

Research Terms of Reference

Humanitarian Situation Monitoring (HSM)

AFG2109

Afghanistan

February 2022
Version 1

REACH Informing
more effective
humanitarian action

1. Executive Summary

Country of intervention	Afghanistan				
Type of Emergency	<input checked="" type="checkbox"/>	Natural disaster	<input checked="" type="checkbox"/>	Conflict	<input type="checkbox"/> Other (<i>specify</i>)
Type of Crisis	<input checked="" type="checkbox"/>	Sudden onset	<input type="checkbox"/>	Slow onset	<input type="checkbox"/> Protracted
Mandating Body/ Agency	United Nations Office for the Coordination of Humanitarian Affairs (OCHA)				
IMPACT Project Code	02- ARI				
Overall Research Timeframe	February 2021 - November 2022				
Research Timeframe	1. Pilot/ training (R1): 13/02/2022		6. Preliminary presentation: N/A		
	2. Data collection started (R1): 21/02/2022		7. Outputs sent for validation (R1): 08/05/2022		
	3. Data collected (R1): 31/03/2022		8. Outputs published (R1): 16/05/2022		
	4. Data analysed (R1): 14/04/2022		9. Final presentation: To be scheduled between 21/04/2022 – 31/05/2022.		
	5. Data and analysis sent for validation (R1): 14/04/2022				
Number of assessments	<input type="checkbox"/>	Single assessment (one cycle)			
	<input checked="" type="checkbox"/>	Multi assessment (more than one cycle) Round 1 (R1): 21/02/2022 – 31/03/2022 Round 2 (R2): August 2022 Round 3 (R3): November 2022			
Humanitarian milestones	Milestone		Deadline		
	<input type="checkbox"/>	Donor plan/strategy	__/__/____		
	<input checked="" type="checkbox"/>	Inter-cluster plan/strategy	16/05/2022 – Multi-Sectoral severity map + Sectoral severity maps ¹ + Formatted analysis to inform emergency operations in the humanitarian response + Situation Overview of multisectoral and sectoral severity analysis at national and districts levels + Key Findings presentation to the Inter-Cluster Coordination Team (ICCT)		
	<input type="checkbox"/>	Cluster plan/strategy	__/__/____		
	<input type="checkbox"/>	NGO platform plan/strategy	__/__/____		
	<input type="checkbox"/>	Other (Specify):	__/__/____		

¹ Education in Emergencies (EiE), Emergency Shelter and NFI (ESNFI), Food Security and Agriculture (FSAC), Health, Nutrition, Protection, and Water, Sanitation, and Hygiene (WASH).

Audience Type & Dissemination	Audience type		Dissemination	
	X Strategic		<input type="checkbox"/> General Product Mailing	
	X Programmatic		X Cluster and Working Group Mailing ²	
	X Operational		X Presentation of Key Findings to ICCT members	
	<input type="checkbox"/> [Other, Specify]		X Website Dissemination (REACH Resource Centre)	
			<input type="checkbox"/> [Other, Specify]	
Detailed dissemination plan required	<input type="checkbox"/>	Yes	X	No
General Objective	To regularly collect and then triangulate information regarding service provision, sectoral needs, and vulnerabilities in Afghan communities to then support geographical and sectoral prioritizations within the 2022 humanitarian response in Afghanistan. ^{3 4} HSM also seeks to complement the mid-year and annual household-level 2022 Whole of Afghanistan Assessments (WoAA 2022s) which assess the multi-sectoral and sectoral needs of target populations in the Humanitarian Needs Overview (HNO).			
Specific Objective(s)	<p>Among assessed settlements in assessed districts, HSM specifically aims to:</p> <ol style="list-style-type: none"> 1. With the complementary analysis from the mid-year WoAA 2022 and annual WoAA 2022, develop a severity index of sectoral needs and composite index of multi-sectoral need to define emergency need and then identify districts in emergency need. 2. Determine service provision gaps that may drive multi-sectoral and sectoral need – with particular attention to emergency need. 3. Determine vulnerabilities (e.g. shock, migration and reliance on unsustainable income sources) and the coping strategies (e.g. debt and child labor) that may drive multi-sectoral and sectoral need – with particular attention to emergency need.⁵ 4. With the complementary analysis from the mid-year WoAA 2022 and annual WoAA 2022, determine multi-sectoral and sectoral needs in assessed settlements in assessed districts – with particular attention to emergency need. 5. Conduct longitudinal analyses to monitor the evolution (e.g. escalations and descalsations) of service provisions, vulnerabilities, and needs (multi-sectoral and sectoral) at national and district levels – with particular attention to the evolution of emergency need. 			
Research Questions	<ol style="list-style-type: none"> 1. What are the service provision gaps in the assessed settlements in assessed districts? 2. What are the vulnerabilities and coping strategies of the assessed settlements in assessed districts? 			

² Accountability for Affected Persons working group (AAPWG), Camp Coordination Camp Management working group (CCCM), Cash and Voucher working group (CVWG), Disability and Inclusion working group (DIWG) EiE, FSAC, Gender in Humanitarian Action (GiHA), Health, Nutrition, Protection and WASH.

³ Assessed services include services directly relevant to the Education in Emergencies (EiE), Emergency Shelter and NFI (ESNFI), Food Security and Agriculture (FSAC), Health, Nutrition, Protection, and Water, Sanitation, and Hygiene (WASH) clusters. This includes educational services, health services and drinking water infrastructure.

⁴ Sectors include the Education in Emergencies (EiE), Emergency Shelter and NFI (ESNFI), Food Security and Agriculture (FSAC), Health, Nutrition, Protection, and Water, Sanitation, and Hygiene (WASH) sectors.

⁵ Shocks can include active conflict, anticipated conflict, pandemics or natural disasters. Natural disasters can include avalanches, earthquakes, floods, heavy snowfall, locusts/pests and persistent lack of rain.

	3. What are the multi-sectoral and sectoral needs of assessed settlements in assessed districts? 4. Based on sectoral and multi-sectoral indices, what is emergency need? And what are the districts and sectors in emergency need? 5. How are service provisions and needs evolving between HSM rounds (February 2022 – November 2022)? 6. What are triggers that could be used to determine areas at risk of acute emergency?																				
Geographic Coverage	All 420 districts across the 34 provinces of Afghanistan																				
Secondary data sources	<u>2021 OCHA Natural Disaster Database</u> <u>Afghanistan: Famine Early Warning System Network (FEWS NET) Projection for October 2021 – January 2022</u> <u>Afghanistan: Integrated Food Security Phase Classification (IPC) Projection for November 2021 – March 2022</u> Displacement Tracking Matrix (DTM) Baseline Mobility Assessment (BMA) (unpublished) OCHA Afghanistan Sectoral Severity Maps <u>Whole of Afghanistan Assessment (WoAA 2022) 2021 Sectoral and Multi-Sectoral Severity analysis</u> <u>2022 Afghanistan Humanitarian Needs Overview (HNO)</u>																				
Population(s)	<table border="1"> <tr> <td><input type="checkbox"/></td><td>IDPs in camp</td> <td><input type="checkbox"/></td><td>IDPs in informal sites</td> </tr> <tr> <td>X</td><td>IDPs in host communities</td> <td><input type="checkbox"/></td><td>IDPs [Other, Specify]</td> </tr> <tr> <td><input type="checkbox"/></td><td>Refugees in camp</td> <td><input type="checkbox"/></td><td>Refugees in informal sites</td> </tr> <tr> <td>X</td><td>Refugees in host communities</td> <td><input type="checkbox"/></td><td>Refugees [Other, Specify]</td> </tr> <tr> <td>X</td><td>Host communities</td> <td>X</td><td>Populations in emergency need ⁶</td> </tr> </table>	<input type="checkbox"/>	IDPs in camp	<input type="checkbox"/>	IDPs in informal sites	X	IDPs in host communities	<input type="checkbox"/>	IDPs [Other, Specify]	<input type="checkbox"/>	Refugees in camp	<input type="checkbox"/>	Refugees in informal sites	X	Refugees in host communities	<input type="checkbox"/>	Refugees [Other, Specify]	X	Host communities	X	Populations in emergency need ⁶
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⁶ The ultimate population of interest are the communities in districts found to be in emergency need. However, for Round 1 from February 2022 – March 2022, HSM will cover all districts in all 34 provinces of Afghanistan to provide a baseline. Households in these districts may include cross-border returnee households, IDPs households, host households and Pakistani refugee households. In future rounds, HSM may adapt this methodology to accommodate changes within the response (including changes in target population groups or geographical access) in-country. If changes are substantial, a methodology note will be drafted and appended to this ToR.

⁷ Comparisons between provinces will be between non-representative data.

Expected ouput type(s)	<input type="checkbox"/>	Situation overview #: __	<input type="checkbox"/>	Report #: __	<input type="checkbox"/>	Profile #: __
	<input type="checkbox"/>	Presentation (Preliminary findings) #: __	X	Presentation (Final) #: 1	X	Situational Overview #: 1 sectoral needs and service gaps at national and district levels covering EiE, ES-NFI, FSAC, Health, Nutrition, Protection, and WASH findings
	<input type="checkbox"/>	Interactive dashboard #:_	<input type="checkbox"/>	Webmap #: __	X	Map #: 7 service gaps and sectoral needs at province level for EiE, ES-NFI, FSAC, Health, Nutrition, Protection, and WASH
	X	Formatted Analysis #: 1 Service gaps and sectoral needs at national and district levels for EiE, ES-NFI, FSAC, Health, Nutrition, Protection, and WASH				
Access	X	Public (available on REACH resource center and other humanitarian platforms)				
	<input type="checkbox"/>	Restricted (bilateral dissemination only upon agreed dissemination list, no planned publication on REACH or other platforms at this stage)				
Visibility <i>Specify which logos should be on outputs</i>	REACH					
	Donor: US Bureau for Humanitarian Aid (BHA)					
	Coordination Framework: OCHA					
	Partners: N/A					

2. Rationale

2.1 Background

Endemic poverty and decades of conflict have converged with COVID-19, natural disasters, and recent changes in governance to generate disparate needs and vulnerabilities within Afghanistan. The [year-on-year increase](#), from 17.7 million in 2021 to 22.1 million in 2022, in the projected number of people in acute and multi-sectoral need highlights the overall necessity for the identification of priority areas that urgently require humanitarian assistance via joint multi-sectoral analysis.

With the recent political-economical shifts in-country, average incomes are estimated to be decreasing whilst prices of key goods, especially food items, are increasing, driving the risk of greater food insecurity and/or debt accumulation. The [Whole of Afghanistan Assessment \(WoAA 2022\) 2021](#) reported that 68% of assessed households said that they had earned a lower income than usual in the 30 days prior (compared to 40% in WoAA 2022 2020). Separately, the Joint Market Monitoring Initiative (JMMI) reported that the average food basket price escalated by [7%](#) between June 2021 and November 2021. [WoAA 2022 2021](#), collected from August 2021 – October 2021, also reported that more than half of all households reportedly struggled to obtain food or money to buy food and at least a third (37%) were found to have 'Poor' Food Consumption Scores (FCS) – compared to 23% of all households in WoAA 2022 2020.

Following the official onset of drought in June 2021, 80% of the country remains in severe or serious drought. Drought, particularly among [rural](#) communities reliant on agriculture and livestock as key income sources, is driving economic precarity and food insecurity. [WoAA 2022 2021](#) found that drought-affected households more frequently reported loss of income (81% compared to 67% non-drought affected), lack of access to food, and wider use of emergency coping strategies compared to non-drought affected households (57% compared to 37%). It is likely that natural disasters will continue to drive need - the [Notre Dame Global Adaptation Index](#) ranks Afghanistan as the 11th least prepared country against climatic shocks

and the 10th most vulnerable country in the world to climate change. The Food and Agriculture Organization of the United Nations (FAO) is planning for [recurrent droughts into 2030](#).

The rapidity with which humanitarian needs are subsequently expected to evolve calls for analysis at regular intervals to support geographical and sectoral prioritizations within the humanitarian response in Afghanistan.

2.2 Intended impact

HSM seeks to inform both the geographical and sectoral prioritization of emergency needs and any subsequent emergency interventions by actors in the response – including OCHA and clusters – by monitoring the evolution of service gap provisions, vulnerabilities, coping strategies and needs of assessed settlements in assessed districts. HSM would complement both the mid-year and annual household-level 2022 Whole of Afghanistan Assessments (WoAAs 2022) by filling in information gaps on a regular basis.

3. Methodology

3.1 Methodology overview

HSM Round 1 will assess all 420 districts in all 34 provinces in Afghanistan. In future rounds, HSM may adapt to accommodate changes within the response (including changes in target population groups or geographical access) in-country. If changes are substantial, a methodology note will be drafted and appended to this ToR.

Enumerators will conduct approximately 10,189 face-to-face or area of knowledge (AoK) Key Informant Interviews (KIIs), according to accessibility levels across all districts in all 34 provinces of Afghanistan. KI networks will be developed through a snowballing approach to cover the entirety of the selected districts, stratifying each district's network by basic service unit (BSU)⁸ to ensure a minimum of 3 KIs per BSU, each with information covering a different settlement than the others⁹ and a minimum of 10% of settlements covered per district.

The structured questionnaire covers service provisions, leadership structures and sectoral needs at the settlement level. The questionnaire aims to ensure complementarity with the annual, household-level [Whole of Afghanistan Assessment](#) (WoAA 2022).

Population of interest

The ultimate population of interest are the settlements in districts found to be in emergency need. However, for Round 1 from February 2022 – March 2022, HSM will assess settlements in all 420 districts in all 34 provinces of Afghanistan to provide a baseline. In future rounds, HSM will adapt this methodology to accommodate both changes within the response (including changes in target population groups or geographical access) in-country and to re-assess districts found to be in emergency need during Round 1. A methodology note will then be drafted and appended to this ToR.

3.2 Secondary data review

To triangulate against HSM findings and inform REACH-designed sectoral and multi-sectoral need indices, HSM will rely on the following secondary data sources:

- [2021 OCHA Natural Disaster Database](#)
- [Afghanistan: Famine Early Warning System Network \(FEWS NET\) Projection for October 2021 – January 2022](#)
- [Afghanistan: Integrated Food Security Phase Classification \(IPC\) Projection for November 2021 – March 2022](#)
- [International Office of Migration \(IOM\) Emergency Events Tracking \(EET\)](#)
- OCHA Afghanistan Sectoral Severity Maps
- [Whole of Afghanistan Assessment 2021 Sectoral and Multi-Sectoral Severity analysis](#)
- [2022 Afghanistan Humanitarian Needs Overview \(HNO\)](#)
- [WorldPop Database](#)

⁸ BSUs are defined as economic and geographic service units, each of which representing settlements and populations with similar levels of service access and humanitarian needs.

⁹ Unless less than 3 settlements are present within the BSU.

3.3 Primary Data Collection

HSM will rely on an adaption of the [Hard to Reach \(HtR\)](#) methodology. At least three key informant interviews (KIIs), reporting each on a different settlement, are conducted in each Basic Service Unit (BSU). To determine a BSU, face-to-face participatory mapping of settlements and services available are conducted prior to data collection by REACH enumerators with community leaders. Key informants (KIs), e.g. community leaders, teachers, doctors – individuals with extensive knowledge of the basic services and humanitarian needs within assessed settlements, are identified by enumerators through local councils during the participatory mapping process. REACH has mapped every BSU in every district in every province of Afghanistan as of January 2022.

Once an initial KI is identified during the participatory mapping process, a district network of KIs is subsequently developed via the snowballing approach. KIIs will be conducted in person by enumerators (with the oversight of regionally-based Senior Field Officers). When access constraints will prevent in-person interviews, interviews will be conducted with former residents with current knowledge of the settlement that they are reporting on by enumerators (with the oversight of regionally-based Senior Field Officers). This knowledge may draw from either regular contact with households in the assessed settlement and/or their departure was within 3 months of data collection (Area of Knowledge methodology).

Prior to data collection, REACH field teams will be piloting the tool and a training of enumerators will take place to ensure that all parties are familiar with the tool and the application (Kobo tool) used for data collection. Following SFO and enumerator trainings, data collection will be from 21 Feb – 31 Mar. Each enumerator will collect between 5 – 7 KIIs per day with a total of 218 KIIs per day.

3.4 Data Processing & Analysis

Throughout data collection, data cleaning and verification will take place daily. Feedback will be provided directly to REACH Senior Field Officers (SFOs) by the REACH Operations Program Manager. REACH SFOs will then inform the province REACH supervisor overseeing the data collection team or inform the data collection team directly. Data quality checking using the [IMPACT Data Cleaning Minimum Standards Checklist](#) will be used to outline the process and criteria for data deletion and determine staff responsibilities. Data cleaning will focus on identifying outliers in the data, contradictory or unlikely response options (logical inconsistencies), and suspicious patterns from enumerators. A cleaning log of all changes will be kept and will be available upon request after the REACH publication of datasets. Please refer to Annex 2 for further details.

Relying on R, REACH will draw on the Data Analysis Plan (DAP), sectoral need composites, and multi-sectoral need composites to offer key (indicative) findings of needs at district level, with data weighted based on the numbers of settlement per district. To address the research questions regarding emergency need, REACH will also develop a severity index of sectoral needs and composite index of multi-sectoral need and analyse the evolution of services and need over time. Tabulated analysis at district levels, including sectoral and multi-sectoral analysis relevant to emergency planning as well as and a multi-sectoral severity map, and an overall national overview will then be drafted and presented to OCHA and clusters.

4. Key ethical considerations and related risks

The proposed research design meets / does not meet the following criteria:

<i>The proposed research design...</i>	<i>Yes/ No</i>	<i>Details if no (including mitigation)</i>
... Has been coordinated with relevant stakeholders to avoid unnecessary duplication of data collection efforts?	Yes	
... Respects respondents, their rights and dignity (<i>specifically by: seeking informed consent, designing length of survey/ discussion while being considerate of participants' time, ensuring accurate reporting of information provided</i>)?	Yes	

... Does not expose data collectors to any risks as a direct result of participation in data collection?	Yes	
... Does not expose respondents / their communities to any risks as a direct result of participation in data collection?	Yes	
... Does not involve collecting information on specific topics which may be stressful and/ or re-traumatising for research participants (both respondents and data collectors)?	Yes	
... Does not involve data collection with minors i.e. anyone less than 18 years old?	Yes	
... Does not involve data collection with other vulnerable groups e.g. persons with disabilities, victims/ survivors of protection incidents, etc.?	No	While vulnerable groups are not explicitly interviewed for this assessment, it is possible that vulnerable individuals may be interviewed. Enumerators are prepared and trained for this.
... Follows IMPACT SOPs for management of personally identifiable information ?	Yes	

5. Roles and responsibilities

Table 3: Description of roles and responsibilities

<i>Task Description</i>	<i>Responsible</i>	<i>Accountable</i>	<i>Consulted</i>	<i>Informed</i>
<i>Research design</i>	Assessment Officer (AO)	Research Manager (RM)	IMPACT HQ – Research Design and Data Unit (RDDU)	Country Coordinator (CC)
<i>Supervising data collection</i>	Operations Program Manager (PM)	Country Operations Manager (COM)	RM/ IMPACT HQ – RDDU	CC
<i>Data processing (checking, cleaning)</i>	Database Manager (DM)	AO	RM/ IMPACT HQ – RDDU	CC
<i>Data analysis</i>	DM	AO	PM/RM/ IMPACT HQ – RDDU	CC
<i>Output production</i>	AO	RM	PM/DM/IMPACT HQ – Research Reporting Unit (RRU)	CC
<i>Dissemination</i>	AO	RM	IMPACT HQ – RRU	CC
<i>Monitoring & Evaluation</i>	AO	RM	IMPACT HQ – Research	CC

			Department (RD)	
Lessons learned	AO	RM	IMPACT HQ - RD	CC

Responsible: the person(s) who executes the task

Accountable: the person who validates the completion of the task and is accountable of the final output or milestone

Consulted: the person(s) who must be consulted when the task is implemented

Informed: the person(s) who need to be informed when the task is completed

6. Data Analysis Plan

Please see refer to the following [link](#).

7. Data Management Plan

Available on request.

7. Monitoring & Evaluation Plan

IMPACT Objective	External M&E Indicator	Internal M&E Indicator	Focal point	Tool	Will indicator be tracked?
Humanitarian stakeholders are accessing IMPACT products	Number of humanitarian organisations accessing IMPACT services/products	# of downloads of x product from Resource Center	Country request to HQ	User_log	<input checked="" type="checkbox"/> Yes
		# of downloads of x product from Relief Web	Country request to HQ		<input checked="" type="checkbox"/> Yes
		# of downloads of x product from Country level platforms	Country team		<input type="checkbox"/> Yes
	Number of individuals accessing IMPACT services/products	# of page clicks on x product from REACH global newsletter	Country request to HQ		<input type="checkbox"/> Yes
		# of page clicks on x product from country newsletter, sendingBlue, bit.ly	Country team		<input type="checkbox"/> Yes
		# of visits to x webmap/x dashboard	Country request to HQ		<input type="checkbox"/> Yes
IMPACT activities contribute to better program implementation and coordination of the humanitarian response	Number of humanitarian organisations utilizing IMPACT services/products	# references in HPC documents (HNO, SRP, Flash appeals, Cluster/sector strategies)	Country team	Reference_log	Afghanistan HNO and HRP 2022
		# references in single agency documents			OCHA country documents, Cluster-specific documents

Humanitarian stakeholders are using IMPACT products	Humanitarian actors use IMPACT evidence/products as a basis for decision making, aid planning and delivery Number of humanitarian documents (HNO, HRP, cluster/agency strategic plans, etc.) directly informed by IMPACT products	Perceived relevance of IMPACT country-programs	Country team	Usage_Feedback and Usage_Survey template	Usage survey to be conducted at the end of the research cycle related to all outputs, targeting at least 20 partners Usage survey to be conducted at the end of the research cycle related to all outputs, targeting at least 20 partners
		Perceived usefulness and influence of IMPACT outputs			
		Recommendations to strengthen IMPACT programs			
		Perceived capacity of IMPACT staff			
		Perceived quality of outputs/programs			
		Recommendations to strengthen IMPACT programs			
Humanitarian stakeholders are engaged in IMPACT programs throughout the research cycle	Number and/or percentage of humanitarian organizations directly contributing to IMPACT programs (<i>providing resources, participating to presentations, etc.</i>)	# of organisations providing resources (i.e. staff, vehicles, meeting space, budget, etc.) for activity implementation	Country team	Engagement_log	x Yes
		# of organisations/clusters inputting in research design and joint analysis			x Yes
		# of organisations/clusters attending briefings on findings;			x Yes

Annex 1: SAMPLING FRAMEWORK FOR KEY INFORMANT SURVEYS

Province	N° of districts	N° of BSUs	N° of Settlements	N° of KI Interviews
Badakhshan	28	277	2341	831
Badghis	7	68	1443	232
Baghlan	15	126	1851	378
Balkh	16	139	1537	417
Bamyan	8	53	2291	260
Daykundi	9	72	2479	316
Farah	11	58	1597	225
Faryab	14	89	1660	290
Ghazni	19	122	3763	496
Ghor	10	86	2582	310
Helmand	15	143	2456	451
Herat	20	167	2734	527
Jawzjan	11	44	708	146
Kabul	15	80	1307	250
Kandahar	18	145	1960	455
Kapisa	7	37	800	122
Khost	13	63	1544	193
Kunar	16	101	1420	303
Kunduz	10	121	1170	363
Laghman	6	54	946	170
Logar	7	42	892	138
Maidan Wardak	9	65	2277	277
Nangarhar	22	160	2226	483
Nimroz	6	36	697	112
Nuristan	8	46	662	138
Paktika	20	101	1862	320
Paktya	13	65	1578	220
Panjsher	8	39	629	122
Parwan	10	62	1543	207
Samangan	7	60	811	180
Sar-e-Pul	7	42	1003	154
Takhar	17	219	1848	657
Uruzgan	7	52	806	163
Zabul	11	92	1365	283
Total	420	3,126	54,788	10,189

Annex 2: DATA CLEANING STANDARD OPERATING PROCEDURES (SoPs)

Below are the data cleaning standard operating procedures (SoPs) for HSM key informant surveys.

OVERVIEW OF DAILY RESPONSIBILITIES

Program Manager (PM)

- Responsible for communicating security concerns from Senior Field Officers (SFOs) and implementing partners to larger Senior Management Team (SMT), who can then decide on whether or not to change the sampling framework and communicate that to Assessment Officers (AOs) and Database Manager (DM)
- Knowledgeable of AO to SFO communications regarding data cleaning issues via Skype group and e-mails

Senior Field Officers (SFOs)

- Responsibility for Afghanistan regions divided between SFOs, each assigned to contact enumerator team leaders, individual enumerators and/or implementing partners if any issues with the data
- In constant communication between the database manager (DM) and field SFOs / individual enumerators regarding issues with data collection and data quality issues
- Ultimately responsible for progress tracking in google sheets
- Responsible for following up on feedback given to enumerators via google sheets

Database Manager (DM)

- Responsible for downloading, deleting and anonymizing raw data and passing to S/DBOs for cleaning
- Runs daily R data checking script with clean data and raw data from most recent day to identify errors for SFOs to follow up on
- Checks/reviews the logged issues, and then the feedback that will be provided SFOs and AOs by Lead DBO Updates Daily Progress Tracker (HTML)
- Makes final call on survey deletions. Updates deletion columns in online tracking sheets
- Responsible for overseeing changes to sampling framework and adjusting sampling targets accordingly

Lead Database Officer (Lead DBO)

- Responsible for supervising the visual check, split data for visual checks for J/DBOs and consolidate all the visual check results in single file.
- Sends cleaning result to AOs for providing feedback for and follow up on it
- Consolidate all cleaning logs which feedback provided for them

Assessment Officers (AOs)

- Responsible for reviewing cleaning result on daily basis and providing feedback to either DM, SFOs, GISO
- Responsible for compiling all subsequent feedback from DM, SFOs, and GISO and sending to DM
- In communication regarding security or logistical concerns that change sampling framework – communication lead by PM, DM, and SMT

Database Officers (J/DBOs)

- Visually check for patterns in the data in questions to see if there is any evidence of enumerators developing habits of always entering the same values
- DBO's responsible for ensuring **daily backups of their cleaned data** occur and that proper file naming protocol is followed for cleaned data and cleaning log AND cleaning of data at end of data collection
- **DBOs** communicate all data issues to **Lead DBO**, who communicates feedback and issues to responsible **AO** to contact responsible SFO, who contacts field teams and individual enumerators to clarify any issues with the data

Individual Enumerators

- Ensure phones are fully charged prior to next day of data collection
- Ensure phones are set to the correct time and date prior to data collection. Achieved with steps below:
Settings→General management→Date and time→Automatic date and time **AND** Use 24-hour format **ON**
- Collect coordinates and finalize survey after asking final questions
- Upload forms to the kobo server daily
- Enumerator ID is in the format 'organization-province-number' ie. reach-badakhshan-5

GIS Officer (GISO)

- Cross-checks household locations with village selected by enumerator. If location issues or spatial duplicates found, they are to be brought up with DM, who will contact responsible SFO.

Additional information for DBOs:

- We've been automating most of the data processing stages and encourage our DBOs to implement their new ideas for developing this process. In addition, DBOs should familiarize their self with all data cleaning scripts, in particular, translation, replacing cleaning log and pattern check logger, time check and etc.
- DBOs responsible for familiarizing themselves with the constraints of the **kobo data collection tool**
- DBOs to have the **latest version of the kobo tool and this SOP** open to understand each question code
- The column structure must be followed in order
- Any consistent pattern issues related to specific enumerators **should be noted** by DBOs
- Translations from Dari or Pashto first harmonized to match existing categories if possible. If the received option in other has occurred in a ratio of 15% of other options, then it can be a new choice.

DATA PROTECTION

To maintain the safety and security of both respondents and enumerators, the following procedures will be followed:

- Key informant names and phone numbers are deleted from final dataset
- Settlement location, enumerator information and interview times are deleted from final dataset
- Settlement location will be removed from processed raw dataset that is shared among AOs and PM
- Province codes, district codes, and enumerators will be used for raw dataset that is shared among AOs and PM
- Database Manager is the only individual with full access to raw dataset

DELETION OF DATA

- Considering the deletion criteria, the deletion command will be coded in R script to apply on daily data processing
- Database Manager is responsible for deletion of surveys
- Database Manager receives cleaning logs from lead DBO and feedback from GISO, and compiles uuid of surveys to delete from dataset.

Criteria for deletion:

- All surveys completed in under 25 minutes or more than 100 minutes, without reasonable explanation
- All surveys with a pattern match of 90% or higher to another survey
- All surveys with a respondent 17 years of age or younger
- All surveys without consent
- All surveys with 6 or more flags, without reasonable explanation
- Surveys located 5km or more from selected village, without reasonable explanation

DATA CHECKING SUMMARY

A – DUPLICATE CHECKS: PARENT WORKSHEET

Duplicate uuid's should not be present

#	STEP
1.	<p>Duplicate surveys are flagged for deletion.</p> <p>We have already coded this in our data processing script. If there is a duplicate, then interview is DELETED.</p>

B – TIME CHECKS: PARENT WORKSHEET

Survey should take between 30 and 90 minutes

#	STEP
1.	<p>This survey should take maximum between 30 and 90 minutes to complete. 25 minutes and under: Surveys will be DELETED as invalid. Surveys between 30 minutes and 26 minutes will be FLAGGED. Surveys between 90 minutes and 100 minutes will be FLAGGED. Any interviews that are more than 100 minutes are DELETED.</p>
2.	<p>We're using audit files to check the duration of each survey and using R script for doing this operation.</p>

C - TRANSLATIONS FROM DARI / PASHTO

Organization and Village names may be entered in Pashto or Dari

#	QUESTION	ACTION
1.	<p>village_other, organisation_other</p> <p><i>Parent Worksheet</i></p>	<p>'Other' answers, entered initially in Dari or Pashto.</p> <p>Translations from Dari/Pashto done within same cell in the <i>Data Checking</i> Tab. If possible, translations are first harmonized into groups that match existing categories. If answer falls into category that already exists, the 'other' category answer is corrected in the same cell.</p>

D – SPECIFIC QUESTION CHECKS

Parent Worksheet

#	QUESTION	ACTION
1.	<p>reason_idp_displacement</p>	<p>1. Flag if any of the following are selected, but event_conflict is NOT selected for events_one_year:</p> <p>active_conflict</p> <p>anticipated_conflict</p> <p>2. Flag if unemployment_poverty is selected but event_economy is NOT selected for events_one_year</p> <p>3. Flag if "no_food" is selected but hunger_level is "no_hunger" or "small_hunger"</p>

2.	reason_returnee_displacement	<p>1. Flag if any of the following are selected, but event_conflict is NOT selected for events_one_year:</p> <p>active_conflict</p> <p>anticipated_conflict</p> <p>2. Flag if unemployment_poverty is selected but event_economy is NOT selected for events_one_year</p> <p>3. Flag if “no_food” is selected but hunger_level is “no_hunger” or “small_hunger”</p>
3.	forcibly_displaced_why	<p>1. Flag if any of the following are selected, but event_conflict is NOT selected for events_one_year:</p> <p>active_conflict</p> <p>anticipated_conflict</p> <p>2. Flag if unemployment_poverty is selected but event_economy is NOT selected for events_one_year</p> <p>3. Flag if “no_food” is selected but hunger_level is “no_hunger” or “small_hunger”</p>
4.	forcibly_displaced_why_return	Flag if “access_services” is selected but education_available is “no”. Flag if “access_services” is selected but healthcare_available is “no”.
5.	events_one_year	<p>Flag if any of the following are selected:</p> <p>event_earthquake</p> <p>event_flood</p> <p>event_locust</p> <p>event_drought</p> <p>event_snow</p> <p>But not listed at province level in the OCHA 2021 Natural Disaster database</p>
6.	events_one_year	Flag if event_economy but change_employment is “no_hh”
7.	food_access	Flag if “no” but food_price_change is decreased_little OR decreased_lot
8.	hunger_level	Flag if hunger_level is “bad_hunger” or “worst_hunger” but food_price_change is decreased_little OR decreased_lot
9.	coping_mechanisms	Flag if “coping_no” is selected but “no” is selected for food_access
10.	reason_change_farming	<p>Flag if reason_change_farming is event_flood, but events_one_year is not event_flood. Flag if reason_change_farming is event_conflict, but events_one_year is not event_conflict. Flag if reason_change_farming is event_drought, but events_one_year is not event_drought. Flag if reason_change_farming is event_locust, but events_one_year is not event_locust. Flag if reason_change_farming is event_snow, but events_one_year is not event_snow. Flag if reason_change_farming is event_earthquake, but events_one_year is not event_earthquake. Flag if reason_change_farming is event_covid, but events_one_year is not event_covid</p>
11.	reason_change_livestock	<p>Flag if reason_change_livestock is event_flood, but events_one_year is not event_flood. Flag if reason_change_livestock is event_conflict, but events_one_year is not event_conflict. Flag if reason_change_livestock is event_drought, but events_one_year is not event_drought. Flag if reason_change_livestock is event_locust, but events_one_year is not event_locust. Flag if reason_change_livestock is event_snow, but events_one_year is not event_snow. Flag if reason_change_livestock is event_earthquake, but events_one_year is not event_earthquake. Flag if reason_change_livestock is event_covid, but events_one_year is not event_covid</p>
12.	reason_change_employment	<p>Flag if reason_change_employment is event_flood, but events_one_year is not event_flood. Flag if reason_change_employment is event_conflict, but events_one_year is not event_conflict. Flag if reason_change_employment is event_drought, but events_one_year is not event_drought. Flag if reason_change_employment is event_locust, but events_one_year is not event_locust. Flag if reason_change_employment is event_snow, but events_one_year is not event_snow. Flag if reason_change_employment is event_earthquake, but events_one_year is</p>

		not event_earthquake. Flag if reason_change_employment is event_covid, but events_one_year is not event_covid
13.	male_unemployment	Flag if male_unemployment is "all" or many" but event_economy is NOT selected for events_one_year
14.	female_breadwinners	Flag if female_breadwinners is "yes" but female_employment is "no"
15.	women_business	Flag if women_business is "yes" but female_employment is "no"
16.	financial_support	Flag if financial_services is "yes" but financial_support is "no"
17.	reason_debt	Flag if reason_debt is "healthcare_food" but coping_mechanisms is "coping_no"
18.	reason_debt	Flag if reason_debt is "cost_displacement" but proportion_host is "all_hh"
19.	safe_school_commute_girls	Flag if "not_at_all_safe" but gbv_unsafe_place is NOT "unsafe_way_school"
20.	school_equipment	Flag if school_equipment is "yes" but education_issues is "lack_of_equipment".
21.	teachers	Flag if teachers is "yes" but education_issues is "lack_of_teachers".
22.	staff	Flag if staff is "yes" but healthcare_issues is "lack_admin_staff" OR "lack_medical_staff" OR "lack_doctors" OR "lack_midwives" OR "lack_female_staff" OR "lack_specialised_staff"
23.	eviction_why	Flag if eviction_why is "unable_pay" but shelter_tenancy is "own_shelter_doc" or "own_shelter_wdoc"
24.	heating_source	Flag if heating_source is no source, but access_fuel is "no_hh" or "few_hh".
25.	heating_source	Flag if heating_source is electricity, but electricity_avail is "no_hh" or "few_hh".
26.	electricity_hours	Flag if electricity_hours is greater than 8 hours, but electricity_avail is "no_hh" or "few_hh"
27.	child_marriage	Flag if "yes" but "coping_marriage" is not selected for coping_mechanisms
28.	incidents_men OR incidents_women OR incidents_boys OR incidents_girls	Flag if "forced_to_leave" but eviction_risk is "no"
29.	incidents_men OR incidents_women OR incidents_boys OR incidents_girls	Flag if "injured" but mines is "no"
30.	incidents_boys	Flag if "hindered_move" but safe_school_commute_boys is "not_at_all_safe"
31.	incidents_women OR incidents_girls	Flag if "hindered_move" but gbv_unsafe is "no"
32.	gbv_unsafe	Flag if "no" but women_water_access is not_allowed. Flag if "no" but women_health_access is not_allowed. Flag if "no" but women_market_access is not_allowed
33.	gbv_unsafe_place	Flag if "unsafe_water_point" but women_water_access is alone
34.	gbv_unsafe_place	Flag if "unsafe_hospital" but women_health_access is alone

35.	gbv_unsafe_place	Flag if “unsafe_market” but women_market_access is alone
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E – ENUMERATOR PATTERN CHECKS

#	QUESTION	ACTION
1.	Select_one and select_multiple questions	Visual check that individual enumerators are not developing patterns for answers to these questions or answering the same answers for every survey.
2.	proportion_hh and proportion_hh_2	Visual check that individual enumerators are not developing patterns regarding proportions of households.

G – DAILY GIS SPATIAL CHECKS

Detailed summary found in Annex II

#	STEP
1.	Database Manager provides location data of the days' surveys to GIS Officer (GISO) at the end of each day of data collection, in <i>csv format</i> . The following information is included in the spreadsheet exported to the GISO: data collection date, uuid, village code, village name (in kobo format) . It is not necessary to include other fields in the export to the GISO.
2.	GISO loads new points into ArcGIS software, along with a reference shapefile with all villages covered in the assessment. The field ' kobo_code ' in the village reference shapefile will be equivalent to the ' village ' field from the kobo entries. GISO then <i>performs a table join in the kobo points layer</i> using the two matching codes. 2 sets of coordinates will now be present in the attribute table of the kobo points.
3.	GISO check for duplication of coordinates (within 10m) collected in kobo. A summary of duplicate uuid is exported as a table. Surveys with duplicate coordinates are flagged to the Database Manager to flag to SFOs who ensure information reaches individual enumerators
4.	' XY to line ' function used from ArcGIS Toolbox to draw line between the pair of coordinates present in the point attribute table. Surveys greater than 5km and greater than 10km from villages where they are indicated to have taken place are flagged.
5.	GISO exports a report table with uuid, village name, and distance (km) columns for surveys located greater than 5km from indicated village. Uuid's with wrong village assigned are flagged to the Database Manager, and then to regional SFO to discuss with individual enumerators

H – DAILY R SCRIPT FOR RAW DATA CHECK

Producing reports broken by region, the purpose of the daily R script check is to provide guidance to SFOs and DBOs for enumerator follow up and provide an additional check against enumerator error.

R Script incorporates cleaned data as well as raw data from the most recent day of data collection

#	QUESTION	ACTION
1.	progress check	At province level. Shows progress at the province, district, and basic service unit (BSU) level
2.	time checks	Flags surveys with illogical time stamps including an end time that is before the start time, interviews submitted in the future, interviews that are either under 30 minutes or more than 90 minutes .
3.	survey frequency	Flags enumerator productivity in most recent day of data collection. Enumerators with more than 7 surveys per day maybe notified to slow down and interviews may be deleted if number exceeds 7.

ANNEX I

Detailed summary of Sampling Framework Changes

- **Step 1:**
Individual enumerator, team leader, or implementing partner raises security or logistical concern (including active conflict, natural disaster, change in mobile connectivity in area, hostility from local actors etc.) to SFO. PM then alerts DM and SMT.
- **Step 2:**
SFO escalates security or logistical concern to PM.
- **Step 3:**
SMT determines sampling framework change and communicates sampling change to PM, AOs, and DM. Alternatively, PM communicates sampling change to AOs and DM.
- **Step 4:**
DM adjusts sampling framework to accommodate changes.