

# iCARE Innovation Fund

## VICTORY

### Six Monthly Progress Report

Prepared by: Institute of Himalayan Risk Reduction

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## 2. Summary of the Achievements

The VICTORY project, led by the Institute of Himalayan Risk Reduction (IHRR) in collaboration with SmartPhones4Water Nepal (S4W-Nepal), aims to enhance Early Warning Systems (EWS) for landslides and floods in Bhimeshwor and Barbardiya Municipalities by addressing data gaps, strengthening stakeholder capacity, and supporting EWS effectiveness. The VICTORY project has installed over 50 low-cost recycled soda bottle rain gauges in each of the two municipalities for close observation of rainfall patterns thereby enabling anticipation of potential landslides and floods. Additionally, in Barbardiya Municipality, bamboo staff gauges have been installed along riverbanks to continuously monitor water levels. To support this effort, more than 106 Citizen Scientists have been engaged and trained through extensive outreach programs. The VICTORY mobile app and web dashboard facilitate efficient data collection and visualization. Orientation and sensitization workshops in wards, municipalities, and schools have also contributed to harnessing the strength of communities, turning everyday individuals into scientific contributors.

Outputs	Key Achievements	Gender Mainstreaming	Next Step
Output 1.1: Developed and Formalized Partnership with the Local Government and Stakeholders	<ul style="list-style-type: none"> <li>Approval from Municipalities and Social Welfare Council.</li> <li>Inception Workshop with 80 participants</li> </ul>	<ul style="list-style-type: none"> <li>The agendas of the inception workshop were circulated.</li> <li>Inclusive Criteria of inviting members</li> <li>35% of Female participation.</li> </ul>	Continue to strengthen partnerships with local governments and stakeholders.
Output 1.2: Developed Hardware and Software Products alongside the Citizen Scientist Dashboard	<ul style="list-style-type: none"> <li>Developed 120+ low-cost rain-gauge</li> <li>50 bamboo staffs in Barbardiya</li> <li>Mobile and web VICTORY app developed.</li> </ul>	<ul style="list-style-type: none"> <li>Hired Two Field Officers [1 Male and 1 Female].</li> <li>Inclusive team for the system development.</li> </ul>	Monitor the product, Enhance the citizen scientist dashboard.
Output 1.3: Developed Guidelines for	<ul style="list-style-type: none"> <li>Two sets of guidelines in local languages</li> </ul>	<ul style="list-style-type: none"> <li>Guidelines and training manuals in local</li> </ul>	Ensure the data collection as

the Official Launch of the Citizen Scientist Initiative	<ul style="list-style-type: none"> <li>• One Official Launch event in each municipality.</li> </ul>	languages. Enabling environment for inclusive participation as Citizen Scientists.	per the guidelines developed.
Output 1.4: Strengthened Capacity of the Citizen Scientists and Field Deployment of Hardware Products	<ul style="list-style-type: none"> <li>• 20 ward-level sensitization meetings orienting 407 participants (34.15% Female)</li> <li>• Outreach events at 15 schools orienting 915 students (55.08% Female)</li> <li>• Online Training and Mapathon Event to 44 participants (36.36% Female)</li> <li>• Conducted 2-days CS Training Event at each municipality.</li> <li>• 106 (50% Female and 50% Male) participants were recruited and trained as Citizen Scientists.</li> </ul>	<ul style="list-style-type: none"> <li>• Collected Issues of vulnerable group during field visit, sensitization.</li> <li>• Enabling environment to ensure participation of women and other excluded groups like Thami, Chaudhary, and so on.</li> <li>• Requested Ward Office for inclusive recruitment of CS.</li> <li>• Oriented, Discussed and identified key GESI related agenda in the 2-days CS training.</li> </ul>	Ensure the rain gauge and bamboo staff are operational.
Output 1.5: Collected Data and Tracking of Citizen Scientists	<ul style="list-style-type: none"> <li>• Submissions on Rain, water level and impact.</li> <li>• CS with average 200 minutes time spent in VICTORY app.</li> </ul>	3,174 submissions from Bhimeshwor and Barbardiya.	Regular data collection.

### 3. Summary of Project Beneficiaries

#### Direct Project Beneficiaries:

**1. Local Government:** Municipalities of Bhimeshwor and Barbardiya are the primary and key direct beneficiaries, receiving technical assistance, training, and capacity-building workshops. Further, there were altogether 20 ward offices who got oriented about this project and its objective. Based on the information shared by the CS, the municipality has also been generating notices for alertness, EWS.

**2. Individuals and Citizen Scientists:** Citizen scientists, including volunteers and community members, directly benefited from training sessions, workshops, and the deployment of hardware products. There is an inclusive participation [a balanced representation of men and women, as well as marginalized groups of the CS in each municipality. Altogether 106 CS are using this application on a regular basis.

**3. I/NGOs and CSOs:** NGOs and CSOs, including S4W-Nepal, DCA Nepal, women's groups and community organizations, are benefitted from awareness-raising sessions, workshops and data disseminated through the mobile application.

**4. Education & Research Institutions:** Schools in Bhimeshwor and Barbardiya were engaged through outreach events, enhancing students' knowledge and awareness of disaster risk management and climate resilience. Altogether, 15 schools were visited and 915 students were sensitized about weather, climate, rainfall measurement, GEDSI, Early warning Systems and the project goals.

#### Indirect Project Beneficiaries:

**1. Local Communities:** The broader populations of Bhimeshwor and Barbardiya municipalities will be indirectly benefited from VICTORY. The rainfall observed in the region and the report developed will support These measures enhanced community resilience and reduced vulnerability to climate-related hazards.

**2. Department of Hydrology and Meteorology:** The submissions made during the VICTORY project will give a spatial distribution of rainfall in the region. In addition to it, the DHM is also piloting the Impact based forecasting in the project municipality under the coordination of IHRR. Hence, the impacts submitted by the CS will also be helpful for the verification of the forecast and information shared by the DHM.

**3. Vulnerable Groups:** Marginalized communities, including women, children, PWDs, and displaced people, indirectly benefited from the project's inclusive approach and efforts to provide data-based impacts observed in the region. The participation of women and marginalized groups (Tharu and Thami Communities) in training and workshops led to improved practices and organizational systems that serve these populations.

**4. Farmers:** Farmers in the project areas indirectly benefited from the improved meteorological data and early warning systems, which contributed to better agricultural planning and risk management.

## 4. Performance Outcome Mapping

Table 2: Implementation progress as of 30<sup>th</sup> June 2024

Budget Line Item Description	Approved budget (in US\$)	Actual expenditure in US\$	Target	Result/achievement	Link to Evidence
<b>Outcome 1: Increased access to the meteorological and early warning system information to the stakeholders through the efforts of 100 citizen scientists in two municipalities</b>					
<b>Output 1.1: Developed and Formalized Partnership with the Local Government and Stakeholders</b>					
Activity 1.1.1: Inception Meeting	6307.50	4502.89	#2 No. of Inception Meeting at Bhimeswor and Barbardiya	<ul style="list-style-type: none"> <li>● 40 (24 Male &amp; 16 Female) participants in the inception workshop at Bhimeswor Municipality on 18 Jan 2024.</li> <li>● 40 (28 Male &amp; 12 Female) participants in the inception workshop at Barbardiya Municipality on 18 Feb 2024.</li> </ul>	
Activity 1.1.2: Finalization and formalization of partnerships			#2 No. of Approval Documents	<ul style="list-style-type: none"> <li>● #1 Approval Letter from Social Welfare Council (SWC)</li> <li>● #2 Approval documents from Bhimeswor and Barbardiya Municipality,</li> <li>● #1 MoU signed between IHRR and S4W-Nepal</li> </ul>	
Activity 1.1.3: Preparation of Detailed Implementation Plan (DIP)			#1 No. of Inception Report	<ul style="list-style-type: none"> <li>● Submitted Inception Report on 12 Jan 2024.</li> </ul>	<a href="#">FINAL SUBMISSION</a>
Activity 1.1.4: Literature Review and collection of relevant secondary datasets					

Activity 1.1.5: Submission of Inception Report					
Activity 1.1.6: Scoping visit to project locations: kick-off meeting, hiring of local coordinators					
<b>Output 1.2: Developed hardware and software products alongside the citizen scientist dashboard</b>					
Activity 1.2.1: Customizing and Integrating Software Solutions	11050.00	0	#1 No. of VICTORY Application Requirement Document	<ul style="list-style-type: none"> <li>• Terms of Reference Prepared</li> </ul>	
Activity 1.2.2: Developing low-cost hardware products	1830.50	2160.53	#100 No. of Low Cost Recycled Soda Bottle Rain Gauge #50 No. of Bamboo Rain gauge	<ul style="list-style-type: none"> <li>• 120 rain gauges and 50 bamboo staff were developed and deployed in the field.</li> </ul>	
Activity 1.2.3: Preparation of Citizen Scientist Dashboard Citizen Scientist: User Login	6500.00	0	#1 No. of Citizen Science Dashboard	<ul style="list-style-type: none"> <li>• Web dashboard and VICTORY mobile application developed</li> </ul>	<p>Link to dashboard:  <a href="https://victory.citizensciencenepal.com/">https://victory.citizensciencenepal.com/</a>  Link to VICTORY mobile application:  <a href="https://play.google.com/store/apps/details?id=np.com.naxa.victory_app&amp;hl=en_US">https://play.google.com/store/apps/details?id=np.com.naxa.victory_app&amp;hl=en_US</a></p>
<b>Output 1.3: Developed guidelines for the official launch of the Citizen Scientist Initiative</b>					



Activity 1.3.1: Development of Data Collection Protocol	600.00	-	#1 No. of Data Collection Protocol	<ul style="list-style-type: none"> <li>• A guideline for data collection has been developed in English and Local Language which encompasses the provisions for citizen scientists recruitment, installation of VICTORY Mobile Application, Precipitation Measurement, Water Level Measurement and Motivation Approaches</li> </ul>	<a href="#">Revised First Output Report</a>
Activity 1.3.2: Development of Training Manuals for the Citizen Scientists			#1 No. of Training manual for 2-days CS Training	<ul style="list-style-type: none"> <li>• Training manuals developed</li> <li>• The training curriculum plan and manuals were designed to integrate necessary knowledge and skills to</li> <li>• effectively contribute to data collection efforts and utilize the Early Warning System (EWS) in</li> <li>• Bhimeshwar and Barbardiya Municipalities.</li> </ul>	<a href="#">Revised First Output Report</a>  <a href="#">YouTube Channel</a>
Activity 1.3.3: Preparation for Official Launch at both municipalities	5875.00	3391.34	#2 No. of Official Launch Event at Municipality	<ul style="list-style-type: none"> <li>• Oath Taking Ceremony by the Citizen Scientists from Mayor. The Official Launch Event at Barbardiya Municipality was organized on 23rd May 2024 while</li> </ul>	

				the Official Launch Event at Bhimeshwar Municipality was organized on 30th May 2024.	
<b>Output 1.4: Strengthened Capacity of the Citizen Scientists and Field Deployment of hardware products</b>					
Activity 1.4.1: Building a Network of Citizen Scientists	5687.50	1403.73	#15 No. of Outreach events in Schools  #1 No. of Virtual Mapathon	<ul style="list-style-type: none"> <li>• Conducted outreach events at 15 schools orienting 915 students.</li> <li>• Conducted Online Training and Mapathon Event to 44 participants on June 26 and 27, 2024.</li> <li>• 106 Citizen Scientists were recommended by the Ward and Municipality Office.</li> </ul>	<a href="https://www.facebook.com/share/p/BrzfBV4Ki4bow3dc/">https://www.facebook.com/share/p/BrzfBV4Ki4bow3dc/</a>
Activity 1.4.2: Capacity Building of Citizen Scientists	2000.00	2092.05	#2 No. of 2-days CS Training Event	<ul style="list-style-type: none"> <li>• Two days of CS training was carried out in each municipality. 56 Citizen scientists from Barbardiya and 50 Citizen Scientists from Bhimeshwar Municipality were trained in person. There were 50% Male and 50% Female.</li> </ul>	
Activity 1.4.3: Orientation and Sensitization at each Ward	5250.00	4277.18	#20 No. of ward-level sensitization meetings	<ul style="list-style-type: none"> <li>• In 20 Wards, ward-level sensitization meetings was organized in collaboration with municipal authorities, orienting altogether 407 participants.</li> </ul>	
Activity 1.4.4: Transect Walk at the risk prone region			#1 No. of Field Report	<ul style="list-style-type: none"> <li>• Transect walk was conducted delineating</li> </ul>	

				flood, inundation and landslide prone areas.	
Activity 1.4.5: Deployment of hardware product (rain gauge and bamboo staff)			#100 No. of low-cost rain-gauge #50 No. of Local Bamboo staffs	<ul style="list-style-type: none"> <li>Collected soda bottles for developing 120+ low-cost rain-gauge in two municipalities. Procured Local Bamboo and calibrated to develop 50 bamboo staffs for the deployment in Barbardiya Municipality</li> </ul>	
<b>Output 1.5: Collected Data and Tracking of Citizen Scientists</b>					
Activity 1.5.1: Assessing the Hardware Conditions	9000.00	303.03	#Regular assessment of hardware conditions	<ul style="list-style-type: none"> <li>#Daily Submission and assessment of the condition of instruments</li> </ul>	
Activity 1.5.2: Communication with the Citizen Scientist			#100 No. of Daily Submission	<ul style="list-style-type: none"> <li>More than 100 Daily Submissions, Impact/Landslide Submission, Regular Communication through WhatsApp groups</li> </ul>	
Activity 1.5.3: Award and Incentivizing	3180.00	743.33	#32 No. of Awards in four months	<ul style="list-style-type: none"> <li>8 Awards to 8 Citizen scientists with different categories in two municipalities in the Month of June</li> <li>Continue Until September</li> </ul>	
<b>Output 1.6: Visualization of the data in the System</b>					
Activity 1.6.1: Quality control and data management	0	0	#4 No. of Maps and Graphs Visualized in the System	In Progress	
Activity 1.6.2: Data Visualization					

Activity 1.6.3: Integration with Mobile Application					
<b>Output 1.7: Strengthened Municipal capacity and Information Dissemination carried through the workshop</b>					
Activity 1.7.1: Citizen Scientists Summit	6500.00		#No. of Citizen Science Summit	To be carried out in Q4, 2024	
Activity 1.7.2: Local Workshop	2000.00		#No. of Local Workshops	To be carried out in Q4, 2024	
Activity 1.7.3: Visualization of the results in the municipalities				To be carried out in Q4, 2024	
Activity 1.7.4: Capacitation, Integration, and Handover	2000.00		#30 No. of Local Municipal Officials trained/sensitized	<ul style="list-style-type: none"> <li>● Before the arrival of Monsoon 2024, monsoon preparatory, SOP Preparation and Impact Based forecasting workshop was carried out in two municipalities</li> <li>● i. 14-15 June, 2024 in Barbardiya Municipality (17 Male, 7 Female)</li> <li>ii. 17- 18 June, 2024 in Bhimeshwor Municipality (30 Male, 10 Female)</li> </ul>	
Activity 1.7.5: Submission of the final report			#1 No. of Final Report	To be carried out in Q4, 2024	
	<b>67780.5</b>	<b>18571.05</b>			

## 5. Partnership

In the last six months, significant milestones were reached in developing partnerships with local governments and stakeholders:

### 1. Formalization of Partnerships:

- Approval from the local municipalities, i.e. Bhimeshwor and Barbardiya Municipalities.
- MoU between IHRR and S4W-Nepal.
- Coordination with DCA Nepal and U-Inspire Nepal

### 2. Capacity Strengthening:

- Conducted training for municipal officials, citizen scientists, and community leaders
- Developed training manuals in local languages
- Practical skills training for municipal officials and community leaders
- Equipping citizen scientists with tools and knowledge for data collection
- Regular updates and active integration of partner feedback

### 3. Communication with Department of Hydrology and Meteorology (DHM)

- IHRR received a request from both of the municipalities to pilot Impact Based Forecasting and IHRR facilitated with the DHM.
- DHM gave approval for piloting IBF in both the municipalities while the outputs from the VICTORY will support in forecast verification.

### 4. Mutual Accountability and Communication:

- Established clear communication channels and feedback mechanisms
- Conducted regular field visits and meetings

## 6. Sustainability

In the past six months, significant progress has been made towards ensuring the sustainability of project initiatives, aiming to create long-lasting impacts and empower local communities.

### 1. Institutional Ownership

- Municipal officials in Bhimeshwor and Barbardiya have received orientation and sensitization regarding Rainfall data collection, disaster risk management and early warning systems.
- Standard Operating Procedures (SOPs) have been developed.
- 106 citizen scientists trained and deployed, with balanced gender representation. The CS are also recommended by the Ward Office and have promised for the long term continuation of this initiative.
- Continuous support and recognition, such as monthly awards and communication allowances, have motivated citizen scientists to remain actively engaged in the initiative.

## **2. Community Engagement and Ownership**

- Strong relationships established with local leaders and community-based organizations
- Inclusive strategies implemented to ensure participation of women, youth, indigenous people, and marginalized groups. Community-level Women's Groups, FCHV Groups, Youth Clubs, etc. have shown keen interest in implementing the VICTORY solution.
- Regular refresher training for local officials and citizen scientists through online participation will develop the sense of ownership and regular engagement.
- Outreach to schools has also opened a new realm for the addition/replacement of the Citizen Scientists over a long period.

## **3. Integration of Technology and Innovation**

- 100 rain gauges and 50 bamboo staffs deployed for rainfall and water level monitoring. The process of development of VICTORY rain gauge has been oriented while Regular hardware assessments are being conducted. The process is simple and locals can adopt it easily.
- Mobile application enhanced with features to encourage continued engagement like leaderboard system and earnings.
- VICTORY aims to enter into a SaaS (Software as a Service) model in the medium-term which is expected to sustain the product and the proposed solution in the long term.

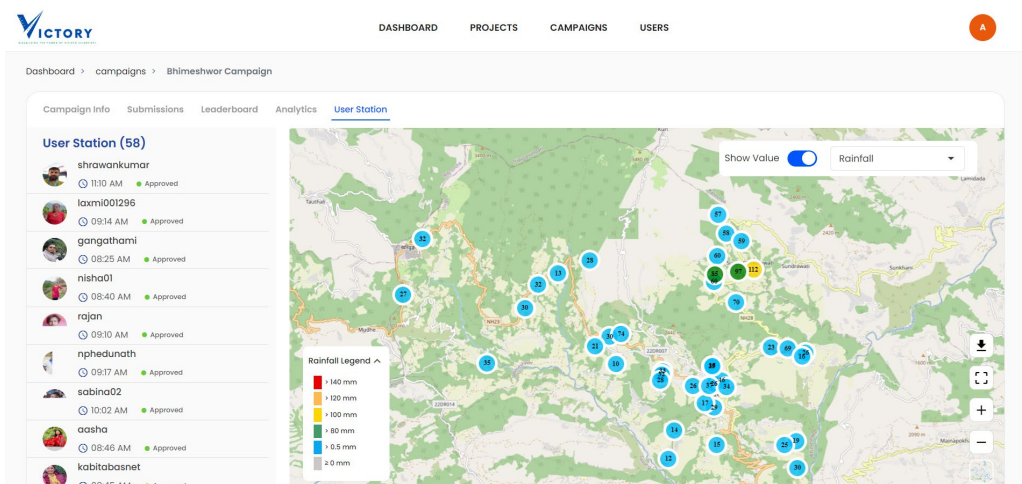
## **4. Strategic Partnerships and Collaboration**

- Formalized partnerships with Bhimeshwor Municipality, Barbardiya Municipality and S4W-Nepal.
- Ongoing collaboration with municipal authorities to align activities with local priorities
- Local FM, Media have shown interest towards the adoption of VICTORY Rain Gauge and use the information generated for the overall dissemination.
- The Municipality has shown interest to explore Long-Term Funding and Support for this VICTORY project and hence will explore opportunities for sustained funding from national and international donors. Besides, the municipalities will be sensitized regarding the allocation of budget in their annual plans for the regular data submission.

## 7. Communication and Knowledge Management

The communication and knowledge management efforts over the past six months have played a crucial role in the successful implementation of the project. These activities have increased awareness, facilitated knowledge exchange, and promoted engagement among stakeholders. Below is a summary of the key communication activities and their impacts:

- **Dedicated Website for VICTORY:** A dedicated domain has been developed for the visualization of website (<https://victory.citizensciencenepal.com/>)
- **Interactive Dashboard** for the Visualization of Citizen Science Submissions



- **Mobile Application for Reporting Submissions:** It can be downloaded through the Google Playstore VICTORY mobile application: [https://play.google.com/store/apps/details?id=np.com.naxa.victory\\_app&hl=en\\_US](https://play.google.com/store/apps/details?id=np.com.naxa.victory_app&hl=en_US)
- **Awareness and Outreach:** Enhanced awareness about disaster risk management, climate resilience and VICTORY project through 20 Ward-level Sensitization workshops and 15 schools Orientation Sessions in the targeted municipalities.
- **Digital Media Campaigns:** Utilized social media platforms like Facebook, messenger and WhatsApp to disseminate information, share project updates, organize VICTORY Mapathon, and engage with the community.
- **Educational Materials:** Developed and distributed training manuals, protocols, and banners to support capacity-building efforts.
- **Workshops and Mapathon:** Organized workshops to facilitate knowledge exchange and provide training to stakeholders, and mapathon to train the participants about open street mapping and improve data quality of the targeted municipalities.
- **Videos:**
  - Produced and shared videos documenting field activities, interviews with stakeholders, and success stories of citizen scientists.
  - Produced videos showcasing the participation and impact of women, youth, and marginalized groups in the project, highlighting their contributions and successes.

- Videos are made available in the Youtube Playlist of IHRR <https://youtu.be/NWMDJNSzt5E?si=FExZt2EsLQj94Imj>.
- **Educational Materials:**
  - Created comprehensive training manuals, guidelines, and banners in local languages to support capacity-building activities.
  - Distributed materials during workshops, training sessions, and outreach events.
- **Media Coverage:**
  - Achieved coverage in local newspapers, radio stations, and online news portals, increasing the project's visibility and reach.
  - Media coverage highlighted key project events, workshops, and the impact on local communities.

*Table 3: Communication and Knowledge products activity and progress achieved*

S.N.	News	Media	Link
1.	Bhimeshwor Municipality	Annapurna Post Print Media	<a href="https://annapurnapost.com/epaper/#group=nogroup&amp;photo=5">https://annapurnapost.com/epaper/#group=nogroup&amp;photo=5</a>
		Online	<a href="https://gorkhapatraonline.com/news/110049">https://gorkhapatraonline.com/news/110049</a>
		Online	<a href="https://annapurnapost.com/story/458684/">https://annapurnapost.com/story/458684/</a>
		Online	<a href="https://ekantipur.com/pradesh-3/2024/05/30/citizen-scientist-measuring-rainfall-in-bhimeshwar-18-37.html">https://ekantipur.com/pradesh-3/2024/05/30/citizen-scientist-measuring-rainfall-in-bhimeshwar-18-37.html</a>
		Gaurishankar news (Online)	<a href="https://gaurishankarnews.com/2024/05/29/1244/">https://gaurishankarnews.com/2024/05/29/1244/</a>
2.	Barbardiya Municipality	Nagarik	<a href="https://nagariknews.nagariknetwork.com/social-affairs/1436919-1716736667.html">https://nagariknews.nagariknetwork.com/social-affairs/1436919-1716736667.html</a>
		Farak Samachar	27 May Print Media
		Farak Samachar Online	<a href="https://faraksamachar.com/news/49843/">https://faraksamachar.com/news/49843/</a>

These efforts have contributed to a greater understanding and appreciation of the importance of inclusive approaches in disaster risk management and climate resilience, ensuring that the voices of all community members are heard and valued.



## 8. Challenges and Risks

Challenges faced during the reporting period and their corresponding mitigation measures:

### 1. Recruitment of Citizen Scientists:

- **Challenge:** Initially, reluctance from ward-level officials and local citizens to invite participants as citizen scientists.
- **Mitigation Measures:** Conducted sensitization sessions at the ward level, emphasizing the significance of citizen science. Introduced awards and provided communication allowances to encourage involvement.

### 2. Technical Issues:

- **Challenge:** Technical difficulties in customizing and integrating software solutions.
- **Mitigation Measures:** Engaged additional IT experts, conducted testing, and ensured user-friendly functionality.

### 3. Logistical Constraints:

- **Challenge:** Deploying low-cost hardware in remote, risk-prone areas with challenging terrain and weather.
- **Mitigation Measures:** Partnered with local organizations, used local labor, and adjusted deployment schedules.

### 4. Data Collection and Quality:

- **Challenge:** Variability in data quality from citizen scientists.
- **Mitigation Measures:** Conducted additional training, established communication channels, and implemented quality control.

## 9. Lesson Learnt

The lesson learnt during the first six months are discussed below:

### 1. **Effective Stakeholder Engagement:**

- **Lesson:** Building strong relationships with stakeholders from the outset proved crucial. Continuous engagement and transparent communication fostered trust and collaboration, leading to smoother project implementation.
- **Recommendation:** For future projects, prioritize early and consistent stakeholder engagement, using multiple strategies to address different concerns and interests.

### 2. **Flexibility and Adaptability:**

- **Lesson:** The ability to adapt to unforeseen challenges, such as technical issues and logistical constraints, was vital. Flexibility in approach and willingness to adjust plans ensured continued progress.
- **Recommendation:** Maintain flexible project plans that allow for adjustments. Develop contingency strategies to address potential technical and logistical challenges.

### 3. **Capacity Building and Training:**

- **Lesson:** Comprehensive training and capacity-building programs for citizen scientists enhanced data quality and project outcomes. Regular follow-up and support were essential for maintaining data collection standards.
- **Recommendation:** Invest in thorough training programs and establish support systems for continuous learning and improvement.

### 4. **Collaborative Partnerships:**

- **Lesson:** Partnering with local organizations and leveraging their knowledge and resources facilitated better implementation in remote areas.
- **Recommendation:** Establish collaborative partnerships with local entities to enhance project reach and effectiveness, particularly in challenging environments.

### 5. **Quality Control and Assurance:**

- **Lesson:** Implementing a robust quality control system ensured the reliability and accuracy of the data collected.
- **Recommendation:** Develop and integrate stringent quality control mechanisms from the beginning of the project to maintain high data standards.

### 6. **Community Involvement:**

- **Lesson:** Active involvement of community members in data collection and project activities fostered a sense of ownership and responsibility.
- **Recommendation:** Encourage community participation in project planning and implementation to enhance local engagement and sustainability.

## Annex 1: Records of Events

This annexure provides a comprehensive list of all activities and events that have occurred during the first six months of the project.

Activity	Date
Inception Meeting with ICare	4 December, 2023
Activity 1.2: Finalization and formalization of partnerships	Approval from Municipalities 27 December, 2023 (Bhimeshwor) 8 January, 2024 (Barbardiya)  MoU with S4W Nepal (27 December, 2023)
Activity 1.1: Inception Meeting	18 January 2024 (Bhimeshwor) 18 February 2024 (Barbardiya)
Activity 1.3: Preparation of Detailed Implementation Plan (DIP)	January 2024
Activity 1.4: Literature Review and collection of relevant secondary datasets	December- January 2024
Activity 1.5: Submission of Inception Report	12 January 2024 Revision: 7 February 2024
Activity 1.6: Scoping visit to project locations : kick-off meeting , hiring of local coordinators	17-19 February 2024 (Barbardiya) 21-24 February 2024 (Bhimeshwor)
Activity 1.2.1: Customizing and Integrating Software Solutions	March 2024
Activity 1.2.2: Developing low-cost hardware products	22 March, 2024
Submission of Quarterly Report Quarterly Progress Review	22 April 2024

Meeting	
Activity 1.2.3: Preparation of Citizen Scientist Dashboard Citizen Scientist: User Login	March- April 2024
Activity 1.3.1: Development of Data Collection Protocol	29 March 2024
Activity 1.3.2: Development of Training Manuals for the Citizen Scientists	March 2024
Activity 1.3.3: Preparation Official Launch at both municipalities	<ul style="list-style-type: none"> <li>• 22 May 2024 ( Barbardiya)</li> <li>• 30 May 2024 (Bhimeshwor)</li> </ul>
Activity 1.4.1: Building a Network of Citizen Scientists	<ul style="list-style-type: none"> <li>• 21-22 May 2024 ( Barbardiya)</li> <li>• 29-30 May 2024 (Bhimeshwor)</li> </ul>
Activity 1.4.2: Capacity Building of Citizen Scientists	<ul style="list-style-type: none"> <li>• 21-22 May 2024 (Barbardiya two day CS training)</li> <li>• 29-30 May 2024 (Bhimeshwor two day CS training)</li> <li>• 26 - 27, June 2024 (VICTORY Mapathon)</li> </ul>
Activity 1.4.3: Orientation and Sensitization at each Ward	<ul style="list-style-type: none"> <li>• 29 April to 3 May 2024 (Barbardiya)</li> <li>• 15 April to 19 April 2024 (Bhimeshwor)</li> </ul>
Activity 1.4.4: Transect Walk at the risk prone region	29 April to 3 May 2024 (Barbardiya) 15 April to 19 April 2024 (Bhimeshwor)
Activity 1.4.5: Deployment of hardware product (rain gauge and bamboo staff)	April - May 2024
Activity 1.5.1: Assessing the Hardware Conditions	June Ongoing until October 2024
Activity 1.5.2: Communication with the Citizen Scientist	June Ongoing until October 2024
Activity 1.5.3: Award and	June

Incentivizing	Ongoing until October 2024
Activity 1.6.1: Quality control and data management	June Ongoing until October 2024
Activity 1.6.2: Data Visualization	June Ongoing until October 2024
Activity 1.6.3: Integration with Mobile Application	June Ongoing until October 2024
Activity 1.7.2: Local Workshop	Preparatory workshop for developing SOP, Monsoon Preparedness Plan, Impact Based Forecasting Workshop i. 14-15 June, 2024 in Barbardiya Municipality ii. 17- 18 June, 2024 in Bhimeshwor Municipality

## **Annex 2: Event reports/minutes, Learning documents, Knowledge products, Communication products or other documents**

1. Report on Deliverable 1.1: Web-dashboard to visualize the collected data, reported landslides, etc.
2. Report on Deliverable 1.2 Guidelines for the data collection.
3. Report on Deliverable 1.3 Training Manuals and Documentary Video.
4. Field Visit Report at Bhimeshwar and Barbardiya Municipality
5. Ward Level Sensitization report:
6. School Outreach report
7. CS Capacity Building Report
8. Official Launch Event Report
9. Deployment of Hardware Products:
10. VICTORY Mapathon Report
11. VICTORY YOUTUBE CHANNEL

## Annex 3:Results Framework

PDO Indicator Description: Government agencies and Citizens who have access to climate-resilient solutions tested under the project (Number)		
	Current Value	End Target
Government Agencies	2	2
Male Citizen Scientist	53	50
Female Citizen	53	50
Date	30 June 2024	15 Jan 2025
Comments		
Output 1.1.i No. of Partnership and Collaborations with the stakeholders in implementing this project		
Value	2	2
Date	30 June 2024	15 Jan 2025
Comments	Project Approval Letter from Bhimeshwor and Barbardiya Municipality received, Approval from Social Welfare Council (SWC) received.	
Output 1.1.ii Number of people participating in inception workshop (by participant category, sex, year, theme, country)		
Value	80 (52 Male and 28 Female)	80 (52 Male & 28 Female)
Date	30 June 2024	15 Jan 2025
Comments	There were 20 participants more than targeted, however, the team ensured at least 35% of Female participants were present.	
Output 1.2. i: No. of low-cost Rainwater gauge		
Value	120	100
Date	30 June 2024	15 Jan 2025
Comments	20 extra manufactured for replacement	
Output 1.2. ii. No. of Water Level Staffs		
Value	50	50
Date	30 June 2024	15 Jan 2025
Comments	50 bamboo staffs for Barbardiya Municipality	
Output 1.2: iii. No. of Web Dashboard visualizing these information		
Value	1	1
Date	30 June 2024	15 Jan 2025
Comments	Link to dashboard: <a href="https://victory.citizensciencenepal.com/">https://victory.citizensciencenepal.com/</a>	
Output 1.3: i. No. of Guidelines developed for the citizen scientists		

Value	1	1
Date	30 June 2024	15 Jan 2025
Comments	Equipment Handling Procedures Completed, Curriculum Plan and Pre-post training Questionnaire developed, Manuals prepared and translated in local language	
Output 1.3: ii. Number of official launch events		
Value	2	2
Date	30 June 2024	15 Jan 2025
Comments	The Official Launch Event at Barbardiya Municipality was organized on 23 <sup>rd</sup> May 2024 while the Official Launch Event at Bhimeshwor Municipality was organized on 30 <sup>th</sup> May 2024.	
Output 1.4: i. Number of Sensitization Events at Ward		
Value	20	20
Date	30 June 2024	15 Jan 2025
Comments	In 20 Wards, ward-level sensitization meetings was organized	
Output 1.4: ii. No. of outreach events at school		
Value	15	15
Date	30 June 2024	15 Jan 2025
Comments	Conducted outreach events at 15 schools orienting 915 students.	
Output 1.4: iii. Number of people trained in Mapathon (online)		
Value	44	20
Date	30 June 2024	15 Jan 2025
Comments	It was planned for 20 participants, however, based on the increased participation request, 44 participants (28 Male, 16 Female) were invited for the training.	
Output 1.4: iv. Number of citizen scientist trained (in person)		
Value	106 (53 Male and 53 Female)	100 (50 Male and 50 Female)
Date	30 June 2024	15 Jan 2025
Comments	Two days of CS training was carried out each municipality. 56 Citizen scientists form Barbardiya and 50 Citizen Scientists from Bhimeshwor Municipality were trained in person. 50% of Male and 50% of Female has been deployed.	
Output 1.5: i. No. of Submissions received in the system		
Value	100 Daily precipitation submission	100 daily precipitation submission



Date	30 June 2024	15 Jan 2025
Comments		
Output 1.6: i. No. of Maps and Graphs Visualized in the system		
Value	0	1
Date	30 June 2024	15 Jan 2025
Comments		
Output 1.7: i. Number of local government officials, stakeholders, users and administrators trained/sensitized		
Value	64	30
Date	30 June 2024	15 Jan 2025
Comments	<p>Before the arrival of Monsoon 2024, monsoon preparatory, SOP Preparation and Impact Based forecasting workshop was carried out in two municipalities</p> <p>i. 14-15 June, 2024 in Barbardiya Municipality (17 Male, 7 Female)</p> <p>ii. 17- 18 June, 2024 in Bhimeshwor Municipality (30 Male, 10 Female)</p>	
Output 1.7: ii. Number of Dissemination events		
Value	0	2
Date	30 June 2024	15 Jan 2025



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