	Indicators	Specification	Unit	Situation before SLAMDAM (Baseline)	Project Target	Comments	Flood damage tool applicable	Baseline Metric	Monitoring Metric	(Literature source
BJECTIVE 1:		-4- ! d d & d!	and drawalst at Dubina	Lilla Maranasi ana a 6 Ma		de a company	41			
	nd increase resilience to clim climate change adaptation	rate-induced flooding	and drought at Rubira	Hills, Musenyi area or Mp	anda Commune in Bi	ibanza, Burundi	through innovation	on and		
utcome 1.1:										
	ervice solutions in combination	on with a mobile flood	barrier piloted or dep	loyed to reduce climate-r	elated flood and droug	ht risks and/or	enhance resiliend	e		
utput 1.1.1:	Total area directly benefiting		(Potential) damage							
hysical and natural	from more resilient physical and Agricultural landscape		reduced (dollars) (Potential) damage			KEY Indicator:	ves	Obtain an	During a	Huizinga, J.,
ssets made more	protected from flood damage		reduced (dollars)			Please use the	yee	indication of	floodevent,	De Moel, H.
esilient to climate induced boding						same metric for		the potentially	where the	and
boding						all protected landscape		flooding area,	SLAMDAM	Szewczyk,
						indicators		either through	has been put	W., Global
	Urban landscape protected		(Potential) damage			KEY Indicator:	ves	Obtain an	During a	Huizinga, J.
	from flood damage		reduced (dollars)			Please use the		indication of	floodevent,	De Moel, H.
						same metric for		the potentially	where the	and
						all protected landscape		flooding area,	SLAMDAM has	Szewczyk,
						indicators		either through	been put to action,	W., Global
	Rural landscape protected from		(Potential) damage			KEY Indicator:	yes	Obtain an	During a	flood depth- Huizinga, J.
	flood damage		reduced (dollars)			Please use the		indication of	floodevent,	De Moel, H.
						same metric for all protected		the potentially	where the	and
						landscape		flooding area,	SLAMDAM has	Szewczyk,
						indicators		either through	been put to action,	W., Global
	Residential houses protected		(Potentially) vulnerable				yes	Obtain an	During a	Huizinga, J.
	from flood damage		buildings protected					indication of	floodevent,	De Moel, H.
								the potentially	where the	and
								flooding area, either through	SLAMDAM has been put to	Szewczyk,
								hydraulic	action	W., Global
	Public buildings protected from		(Potential) damage				yes	Obtain an indication of	During a	Huizinga, J.
	flood damage		avoided (dollars)					the potentially	floodevent, where the	De Moel, H.
								flooding area,	SLAMDAM has	and Szewczyk,
								either through	been put to	W., Global
	Industrial or commercial units		(Potential) damage				no	Obtain an	During a	Huizinga, J.
	protected from flood damage		avoided (dollars)					indication of	floodevent,	De Moel, H.
								the potentially	where the	and
								flooding area, either through	SLAMDAM has been put to	Szewczyk,
								hydraulic	action,	W., Global
	Small businesses / shops		(Potential) damage				no	Obtain an	During a	Huizinga, J.
	protected from flood damage		avoided (dollars)					indication of	floodevent,	De Moel, H.
								the potentially flooding area,	where the SLAMDAM has	and
									been put to	Szewczyk,
								hydraulic	action,	W., Global
	Irrigation or water structures		Number of irrigation				no		During a	
	protected from flood damage		structures protected					visit and	floodevent,	
								interview the local leader to	where the	
	i		1	i l		•		nocar leader to	SLAMDAM has	i

		I=	I= (1 ii)		P. C. C. C. C. Land	T	T
		Repair costs of the facilities			yes Obtain an		Habermann,
			prevented		indication of		N., & Hedel, R.
	Desta de la disconita a contrata d				the potentially	where the	(2018).
	Ports or landing sites protected				flooding area.	SLAMDAM has	(2010). Damasas
	from flood damage	Number of people who	Indirect financial damage		no Conduct	During a	1100000
		cannot fulfill their travel,	(dollars) avoided		interviews with	floodevent,	
			(dollars) avoided		L		
		transport hampered			the port	where the	
		Direct damage to airports	Damage (dollars)		yes Obtain an	During a	Habermann,
		-	prevented		indication of	floodevent,	N., & Hedel, R.
			p		the potentially	where the	
	Airports protected from flood				the potentially	OLAMBAM I	(2018).
	damage	Number of people who	Indirect financial damage		no Conduct	During a	
	1						
		cannot fulfill their travel,	(dollars) avoided		interviews with	floodevent,	
		transport hampered			the airport	where the	
		Direct damage to the roads	Repair costs (dollar)		yes Obtain an	During a	Habermann,
			avoided		indication of		N., & Hedel, R.
	Decide waste start forms floor		avoided				
	Roads protected from flood				the potentially	where the	(2018).
	damage	Number of people who	Affected individuals		no Conduct	During a	
		cannot access work and	prevented		interviews with	floodevent,	
		corresponding financial			government	where the	
		Direct damage to the	Repair costs (dollar)		yes Obtain an	During a	Habermann,
		•					
		railroad	avoided		indication of		N., & Hedel, R.
					the notentially	where the	(2018)
	km rail networks protected from	Number of people who	Affected individuals		no Conduct	During a	
	flood damage	cannot access work and	prevented		interviews with	floodevent,	
		corresponding financial			government	where the	
		losses			officials aware	SLAMDAM has	
		losses			L		
					of daily	been put to	
	Other				F : 4 : 4 : 4 : 4 : 4 : 4 : 1		
					[• : • : • : • : • : •]		
0 1 1110	Takalara of discort base ficinism	Total nr. Of people which	and the same			+	_
Output 1.1.2:			number		£939393939391		
Livelihoods and sources	with diversified and	are no longer prone to			<u> </u>	4	
of income of vulnerable	strengthened livelihoods and	Males which are no longer	number		yes, but only as a Determine the	During a	
populations diversified and	sources of income	prone to flooding			quickscan potentially	floodevent,	
	1			KEVI	Indicator flooding area	where the	
strengthened				IXE11	thth		
		Females which are no	number		yes, but only as a Determine the	During a	
		longer prone to flooding			quickscan potentially	floodevent,	
					flooding area	where the	
					through		
				KEY I	Indicator hydraulic	SLAMDAM	
		Elded bish				B .	
		Elderly which are no longer	number		yes, but only as a Determine the	During a	
		prone to flooding	1		quickscan potentially	floodevent,	
			1		flooding area	where the	
			1		through	SLAMDAM	
			1		hvdraulic	OFWIND WIN	
		Children which are no	number		yes, but only as a Determine the	During a	
		longer prone to flooding			quickscan potentially	-	
		louger profile to flooding	1			floodevent,	
			1		flooding area	where the	
			1		through	SLAMDAM	
					hvdraulic	baa baaa au	
	Reduction in No. people		number		yes, but only as a Determine the	During a	Kam, P. M.,
	displaced / migrated		1		quickscan potentially	floodevent.	Aznar-Siguan,
	1		1		flooding area	,	G., Schewe, J.,
			1		through	where the	Milano, L.,
					lunougn	SLAMDAM	Cinnotti I
						_	
	Reduction in No. injuries and		number		yes, but only as a The number of	_	Boyd, E.,
			number			During a	Boyd, E., Levitan, M., &
	Reduction in No. injuries and deaths		number		quiokscan injured people	During a floodevent,	
			number		qulokscan injured people and potential	During a floodevent, where the	Levitan, M., & van Heerden, I.
			number		quiokscan injured people	During a floodevent,	Levitan, M., &

	Reduction in No. jobs lost		number			yes, but only as a quickscan	The number of jobs lost is a function of the	During a floodevent, where the	Sarmiento, C. (2007). The impact of flood
	Other							Whole the	h
Output 1.1.3: The number of people who are warned in advance of climatic induced floods and drought grows and the warning consistency and reliability is increased	Total no. of direct beneficiaries from the new/improved climate information systems	Total	number						
		Male	number		KEY Indicator	nto.			
		Female	number		KEY Indicator	no			
	No. of Climate hazards addressed compared to before		number			no.	Determine which climate (meteo)	This should not be monitored on event base	
	No. of people who are warned for climate risks in advance		number			no	Determine the expected	After each flood event, do	
	Increase in percentage of uptime of weather information		percentage uptime			no	Make an estimate of the	Install an	
	No. of correct warnings issued		percentage			no	Commute or the	After each	
	No. of people who have become more aware of their		number			nto.	Assume an area where	During the first 5 years after	
	Hours between warning issue and climate disaster (leadtime)		hours			no:	Depending on the setup, weather		
	No. of platforms to disseminate climate warnings has increased		number	53500		no.	Determine through which platforms climate	During the first couple of years carefully monitor the	
Output 1.1.4: Vulnerable natural ecosystems strengthened in response to climate change impacts	Vulnerable ecosystem protected		Protected area (ha)		KEY Indicator: Please take into account that ecosystems might benefit from flooding	irro.	Obtain an indication of the potentially flooding area, either through hydraulic		
Outcome 2.1:	resilience and local capac			Hills, Musenyi area of Mpanda Commune i	in Bubanza, Burundi				
Output 2.1.1:	Total no. of direct beneficiaries		number of people	;s		no		I	
Active , skilled and materialised local flood	from more resilient physical and natural assets		number of people			nio	Estimate the		
and drought response team		Females with new job	number of people			no	number of Estimate the		
	Km moble flood barrier				TET IIIdioator	no	number of Based on		
						ma.	Based on		
	Ltr water that can be stored in					no	Dased on		
	Ltr water that can be stored in the mobile harrier. People trained on how to operate and maintan the flood		number of people			no	To operate the barrier multiple		
	People trained on how to		number of people				To operate the barrier multiple To use the SLAMDAM it should be		
Output 2.1.2: Number of people trained	People trained on how to operate and maintan the flood Strategically located storage	Total nr. Of people trained				no	To operate the barrier multiple To use the SLAMDAM it		

climate change impacts		Females trained	number of people	KEY Indicator no.
and appropriate adaptation responses	People at line ministries are trained and informed regarding climate change impacts	Total nr. Of people trained	number of people	[no : : : : : : : : : : : : : : : : : : :
		Male	number of people	(no. · · · · · · · ·
		Female	number of people	no.
	Community / association members trained and informed regarding climate change	Total nr. Of people trained	number of people	no· · · · · · · · ·
		Male	number of people	no : · : · : · : · :
		Female	number of people	no
	Extension service officers trained and informed regarding climate change impacts	Total nr. Of people trained	number of people	no contraction of the contractio
		Male	number of people	mo : : : : :
		Female	number of people	no
	Hydromet and disaster risk management agency staff trained and informed regarding climate change impacts	Total nr. Of people trained	number of people	r(o : : : : : : : : : : : : : : : : : : :
		Male	number of people	[mol : 1 : 1 : 1 : 1 : 1 : 1
		Female	number of people	rio
	Small private business owners trained and informed regarding climate change impacts	Total nr. Of people trained	number of people	no.
		Male	number of people	no : : : : : :
		Female	number of people	no- : : : : : : : :
	Schoolchildren, university students or teachers trained and informed regarding climate	Total nr. Of people trained	number of people	no l
		Male	number of people	lmo.
		Female	number of people	Irro
	Other (specify)		number of people	ino: