



58-2011-RFP-UNDP-CP-DRMP



***Our Slogan: To Think - Globally and
to Act— Locally!***

**Establishment of Early Warning
System Along the River – Sai
Tebalay of Kulyab Zone, Khatlon
Region**

Dushanbe-2012



Project Purpose Project Partners



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- ***Establishing an effective EWS, understanding the threats and specific sources of flood risk vulnerability of the population living along the river-sai Tebalay aimed at ensuring the best preparedness and the development of operational measures to prevent and reduce disaster risk.***
 - ***The key idea of the project - the population themselves should be the main actors and the main beneficiaries.***
 - ***The project was implemented in close coordination with Khukumat of Kulyab, Regional CoES of Kulyab area, UNDP regional office in Kulyab and REACT partners.***
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Project Objectives

- Identify factors of possible natural disasters in the project area, carrying out social survey, community meetings and public discussions;
 - Create an effective and sustainable EWS on the basis of risk assessment and other experiences and lessons learned from similar contexts of natural disasters;
 - Extend a comprehensive understanding of disaster risk of vulnerable population living along the river Tebalay;
 - Establishment of capacity for involvement and mobilization of the community with the aim on overcoming vulnerability.
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Project implementation phases



Preparatory phase

Step 1: Preliminary discussions with local authorities and Communities;

Step 2: Analysis of existing EWS and evaluation of their work in the region during the floods in May of 2010.

Main Phase

Step 3: Develop the concept of CPO and its presentation for review and approval;

Step 4: Conduct appropriate trainings on establishment of EWS on awareness of the population in flood risk zones (a) (a) local flooding grounds, (b) ways and means of evacuation, (c) response to the warnings issued by the warning centers in Kulyab.

Project implementation phases

Continuation

Main Phase

***Step 5:** Conduct social survey to identify needs of establishment of EWS;*

***Step 6:** Justification on appropriate equipment for EWS and communication system, as well as measurement of floods and information transfer;*

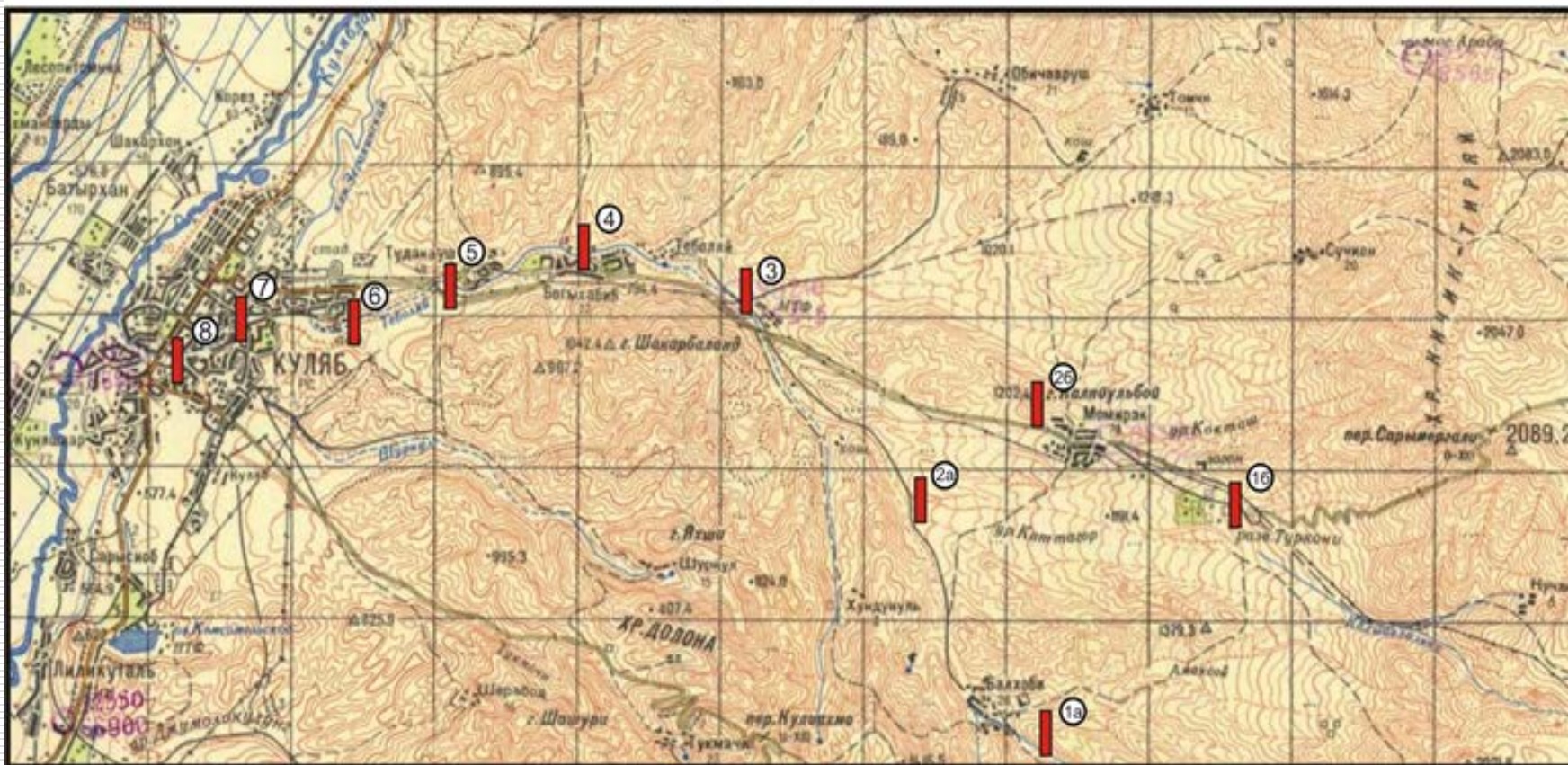
***Step 7:** Usage of flood maps and vulnerable areas along the river Tebalay, identify specific locations or objects at risk of flooding;*

***Step 8:** Establish a monitoring system to determine the conditions of formation and initiation factors of floods;*

***Step 9:** Development and publication of leaflets, instructions to the population on the operation of EWS during natural disasters.*

Project implementation phases

Места установок водомерных реек по саю Теболай



Project implementation phases

Водомерная рейка для водозаборной части сая Теболяй (верховья)

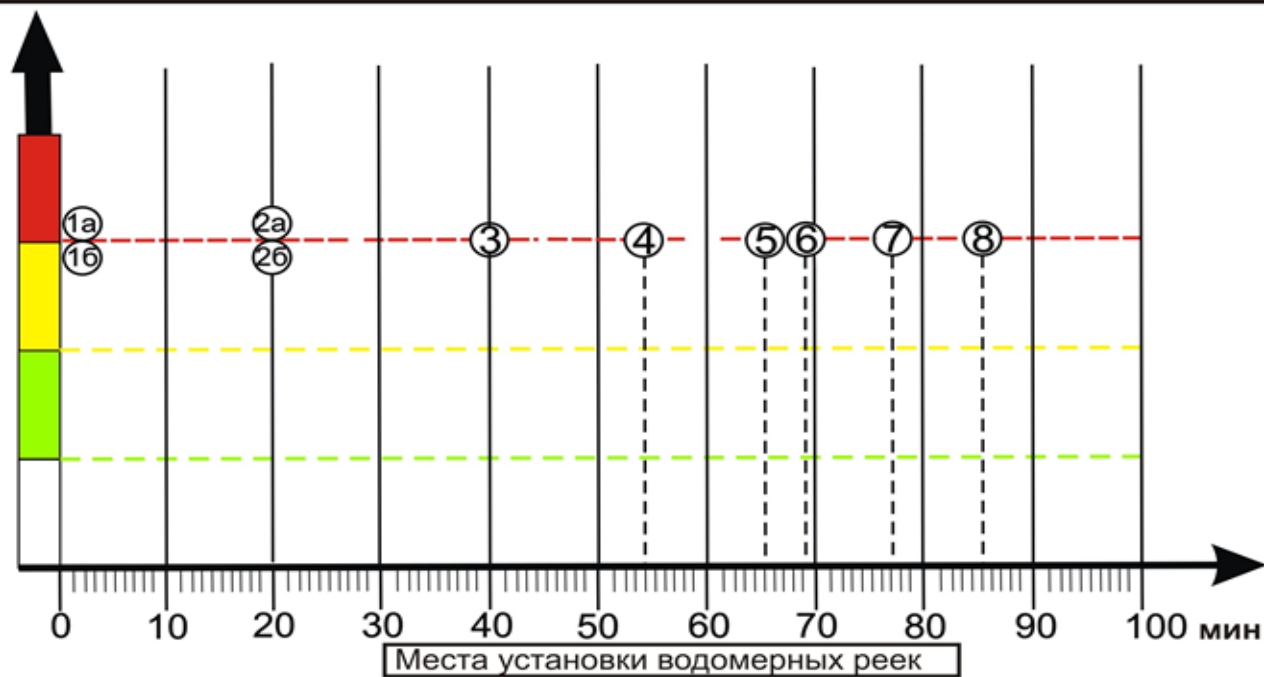


Водомерная рейка для зарегулированной части сая Теболяй (Кулоб)



Project implementation phases

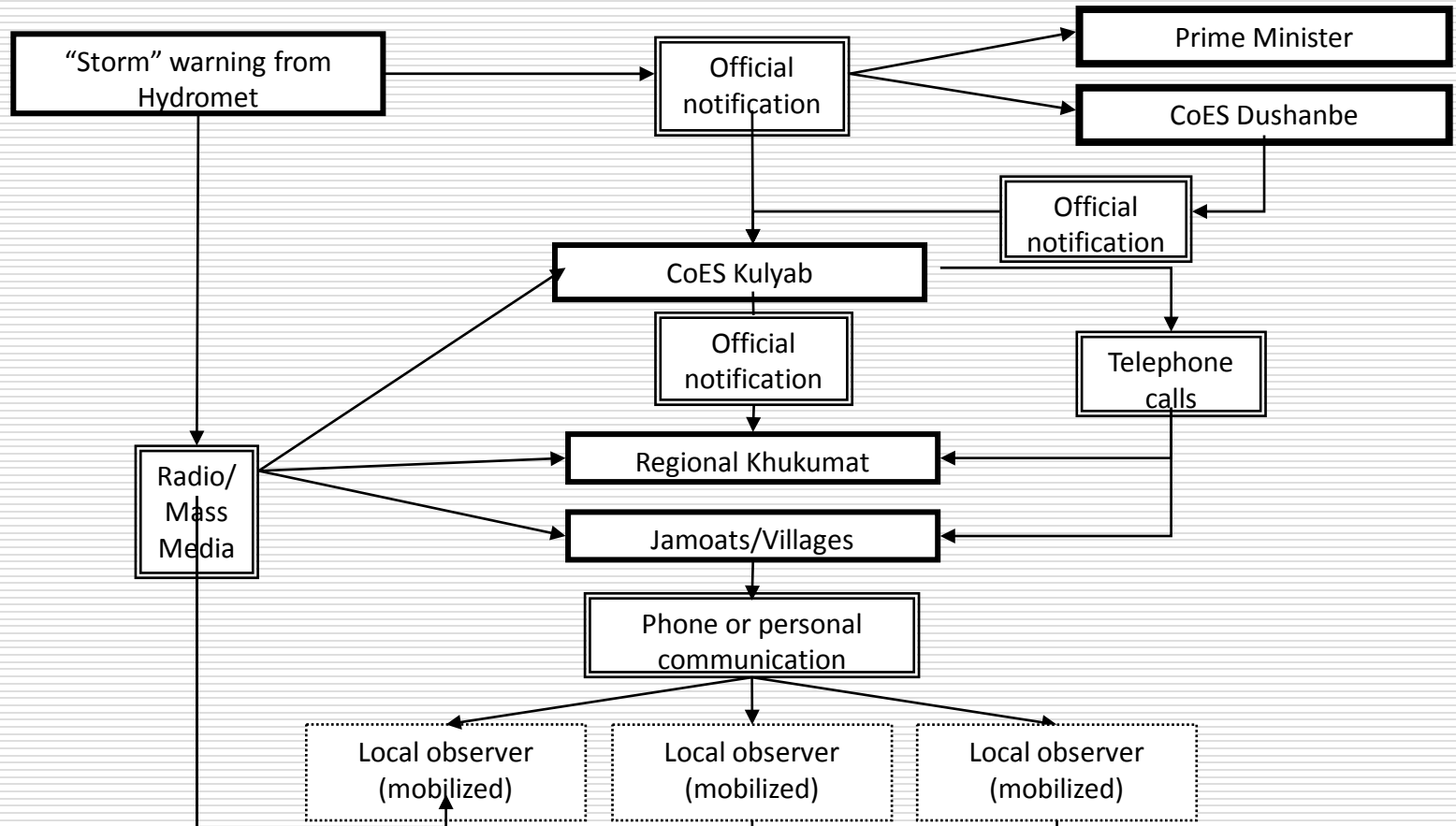
Схема Время прохождения различных стадий наводнений



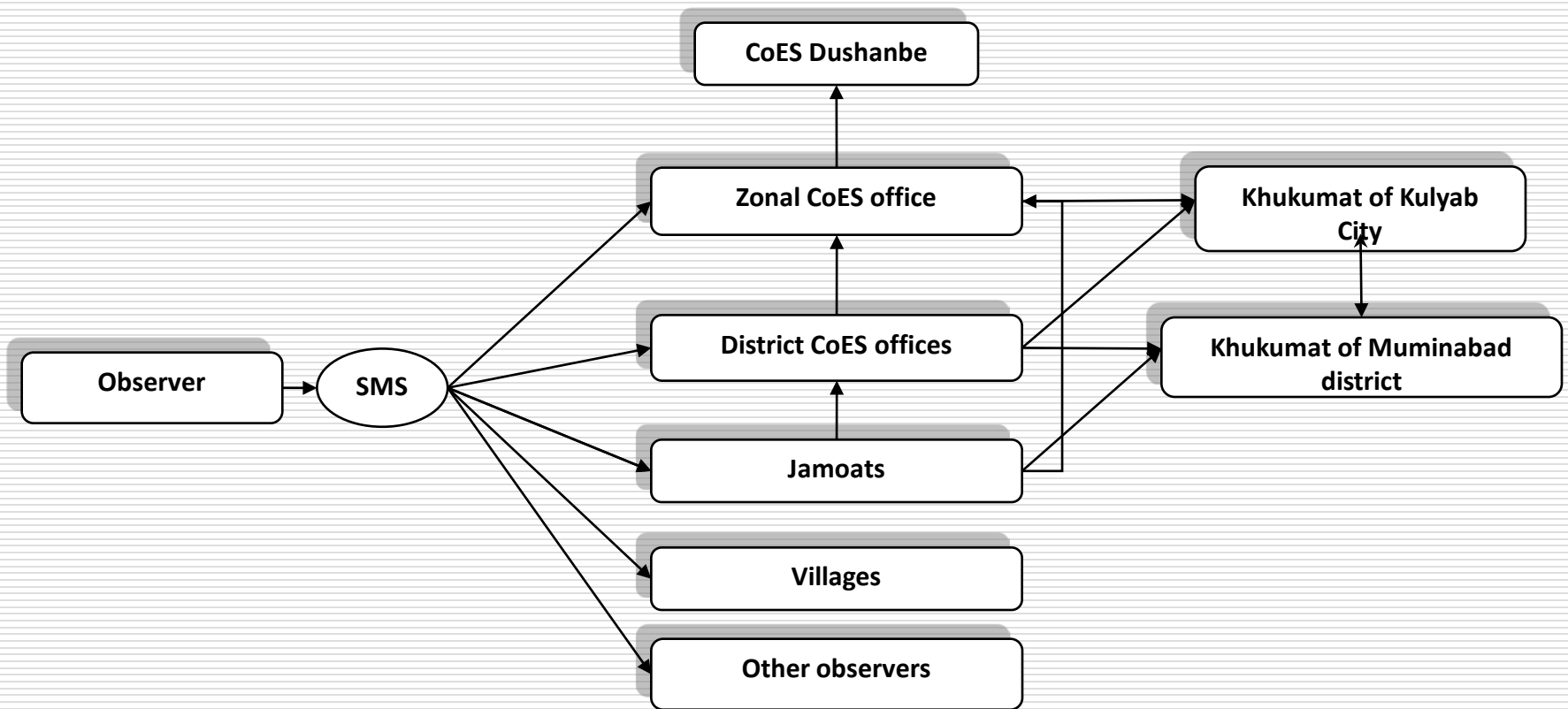
- 1a Балхоби
- 2a Ур. Каттагор
- 16 развал. Туркони
- 26 Мумирак
- 3 Туто

- 4 Богихабиб
- 5 Тудаковш
- 6 Мост
- 7 (улица-)
- 8 Мост Гармгорон

Storm Warning system



Information Transfer System on Potential Mudflow



Activation and Procedure of EWS - Observer

Phase	Action	Communication process	Means	Procedure	Time Limit
I	Notification of the possibility of flooding according to the Hydromet	Hydromet => CoES Dushanbe => CoES Kulyab => Community; local authorities, mobile companies	Kulyab City: official radio notification Community: Mobiles phones.	1. A confirmation message is received: CoES Kulyab 2. Activation of observers in the community. 3. Confirmation that cell phones work.	2 hours
II	Water level raising to GREEN	Observer => 1. Jamoats 2. Other flood observers	SMS Unusual situation	1. Confirmation message with all the participants: 1. Jamoat. 2. Other flood observers.	30 minutes
III	Water level raising to YELLOW	Observer => 1. District CoES office 2. Jamoats 3. Villages 4. Other flood observers	SMS Preparedness	1. Confirmation message with all the parties: - The district CoES - Jamoat - villages - Other flood observers 2. Preparations for the evacuation: local authorities and CoES of Kulyab region 3. Public warning on possible flooding: a) CoES Kulyab, mobile companies via SMS b) Local authorities using megaphones and sirens	20 minutes
IV	Water level raising to RED	Flood observers => 1. Zonal CoES offices 2. District CoES Offices 3. Jamoats 4. Villages 5. Other flood observers	SMS Rescue	1. Confirmation message with all the parties: - Zonal CoES offices - District CoES Offices - Jamoats - Villages - Other flood observers 2. Public alert on evacuation: a) CoES of Kulyab, mobile companies through means of SMS messages 6) Local authorities are using speakers and an alarm signal 3. Execution of the evacuation plan: CoES Kulyab and local authorities	10 minutes

Activation and Procedure of EWS - Regional CoES Office of Kulyab city

Phase	Action	Communication process	Means	Procedure	Time Limit
I	Notification of the possibility of flooding according to the Hydromet	Hydromet=> CoES Dushanbe=> CoES Kulyab=> Community; local authorities, mobile companies	Kulyab City: official radio notification Community: Mobiles phones	1. A confirmation message is received: CoES Kulyab 2. Activation of observers in the community. 3. Confirmation that cell phones work.	2 hours
II	Water level raising to GREEN	Regional CoES Office of Kulyab city=> 1. City Khukumat. 2. CoES Office of Kulyab city	SMS Unusual situation	1. A confirmation message is received: • Khukumat of Kulyab • CoES Office of Kulyab city • Khukumat Kulyab reports on the situation to jamoat Zarbdor • All street advices along the sai Tebalay	30 minutes
III	Water level raising to YELLOW	Regional CoES Office of Kulyab city=> 1. City Khukumat. 2. CoES Office of Kulyab city	SMS Preparedness	1. A confirmation message is received: • Khukumat of Kulyab • CoES Office of Kulyab city 1. Khukumat Kulyab reports on the situation to: jamoat Zarbdor and all street advices along the river Tebalay 3. Public warning on possible flooding, initiation of prevention measures, preparatory works for possible evacuation: • Participants: Local executive authorities and local self-government (Hukumats, jamoats, mahalla councils and street), appropriate services for the rescue, the regional headquarters, the headquarters for Emergency Situations Muminobod area and Kulyab	20 minutes
IV	Water level raising to RED	Regional CoES Office of Kulyab city=> 1. City Khukumat. 2. CoES Office of Kulyab city	SMS Rescue	1. Confirmation message with all the parties: 2. Khukumat of Kulyab • CoES Office of Kulyab city 1. Khukumat Kulyab reports on the situation to: • all street advices along the river Tebalay 1. Signal of general alert using all available means of communication (SMS, mobile communication/sirens and etc.) according to developed evacuation plans Members: MOIV and MS, the corresponding service group to carry out rescue operations, the regional headquarters, the headquarters for Emergency Situations of Muminobod area and Kulyab	10 minutes

АКТИВИЗАЦИЯ И ПОРЯДОК ДЕЙСТВИЙ СРО - РУКОВОДСТВО ДЖАМОАТА

Phase	Action	Communication process	Means	Procedure	Time Limit
I	Notification of the possibility of flooding according to the Hydromet	Hydromet=> CoES Dushanbe=> CoES Kulyab=> Community; local authorities, mobile companies	Kulyab City: official radio notification Community: Mobiles phones	1. A confirmation message is received: CoES Kulyab 2. Activation of observers in the community. 3. Confirmation that cell phones work.	2 hours
II	Water level raising to GREEN	Jamoats => 1. Villages 2. District 3. Muminabad CoES Office 4. Kulyab district CoES Office	SMS Unusual situation	A confirmation message is received: 1. Villages 2. District 3. Muminabad CoES Office 4. Kulyab district CoES Office	30 minutes
III	Water level raising to YELLOW	Jamoats => 1. Villages 2. District 3. Muminabad CoES Office 4. Kulyab district CoES Office	SMS Preparedness	1. Confirmation message with all the parties: • Villages • District • Muminabad CoES Office • Kulyab district CoES Office 2. Public warning on possible flooding, initiation of prevention measures, preparatory works for possible evacuation: Participants: Local executive authorities and local government, the relevant service group for the rescue, the regional headquarters, the headquarters of the district CoES	20 minutes
IV	Water level raising to RED	Jamoats => 1. Villages 2. District 3. Muminabad CoES Office 4. Kulyab district CoES Office	SMS Rescue	1. Confirmation message with all the parties: • Villages • District • Muminabad CoES Office • Kulyab district CoES Office 2. Signal of general alert using all available means of communication (SMS, mobile communication/sirens and etc.) according to developed evacuation plans : 3. Members: MOIV and Local Government Khukumats, jamoats, mahalla councils and street), corresponding to the service group to carry out rescue operations, the regional headquarters, the headquarters of the district CoES	10 minutes

Main Results

- Trainings and round tables covering 80 persons on lessons learned from May flooding, involvement and mobilization of community, as well as preparation of population to work with EWS and enhancement of cooperation with population, authority and relevant CoES structures;
- Social surveys on assessment of parameters and indicators of local vulnerability;
- Establishment of EWS concept and Action plan on its implementation.

Main Results

Continuation



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- **Procurement and installation of EWS equipment;**
 - **Development and publication of leaflets, instructions to the population on the operation of EWS during floods;**
 - **Development of recommendations on enhancing the EWS;**
 - **A presentation on the project for dissemination of project results and further cooperation with interested organizations.**
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Establishment of Early Warning System Along the River – Sai Tebalay



**THANK YOU FOR YOUR
ATTENTION**
