ADDENDUM

to

Grant Agreement C33 between the Republic of Senegal and the Nordic Development Fund dated 21 March 2013

WHEREAS, inter alia:

- A. The parties have entered into a grant agreement dated 21 March 2013 (the "Grant Agreement") whereby NDF has agreed to make available to the Borrower a grant in the amount of EUR 3,000,000.00 (three million euros) (the "Original Grant Funds") for the purpose of financing the Stormwater Management and Climate Change Adaptation Project (PROGEP), as further described in Annex 1 to the Grant Agreement (the "Project");
- B. The Project will be expanded by new sub-components and scale-ups, as further described in Annex 1 to this Addendum. Annex 1 to this Addendum complements Annex 1 to the Grant Agreement C33 between the Republic of Senegal and NDF;
- C. The Recipient has requested NDF to provide additional financing for the purpose of the expanded project scope and NDF has agreed to provide such additional financing.

NDF and the Borrower wish to make certain amendments to the Grant Agreement as set forth herein.

NOW, THEREFORE, the parties hereto have agreed as follows:

- 1. Terms defined in the Grant Agreement have their defined meanings whenever used in this Addendum, unless otherwise defined in this Addendum.
- 2. The Fund agrees to grant to the Recipient, on the terms and subject to the conditions set forth or referred to herein and in the Grant Agreement, an additional amount of up to EUR 4,000,000.00 (four million euros) (the "Additional Grant Funds") for the purposes of the Project. Any reference to the Grant shall hereafter be a reference to both the Original Grant Funds as well as the Additional Grant Funds, unless otherwise specified.
- 3. Disbursements from the Additional Grant Funds shall be subject to the fulfilment, in a manner acceptable to the Fund, of the following conditions:
 - (a) this Addendum is in full force and effect, and no event which would entitle the Fund to suspend disbursements under the Grant Agreement, shall have occurred and be continuing:
 - (b) the Recipient has taken or caused to be taken all action necessary or advisable to enable the Recipient to receive the Additional Financing and to perform its obligations hereunder, including obtaining all required exemptions, consents and permits; and
 - (c) the Fund has received and accepted:
 - (i) a legal opinion showing that this Addendum has been duly authorised or ratified by, and executed and delivered on behalf of, the Recipient and is legally

binding upon the Recipient in accordance with its terms;

- (ii) if requested by the Fund, further evidence satisfactory to it that the execution and delivery of this Addendum on behalf of the Recipient has been duly authorised by all necessary authorities;
- (iii) evidence satisfactory to the Fund of the authority of the person or persons authorised to sign disbursement requests on behalf of the Recipient and the authenticated specimen signature of any such person;
- (iv) evidence satisfactory to the Fund that other financing required for the Project, including financing from the Recipient as well as the Partner Agency, has been obtained and that conditions precedent to the effectiveness of such financing have been met.
- 4. The Closing Date shall be 31 December 2019, or such later date as the Fund shall establish.
- 5. The provisions or clauses of the Grant Agreement not specifically mentioned or referred to herein shall remain unchanged and apply in all aspects to the Additional Grant Funds. Consequently, Annex 1 to the Grant Agreement is applicable as description of the Project, subject to any amendments or additions set out in Annex 1 to this Addendum.
- 6. The provisions set out in Article IX of the Grant Agreement shall apply *mutatis mutandis* to this Addendum as if set out their entirety herein.
- 7. This Addendum shall enter into force upon signature by both Parties. Upon its entry into force, this Addendum shall form an integral part of the Grant Agreement and all references to the Agreement therein shall be deemed to be references also to this Addendum.
- 8. This Addendum has been made in two copies in the English language, each of which shall be an original.

IN WITNESS WHEREOF the parties hereto, acting through their duly authorised representatives, have caused this Addendum to be signed in their respective names as of the day and year first above written.

NORDIC DEVELOPMENT FUND By: Pasi Hellman Managing Director	REPUBLIC OF SENESCHU Plan By: Amadeu BA
By: Wahla Jaguhan Martina Jägerhorn Country Program Manager	Ву:

ANNEX 1 to the Addendum to the Grant Agreement C33 between the Republic of Senegal and the Nordic Development Fund dated 21 March 2013

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Schedule I: Project Description

1.1 Introduction

The original project Senegal Flood Risk Management¹ (PROGEP) was approved by NDF and the World Bank (WB) in 2012.

The Additional Financing (AF) for PROGEP will (i) support storm-water drainage infrastructure investments in peri-urban Dakar (Pikine and Guediawaye); (ii) scale-up related community-engagement activities in peri-urban Dakar; (iii) reinforce integrated urban management in peri-urban Dakar; and (iv) upscale climate change resilient urban planning and management in two additional cities, Diamniadio and Saint-Louis. NDF will support the activities in the two new urban sites. The AF will be implemented during 2015-2019.

1.2 Relevance and Rationale

The AF is needed to support infrastructure investments and scaled-up interventions, and to introduce new activities aimed to reinforce the impacts of PROGEP. The biggest part of the additional resources will support the construction of drainage infrastructure in the Mbeubeuss solid waste deposit in Pikine in the Dakar region. These costs will be financed by the World Bank and Senegal.

The NDF funded activities will support the upscaling climate change resilient urban planning and management in the two cities with different characteristics. Diamniadio is located 30 km from the city center of Dakar and is part of the Dakar region. It is at heart of a governmental priority development project expected to serve as Senegal's urban model for a sustainable, carefully planned and managed city relieving the pressure on Dakar's uncontrolled growth. Saint-Louis is a historical city exposed to multiple natural hazards exacerbated by climate change. Saint-Louis region is an important contributor to national output in fishing, tourism and horticulture.

The two cities to be added to the project have also been proposed to be nominated pilot cities under the Global Environment Facility's (GEF) Sustainable Cities Initiative. Based on the dialogue between the government of Senegal and the GEF Secretariat, Senegal believes that Diamniadio and Saint-Louis are strong candidates for becoming Sustainable Cities pilots. If this GEF financing is confirmed later in 2015, these interventions would be complementary to the NDF funded interventions.

The additional financing from NDF and World Bank will contribute towards ending extreme poverty by reducing losses of assets amongst the poorest population living in peri-urban Dakar, Diamniadio and Saint-Louis; and promote shared prosperity by improving the urban-environmental quality. The project's revised development objectives are consistent with the WB's Senegal Country Partnership Strategy 2013 to 2017 that supports Senegal's new national development strategy 2014-2035 (Plan Sénégal Emergent). Moreover, the intervention is in line with and complement programs and projects supported by Senegal and its partners in water and sanitation, urban development, climate change, as well as coastal and disaster risk management. The NDF activities are well aligned with NDF's involvement in the original PROGEP and tie in well with the scope and objectives of the upgraded project.

¹ Called Senegal Storm Water Management and Climate Change Adaptation Project by the World Bank.

The NDF involvement under the AF is considered relevant for NDF's Strategy 2014-2015, both in terms of focal topics and applied approaches. It addresses all three cluster areas of NDF's Strategy; namely (i) Infrastructure (urban development and water management, climate vulnerability/resilience); (ii) Natural Resources (water resources management, sustainable land use, coastal zone management); and (iii) Climate change related capacity building of the involved authorities to ensure post-project sustainability. The NDF financing will also explore opportunities for private sector involvement through a diagnostic study, which will explore the current situation as well as opportunities to engage private sector in adaptation to climate change.

The NDF components benefit from and build upon approaches developed under similar projects, especially the NDF - Inter-American Development Bank co-financed Emerging and Sustainable Cities Initiative (NDF C40 and NDF C68) that includes development of methodology comprising diagnostic studies, risk modelling and vulnerability assessments, urban governance and management to promote climate resilient urban planning and adaptation measures including pilot micro-projects. The Diamniadio component will significantly benefit from previous NDF funded credit for modelling and strategic studies on the Maastrichtian aquifer as an important groundwater resource for the Dakar region. Knowledge sharing is expected to continue also through exchange between NDF financed activities across countries, continents and institutions. Since knowledge sharing events will be arranged e.g. under the NDF financed small grant facility project West Africa Coastal Erosion and Adaptation Project and under the Emerging Sustainable Cities Initiative, there may be additional opportunities for sharing experience between countries.

1.3 Project Objective

The original project objective will be revised to include the broadened geographical scope of Diamniadio and Saint-Louis. The revised PROGEP objective is thus to reduce flood risks in periurban areas of Dakar and improve capacity to plan and implement sustainable city management practices, including climate resilience, in selected urban areas.

1.4 Project Activities and Expected Results

The AF activities are structured around the four original PROGEP components:

- A. Flood risk mainstreaming in urban sector (to be renamed Integration of climate risks in urban planning and management):
 - A.1 Urban planning and management:
 - A.2 Institutional strengthening of central Government departments and municipalities; and
 - A.3 Piloting sustainable cities through climate resilience measures (new subcomponent).
- B. Drainage investments and management:
 - B.1 Drainage investments; and
 - B.2 Operating and maintenance of drainage system.
- C. Community engagement in urban flood risk reduction and adaptation to climate change:
 - C.1 Flood resilience awareness, communication and community capacity building; and
 - C.2 Flood risk reduction community investments.
- D. Project Coordination, Management, Monitoring and Evaluation

The NDF support will fall under subcomponent A.3. The World Bank will support complementary activities under the same subcomponent such as knowledge management, promotion of intercommunal cooperation, as well as validation and implementation of priority investments and micropilot projects. In addition to the AF, Senegal expects to access funds in late 2015 from GEF's Sustainable Cities programme for complementary activities. The total financing expected from GEF is USD 8 million to be executed through the World Bank and United Nations Industrial Development Organisation (UNIDO) in support of improving capacity to plan and implement sustainable city management practices, renewable energy, integrated waste management, and a planned sustainable industrial park in Diamniadio. NDF's support to enhanced private sector involvement will be designed to complement and pave the way for related activities supported by Senegal and its partners as well as by the above mentioned activities financed by WB, GEF and UNIDO.

1.5 NDF's Components

NDF's AF will be used to augment and pilot climate vulnerability assessments and adaptation measures under the sustainable cities concept in the evolving urban development pole of Diamniadio and Saint-Louis. The activities financed by NDF under the original project will serve as valuable building blocks for scaling up activities in the two new urban sites. As the costs of the NDF contracts have been in line or below the budgeted amounts, the balance from the original grant will be used for some of the scaled up activities. Three of NDF's six contracts under the original financing can be expanded to provide technical assistance in communication, training and geographic information system (GIS) activities for the new urban sites.

The new additional NDF activities will:

Pilot sustainable cities through climate resilience measures in Diamniadio through

- -A diagnostic study and city action plan including: (i) Environmental and natural resources sustainability; (ii) Urban planning and management climate focus; (iii) Urban governance and fiscal management with focus on climate vulnerability and risks; (iv) Private sector development opportunities and actions; (v) Climate resilience focused city action plan.
- -A catchment study and drainage master plan including: (i) Urban catchment study climate focused field investigations, data collection, and modelling of urbanisation and natural resources response affected by climate change; and (ii) Climate responsive drainage master plan including costs, institutional arrangements and implementation modalities.
- -An update and extension of the detailed urban master plan (PUD) including: (i) Up-dating the existing urban plan with integration of climate risk; targeted capacity building for urban authorities and community stakeholders relating to urban planning; (ii) GIS based climate vulnerability and risk mapping to guide urban planning; (iii) Integration of climate resilience into the city drainage master plan; and (iv) Strengthening of climate governance; capacity building relating to this.

Pilot sustainable cities through climate resilience measures in Saint-Louis through

- -A diagnostic study and city action plan including: (i) Environmental and natural resources sustainability; (ii) Urban planning and management with a climate focus; (iii) Urban governance and fiscal management with a climate vulnerability focus; (iv) Private sector development opportunities and actions; and (v) city action plan with focus on climate resilience.
- -The design and operationalization of a coastal zone environmental model and monitoring system for Saint-Louis including: (i) Prepare plan for data collection monitoring, modelling,

and climate risk analysis in city, estuarine and coastal areas; (ii) Establish climate focused data collection and modelling systems for climate modelling, assessments and knowledge generation; and (iii) Undertake climate related investigations, and modelling on geotechnical, sedimentary, hydro-dynamic and hydro-sedimentological conditions; (iv) Assess urban climate change vulnerability and impacts under various scenarios; and (v) Establish and launch post-project modelling, monitoring, evaluation, and dissemination programme including costs, training, implementation, handing-over, and launching.

- -The development of a partnership protocol for the management of the model and acquisition of equipment including: (i) Develop methodology and partnership protocol for implementation of modelling and monitoring activities including coordination mechanisms and operational support; and (ii) Procurement of equipment and systems and support identified by the diagnostic and planning study. The hydro-meteorological systems and services to be supported are based on applied technology that is widely used.
- -The update and extension of the urban master plan (PDU) including (i) Up-dating of the Urban Master Plan (PDU) so that climate change risks are integrated to the plan, and related capacity building of authorities and community actor; (ii) Establishment of GIS based climate vulnerability and risk maps to guide urban planning and management; (iii) Integration of climate resilience city drainage master plan; and (iv) Strengthening climate change management and governance.
- -The establishment of a territorial GIS for Saint-Louis including: (i) Establish multi-user GIS system for climate impact simulation, vulnerability analysis, production of risk maps, and information and knowledge sharing; and (ii) Operationalise the GIS services to guide urban planning and management.
- -Communication and awareness building. This will be an extension to ongoing activities i.e. including: (i) Systematic sharing of information on interventions, progress, and achievements; and (ii) Awareness raising events engaging public society, stakeholders and beneficiaries.

The NDF components are described in more detail in the tentative logical framework presented at the end of this Annex.

1.6 Cost Estimates and Financing Plan

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The provisional cost estimates for the AF project are summarised in Table 1:

Table 1: Cost Estimates for NDF Funded AF Components

Contract No	ACTIVITY	EUR
Consultancy		
contract 1	Diagnostic Study and City Action Plan for Diamniadio	204 000
Consultancy contract 2	Catchment study and Drainage Master Plan and Update and extension of the Detailed Urban Master Plan (PUD) for Diamniadio	680 000
Consultancy contract 3		
Consultancy contract 4	Design and Operationalization of a Coastal Zone Environmental Model and Monitoring System including Development of a Partnership Protocol for the Management of the Model for Saint-Louis	1 496 000

	Equipment and systems such as computer hardware, software	
Goods contract 1	(relating to hydrodynamic models, hydraulic modules, mapping and data management), survey instruments, sampling systems, and monitoring equipment; all based on applied	
	technology that is widely used)	816 000
	Contingency	328 000
	TOTAL	4 000 000

In addition to the above new contracts, it some of the new activities can be added as amendments to existing contracts funded by the original grant. For example, NDF currently finances three ongoing contracts relating to training, communication and awareness building, and geographic information systems (GIS) in the original project target area of peri-urban Dakar. Extending these services to cover the new geographical regions is expected to be not only cost-effective but also represent concrete examples of how the results and experience gathered from the original PROGEP can be used in the second phase of the project. There is a sufficient balance from the initial grant to cover these types of activities, and also to serve as an additional contingency for the activities under the additional financing project.

Table 2 below replaces Table 1 of Chapter 1.6 in Annex 1 of the Grant Agreement dated 21 March 2013:

Table 2: Cost Estimates for NDF Funded AF Components

Component / Subcomponent	EUR
Component A Flood risk mainstreaming in key sectors	
A1.2 Development of a GIS for flood risk mapping covering the peri-urban areas of Dakar (District of Pikine and Guediawaye) + Goods contracts	353 000
* Addendum to A1.2 Establishment of a territorial GIS at Saint-Louis	136 000
A1.5 Development of an integrated national urban planning and management strategy taking into account climate change adaptation and flood risk	247 000
A2.1 Development and implementation of flood prevention and climate change adaptation training program	350 000
* Addendum to A2.1 climate change training for Saint-Louis and Diamniadio	75 000
A2.2 Implementation of the national urban planning and management strategy action plan in pilot municipalities	250 000
Subtotal Component A	1 417 000
Component B Drainage investments and management	
B1.6 Impact evaluation process for the targeted communities for Phase1 and end of project (EoP) evaluation (2 studies)	209 000
Subtotal Component B	209 000
Component C Community engagement in urban food-risk reduction and adaptation to climate change	
C1.1 Support to MDA for the implementation of communication and awareness building	350 000

* Addendum to C1.1 communication and awareness building for Saint-Louis	80 000
and Diamniadio	
Subtotal Component C	430 000
Contingency	290 000
Unallocated amount*	654 000
TOTAL COST ESTIMATE	3 000 000

^{*}With reference to point 10.01 of the Grant Agreement, the Implementing Agency and the Fund may agree in writing on the potential use of this unallocated amount.

The financing plan for PROGEP AF is summarised in Table 3, which also shows the original budget

Table 3 Original and AF PROGEP financing plan in USD millions*

Current Component Name	Original Budget	AF Budget
A. Flood risk mainstreaming in urban sector (renamed Integration of climate risks in urban planning and management)	3.8	5.8**
B. Drainage investment and management	55.7	33.0***
C. Community engagement in urban flood risk reduction and adaptation to climate change	4.8	1.5
D. Project coordination, management, monitoring and evaluation	9.2	2.0
Total	73.5****	42.3

^{*} NDF contribution will be in EUR.

^{**} This figure consists of around USD 4.3 million from NDF and USD 1.5 million from WB 1.5. In addition to this Senegal is expected to access funds (about USD 8 million) in late 2015 from GEF's emerging integrated program on sustainable cities aiming at demonstrating innovative models of sustainable urban management and high impact investments. The NDF funded interventions are not dependent on the GEF funding; the GEF activities will serve as supplementary contribution to the activities for which NDF has paved the way.

^{***} This figure consists of USD 30 million from the World Bank and USD 3 million from Senegal.
**** This figure consists of USD 4 million from NDF and USD 69.5 million from WB.

Schedule II: Implementation Arrangement, Project Monitoring, Reporting and Evaluation

2.1 Project Organization

There are only minor modifications to the implementation arrangements under the AF that also apply for the NDF funded components. ADM (Municipal Development Agency) will remain the implementing agency responsible for all fiduciary aspects (procurement, management as well as safeguard compliance monitoring and coordination). Some adjustments will be made based on lessons learned from the initial project. City authorities and other stakeholder representatives from the two cities added to the project will be included in the existing project management structures (including a management committee and a technical committee). The department in charge of Diamniadio Urban Pole (DGPU), the city authorities of Saint-Louis and several stakeholder groups will thus be actively involved in project planning, execution, coordination and monitoring in the two cities.

2.4 Monitoring and Evaluation

The Monitoring and Evaluation (M&E) arrangements of the parent project will continue to apply. Progress reports covering the project are provided to NDF and WB on a semi-annual basis. ADM's M&E system for the PROGEP - considered a good practice - has been adjusted to match the revisions introduced for the AF. Monitoring and reporting will be shared with new stakeholders. The NDF components will be integrated in the World Banks's result based management structure. NDF and the World Bank will continue the close collaboration also in monitoring and aim at conducting for example joint supervision missions.

Schedule III: Grant Proceeds, Disbursement, Eligible Expenditures

3.1 Disbursement

The disbursement of the NDF grant will be based on the consultant's outputs. The tentative disbursement schedule is shown below:

	2016	2017	2018	2019	Total
Million EUR	0.68	1.60	1.52	0.20	4.00
%-of total	17%	40%	38%	5%	100%

3.2 Eligible Expenditures

The following table specifies the categories of eligible expenditures that may be financed out of the proceeds of the Grant, the allocations of the amounts of the Grant to each category and the percentage of expenditures to be financed in each category.

Table 4 Definition of Eligible Expenditures

Category	Amount of the Grant Allocated (EUR)	Percentage of Expenditures to be Financed (including taxes)
A. Goods (CIP+installation)		
Equipment and systems such as computer hardware, software (relating to hydrodynamic models, hydraulic modules, mapping and data management), survey instruments, sampling systems, and monitoring equipment	816,000	100%
B. Works (Works+equipment CIP+installation)	0	0
C. Consultants' fees and expenses D. Contingencies (unallocated)	2,856,000 328,000	100% 100%
TOTAL	4,000,000	

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Schedule V: Tentative Logical Framework for the NDF Components

HERARCHY OF OBJECTIVES	RESULTS	BENEFICIA RIES	KEY INDICATORS	TARGETS AND TIME	MEANS OF	RISKS AND MITIGATION
OBOLCIIVES		RIES	INDICATORS	FRAME	VERIFICATI ON	MITIGATION
Overall Objective Improve storm-water management and to promote climate resilient cities for the benefit of local residents of Diamniadio and Saint-Louis.	Impact Contribution to improved living conditions of the urban residents by applying preventive measures against the expected impacts of the escalating climate instability on urban environment,	City authorities and regional authorities, academia, private sector, and city populations of 200,000	Number of people and entities directly or indirectly benefitting from the improved quality of urban development planning and governance. Tools related to urban resilience,	per supported by 12/2019 Site-specific scorecards will be developed for Diamniadio and Saint-Louis.	ADM progress reports, supervision and review missions, mid-term review (MTR), evaluation reports. Publications and outputs from the Knowledge Management component	Political and governance challenges to be resolved by multidisciplinary and concerted efforts with the participation of local actors. Risk of weak political support is low due to AF being consistent with key
Objective Strengthened climate resilience in the two cities benefitting local residents.	settlements, infrastructure and livelihood Outcomes Evolving benefits to residents due to improved knowledge, climate	City authorities and regional authorities, academia,	Foundation for for climate resilient planning and development actions	Improved knowledge and climate resilient development	See above	partnership, sector, and disaster risk management strategies. The risk of poor technical designs are mitigated by
	focused urban development, institutional strengthening and resource mobilisation	private sector, and city populations	established and performing	and early pilot investment taking hold by 12/2019		involving the best international and national experts to contribute to the design and by applying models

Activities	Outputs	Beneficiaries	Key Indicators	Toward	NA C	
	Outputs	Deficiality	Key mulcators	Target and	Means of	proven successful
Sub-Component A.3	Climate impact	City	Climata	Time Frame	Verification	elsewhere (e.g. the
Piloting sustainable cities	knowledge	authorities and	Climate impact	Compliance	Project reports	sustainable cities
through climate resilience	,		knowledge in city	with indicator	and deliverables.	framework and the
measures in Diamniadio	strengthened and	regional	strengthened and	by 12/2019	ADM progress	NDF components
measures in Diamniagio	effectively	authorities	effectively		reports,	will adopt
	integrated into	private sector,	integrated into		supervision and	appropriate city
	urban planning	population of	PUD, and		review missions,	approaches like the
	(PUD),	40,000	implemented		MTR,	one applied in Latin
	management, and		7 9		evaluation	America)
	resource				reports.	· · · · :
	mobilization				Publications and	The risks of
					outputs from the	insufficient
	Enhanced private				Knowledge	institutional capacity
	sector recognition			·	Management	for implementation
	and involvement in				component	and sustainability is
	climate resilience		·		_	mitigated by
	promotion and					efficient
	resource					implementation by
	mobilisation			f v		ADM and executive
A.3.1.1 Diagnostic study	Diagnostic study	City and	Diagnosis	Compliance		entities based on
and City Action Plan	(including the	regional	(including private	with indicator		lessons learned from
Diamniadio including:	private sector) and	authorities and	sector	by 02/2016		initial PROGEP and
-Environmental and Natural	City Action Plan	economic	involvement),			extensive motivation
Resources Sustainability	validated	actors	monitoring,			of executing partners
-Urban planning and		·	modelling,			. 01
management climate focus	Enhanced private		assessments, of		•	Fiduciary risks will
-Urban governance and	sector appreciation		climate risk and			be alleviated by
fiscal management with	and involvement in		vulnerability			lessons from initial
focus on climate	climate change		knowledge	·		PROGEP
vulnerability and risks	adaptation		enhanced in city			-
-Private Sector Develop-	measures					The environmental
ment opportunities and						and social risks will
actions						be minimised by the
			<u> </u>			oc minimised by the

is .

			,					
		-Climate Resilience focused						updated
į	* ** **	City Action Plan						Environment and
:	•	A.3.1.2 Catchment study	Catchment study	City and	Catchment study	Compliance		Social Management
:	er See e	and Drainage Master Plan	performed	regional	and drainage	with indicator		Framework (ESMF)
1	8 M.1 (A)	Diamniadio including:		authorities and	master plan	by 06/2016		and the Resettlement
:	. •	-Urban Catchment Study	Climate adaptation	economic	established and			Policy Framework
		climate focused field	oriented Drainage	actors	operational			(RPF) of the initial
		investigations, data	Master Plan	including	o Por and a second			PROGEP to include
		collection, and modelling of	prepared and	private sector				the two new cities.
		urbanisation and natural	validated	in Diamniadio				
í,		resources response affected	·	Development	• •			The risk of poor
:	1.	by climate change		Pole				public response is
:	71	-Climate responsive						mitigated by active
:		Drainage Master Plan						local involvement
į		including costs, institutional						and communication.
		arrangements and						
		implementation						Integrity issues may
:		A.3.1.3 Update and	Urban	City and	Climate change	Compliance		occur, so NDF has
		extension of the Detailed	Development Plan	regional	issues	with indicator		already and will
	•	Urban Master Plan (PUD)	(PUD) upgraded to	authorities and	incorporated in	by 03/2017		continue to raise
	.	Diamniadio incuding:	include climate	economic	PUD, recognized,	•		awareness of NDF's
:		-Up-dating of PUD with	change aspects	actors	and effectively			anti-corruption
	The state of	integration of climate risk;		including	impacting on			guidelines which
		capacity building of	GIS based climate	private sector	climate resilient			now is available also
		authorities and communities	risk maps produced	-	urban		,	in French.
2		-GIS based climate	. –		development			
4 -		vulnerability and risk maps	Strengthened		_			There is a risk of
	* *	to guide urban planning and	climate orientation					delayed start-up,
	grave to a fi	management	of Drainage Master		•			which will be
		-Integration of climate	Plan					mitigated by
		resilience into Master Plan						proposing an
•		-Strengthening of Climate	PUD launched and					amendment to the
	•	Governance and Capacity	capacity building		١.			existing grant
•		Building	undertaken					agreement instead of

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Activities	Outputs	Beneficiaries	Key Indicators	Target and	Means of	a new agreement
				Time Frame	Verification	
Sub-component A.3.2	Climate impact	City	Climate impact	Compliance	ADM progress	The risk of cost
Piloting sustainable cities	knowledge	Authorities	knowledge in city	with indicator	reports,	overruns of the NDF
through climate resilience	strengthened and	and regional	strengthened and	by 12/2019	supervision and	overall allocation is
measures in Saint-Louis	effectively	authorities	effectively		review missions,	considered to be low
	integrated into	private sector,	integrated into		MTR,	since the total cost
	urban planning	academia,	PDU, and	·	evaluation	estimate contains a
	(PDU),	population of	implemented		reports.	contingency which
	management. and	160,000	*		Publications and	can, if needed,
	resource	,			outputs from the	accommodate price
	mobilization	` '			Knowledge	increases and
	Enhanced private				Management	unforeseen
	sector recognition	;			component	expenditures.
	and involvement in					
	climate resilience					Private sector
	promotion and	:				involvement is not a
	resource					priority for all
A 2 2 1 Discounting of 1	mobilisation		<u></u>			stakeholders.
A.3.2.1 Diagnostic study	Diagnostic study	City and	Diagnosis	Compliance		Nevertheless, the
and City Action Plan	(including the	regional	(including private	with indicator		NDF has actively
including -Environmental and natural	private sector) and	authorities,	sector	by 02/2016		advocated for more
resources sustainability	City Action Plan validated including	academia, and	involvement),			focus on private
-Urban planning and	enhanced private	economic	monitoring,	•		sector involvement
management including	sector appreciation	actors	modelling,			that is now part of
climate focus	and involvement		assessments, of climate risk and			the diagnostic study
-Urban governance and	and involvement					and City Action Plan
fiscal management and			vulnerability			preparation. NDF
climate vulnerability focus			knowledge			supports communi-
-Private sector development			enhanced in city			cation, outreach and
opportunities and actions					·	training activities,
-City Action Plan with						and can propose
focus on climate resilience						content that targets
Todas on chinate resilience		<u> </u>				the private sector.

Activities	<u>Outputs</u>	Beneficiaries	Key Indicators	Target and	Means of	
				Time Frame	<u>Verification</u>	
A.3.2.2.1 Design and	Plan for coastal	City and	Environmental	Compliance		
operationalization of a	zone climate	regional	model and	with indicator		
coastal zone environmental	change and	authorities,	monitoring	by 08/2017		. :
model and monitoring	environmental	academia, and	system active			
system Saint-Louis incl:	model and	economic	operation and			
-Preparing plan for data	monitoring	actors	providing quality			
collection monitoring,	prepared and		data, analysis, and			
modelling, and climate risk	validated	·	knowledge			
analysis in city, estuarine			contribution to			
and coastal areas	Data collection and		climate related			
-Establishing climate	modelling systems		urban planning			
focused data collection and	designed,		and management			
modelling systems for	established, and					
climate modelling,	operational					
assessments and knowledge						
generation	Detailed climate					
-Undertaking climate	oriented					
related investigations and	investigations and	,				
modelling on geotechnical,	modelling carried					
sedimentary, hydro-	out					
dynamic and hydro-						
sedimentological conditions	Climate change					
-Assessing urban climate	impact assessments					
change vulnerability, risks,	undertaken					
under various scenarios						
-Establishing and launching	Long-term					
long-term modelling,	modelling and					
monitoring, evaluation, and	monitoring	•				
dissemination programme	programme					
including costs, training,	launched and					·
implementation, handing-	operational	:				
over, and launching						

Activities	<u>Outputs</u>	Beneficiaries	Key Indicators	Target and	Means of	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	D . 11	a	Cit	Time Frame	<u>Verification</u>	
A.3.2.2.2 Development of a	Partnership	City and	Climate resilience	Compliance	ļ	
Partnership Protocol for the	Protocol in place	regional	actions and	with indicator		·
Management of the Model	and effective	authorities,	resource/	by 06/2016		
and acquisition of		academia, and	partnership		".	
equipment Saint-Louis	Equipment	economic	mobilised			
including	acquired and	actors				,
-Developing methodology	operational					
and protocol for modelling						,
and monitoring, partnership						
arrangement, coordination		·			,	
mechanisms, operational						
support		:				
-Establishing and						
operationalising TA						
-Procurement of equipment						
systems, and services under						,
the Action Plan.						
A.3.2.3 Update and	PDU upgraded to	City and	Climate change	Compliance		
extension of the Urban	include climate	regional	issues integrated	with indicator		
Master Plan (PDU) Saint-	change aspects	authorities,	in PDU,	by 03/2017		
Louis including		academia, and	recognized, and	-		
-Up-dating of the Urban	GIS services	economic	effectively			
Master Plan (PDU) with		actors	impacting on			·
integration of climate risk,	providing essential		climate resilient			
and related capacity	inputs to climate		urban			
building of authorities and	sensitive urban		development			,
community actors	planning		_			
-GIS based climate	1					
vulnerability and risk maps	Climate resilient			, , ,		
to guide urban planning and						
management	City Drainage Plan					
-Integration of climate	in place					

resilience City Drainage						
Master Plan	PDU launched and					
-Strengthening of climate	capacity of key	+5				
governance and capacity	actors strengthened					
building	<u> </u>					
A.3.2.4 Establishment	Multi-user GIS	City and	GIS system in	Compliance		
of a territorial GIS for	system oriented	regional	operation and	with indicator		
Saint-Louis including	towards of the	authorities,	providing the	by 06/2016		
-Establishing multi-user	impact simulation	academia, and	required maps		•	
GIS system for climate	of events,	economic	and inputs to			
impact simulation,	vulnerability	actors	climate resilient			
vulnerability analysis,	analysis, and		urban planning			
production of risk maps,	producing risk		and development			
and information sharing	maps					
-Operationalising the GIS						
services to guide urban						
planning and management.	D	C:	The state of the s	C 1:	A TO 3 C	
Sub-component A.3.5 Communication and	Project	City	Project	Compliance	ADM progress	
awareness building	communication and	Authorities	recognised for	with indicator	reports,	
- Systematic sharing of	awareness building services effectively	and regional authorities	good public	by 03/2017	supervision and review missions,	
information on project	in operation and	private sector,	transparency and recognised and		MTR,	
objectives and	stakeholders duly	academia,	supported by		evaluation	
interventions, progress, and	informed about	Population of	target groups		reports.	
achievements	PROGEP	160,000	turget groups		Toports.	
- Organise awareness	interventions and	100,000				
raising events engaging	achievements					
public society, stakeholders						
and beneficiaries						