WORKSHOP REPORT

MDRU Training and Field Testing, Nepal, 2018





JULY 1, 2018 EDUCATING NEPAL Kathmandu, Nepal

MDRU Workshop, Nepal

Organized by



In Collaboration with



July, 2018 Kathmandu, Nepal



Executive Summary

MDRU workshop, Nepal was a 3-day event conducted on July 10 to July 12, 2018 on Information and Technology Center, Pulchowk Campus, Tribhuwan University. The workshop was organized by Educating Nepal of Federal Democratic Republic of Nepal in joint collaboration with Nippon Telegraph and Telecommunication of Japan and CVISNet Foundation of the Philippines. MDRU concept was introduced by NTT Japan in collaboration with Ministry of Internal Affair and Communication of Japan and ITU. It is being implemented in San Remiro Muncipality, Cebu City, Philippines during typhoon Haiyan. The system facilitated emergency communication situation during the disaster in Cebu City.

MDRU Workshop, Nepal was conducted through testing, training and real life simulation. The simulation exercise included disaster simulation & education simulation. The workshop had a very good response from participants and dignitaries including but not limited to Representative from Vice Prime Minister's office, Mayor of Budhanilkantha Municipality, representative of Disaster Management Division of Nepal Government and CSOs.

The opening ceremony was chaired by Honorable Mayor of Budhanilkantha Municipality as Rt. Honorable Vice Prime Minister cancelled at the last moment due to flooding in the southern part of Nepal. Dignitaries from Nepal Police, Disaster Management Division, Nepal IT Professional Forum, Nepal Society for Earthquake Technology, Tribhuwan University and other CSOs attended the opening ceremony along with Professors and students of Tohuku University, Japan; Tribhuwan University, Nepal; and community people. 22 local participants got hands on experience of MDRU. Demonstration of MDRU and inspection of wireless connection was done during the training program. At the same time, a team from EN, NTT and CVISNet Foundation tested and MDRU server and wireless connections.

The final day consisted of real life simulation exercise and closing ceremony. Command Center and Evacuation Center was set up and the participants were divided into 4 groups (). Participants played a disaster simulation game and ultimately found a missing person using MDRU as the only mode of communication. Education simulation was also done by the participants. The workshop concluded with feedbacks from participants and evaluation of the whole workshop with very good response from dignitaries and participants. Participants were

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awarded and the organizing team were provided with certificate of recognition by Mayor of Budhanilkantha Municipality in the closing ceremony.

The successful workshop in Nepal on MDRU field testing and training provided new understandings to alternative use of MDRU in Nepal in areas of Education, Health and Tourism. It also gave an insight to product improvisation in the areas of UI, traffic management and localization of product in Nepalese context. In reference to above context, bringing MDRU in daily use with a dedicated and trained team in Nepal can provide a good market space for this product in Nepalese public and private sectors.



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Abbreviations

CSO:	Civil SOcietiey
CVIS Net:	Central Visayas Information Sharing Network
EN:	Educating Nepal
ESCAP:	Economic and Social Commission for Asia Pacific
G2G:	Government to Government
ICT:	Information and Communication Technology
IOS:	Iphone Operating System
ITU:	International Telecommunications Union
MDRU:	Movable and Deployable ICT Resource Unit
NSET:	National Society for Earthquake Technology
NTT:	Nippon Telegraph and Telecommunications
RAID:	Redundant Array of Independent Disks
UI:	User Interface
VoIP:	Voice over Internet Protocol

Background

We live in 21st century now where the of technology is thriving more than ever. There is barely anything or any sector devoid of technology. Similarly, information has been an important aspect of society. Electric modes of information have been quintessential to quench the need of information and communication. Information Communication Technology (ICT) is a wellknown concept in that regards. However, our concern is with benefits of information and communication technologies for disaster risk reduction and management. This because information in the disaster aftermath can be a lifesaving phenomenon. A reckless mode of information communication can spread dysfunctional dynamics with destructive consequences

According to ESCAP the application of ICT in disaster management can be identified in four phases as per

Mitigation

Natural disasters cannot be prevented by human will or strength. However, the amount of loss to be endured can be reduced significantly with the use of proper ICT tools. The zones vulnerable to disaster can be identified and well communicated to the residents of that zone. Education to public about the disaster preparedness, regular drills can be very effective in reducing the impact of natural disaster on human life.

Preparedness

Being prepared is nothing but habituating the response strategy in case of a disaster. Most losses take place because we are unprepared. People tend to panic a lot when unprepared. The margin for error during a disaster is very low. Small errors may lead to lethal consequences. ICT can be used to for preparation plans, emergency exercise, trainings, evacuation drills and warning systems.

➢ Response

ICT sure does have a pivotal role in the aftermath of a disaster. We have witnessed how robots have been deployed in rescue missions by developed nations. Emergency relief can be regulated with a proper ICT coordinated channel. The need assessment and statistical records can be generated effectively with information management and database system.

Recovery

Coming back to normality is essential in a post disaster environment. Moreover, restoration of economic independence is the ultimate goal after a disaster. ICT is definitely

helpful in designing unified community settlements with resilient engineering and architectural designs. The regulation of grants and its effective utilization can also be achieved with information management system. The ICT can facilitate quick processing of grants with e-banking or telephone banking. This can indeed be possible. A quick support may mean saving a life.

Communication is such an important aspect in post disaster environment. It serves as a factor of motivation to prepare victims for actions during the whole recovery process with an integrated feeling of solidarity. The period of disaster is extremely distressing. A proper source and medium of communication can help a lot in the reduction of pain and guide the victims to speedy recovery. We witnessed the strength of social network on the aftermath of April 25 earthquake. We were able to reach out thousands of people for support just through facebook of our organization Educating Nepal. The supporters helped us set up online crowdfunding through which we raised a substantial amount within a week. The next week our team was in the field providing relief to over 30 devastated villages of Sindhuplachowk. ICT may have multiple uses in a pre-or post-disaster environment from forecasting a disaster to effective management on the aftermath. But for a developing nation like Nepal, the use of ICT ought to focus on quick rehabilitation and awareness programs for unforeseeable future calamities of various natures. The lesson from April 25 earthquake must not be limited to preparedness on earthquakes but also for other possible disasters like landslide, floods or even famine or even epidemics. Nepal is vulnerable to all these disasters.

We live in a country with a diverse geography mostly dominated by big hills and mountains. The communication system is not very reliable in remote areas of our country. In the aftermath of disaster the situation of connectivity aggravates intensifying the magnitude of loss. Families and community need proper communication specially after a big disaster like earthquake, landslide or flood. To overcome such problem we need to be prepared with some mobile communication system which can by reliably deployed at the time of dire need. We feel MDRU (Moveable and deployable ICT Resource Unit is the right solution for communication crisis on the aftermath of disaster.

What is MDRU?

The Great East Japan Earthquake of March 2011 disrupted the whole communication system in the most affected regions of Japan for many days. This made many people realize how

important communication is in the after scene of big disasters. NTT Network Innovation Laboratories responded to this crisis by proposing a resilient ICT architecture called Moveable and Deployable ICT Resource Unit (MDRU) to promptly enable the reestablishment of communication system of telephony and information sharing. Since then the concept has been tested and deployed in disaster vulnerable areas of different countries.

There are there major functions of MDRU;

- i. Wi-fi Wireless access networking function
- ii. Local area telephone call function
- iii. Virtual Network (Slice) function

MDRU provides minimum ICT service to meet communication demand in a disaster area soon after a disaster occurs.

- i. Emergency recovery period: Real time communication demand increases explosively because of need to confirm status.
- ii. Tentative recovery period: Data communication demand increases because of information gathering by local governments and enterprises.

When a disaster occurs MDRU is carried to disaster affected area and promptly set up to deliver communication system for the people.

Scope of MDRU in Nepal

On April 25. 2015, central Nepal was completely devastated by 7.8 magnitude earthquake. The crisis was further aggravated by over 1000 powerful aftershocks that followed up until early 2016. Over 8,000 people died and over 8 million were left homeless. This was a first-hand experience of mega disaster for many Nepali people in the most recent times. But that isn't all Located in the center of the Himalaya range, Nepal is one of the most disaster prone countries in the world due to its topographic and climatic condition. Earthquakes, landslides, floods, fire, thunderbolts are the major causes of disaster events that caused major damaged in the past, weakening the fragile ecosystem of the country. According to Nepal Disaster Report 2017 The country is among the 20 most disaster-prone countries in the world. In part, this is because Nepal is in a seismically active zone with a high probability for a massive earthquake. Globally, Nepal ranks 4th and 11th in terms of its relative vulnerability to climate change and earthquakes, respectively. Communication is undoubtedly an integral aspect of a post disaster environment and ICT reasonably seems to be best possible option to overcome most barriers of communication. However it is not a complete solution. Actually the ICT infrastructure in itself isn't a solution anywhere. It depends on how we use the infrastructure. People should have a better understanding of how to make the best use of the devices they have. Therefore empowering people firstly with enhancing their capabilities to make the best use of available ICT resource could be the starting point of disaster preparedness. The MDRU Workshop therefore isn't only about introducing innovation of technology for disaster preparedness but also training different stakeholders to make proper use of such devices. We hope that this workshop will be imperative not just in bringing emergency backup to communication in post disaster environment but also in empowering people to build resilient communities through the proper use of innovations of 21st Century.

Workshop Objectives

- Introduction of MDRU in Nepal
- > Training of participants to effectively use the MDRU System
- > Implementation of MDRU system by participants through real life disaster simulation
- > Field testing of MDRU by creating command center and evacuation center
- > Participant's feedback on MDRU experience
- > Identifying the alternative scope of MDRU in building resilient communities in Nepal

Expected Results of the Workshop

The Workshop expectation has been divided into overall workshop expectations, Nepal expectations and participant expectations which are as follows.

Overall Project Expectations

- MDRU (Movable and Deployable ICT Resource Unit)
 - ➢ Fast recovery of local communication
 - > Flexible system in order to minimize physical resources
- Logical/Software redundancy
 - A new look of the redundancy of the infrastructure
 - > Preparing design and scenario as Network and Network Virtualization
- Global collaboration for disaster recovery actions
 - Flexible for Regional specific conditions

- Easy to collaborate for fast recovery
- Chain of Control and Responsibility
 - Immediate response scenario
 - ➢ Control structure
- Shared Learning
 - Community preparedness
 - Available documentation
- Collaboration and Standardization
- MDRU can be utilized in any regions
 - If MDRUs are available in any regions, MDRU could get together to help the disaster recovery when the disaster situation has occurred
 - Standard procedure and the standard interface for these units in order to work together smoothly.
- > Project contributes to defining the interface of movable ICT modules.
 - The managing and operating guidelines for the disaster recovery will be summarized
 - > The results of our activities are brought to the discussion of the standardization.

Nepal Expectations

- Relevance of the project to Nepal
- > Suited for both disaster and non-disaster scenario's
 - National level
 - Municipal Level
 - Community Level
- How this feasibility study will assist with the final development of the MDRU for the Nepal
- > Proposed solution will be part of Nepal ICT initiative.

Participant Expectations

- Actual project implementation
 - ➢ Hands-On
 - ➤ Training
- Initial Target



- One Command Center to One Evacuation Area
- One Command Center to entire municipality

Methodology

The workshop consisted of combination of both theoretical and practical approaches of training of participants. The theoretical aspect was delivered through comprehensive training modules while practical aspect was delivered through a role play in disaster situation. The whole workshop was designed for a multi-stakeholder platform and hence the 22 participants in the workshop represented Nepal government, armed forces, civil societies, academia and local community.

Training Modules

Training approach was used to train the participants to learn the functionality of MDRU system. All attributes of MDRU was introduced and allowed the participants to individually perform the tasks of establishing and using the MDRU system.

Disaster Simulation Sessions

The participants were divided into four core groups. Security, Relief and Operation, Health and Community. All group selected their leaders and representative for command center. Spaces for Command Center and Evacuation Center was allocated at a distance of about 700m. An imaginary situation of disaster was provided. Different tasks were given to different groups where the end combined effort was to find the missing person in disaster. The participants were asked to take out the sim cards and use the MDRU Network between command center and evacuation center to complete all the tasks.

Education Simulation Session

5 participants were made teachers in command center and rest of the participants were made students in evacuation center. The teachers uploaded learning materials in MDRU servers and gave assignment to students The students from remote location accessed the server and completed the assignment given by the teachers. The e-learning platform gave students to also upload assignments to MDRU system.

Participants

The participants of the workshop comprised of 22 members representing different stakeholder groups. There were participants from Government Disaster Management Division, Nepal Army, Nepal Armed forces, Nepal Police, Civil societies, students of Electronic Engineering and representatives from community who proactively participated in the 3 day workshop of MDRU.

Workshop Content

The workshop was conducted with opening ceremony, training, field testing, role play simulations and closing ceremony.

Opening Ceremony

The first day of workshop began with opening ceremony in front of many distinguished guest and participants chaired by the Mayor of Budhanilkantha Municipality Mr. Uddab Kharel. The program was scheduled to be chaired by Honorable vice Prime Minister of Nepal which got cancelled at the very last moment due to emergency floods in Southern parts of Nepal. The opening ceremony began with felicitation of guests and welcome speech by President of Educating Nepal, Mr. Binod Basnet. The prospectus and outline of the whole three day event was shared by Mr. Ashirwad Tripathy, the executive director of EN. After the orientation, Mr. Sanjiv Baidhya from National Society for Earhquake Technology, Nepal (NSET) shared the Nepal experience of ICT during major disasters of Nepal. The next presentation was from Mr. Jeffery Llanto, executive Director of CVIS NET. The purpose of the presentation was followed by introductory note by Mr. Shimizu from NTT and Associate Professor of Tohoku University Mr. Nishiyama.

Mr. Llanto then shared the initial idea of how MDRU came into existence. A video presentation facilitated the main idea behind utility of MDRU technology and how it was used in Japan after the Great East Japan Earthquake. Mr. Llanto shared further insights about MDRU experience and field testing on the aftermath of Typhoon Hayan 2013. A quick Q&A session was conducted to let the participants and guest dispel any doubts they had with MDRU system and its technical specifications. Finally the opening ceremony was closed with closing remarks from the chief guest who shared a view of Nepal being in need of ICT in building e-resilient communities. **Training Sessions**

The training session began after the lunch of Day 1. Training on the first day was much about MDRU orientation. The participants were introduced to different models of MDRU system. The participants observed a demonstration of setting up of MDRU system On the second day of workshop, the participants observed the demonstration of connection in command center and evacuation area. The participants accessed into the Wi-Fi of MDRU system. A brief demonstration and specification of Atache case MDRU was provided to participants. The participants had an hands on activity to connect the MDRU device individually. The participants learned how to download apps for their smartphones. Abraham from CVIS NET moderated an important practical session on making call, message sharing and file sharing using MDRU system. The participants conducted a practical communication session between the evacuation center and command center.

Disaster and Education Simulation

After the participants were well accustomed with the connectivity of MDRU system, they were divided into 4 groups. Mr. Basnet moderated the session by forming 4 core groups with designated role of Relief and operation, Security, Health and Community Members and Evacuation Center. Each group selected their team leader and representative for command center. A rehearsal of a disaster scene was created to let the participants identify their respective roles. After the rehearsal session, the teams were moved to evacuation center and command center. There was scene created of a big earthquake in Lalitpur region and the teams were deployed with various tasks. The tasks was to provide food and relief in different locations, provide health service to victims in given area and the combined effort was to find a person missing during the disaster. The whole idea was to use the MDRU system for communication and sharing of evidence of task completion. The four teams completed the whole task in 2 hours and 55 minutes. All groups were prized for their successful mission.

The next task was a simulation between teachers and students. 5 individuals in the command center acted as teachers at a remote location. All the other participants were students at different location. The teachers assigned the students to find answers to questions from the reading material uploaded at MDRU server. The second task for the students was to upload some reading materials for the purpose of shared learning. The students who finished the task first were prized.

Closing Ceremony

Distinguished guests from Ministries from Nepal were unable to attend the closing ceremony of the workshop because of the eminent flood disaster in Nepal. The closing ceremony consisted of recap of the whole event. The participants were given different questionnaire to get feedback on the whole workshop and MDRU in context of Nepal. An interactive discourse was set to the floor after the dissemination of feedback by team leaders of the core groups. The workshop was wrapped by providing certificates to participants and guests. An informal session of discussion was conducted during the dinner program and the workshop was successfully concluded.

MDRU Application Evaluation

The application evaluation of MDRU was conducted through the survey form provided by NTT and CVIS Net, questionnaire prepared by EN and post event feedback collections. The following were the major findings on MDRU application evaluation.



19 of the participants were aged between 20-40 years old while 1 participant was above 40 and 1 participant was below 20 years of age. Majority of participants used Android Smartphones with 1 participant using IOS and 1 participant using a different operating system in their devices.



Most of the respondents felt the call function and messaging to be relevantly easy while on the contrary the respondents felt file sharing and daily use purpose to be relatively difficult option. The average of votes revealed that the messaging function was the most convenient function with MDRU and file sharing to be the most difficult in comparison to other options.

	Ease of Call			
	Function Using	Ease of Messaging	Ease of File Sharing	Ease of Use for
	MDRU	Function	Function	Daily Purpose
Mean	2.24	2.05	3.05	2.52
Ν	21	21	21	21
Std.	.995	.805	.669	.814
Deviation				
Magnet N	Leat Dear			

Table 1:Mean Ease of Use of MDRU

Mean:1 = Most Easy

5 = Least Easy

Similarly, call function and messaging received most votes for usefulness. File sharing and daily use got more votes for slightly useful.



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Table 2:Mean Usefulness of MDRU

	Usefulness of Call			
	function Using	Usefulness of	Usefulness of File	Usefulness for
	MDRU	Messaging Function	Sharing Function	Daily Use
Mean	<mark>1.90</mark>	2.15	2.38	2.33
Ν	21	20	21	21
Std.	.625	.671	.805	.730
Deviation				
Mean: $1 = N$	Most Useful			

4 = Least Useful

Future Modality

In order integrate the MDRU system in Nepal, it was the opinion of participants and experts that MDRU must be brought to daily use so that people are well accustomed to the technology and therefore can effectively use the technology in the time of disaster. The following scopes of MDRU emerged after intensive discussion with experts and participants.

Education

Nepal is a mountainous country with over 60% of its land covered with hills and mountains. Many schools in remote villages in the hills and mountains have poor resources of learning materials and resources. The schools stay closed for long time during monsoon and winter seasons because teachers and students cannot reach the school. In such context we can use the MDRU technology to set up an e-learning platform for distant learning or sharing of education materials.

Health

The accessibility to health facility is also very difficult in rural villages of Nepal. Sometimes people have to walk for hours or even days to reach a nearest hospital just to get primary health care. A concept of tele medicine is on the rise in such villages but not all villages are connected with proper communication system. MDRU can be a lifesaving technology in providing tele medicine facility in Nepal.

Trekking Routes

Out of the top 10 highest mountains in the world 8 of them lie in Nepal. Thousands of tourists visit Nepal every year to trek along these mountain routes. Many trekkers get lost and sometimes even lose lives due to lack of proper communication channel. Security of tourists along these travelling route can be provided by MDRU as a reliable source of communication during emergency.

Issues and challenges

The workshop shed some light on improving the MDRU system for future utility in Nepal. The interactive discussion gave insights to following topics for better use of MDRU in Nepal.

Local Context of Nepal

The concerns that many participants shared during the workshop was if MDRU contained attributes that could support the topographic conditions of Nepal. It was the feeling of all that the

product was tested and intended for flat land area of countries in pacific region. Nepal in the other hand ranges from 70m to 8848m from sea level. The terrain in Nepal are uneven with hills and valleys in majority of the region. The challenge could persist with line of sight to efficiently use MDRU system in Nepal

Ease of User Interface

Another concern shared by participants during informal discussions was the complexity of using the user interface app of MDRU. The participants felt that the app could be made more user friendly for better utility of MDRU in Nepal. The platform for user interface of MDRU can be redeveloped for communication and scopes in Nepal.

Product Improvisation

Few of the other complains about MDRU were compatibility issues along different devices, android and ios both. This could be made further convenient with better app development. The participants felt that the product could still be improvised in handling congestion of users. The concern of participants was that the network wasn't very clear when multiple people were communicating through the system.

Conclusion

The workshop and evaluation of participants had definitely given a huge insight to potential utility of MDRU in Nepal. The participants identified MDRU as a quintessential medium of communication specially for call function and instant messaging. It seems that we

can extend the utility of MDRU in file sharing and daily use by improving user interface application. The scope of MDRU for private or public sector both seems abundance with strong and energetic counterpart in Nepal. It is also because the social and economic environment of Nepal is drastically moving into digitization which can be a huge attribute to MDRU market in



Nepal. With just few improvements in the innovative MDRU infrastructure to adhere topographical needs of Nepal and well trained team for promotion and training services of

MDRU, this product can be find good market in Nepal.in different scopes of disaster, tourism, health and education.

Annexes

Annex 1: SWOT Analysis

Strength	Weakness
Motivated Young team in Nepal	Lack of English manual for operation
Modular/flexible design of MDRU	of MDRU
device	 Unfriendly User Interface for local
Good initial review and output of the	context of Nepal
workshop in Nepal	Need of high quality wireless
Server/ Application within the	infrastructure for wide area use.
MDRU	Distortion of quality of
EN's good network with government	communication with increased traffic
and other stakeholders	Unavailability of RAID server
Resilient local communication	➢ Need to look for alternative antenna/
network and cost friendly for users	wireless system
ITU approved of MDRU for e-	Untrained staff to deal with technical
resilience	bugs
	Need of more tests and R&D
	No document/ training for sales/ after
	sales activities like further training and
	warranty claim
	Lack of recognition/ certificate to
	Nepal partners
Opportunity	Threat
Availability of smart phones with	 Quick Technological Advancement
majority of population	Price Competition with China,
➢ Low internet/ network penetration in	Specially Huawei
rural areas	Government first priority to
Flood/ land slide prone condition of	neighboring nations like China and
Nepal	India

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Can be implemented in government	 Government priorities on basic need
prioritized sector like education,	like housing, employment, education,
health, etc.	health, etc.
Political Stability in Nepal at the	Availability of alternative
present	communication channel like HAM
Nepalese economic Inclination	radio, satellite phone, etc.
towards digitization	Strict laws on VoIP and call bypass
Good relation with Government,	
Japanese government and UNESCAP	
Nepal Japan G2G possibilities in	
various sectors	
Prevalence of assistive platforms Asia	
Pacific Information Superhighway	

Annex 2: Workshop Schedule

Nepal MDRU Field Testing and Training Kathmandu, Nepal Training and Workshop July 10-12, 2018

P R O GR A M M E

Date/Time	Activity	Person	Location
July 10 (Day 1)	Opening Ceremony		ICTC Conference Hall
10:00 AM	Registration and Tea		
11:00 - 11:15	Welcome Message	Binod Basnet	
11:15 - 11:30	Message from the chief guest	Honourable Mayor of Budhanilkantha Municipality, Uddab Kharel	
11:30 - 11:45	Keynote Speaker	Ashirwad Tripathy	
11:45 - 12:00	Introduction to Partners	Jeffrey Llanto	
12:00 - 12:15	Japan Message / NTT / Tohoku U.		

12:15 - 12:30	MDRU Japan Experience	Video Presentation	
12.30 12.45	MDRU Philippines	Leffrey Llanto	
12.30 - 12.43	Experience		
12:45 - 1:00	MDRU Philippines Launch	Video Presentation	
Lunch		1	
1:45 - 2:00	NSET Nepal ICT and disaster status	NSET Representative	ICTC Conference Hall
2:00 - 3:00	Participants observe Setting- up of wireless infrastructure at Command Center	Workshop	Educating Nepal Office
3:00-4:00	Participants observe Setting- up of MDRU	Workshop	
4:00 - 4:30	Transfer to Evacuation Area		
4:30 - 5:30	Participants observe Setting- up of wireless infrastructure at Evacuation Area Accessing the WIFI	Workshop	Evacuation Area, Budhalinkatha Municipality
July 11 (Day 2)			
9:00 - 10:00	MDRU Attache Case Training	Abraham Licayan Jr	ICTC Conference Hall
10:00 - 11:00	MDRU File Sharing Training		
11:00 - 12:00	MDRU SMS Training		
1:00 - 2:00	Using the MDRU	Workshop	
2:00 - 3:00	Downloading the MDRU Apps	Workshop	
3:00 - 4:00	Making Call Making SMS File Sharing	Workshop	
July 12 (Day 3)			
9:00 – 11:00	Community Preparation Creation of Core Groups Command Center Police Health Other Responders	Workshop	Educating Nepal
11:00 - 12:00	Presentation of Community Preparation Workshop Results		
1:00 - 1:30	Explanation of Disaster Simulation Procedure Move participants to designated areas		Educating Nepal (Command Center) and Evacuation Area
1:30 - 2:30	Disaster Simulation	Workshop	

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2:30 - 3:00	Explanation of Missing Person Procedure Move participants to designated areas		
3:00 - 4:00	Missing Person	Workshop	
4:00 - 4:30	Move Participants to Educating Nepal		
4:30 - 5:00	Awarding of Simulation Winners Discussion of Activity Results		
	Evaluation of Activity		

Annex 3: List of Organizers

Educating Nepal

Mr. Binod Basnet

President

(Workshop Moderator)

Mr. Ashirwad Tripathy

Executive Director

(Workshop Co-Ordinator)

Rupak Malla Thakuri

Secretary

(Administration)

Shiva Tripathy (Technical Co-Ordinator)

NTT Mr. Yoshitaka Shimizu Mr. Yasuo Suzuki

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CVIS NET

Mr. Jeffery Llanto Mr. Abraham Licayan Jr Ms. Elsa Odron

Special Guests

Professors and Students of Tohoku University, Sendai, Japan

Annex 4: List of Distinguished Guests

Mr. Uddab Kharel Honorable Mayor of Budhanilkantha Municipality

Mr. Shankar Prasad Pandeyrain Rotarian, Former Secretary of Ministry of Home Affairs

Mr. Kumud Tripathy Former President, Rotarian

Mr. Sunil Pradhan President, Rotarian

Mr. Amod Mani Dixit President of NSET Dr. Rajiv Subba DIG in Nepal Police, Director of Communication Directorate

Mr. Lochan Amatya President, Professional ICT Forum



Annex 5: List of Participants

AC		NEPAL MDRU Field Testing a	nd Training		Inclusive Date: July 10-1	2, 2018
со	OPERATORS	Kathmandu, Nepal NTT, CVISNET and Educating	Nepal			
NO.		NAME	NAME OF AGENCY/ FIRM	CONTACT NUMBER	EMAIL ADDRESS	SIGNATURE
	Surname	First Name				
1	VAIDYA	SANJEEV	NSET	9851086663	Staidya @ iset orginp	Sit
2	PUDASAINE	SURESH	NEPAL ARMY	9841263891	Su Kan 2875 @ Yak	oo, com
3	Ghimire Chhetri	Sandip	NEPAL POLICE	98512801928	Sandipkc698@qmail.ce	Berg
4	Chetneth Coir	i Chetnath	Nepalpolice (NEOC)	9841415610	chetnatigin's & gmall i	- Ports
5.	SHARMA	JAY SHANKAR	Nepul Police (PHB)	9856030099	jaxy999@gmailcom	Flan
C	Tripathy	Kymud	RC Thomas	9851023063	Kumudh emo.co	the de
7	PRADHON	SUNIL	RC THAMEL	9851038380	SUNILRATI & GMAIL-Kan	SR_
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g.	PANDEY	SHANKAR	AC THAMEL	9851072220	shankorpowncheysy esh	1. Je
10	STHAPIT	BIBHA	Pulchowt Campus	9841240850	bibhabice edu mp	Ø.

AC		EPAL MDRU Field Testing a	ATTENDANCE nd Training	SHEET	Inclusive Date: July 10	-12, 2018
-	K	athmandu, Nepal	Nonal			
0	N	AME				
NO.	Surname	First Name	NAME OF AGENCY/ FIRM	CONTACT NUMBER	EMAIL ADDRESS	SIGNATURE
11.	SHAKYA	AATISH	IOE, Pulchowk	9847499888	autish shakya 1 Dgmail.com	Aat
12	BAJRACHARYA	AYUSH	DE, Rilchunc	0818756948	vealaged 189 C gradien	Quy:
13	CHUTAM	AASUISU	DE Pularoule	0867127105	ashish gm 74@ gmaile	m Ship
14.	ARVAL	RAVE KERAN	Idi, Anlehowk	9860010920	v kiran. on al & gunt. con	Eari K front
K.	CHAURASIA	KESHAV	IDE, PULCHOWK	9866430771	Keshav, Chaurasia 1995 Ogmail. Ian	Kalif
16	Amatya	Lochan Lal	ITPF	9851023151	lochantal egmail.com	ly
17	Subba	RATER	Nepul Police	9857048776	dr. reubba @gmail.	on Me
18	Vaidya	Amor Raj	APF Nepel	9857260006	arvaidya @ apf.gov.	e At
19	Amos DIXIT		NSET	9857027459	nsefenseting. m	Al
20	Khedra Con Dh		NGET	9851151383	Ksenpliansetora	bar

4.0			ATTENDANCE	SHEET	Inclusive Date: July 1010.0	04.8
AC	IIVITY / TRAINING	Kathmandu, Nepal	g and Training		inclusive Date: July 10-12, 2	010
co	OPERATORS	TORS NTT, CVISNET and Educating Nepal				
NO.	Surname	NAME First Name	NAME OF AGENCY/ FIRM	CONTACT NUMBER	EMAIL ADDRESS	SIGNATURE
1	KHALUNIBHUY	A NEHA	IOE, Pulch owk	9843529999	neha3425103@gmuil. The	chaf
22	Dr. DayaRin Shr	THAD. DAYA	MEOC, MOHA	9841977455	dr.dayaksa)guail.con	Naga
23	Mr. Utdhaw forma	J Uddhau	Budhavillautha Mun.	9851098750	bok mayoroffice agnui	
24.	Ballyam Shrest	They are a second se	Sown Benk	9851000044	Girum Shors the esci	ve bunk. a
25	maniff Gh	im Mang	Samma Buck	985114+243	menj grimi'ze @ furintent	em &
26	Amil Paudel	Anîl	JOE, Pulchowk	9843552116	anil 59 paudel@gmail.rom <	19
21	Atok Regmi	Alok	Pulchook , 20E.	9846647170	sagar. r. alok@gmail.com	oo_f
28.	Agusto Baixacha	aga Agusp	Riichart, IDE	9818756948	railayushggegmailtan 1	ly.
29	# Sasazawa	Ryota	Tohoka varioersity	t81 90 8328 9940	sasazava3330@gunilion R	yota Sasadawe
30	HANYU	Ayaka	Tohoku university	181 \$90 8613 7271	ayabamarcia@gmail.com A	yaka Hanyu

ONTT CVS/left	EDUCATING NEPAL Turning Mirrors Into Windows
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			ATTENDANCE	SHEET		
ACT	IVITY / TRAINING	NEPAL MDRU Field Testing	and Training		Inclusive Date: July 10-	12, 2018
		Kathmandu, Nepal				
COO	OPERATORS	NTT, CVISNET and Education	ng Nepal			
		NAME				SIGNATURE
NO.	Surname	First Name	NAME OF AGENCIT/ FIRM	CONTACT NOMBER	EMAIL ADDRESS	SIGNATORE
31	Zhou	Yibo	Tohoku Uni	81-80-3521-9589	yibo, shu@gmail.com	Show Yibo
32	Furutanz	Tohn	Tohoku University.	81-80-2093-41779	tohn. Fururani @ie.is.tohku.as.	John Funor
33	Dr. Sanjel he Panda	rsad X				
33	Panday	Sanjeeb	IDE, Tribbulan University	+977-9840052621	Sanjeeb (2 ice.edu.np Sanjeeb 77 @hotmail.com	All
34	6 Khatri	GIAUTAV	ņ. O	9840069623	gaurou 113 glc @ gmail.com	Br m
35	Shrestha	Bibek	"	9842797462	OFIBERYOS Liber @	Bull
36	Thapa Majar	Bibek	11 11	9860392100	072 BEX 403 bibet &	p Pt
37	\$ Bista	Sun?]	η	9841243555	072 BEX 444 @ 100- edu-np	Jufuny
38	Sharma	Suraksha	ti	9860454675	072BEX446@ioc.edu.	· dur
39	Tivari	Sincer	0	9860799422	072 BEX 438@i@.edu.n	p Sjivoon

107			ATTENDANCE	SHEET	Inclusive Dates 1.1.10	12 2019
ACI	IIVITY / TRAINING	Kathmandu, Nepal	g and Training		Inclusive Date: July 10-	12, 2018
cod	OPERATORS	NTT, CVISNET and Educat	ing Nepal			
NO.		NAME	NAME OF AGENCY/ FIRM	CONTACT NUMBER	EMAIL ADDRESS	SIGNATURE
	Surname	First Name		CONTROL NOMBER	EMAIL ADDITESS	OIGHATORE
40	Khatiwada	Gilning	Neta Porice	9842238438	grajkhativadauzstss Egnailicon	tleg.
ŧI	Acharya	Yogesh	Nepal Police	3852630474	achargaichensourage	+ Catheren
1 2	Sapkota	Rabin dag \$	Pulchowk campus	9843468713	6716er 229 Dior.edu	mp eabilities
43	shrescha	Rajesh	Pulchowk campus	98(3322787	rajesh_45np C@ Yahoo.	P-
+4	Mali	Rujal	Pulchowk Campus	9899938934	saruj 27@9 mail.com	Æ
ŧs	Decenta	Seilar	Relchowik Campus	9843642133	nilculla sulove@	Gela-
46	Gautam	Biplab	Pulchowk Compus	9849645510	biplabigautan 9 @gnail.com	Az.
47	Acharya	Ashish	Pulchowk Campus	9860261004	@gmail.com	Ally-
18	iclanal	Brs hal	Pulchon Mc Camps	98499 39349	bishalkanal 32@ gmail.com	Hobul
49	<i>khanal</i>	Anup	Pulchowk Campy	9843503067	the not anup 1 Ogmail.com	Del

Annex 6: Participants Evaluation

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below. If you have used applications provided by MDRU system, please evaluate the functions of the service below.

(1) How was the operation of the phone services to make a call and	() Very easy
teleconference?	(V-Easy (V-Easy () Somewhat difficult () Linave not done so
2) Is the MDRU's phone services useful as the means of local communication n the shelter in the event of a disaster?	 () Very useful () Very useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	117
 How was the operation of file sharing service to upload the photo and/or view the photo? 	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
 How was the MDRU system that offers the information sharing and phone services as the means of local communications? 	() Very easy () Easy () A little difficult () Difficult () I have not done so
2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

(1)Age?	 () below 20 years old () 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	() iPhone Mandroid type () none smartphone user

Other comments and suggestions

Showd work on the network to improve the signal toos the roice Call we make to each other when there is a significant no. g users. Thank you for your cooperation.

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: $\frac{12}{1501912018}$

(1) How was the operation of the phone services to make a call and	() Very easy
teleconference?	 () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful (4) Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 () Very useful () Öseful () Slightly useful () Not useful

About Yourself

(1)Age?	•	() below 20 years old () 20 – 40 years old (U/40 – 60 years old () above 60 years old
(2)Type of smartphone		(V) IPhone () Android type () none smartphone user

Other comments and suggestions

if we are using this system for disaster it should be Compatible with all phones. Needs more RAD. Thank you for your cooperation.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

you have used applications provided by MDRU system, p	please evaluate the functions of the service below.	
	Date: 07/12	

As phone service of the SmartPhone	Date: 07 / 12 / 20
(1) How was the operation of the phone services to make a call and teleconference?	(YVery easy () Easy () Somewhat difficult () Difficult
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	() Very useful () Very useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy () Easy () Somewhat difficult () Difficult () Laws and done co.
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Very useful () Useful () Slightly useful
As file sharing service	() Not useful
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () Lifficult
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Very useful () Slightly useful () Not useful
For daily use of MDRU	1 () Hot userui
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	(Very easy () Easy () A little difficult () Difficult () Liave part done so
2) Do you think you can use the system in a daily use such as in an aducational system?	() Very useful () Very useful () Slightly useful () Not useful

About Yourself

(1)Age?		() below 20 years old
		(120 - 40 years old)
		() 40 - 60 years old
1919	and the second sec	() above 60 years old
(2)Type of smartphone		() iPhone
		(Android type
		() none smartphone user
Other comments and suggestions	Contraction of the State	

MORU is very useful at many place, it is also useful at disasters

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 12/ July/ 2018

As phone service of the SmartPhone	/
(1) How was the operation of the phone services to make a call and teleconference?	() Very easy () Easy- () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	Very useful (•) Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

(1)Age?	() below 20 years old () 20 − 40 years old () 40 − 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone () Android type () none smartphone user
Other comments and suggestions	to de more
Need to upgrade and should St	hudy more and Simulation
Thank you for your cooperation.	Exercise

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 20181 - 07712

As phone service of the SmartPhone	1
 How was the operation of the phone services to make a call and teleconference? 	 Very easy Easy Somewhat difficult Difficult Have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 (√) Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As file sharing service	1
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy (/) Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 Very useful Useful Slightly useful Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 ()_Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 () Yery useful () Useful () Slightly useful () Not useful

About foursell	() below 20 years old
(1)Age?	(1) 20 – 40 years old (1) 40 – 60 years old
	() above 60 years old
(2)Type of smartphone	() iPhone (\/ Android type () none smartphone user

The Network was slow but any kinds of communication during disaster is appreciable. Thank you for your cooperation.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 12/87/20/8

(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 Very useful Useful Slightly useful Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful V Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 Very useful Useful Slightly useful Not useful

About Yourself

(1)Age?	 () below 20 years old () 20 – 40 years old () 40 – 60 years old () above 60 years old
(2)Type of smartphone	() iPhone Android type () none smartphone user
Other comments and suggestions	

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 01/12/2018

As phone service of the SmartPhone	1.0.00
(1) How was the operation of the phone services to make a call and teleconference?	 () very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 () Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	 () below 20 years old () 20 − 40 years old () 40 − 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone () Android type () none smartphone user
Other comments and suggestions	
The scance of communication needs to t	e enlarged with a

The suancy	of communiced	uon	melers	0	to ve	magica	cuch a	
reliable	metuorking	set	ton	CL	large	amount	of users.	
Thank you for y	our cooperation		v		3		P	

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system,	please evaluate the functions of the service below.
	Date: 2018/ 01

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () Lave not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Very useful () Slightly useful () Not usefui
As message exchange service of the SmartPhone	1 ()
(1) How was the operation of the message exchange service?	 () Very easy Easy () Somewhat difficult () Difficult () Lave not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	1.17
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	 () below 20 years old (√) 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone Android type () none smartphone user
Other comments and suggestions	
The system need to be more reliable in terms of and the UI needs to be more usable. For Neg	communication palye people.

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRL	U system, please evaluate the functions of the service below	v.
	Date: 7 11	4 1

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	1.1.
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy (V Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	() Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful
About Yourself	
(1)Age?	() below 20 years old VY 20 - 40 years old

(1)Age?	() below 20 years old () 20 – 40 years old () 40 – 60 years old () above 60 years old
(2)Type of smartphone	() iPhone () Android type () none smartphone user
Other comments and suggestions	
More client support. Support	t-br phone too

Thank you for your cooperation.

2018

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate	e the functions of the service below.
	Date: 2018 / July / 12
As phone service of the SmartPhone	0

As phone service of the sindici none	V
(1) How was the operation of the phone services to make a call and teleconference?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 Very useful Useful Slightly useful Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy → Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 Very useful Useful Slightly useful Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	() Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	•	 () below 20 years old () 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone		 () iPhone () Android type () none smartphone user

Other comments and suggestions

It has scope in dest disaster situation for communication and it should be developed, more for feqsible communication. Thank you for your cooperation.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: <u>12 / JU</u>/ <u>20</u>18

(1) How was the operation of the phone services to make a call and teleconference?	() Very easy () Easy (Y Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 Very useful Useful Slightly useful Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy (-) Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 (-) Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Useful () Useful () Slightly useful () Not useful

About	Yourself

(1)Age? .	 () below 20 years old (→ 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone () Android type () none smartphone user

Other comments and suggestions. It has more to debug an it has more to debug an The system even and make thi ormance. Thank you for your cooperation.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 2016/07/12

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	() Very useful Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	V Very easy () Easy () Somewhat difficult () Difficult () Lhave not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Yery useful () Useful () Slightly useful () Not useful
As file sharing service	1111.000000
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () Lhave not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

(1)Age?	() below 20 years old
	1 20 - 40 years old
	() 40 – 60 years old
	() above 60 years old
(2)Type of smartphone	() jPhone
	1) Android type
	() none smartphone user
Other comments and suggestions	

ggestions and su

Needs

development of research and more table Version.

Thank you for your cooperation.

more

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 2018 / <u>0</u> クノ ノ

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	(YVery useful () Useful Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	() Very easy & Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	and the second start and a
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	() Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	•	 () below 20 years old () 20 – 40 years old () 40 – 60 years old () above 60 years old
(2)Type of smartphone	•	 () iPhone () Android type () none smartphone user
Other comments and suggestions		

The app should be apgraded and make its suntime faster.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: <u>ッ</u>ア / <u>」に</u> / <u>1</u>の13

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 Very easy Easy Somewhat difficult Difficult I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful (→ Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	() below 20 years old
(2)Type of smartphone	 () iPhone (Android type () none smartphone user
Other comments and suggestions	

Need more RfD -

for making more user friendly 4

incrae

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below. If you have used applications provided by MDRU system, please evaluate the functions of the service below.

Date: 07 / 12 / 2018

 How was the operation of the phone services to make a call and eleconference? 	() Very easy () Easy () Somewhat difficult
	() Difficult () I have not done so
2) Is the MDRU's phone services useful as the means of local communication	Very useful
n the shelter in the event of a disaster?	() Useful
	() Signity useful
As message exchange service of the SmartPhone	
1) How was the operation of the message exchange service?	() Very easy
	() Easy
	() Difficult
	() I have not done so
2) Do you think you can use the MDRU's message exchange service as the	() Very useful
means of local communication in the shelter in the event of a disaster?	() Useful
means or local communication in the sheller in the event of a disaster?	() Slightly useful
	() Not useful
As file sharing service	() Verv easy
(1) How was the operation of file sharing service to upload the photo and/of	() Easy
view the photo?	H Somewhat difficult
	() Difficult
	() I have not done so
(2) Do you think you can use the file sharing service as the means of local	Very useful
information sharing in the shelter in the event of a disaster?	() Slightly useful
	() Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and	() Very easy
phone services as the means of local communications?	() Easy
Prierie sal filos de trie filosite en teorie contractiones.	() A little difficult
	() I have not done so
(2) Do you think you can use the system in a daily use such as in an	() Very useful
aducational system?	LYUseful
educational system?	·() Slightly useful
	() Not useful
About Yourself	
(1)Age?	() below 20 years old
(-1, .0	U20-40 years old
	() 40 – 60 years old
	() above 60 years old
	() iPhone
(2)Type of smartphone	Million type
(2)Type of smartphone	() none smartphone user
(2)Type of smartphone Other comments and suggestions	() none smartphone user

Thank you for participating in the MDRU workshop. This questionnaire is used for making our

MDRU applications better. Please answer each question below. If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: <u>07 / 12 / 2018</u>

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Fasy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
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As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy ✓ Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful () Oseful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy ← Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 Very useful Useful Slightly useful Not useful

About Yourself

(1)Age?	() below 20 ↓ 20 - 40 y () 40 - 60 y () above 60	years old ears old ears old years old
(2)Type of smartphone	() iPhone ↓ Android t () none sma	ype rtphone user

Other comments and suggestions Coverage area and bandwigth must be increased.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 2016 / 07 / 12

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
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For daily use of MDRU	
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(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

(1)Age?	(*) below 20 years old () 20 – 40 years old () 40 – 60 years old () above 60 years old
(2)Type of smartphone	() iPhone () Android type () none smartphone use
Other comments and suggestions	

Thank you for participating in the MDRU workshop. This questionnaire is used for making our Thank you for participating in the MDRU workshop. This get MDRU applications better. Please answer each question below. If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: <u>12 / 07 / 2018</u>

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
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As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
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For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	 () Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	 () below 20 years old () 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone () Android type () none smartphone user
Other comments and suggestions	
It needs to be upgraded with the app. The good for use in the absence of other networr	e System is an -ing disaster

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

f you have used applications provided by MDRU system, please evaluate	e the functions of the service below.
	Date: /

(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 (). Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy () Easy Somewhat difficult () Difficult () I have not done so
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As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	 () Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	 () Very useful (+) Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy () Easy () A little difficult () Difficult () I have not done so
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About Yourself

(1)Age?	() below 20 years old () 20 – 40 years old () 40 – 60 years old () above 60 years old
(2)Type of smartphone	() iPhone Android type () none smartphone user
Other comments and suggestions	

to increase the band width and returns. Better y th

Thank you for your cooperation.

1

MDRU Application Evaluation

User Acceptance Questionnaire

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: 201g / 6ユ / 1と

As phone service of the SmartPhone	and the second sec
(1) How was the operation of the phone services to make a call and teleconference?	 () Very easy (₄) Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	Million and Anna and
(1) How was the operation of the message exchange service?	 Very easy Easy Somewhat difficult Difficult I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
As file sharing service	
(1) How was the operation of file sharing service to upload the photo and/or view the photo?	() Very easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the file sharing service as the means of local information sharing in the shelter in the event of a disaster?	() Very useful () Useful () Slightly useful () Not useful
For daily use of MDRU	
(1) How was the MDRU system that offers the information sharing and phone services as the means of local communications?	 () Very easy (.) Easy () A little difficult () Difficult () I have not done so
(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

About Yourself

(1)Age?	() below 20 years old (→) 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	 () iPhone () Android type () none smartphone user
Other comments and suggestions	
For multiple connections, i very problematic. So, improver	function such as file showing was ment-is needed for it.
Very problematic. So, improver	ment is needed for it.

Thank you for participating in the MDRU workshop. This questionnaire is used for making our MDRU applications better. Please answer each question below.

If you have used applications provided by MDRU system, please evaluate the functions of the service below. Date: $20/8 / \pm / 12$

As phone service of the SmartPhone	
(1) How was the operation of the phone services to make a call and teleconference?	 (Yery easy () Easy () Somewhat difficult () Difficult () I have not done so
(2) Is the MDRU's phone services useful as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
As message exchange service of the SmartPhone	
(1) How was the operation of the message exchange service?	 () Very easy () Easy (-) Somewhat difficult () Difficult () I have not done so
(2) Do you think you can use the MDRU's message exchange service as the means of local communication in the shelter in the event of a disaster?	 () Very useful () Useful () Slightly useful () Not useful
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(2) Do you think you can use the system in a daily use such as in an educational system?	() Very useful () Useful () Slightly useful () Not useful

(1)Age?	 () below 20 years old () 20 - 40 years old () 40 - 60 years old () above 60 years old
(2)Type of smartphone	() iPhone () Android type () none smartphone user

Security & Fire

Group Name:

KANCHANJANGA

Members:

Suresh Kumar Pudasaini Neha Khachhibhoya Sandeep Chettri Chatanath Giri Amar Kaj Baidh

MDRU Synthesis Document

1. How was your overall experience of MDRU workshop?

Is We gained a lot of knowledge about Disaster maggagement using MDRU. At the Same Time, we Think MDRU could be one of the Tool for keller communication in the Time of disaster relief operation. 2. What did you like or not like about the MDRU workshop?

is The programme was well conducted and its our pleasure to learn the new technology of Japan. However, The network strength thes not satisfactory. The system is easy to stepup as well as movable.

3. What are the opportunities of MDRU technology for NEPAL? It MDRU could increase ils bandwidth, increase its wideness for longer distance and faster services it could be one of the great asset during the disaster time in Nepal as well as any organization where group users are available.

4. What are the challenges of MDRU technology for NEPAL? > It might be a challenge to setup in our country due to our diverse geographical topology. 4> I must address the government policy/sector to be launched in Nepal. is Smart phones may not be available with all plople in Nepel. 4 It could be a challenge to find investers in Nepal.

53

Health

Group Name: Members: "Apollo"

Alok Regmi Ayush Bojracharya Keshor chaurosia Simran Tiwari Surakeha Sharma

MDRU Synthesis Document

1. How was your overall experience of MDRU workshop?

→ Fun experience → Satisfying → Simulation gave some real feelings. > Excitment to solve problems → # D Not So practical > Problematic abile f aploading filed > lack of server support for multiple clients. → The food was good.

2. What did you like or not like about the MDRU workshop? likes = The simulation and testing made us feel the disaster scene and it made us realize that we are in dire need of communication technologies in case of emergency. The real simulation was efficient over all other 2 Problems of real life scenarios and it's implementational problems was tested into environment. communication with related authorities, as well as =7 their participation was made the achole experience 3 diversified and unique. > The workshop was & bit slow in terms of teaching how to "use the technology. > Command Conter features was less attenuated actuated Relay by communication was not used at all in the =) real simulation. =)

- 3. What are the opportunities of MDRU technology for NEPAL?
- Disaster implementation. 2

Local Area Networks Gaming application (Multiplayer). Trekking communications. Trekking communications. Enterprises and offices within themselves. =)

2) =)

5



Relief & Operations

Group Name: ROMEO OSCAR

Members:



MDRU Synthesis Document

1. How was your overall experience of MDRU workshop?

* Good and informative workshop with real time drills. * Experience sharing and group discussions

2. What did you like or not like about the MDRU workshop? MDRU workshop liker. * Introduction of new technology. * Interactive workshop. * Participants from di multi-stakeholders which benefits collaboration. * Friendly environment and good hospitality. * Delegates with high expertise yet information sharing couldn't be as effective due to language barrier. * Real time drill. ×

3. What are the opportunities of MDRU technology for NEPAL?

Opportunities

- * Alternative communation mode for emergency situations in the absence of other communication medium.
- * Information sharing and networking in remote areas for education.
- * Easy to setup io, the bag version in extremely remote areas without transportation.



Security & Fire

KANCHANJANGA Group Name:

Members:

Suresh Kumar Pudasaini Neha Khachhibhoya Sandeep Chettri Chatanath Giri Amar Kaj Baidh

MDRU Synthesis Document

1. How was your overall experience of MDRU workshop?

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