Title of the project: Scaling up effective community resilience and flood risks management in Almaty Regions

Requesting Office(s)	UNDP Kazakhstan		
UNDP Strategic Plan Area of Work (Outcome/Outputs):	Outcome 1.3: Ecosystems and natural resources protected and sustainably used, and human settlements resilient to natural and manmade disasters and climate change/ Selected settlements have adopted integrated models for sustainable growth.		
Thematic windows A proposal can select more than one sub-area from more than one thematic window	 Sustainable Development Sustainable Economies including Employment Inclusive and sustainable social protection Sustainable Natural Resource Management Climate Change Mitigation and Adaptation across sectors Increased energy efficiency and universal modern energy access. Governance and Peacebuilding Public administration, local governance, effective delivery of public services, and anti-corruption reforms Human rights, rule of law and access to justice and security Health and HIV related issues Women's participation at all levels of decision-making Building Resilience and Managing Risks Natural and human-induced disaster risk reduction and management Strengthen national capacities in collecting, analyzing and using sex and age-disaggregated data and in analyzing disaster risk from a gender perspective Peacebuilding and mediation Disaster preparedness and recovery Cross-cutting area Sustainable Development Goals Income inequalities Innovations Partnerships/South-south cooperation 		
Focal person	Name: Rassul Rakhimov Title: Head of Sustainable Development & Urbanization Unit		
	Email: <u>rassul.rakhimov@undp.org</u>		
Main location(s) of the initiative	Almaty Regions of Kazakhstan		
Start date / End date	November 2016/November 2017		
Duration	12 Months		
Total funding requested to the Facility (in USD)	US\$ 85,000		

Kind)Other Contributions: Akimat of Almaty region – \$ 14100 (In-Kind) Committee of Emergency situation – \$ 54 800 (In-Kind)Problem statement Please provide a short and concise context analysis and problem statement, accompanied by supporting evidence for a good understanding of the background, what the initiative aims to change and why. What is the issue that the proposal is lanked to national and regional priorities. (Max 200 words)Kazakhstan experiences significant and damaging flooding. The major the flood prone region of Kazakhstan is Almaty region where due to mountainous environment, most of the Almaty region is under a risk for climate induced flooding and water stress. The Almaty region is also one of the most industrialized of Kazakhsta contributing 20% of the national GDP. The majority of these, floods ar flood damages occur frequently in the city of Almaty, with more that 150 damaging floods in the region in last 30 years. The floods of 201 were the largest and most damaging of the last 50 years and resulting large scale devastation. The floods caused over \$US 200 million in lossed and damaged over 12,390 private and public buildings. The costs of inaction are estimated only in Almaty region to amount the \$US 18-25 million for infrastructure alone. Reducing the vulnerability of these districts requires to implement effective flood management options. Institutional capacity of the Almaty emergency departments also insufficient to tackle the problems of increased flood frequency damages and hazards, and decreasing availability of and access to wate	 Committee on Emergency Situation and its territorial agencies Regional and local governments in Almaty Regions International Center for Disaster Risk Reduction in Almaty Water Resources Committee in Ministry for Agriculture National Water Dam Operator – RSE Kazvodkhoz Subsidiary of the Committee on Emergency Situations - SE "Kazselezazchita" Sanitary and Epidemiological Center in the Ministry of Health and Social Protection
requested funds and other contributions to this project.UNDP Kazakhstan - US\$ 30 000International Center for Disaster Risk Reduction in Almaty - \$19 000 (I Kind)Other Contributions: Akimat of Almaty region - \$ 14100 (In-Kind)Problem statement Please provide a short and concise context analysis and problem statement, 	Main contributors:
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resources. Moreover, residents of affected area have not been involve in water and flood management decision making. This proposal complements the Kazakhstan's efforts to implement th principles of the <u>Sendai Framework for DRR</u> and contributes to the UND CO current portfolio on climate change and water management.	The Almaty region is also one of the most industrialized of Kazakhstan contributing 20% of the national GDP. The majority of these, floods and flood damages occur frequently in the city of Almaty, with more than 150 damaging floods in the region in last 30 years. The floods of 2014 were the largest and most damaging of the last 50 years and resulting in large scale devastation. The floods caused over \$US 200 million in losses and damaged over 12,390 private and public buildings. The costs of inaction are estimated only in Almaty region to amount to \$US 18-25 million for infrastructure alone. Reducing the vulnerability of these districts requires to implement effective flood management options. Institutional capacity of the Almaty emergency departments is also insufficient to tackle the problems of increased flood frequency, damages and hazards, and decreasing availability of and access to water resources. Moreover, residents of affected area have not been involved

	This project aims to scale up effective water and flood management practices to reduce vulnerability to climate induced water stress and flood hazards in Almaty region.
	The catalytic effect will be twofold: (a) at the national level the practices adopted in the largest city will serve to advocate for changes in national legislation, and thus have a much deeper impact and (b) at the regional level these practices will be shared with the neighboring countries through exchange at local level water management extension institutions dealing with risk planning and management. The project will make a catalytic effect first active involvement of relevant institutions in Kyrgyzstan and Tajikistan, as the countries with most relevant background in flood management.
	 The project aim will be accomplished through the following approaches: Catalyzing best international practices in flood management in Kazakhstan, strengthen in-country and Central Asian regional institutional capacity in flood risk prevention and ensure catalytic measures in Central Asia through the Almaty based International DRR center. Scaling up the proposed approach to flood risk management by generating recommendation to comprehension of the National Disaster Preparedness Action Plan for enhancing its catalytic effect.
	 Mainstreaming the generated project experience through regular training and equipping local urban communities with skills and knowledge. enhancing the capacity of the international DRR center for
	provision of the community based risk-mitigation planning The efficient and effective use of climate-related information to helping institutions build capacity to service needs across various sectors, including small and medium dam's management, land-use planning, fisheries and power generation.
	 Increasing the ability of the local community on early warning network to forewarn of extreme climate events, strengthening both local, national and wider regional capacities to complement other disaster preparedness systems that will ultimately help the most vulnerable populations.
	 Demonstrating a simple and easily scalable flood protective belts along the two major flood prone pilot territories.
	The baseline project is fully comprised with the National Disaster Preparedness Action Plan (NDPP) (2015-2020). As stated in Section (ii)
	strategic direction including Disaster Risk Reduction (DRR) there are
	following tasks: measure performance for population and territory protection against natural disasters, providing of monitoring,
	broadcasting and prevention of emergency situations.
Proposed approach	This proposal is the scale up of the previously successful experience in
	flood management implemented in Kyzylorda province. In line of Sendai
	Framework Programme UNDP CO under Central Asian Climate Risk

Please provide rationale on why this proposal is catalytic and/or scalable¹. Please elaborate if the proposal is issue-based and multidisciplinary. How does the proposal address the above-stated problem, including the use of innovation, Southsouth/triangular cooperation, among others? Please elaborate on how the proposal will ensure that gender related issues are addressed. (Max 300 words)

Management project's tested the use of flood reflective belts on the Syrdarya river in 2015, when this equipment helped save the lives of 77 rural households.

The novelty of this proposal lies in adapting previous experience for urban environment and scaling it up to the nationwide context through mobilization of International DRR center in Almaty and ensuring a catalytic partnership effect at the wider Central Asian regions.

The Project proposal addresses three key issues:

(a) <u>catalytic effect at national level</u>: procuring and installing flood reflective belts in 2 urban settlements (city of Talgar and the district in Almaty – to be determined with the Almaty Emergency Department, but most probably Nauryzbay district). This will allow to develop cohesive risk management coordination between the local disaster response teams and communities, and in particular through drills on rapid deployment of flood reflective belts;

(c) catalytic effect at the regional level: the accumulated experience and knowledge will be shared with neighboring regions on the dialogue platform at the International Center for DRR in Almaty.

(d) <u>institutional effect</u>: local and regional communities and policymakers are prepared for and are able to respond to climate induced multi-hazards to reduce potential losses of human lives, national economic infrastructure, livelihood and livelihood assets."

The catalytic and scalable potential of the proposed activity:

- Simple, cheap yet effective technology for rapid deployment both in densely inhabited urban environments and remote rural communities.
- Methodology on the use of equipment and related coordination mechanism of key stakeholders will become normative for use in other parts of the country.
- The "Flood Breach Toolbox", as a flagship product developed by the project, will become the first mobile comprehensive set of key information and reference materials that will be distributed in all 14 provinces and Almaty and Astana. This will <u>provide the</u> <u>necessary outreach</u> to the decision-makers, disaster reaction teams and communities nationwide.
- The experience generated with this project will be integrated into the curriculum of dam safety engineers.

The multidisciplinary effect will result in improving:

- (a) quality of water supply and services (WSS);
- (b) disaster risk prevention and reduction;
- (c) healthcare services and hygiene;
- (d) economic well-being in the urban settlements.

¹ COs may refer to the attached Project Navigation Map (drafted by Johannes Linn) and use the questions as a guide when checking the scalability and catalytic nature of the proposal.

The implementation of the project will contribute to the building of <u>sustainable and resilient urban settlements</u> in the disaster-prone region of Kazakhstan.
 of Kazakhstan. Mainstreaming Gender into Flood Management Since women and men have various needs, the gender sensitive needs assessment will be conducted. Moreover, the project intends to build enabling spaces for women to organize and participate in community water management decision-making, as well as build women's leadership skills. The activities will also deepen understanding of the role of women and men in emergency situations and flood response In particular, this will result in; (a) identifying the various needs of each gender in floods and including a set of need-accustomed measures into the government recovery programmes; (b) enhancement of role of women in the decision-making, especially in prioritizing risk zones and preventive measures; (c) develop innovative, context specific capacity development initiatives to build women's leadership and empowerment and connect flood risk management capacity building to livelihood economic security. (d) women empowerment and building local partnerships through the different forums e.g. Provincial Council meetings, CSO forums and DRR meetings. (e) enhancing the role of women in the transmission of knowledge, expertise and skills to certain vulnerable to DRR threats groups of society, i.e. small children, elderly and disabled.
 (f) coordinate the delivery of the Women's Transformative Leadership training, ensuring that the training is in line with a women's leadership transformative agenda. (g) develop the first national case of gender oriented DRR management "success story" – a case study which shows gender sensitive approach.
Enhancing South-South & Triangular Cooperation The project provides catalytic facilities to the South–South Cooperation in disaster risk reduction by matching "well-informed demand" with "responsive supply" and supporting public, private, and civil society partnerships between institutions and organizations in Kazakhstan and Central Asian countries.
The project will exchange flood risk management solutions, and provide practical guidance and support to other countries in Central Asia (through already existing International Center for DRR in Almaty). The primary aim is to foster existing partnerships with DRR authorities in neighboring countries that can be sustainable beyond the life cycle of the project.
The project activities through a South-South Cooperation will involve developing and sharing knowledge and experiences about evidence- based public policies and action plans on flood risk management,

	 including hydrological monitoring and evaluation; piloting specific risk reduction technologies or interventions; strengthening organizational and institutional capacities, including training and mobilization of "International DRR Center of Almaty; and designing innovative financing approaches, such as risk transfer at the Central Asian countries level. The key performance criteria for South-South Cooperation are the following: Catalyze or leverage additional technical and financial resources for country-level actions in disaster risk reduction and recovery, including climate change adaptation; Ensure the sustainable development or expansion of country-level and regional capacities for disaster risk reduction; Impact the magnitude and quality of national disaster risk reduction planning and programming.
	Thus, South - South Cooperation concept within the particular project will foster the Kazakhstan to play a regional leadership and ownership of the disaster risk reduction agenda at Central Asian countries level. To capitalize on existing flood management innovations and initiatives of the South it will facilitate networking and knowledge sharing programmes.
Expected outputs	The objective of the project is to scale up interventions on enhancement of flood risk management effectiveness within major flood prone river basins of Almaty regions, building upon initiatives demonstrated within UNDP Project "Central Asian Climate Risk Management project". Therefore, scaling up outputs proposed by the Sustainable Urbanization, Energy and Environment Unit is two-fold:
	 Output 1 - Key institutions have capacities, technical skills, tools and methods to promote catalytic and scaling up flood risk management practices for water stress and flood mitigation. (updated national preparedness framework, flood risk guidance, flood risk hazard maps, small and medium dam management guidelines, etc.); 1.1. Activity result 1: Recommendations to National Disaster Preparedness Action Plan (NDPP) (2015-2020) are submitted to the Committee on Emergency Situations to respond to adaptation needs and scale out best flood risk management practices 1.2. Activity result 2: Catalyzing regional knowledge sharing and developing institutional knowledge and technical capacity on gender-sensitive flood risk management practices for water stress and flood mitigation 1.3. Activity result 3: Developed "Flood Breach Toolbox", including flood risk hazard maps and participatory mapping at the targeted community level Output 2 - Pilot flood risk protection belts demonstrated in each pilot catchment to implement water and flood risk management measures.

Risk Management Please provide brief details of any serious risks to the success	 2.1. Activity result 1: Gender sensitive approach to flood risk management and recovery, including awareness rising and capacity buildings 2.2. Activity result 2: Community resilience to floods risks improved by introducing locally tailored flood risk management information 2.3. Activity result 3: Piloted flood risk management measures is demonstrated to protect floods and associated mudflows. Risk 1: Entrenched sectoral barriers among environment, water and lar management, and emergency situations may hamper improved flood risk management measures. 			
of the project and how these will be mitigated; consider at	Impact	High / Medium / <u>Low</u>		
will be mitigated; consider at which stage the risk should be	Probability	High / Medium / Low		
flagged up to IRH.	Countermeasur es	Under the output1 the project will address the importance of cross-sectoral approaches to effective flood risk management and under the second output the project's capacity building work will be cross-sectoral in its design and execution.		
	Risk 2: Local state municipalities may incorrectly perceive that there will be additional financial costs in scaling up new approaches to flood risk management or damage, which may hamper the project's efforts to reduce vulnerability.			
	Impact	High / Medium / <u>Low</u>		
	Probability	High / <u>Medium</u> / Low		
	Countermeasur es	The project will highlight the costs that local municipalities, rayon and national government agencies already incur due to flood damage. Plus, already introduced minimum cost mechanisms in Kyzylorda to provide incentives for scaling up new flood risk protective belts.		
Budget	Budget is indicat (please see below	ed in the separate Results and Resources Framework		
Please provide below the estimated budget (in USD) with itemized breakdown including the 30% of CO cost- sharing. Please note that the standard UNDP cost-recovery arrangements regarding ISS and DPC apply.	piease see belo	w j.		

Results and Resources Framework

INTENDED OUTPUTS	INDICATIVE ACTIVITIES	PARTNERS	INPUTS		
Output 1 - Key institutions have capacities, technical skills, tools and methods to apply advanced flood risk management practices for	Activity result 1: Recommendations to National Disaster Preparedness Action Plan (NDPP) (2015-2020) are submitted to the Committee on Emergency Situations to respond to adaptation needs and scale out	UNDP sustainable urbanization, SDU unit, CoES, local akimats, CSO, NGOs and community	Atlas Budgetary Account Code and description	Donor name	Amount (USD)
water stress and flood mitigation. (updated national preparedness framework, flood risk guidance,	 best flood risk management practices The national preparedness plan and other related legislation revised to 			Catalytic and scale up fund	17 500
flood risk hazard maps, small and	account for flood risk management.Conjunctive flood risk management		71300 Local	UNDP	6 600
medium dam management guidelines, etc.);	model and guidelines are developed.Online knowledge management		consultants	International DRR Center	4 900
Baseline: 1. No flood risk management	platform at the basis of the Almaty International DRR center (with forums and tools that present gender			Other contributors	9 900
concept is on national preparedness plan.	analysis based on sex- and age- disaggregated data). •			Catalytic and scale up fund	6 500
2. No capacity build on	Activity result 2: Catalysing regional knowledge sharing and developing			UNDP	4 300
comprehensive flood risk management.3. There is no updated risk and	institutional knowledge and technical capacity on flood risk management practices for water stress and flood mitigation		71600 Travel	International DRR Center	0
 vulnerability assessment 4. No gender sensitive vulnerabilities and risks 	 Knowledge sharing workshops and trainings at the International DRR Centre in Almaty 			Other contributors	0
documented/prioritized/mainst reamed.	 Targeted training program in adaptive water and flood management, involving the equal participation of men and women with 		72100 - Contractual Services (Workshops,	Catalytic and scale up fund	10 000
matators.	gender-based analysis of risks and solutions.		Trainings,	UNDP	7 900

- # of recommendations accepted in the new edition of national preparedness plan.
- # of targeted individuals

 e.g. women, men and
 children with improved
 capacities and knowledge
 on flood risk management
 and early recovery.
- # of additional gender specific risks and vulnerabilities identified (wellbeing indicators versus vulnerability factors).
- # of gender sensitive priorities/actions identified upon gender segregated and children centered needs assessment.

Targets:

- 1. Updated National preparedness plan.
- 2. At least 120 state responsible representations are enhanced their knowledge on flood risk management.
- Updated risk and vulnerability assessment with gender analysis and sex- and agedisaggregated data by the end of project.

 Community-based (gender disaggregated and children centred) early warning systems to disseminate flood risk information to the local communities

Activity result 3: Developed "Flood Breach Toolbox", including flood risk hazard maps and participatory mapping at the targeted community level

- Flood risk assessments involving equal participation of men and women in affected communities and reflecting priorities differentiated by sex and age.
- Community based and gender segregated and children centred trainings, simulation practices, development of flood management guidebooks and instructions.
- Women and children-led events, lectures, presentations and movements/campaigns.

gender mainstreaming	International DRR Center	6 140
survey and professional development activity, support female headed households, forums.	Other contributors	13 900
74500 Misc. Sub-total for activity 1:	Catalytic and scale up fund	1 000
		0
	International DRR Center	0
	Other contributors	0
	Catalytic and scale up fund	35 000
	UNDP	18 800
	International DRR Center	11 040
	Other contributors	23 800

 Increased women's and children's participation in community water management decision making 					
Output 2 - Pilot flood risk protection belts initiated in each pilot catchment to implement water and flood risk management	Activity result 1: Gender sensitive approach to flood risk management and recovery, including awareness raising and capacity building	UNDP sustainable urbanization, SDU unit, CoES, local akimats, CSO, NGOs and community	Atlas Budgetary	Donor name	Amount (USD)
measures.	Activity result 2: Community resilience to floods risks improved by introducing locally	,	Account Code and description		
Baseline: 1. No relevant flood risk	 tailored flood risk management information Development of flood risk management toolkits and box. 			Catalytic and scale up fund	8 200
information is disseminated to local stakeholders	 Local community forecasting and response planning instructions and 		71300 Local	UNDP	4 900
 No flood risk management protective belts yet piloted, much less replicated. 	guidebooks.		consultants	International DRR Center	3 100
Indicators: 1. Number of relevant and	Activity result 3: Piloted flood risk management measures to protect floods and associated mudflows.			Other contributors	15 900
gender-responsive flood risk information is disseminated to local stakeholders.	 Identification of most flood prone zones for installation of rapid embankment belts. Construction and installation rapid 	-		Catalytic and scale up fund	6 900
 An area of square meter (m2) in targeted river basin is 	embankment belts. Conduct national show off day to 			UNDP	1 700
protected. 3. Number of sub districts are	demonstrate system of rapid embankment gabions.		71600 Travel	International DRR Center	960
protected from flood risk. Targets: 1. At least 12 relevant flood risk				Other contributors	11 100
information is disseminated to local stakeholders2. An area of 836 square meter (m2) in the targeted flood			72100 - Contractual Services	Catalytic and scale up fund	26 100
prone river basin.			(Workshops,		

3. At least 6 sub districts are	Trainings,	UNDP	4 600
protected from the flood risks.	gender mainstreaming survey and	International DRR Center	3 900
	professional development activity, support female headed households, forums and demonstration of protective belts along the flood risk zone	Other contributors	18 100
		Catalytic and scale up fund	1 000
		UNDP	0
	74500 Misc.	International DRR Center	0
		Other contributors	0
		Catalytic and scale up fund	7 800
	72510	UNDP	0
	Publications	International DRR Center	0
		Other contributors	0

	Catalytic and scale up fund	50 000
Sub-total for	UNDP	11 200
activity 2	International DRR Center	7 960
	Other contributors	45 100
	Catalytic and scale up fund	85 000
Grand total:	UNDP	30 000
	International DRR Center	19 000
	Other contributors	68 900