - Transit oriented urban development, urban densification, densification around developing mass transit routes

SHIFT - Multimodal transport scheme, complementarity of transport modes

IMPROVE - Optimisation of the road network and improvement of the vehicle fleet

- Developing main roads
- Sharing space
- Traffic regulation
- Renewing the vehicle fleet towards less polluting and lower emissions



The SUMP develops the concept of coherent road network: The Cross.

The network builds up on existing roads and makes use of north-south and east-west metropolitan axes, and of multiple hierarchical levels of roads.

The road infrastructure will provide an efficient inclusion of the bus offer, for example with reserved lanes on congested sections.

Test scenarios and selected scenario

Three specific scenarios where defined in order to assess the impact of the SUMP by 2025 and by 2035, each one developed with a different level of ambition.

Baseline scenario: No SUMP implementation takes place, but existing laws and regulations are implemented. Private car ownership will increase, and the modal share of public transport will decrease. Travel times are expected to increase sharply, especially due to the increasing congestion in the capital.

Central scenario: This scenario provides immediate solutions to issues related to the road network. It is an ambitious infrastructure project focused on increasing the capacity of the roads to accommodate increased private vehicle traffic. However, with the appropriate road layout and the establishment of mass transport lines, this scenario allows for a significant shift to public transport, whose modal share is expected to evolve positively.

Ambitious scenario: The ambitious scenario also includes an important road infrastructure component in the short term, but focuses more on the creation of mass transport lines, including a train-tram project by 2035.

The scenario finally selected is the **Central scenario**. This scenario aims at the completion in the short term (2025) of a more efficient, adequate, and structuring road network. A public transport offer will also be put in place, but on a reduced number of lines, aiming at a good level of service and reliability, an offer that is affordable for the user and financially balanced. After having proven its effectiveness and relevance and gotten the adhesion of users, the public transport offer can be extended and replicated on a larger scale according to a level of ambition yet to be defined. Indeed, the current measures respond to imperative needs but will not make it possible to meet all the long-term challenges, particularly the reduction of greenhouse gas emissions. The SUMP, therefore, recommends a reassessment in 2025 and envisages an increase in ambition in terms of public transport in the long term.

Cost estimates in M€	Proposed Financing Source	Implemented by	
891.9 M€			
SUBTOTAL: 852.8 M€			
2025: 157 M€ 2035: 304 M€	Domestic financing / No international financing identified	2025 2035	
2025: 29.7 M€ 2035: 94.5 M€	Domestic financing / No international financing identified	2025 2035	
13 M€	Domestic financing / No international financing identified	2035	
2025: 51.5 M€ 2030: 19.8 M€	AFD	2025 2030	
2020: 5 M€ 2035: 1.4 M€/year	AFD	2020 2035	
2025: 54.9 M€ 2035: 102.4 M€	Domestic financing / No international financing identified	2025 2035	
SUBTOTAL: 28.7 M€			
2025: 9.7 M€ 2035: 19 M€	Domestic financing / No international financing identified	2025 2035	
	891.9 M€ SUBTOTAL: 852.8 M€ 2025: 157 M€ 2035: 304 M€ 2025: 29.7 M€ 2035: 94.5 M€ 13 M€ 2020: 5 M€ 2035: 1.4 M€/year 2025: 54.9 M€ 2035: 102.4 M€ SUBTOTAL: 28.7 M€ 2025: 9.7 M€	891.9 M€ SUBTOTAL: 852.8 M€ 2025: 157 M€ 2035: 304 M€ 2025: 29.7 M€ 2035: 94.5 M€ Domestic financing / No international financing identified 2025: 29.7 M€ 2035: 94.5 M€ Domestic financing / No international financing identified 13 M€ Domestic financing / No international financing identified 2025: 51.5 M€ AFD 2030: 19.8 M€ AFD 2020: 5 M€ Domestic financing / No international financing identified 2020: 5 M€ Domestic financing / No international financing 2025: 54.9 M€ Domestic financing / No international financing 2025: 54.9 M€ Domestic financing / No international financing 2035: 102.4 M€ Domestic financing / No international financing 2025: 9.7 M€ Domestic financing / No international financing 2025: 9.7 M€ Domestic financing / No 2025: 9.7 M€ Domestic financing / No	

Key SUMP measures

Measure	Cost estimates in M€	Proposed Financing Source	Implemented by	
Regulation, institution and policy reforms	SUBTOTAL: 10.4 M€			
Informal transport project				
Reform of the taxi and moto-taxi systems				
Continuous formalisation of moto-taxis and informal buses through the establishment of a new institution responsible for vocational training, schedules regulation, the administrative formalisation	4.5 M€	European Union	2024	
Institutional reforms: creation of a local commission and a technical service for mobility	2.1 M€	Domestic financing / No international financing identified	2020	
Control and training centre for mobility and transport	3.8 M€	Domestic financing / No international financing identified	2023	

Projected results and impact

The implementation of the measures identified in the SUMP is expected to lead to a significant impact in terms of GHG emission reduction, improvement of the modal share of sustainable transport modes, and more. The following table presents the expected results and impact.

Baseline BAU SUMP BAU 2035 SUMP SUMP vs BA Per capita 241 kg C0_geq 284 kg 251 kg 367 kg 271 kg -26.16% Per capita 241 kg C0_geq 284 kg 251 kg 367 kg 271 kg -26.16% Total 0.78 Mt 1.14 Mt 1.01 Mt 2.00 Mt 1.48 Mt -26.06% Projected increase of annual GHG emissions by 2029, in percentage of the baseline: - - - - • BUSINESS-as-usual scenario: +101% - SUMP vos BA 2018 BAU 2025 SUMP 2025 BAU 2035 SUMF Accessibility (SDG 11) Total population at 500m or less of public covered 2,212,283 4,028,557 4,028,557 5,599,757 5,599 Population at 500m or less of public transport stops 1,350,000 1,415,700 1,405,500 1,528,900 1,888 Air pollution (SDG 11) Improved but not quantified 27% 35% 27% 34%	Impact Area	Expected Impac	t					
2018 2025 2035 2035 Per capita 241 kg CO ₂ eq 284 kg 251 kg 367 kg 271 kg -26.16% Total 0.78 Mt 1.14 Mt 1.01 Mt 200 Mt 1.48 Mt -26.00% Total 0.78 Mt 1.14 Mt 1.01 Mt 200 Mt 1.48 Mt -26.00% Projected increase of annual GHG emissions by 2029, in percentage of the baseline: - - - - · Business-as-usual scenario: +101% · SUMP scenario: +59% BAU 2025 SUMP 2025 BAU 2035 SUMP Accessibility (SDG 11) Total population at 500m or less of public reansport stops 1,212,223 4,028,557 4,028,557 5,599,757 5,599 % Access 42% 35% 35% 27% 34% Air pollution (SDG 11) Improved but not quantified 1,415,700 1,405,500 1,528,900 1,888 Modal share Percentage of total trips being realised with Public Transport 27% 34% 35% 27% 34% Modal share of public transport 2% 1% 9% 2% 19% 19% 19% 19%	GHG emission (SDG 11)	Projected emissions in absolute value:						
Image: Colege Colege <thc< td=""><td></td><td></td><td></td><td></td><td></td><td>BAU 2035</td><td></td><td>SUMP vs BAU 20</td></thc<>						BAU 2035		SUMP vs BAU 20
CO_eq CO_ec SUMP CO_ec SUMP CO_ec SUMP CO_ec SU		Per capita 241	kg CO ₂ eq	5	5	5	5	-26.16%
• Business-as-usual scenario: +101% • Business-as-usual scenario: +101% • SUMP scenario: +59% Accessibility (SDG 11) Total population covered 2,212,283 4,028,557 4,028,557 5,599,757 5,599 Population at 500m or less of public transport stops 1,350,000 1,415,700 1,405,500 1,528,900 1,888 Air pollution (SDG 11) Improved but not quantified 35% 35% 27% 34% Air pollution (SDG 11) Improved but not quantified 1 <								-26.00%
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coveredPopulation at 500m or less of public transport stops1,350,0001,415,7001,405,5001,528,9001,888% Access42%35%35%27%34%Air pollution (SDG 11)Improved but not quantifiedPercentage of total trips being realised with Public TransportModal share Public Transport2%SUMP 2025BAU 2035SUMP 203Modal share of Public Transport2%1%9%2%19%Modal share of walking and cycling32%31%34%29%35%	Accessibility (SDG 11)		Ba	seline 2018	BAU 2	025 SUMP	2025 BAU 2	2035 SUMP 203
or less of public transport stops 35% 35% 27% 34% Access 42% 35% 35% 27% 34% Air pollution (SDG 11) Improved but not quantified Improved but not qua			2,2	212,283	4,028,	557 4,028,	557 5,599	9,757 5,599, 757
Air pollution (SDG 11) Improved but not quantified Modal share Percentage of total trips being realised with Public Transport SUMP 2025 BAU 2035 SUMP 2035 SUMP 2035 Modal share of Public Transport 2% 1% 9% 2% 19% Modal share of walking and cycling 32% 31% 34% 29% 35%		or less of public	0m 1,3	50,000	1,415,7	700 1,405,8	500 1,528	3,900 1,888, 600
Modal share Percentage of total trips being realised with Public Transport Baseline 2018 BAU 2025 SUMP 2025 BAU 2035 SUMP 203 Modal share of Public Transport 2% 1% 9% 2% 19% Modal share of walking and cycling 32% 31% 34% 29% 35%		% Access	429	%	35%	35%	27%	34%
Baseline 2018BAU 2025SUMP 2025BAU 2035SUMP 203Modal share of Public Transport2%1%9%2%19%Modal share of walking and cycling32%31%34%29%35%	Air pollution (SDG 11)	Improved but not	quantified					
Modal share of Public Transport2%1%9%2%19%Modal share of walking and cycling32%31%34%29%35%	Modal share	Percentage of total trips being realised with Public Transport						
Public TransportModal share of walking and cycling32%31%34%29%35%			Base	eline 2018	BAU 2025	SUMP 2025	5 BAU 2035	SUMP 2035
walking and cycling					1%	9%	2%	19%
Total 34% 32% 43% 31% 54%					31%	34%	29%	35%
		Total	34%		32%	43%	31%	54%

Impact Area	Expected Impact						
		Baseline 2018	SUMP 2025	SUMP 2035			
Road safety (SDG 3)	Deaths	1,000	800	500			
	Heavily wounded	5,000	4,000	2,500			
				dé Coeur de Ville" project vernance measures, includin	g the creation of		
Mobilised finance (SDG 17)	a Transport Organising Authority, an Urban Planning Agency, and the formalisation of moto-taxis and informal buses through outreach (European Union)						
Expected institutional impact	The measures ident parallel to the SUMF		complemented with a N	lational Urban Mobility Policy	, adopted in		

Lessons learned

On the occasion of the 3rd MobiliseYourCity conference in Yaoundé in 2019 and the official presentation of the SUMP, a reflection group⁴ composed of different stakeholders proposed areas for improvement for future SUMPs, particularly on the African continent.

 Placing the project owner at the centre of the SUMP process is important: authorities responsible for mobility should lead the planning process, with the support of MobiliseYourCity partners.

Recommendation: When drafting the ToRs, clearly state the role of the responsible local authorities in project ownership and ensure their capacity to monitor the process.

II. Ambitious surveys such as "household travel surveys" are expensive, are sometimes not adapted to the local context and available resources, and can produce unreliable data.

Recommendation: Demographic surveys (with car and two-wheeler motorisation rates) can be carried out on the basis of existing national surveys. They should be supplemented by origin-destination surveys (such as a simplified household survey, or road corridor and public transport network surveys) and qualitative socio-anthropological fieldwork to better capture the individual and collective factors behind the behaviour of respondents in terms of urban mobility. These two methodologies can be complementary and origin-destination surveys would allow the rapid identification of large masses of journeys.

III. Predictive traffic models are expensive to develop, can create the illusion of a "scientific" approach and may generate a gap between their results and their real appropriation by technicians and local elected officials.

Recommendation: Limit the use of models, base them on the observation and expertise of local counterparts and consultants (expert opinion). The SUMP must help identifying "strong lines", a concept that does not necessarily lead to the choice of one mode rather than another, and to use the models in a second stage, like during prefeasibility studies.

IV. The link between transport and urban planning is insufficiently considered, even though transport planning documents can be used as a lever for the implementation of other types of plans.

Recommendation: Strengthen local project management, institutional structuring, and governance, build capacities of local contracting authorities, and provide them with a framework for steering the implementation of SUMP action plans. When master plans exist for urban planning in African cities, they should be included in the terms of reference of the SUMP, even if their application is limited to a limited number of projects. Work done at national level (NUMP) should contribute to providing a legislative and legal framework and sources of funding.

⁴ Reflection group led by CODATU: Patrice Berger and Thibaut Descroux (UrbaLyon), Thierry Goin (CEREMA), Marie Dols (consultant), Philipe Bossuet (SYTRAL), Jean-Jacques Helluin, Mael Martinie, Sofia Martin, Antoine Clémot (CODATU).

Progress on implementation

I. Implementation and improvement of crossroads and terminals in the framework of the Yaoundé Centre Programme

This programme aims at enhancing access conditions to the city centre by improving crossroads and public transport terminals as well as upgrading walking infrastructure. The detailed studies to implement the project started in 2019 and finished in late 2021. Its construction is expected to start in 2022.

II. Construction of a ring road

This project is expected to enhance traffic conditions in the city by the construction of a ring road around Yaoundé. The technical studies were completed for two of the five road segments of the ring, leading to the tender for their construction. Studies for the third ring segment are under preparation, and the project has been declared of public utility. Construction works for the first two segments are expected to start in 2022.

III. Inclusive and Resilient Cities Development Project (PDVIR for its acronym in French)

In 2019, this project kicked off with the objective of providing accessible transport infrastructure for the most underprivileged. The project will improve connectivity of two Districts in Yaoundé through 15 km of structural roads and two pilot projects to promoting walking.

IV. Implementation of TRANSYAOUNDÉ

A BRT system, called TRANSYAUNDÉ, is under study since late 2020 in the framework of the programme CICLIA (Cities and Climate Change in Sub-Saharan Africa Initiative), cofinanced by AFD, the EU and the Suisse cooperation agency. This study focuses on the design, operational conditions and technical characteristics of the system. Feasibility studies for the first of three BRT lines are under elaboration.

V. Paratransit reform

In order to make of public transport more attractive and rise its modal share, a road map for the paratransit transformation was developed in 2021. This road map intends to enhance service conditions for users of minibuses, collective taxis, and moto-taxis. Parallelly, it also seeks to improve the labour conditions for paratransit professionals.

VI. Support to the cities of Douala and Yaoundé in the implementation of their SUMPs

This project, financed by the EU, allows capacity development support for Cameroonian authorities in relation to urban mobility by financing decentralised cooperation between Bordeaux Metropole and Yaoundé and Douala. Besides strengthening local capacities, the project goals include structuring a transport authority, creating a mobility observatory, organising participation workshops, and structuring an urban planning agency. The project will be launched in 2022.

VII. Training for city officials

Awareness of city officials in charge of road projects has been raised on the topics of multimodality and public spaces management. Training sessions have been conducted to propose low-cost, soft measures, such as crossroad redesign, bus stops, circulation schemes, etc., to boost implementation.

VIII. Implementation of instruments to reduce air pollution

Together with other Cameroonian authorities, Yaoundé's administration developed a programme to tackle air pollution, following the SUMP adoption. Considering the alarming results of preliminary measurements of air quality, the city requested a grant to the French Ministry of Economy and Finance to implement actions fighting air pollution. The Air Quality Week took place in November 2021.