## 1. Executive Summary

<table>
<thead>
<tr>
<th>Country of intervention</th>
<th>South Sudan</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Emergency</strong></td>
<td>□ Natural disaster</td>
</tr>
<tr>
<td><strong>Type of Crisis</strong></td>
<td>□ Sudden onset</td>
</tr>
<tr>
<td><strong>Mandating Body/Agency</strong></td>
<td>WFP, South Sudan Cash Working Group (CWG)</td>
</tr>
<tr>
<td><strong>Project Code</strong></td>
<td>32AIV 0P7</td>
</tr>
<tr>
<td><strong>Overall Research Timeframe</strong> (from research design to final outputs / M&amp;E)</td>
<td>01/01/2019 to 31/03/2020</td>
</tr>
<tr>
<td><strong>Research Timeframe</strong></td>
<td>1. Start collect data: 01/08/2019</td>
</tr>
<tr>
<td></td>
<td>2. Data collected: 07/08/2019</td>
</tr>
<tr>
<td></td>
<td>3. Data analysed: 14/08/2019</td>
</tr>
<tr>
<td></td>
<td>4. Data sent for validation: 14/08/2019</td>
</tr>
<tr>
<td><strong>Number of assessments</strong></td>
<td>□ Single assessment (one cycle)</td>
</tr>
<tr>
<td><strong>Humanitarian milestones</strong> Specify what will the assessment inform and when e.g. The shelter cluster will use this data to draft its Revised Flash Appeal;</td>
<td>□ Donor plan/strategy</td>
</tr>
<tr>
<td></td>
<td>X Inter-cluster plan/strategy</td>
</tr>
<tr>
<td></td>
<td>X Cluster plan/strategy</td>
</tr>
<tr>
<td></td>
<td>□ NGO platform plan/strategy</td>
</tr>
<tr>
<td></td>
<td>□ Other (Specify):</td>
</tr>
<tr>
<td><strong>Audience Type &amp; Dissemination</strong> Specify who will the assessment inform and how you will disseminate to inform the audience</td>
<td>X Strategic</td>
</tr>
<tr>
<td></td>
<td>X Programmatic</td>
</tr>
<tr>
<td></td>
<td>□ Operational</td>
</tr>
<tr>
<td></td>
<td>□ [Other, Specify]</td>
</tr>
</tbody>
</table>
**South Sudan Joint Market Monitoring Initiative (SSD-JMMI), 29/12/2019**

**X Online dashboard** (new markets dashboard will be created while markets data will simultaneously feed into the already existing INT dashboard)

<table>
<thead>
<tr>
<th>Detailed dissemination plan required</th>
<th>□</th>
<th>Yes</th>
<th>X</th>
<th>No</th>
</tr>
</thead>
</table>

**General Objective**
Inform the Cash Working Group (CWG) on availability and price trends of basic commodities to guide market-based responses in South Sudan

**Specific Objective(s)**
- Understand the market environment in South Sudan
- Track prices and availability of basic commodities on a monthly basis
- Assess impact of conflict, seasonality and inflation on market systems
- Guide and inform the market component of the INT (Integrated Needs Tracking System)

**Research Questions**
- What are the prices of basic food, non-food and livestock commodities in South Sudan?
- What are the geographical price variations and trends over time?
- What are the costs associated with the South Sudan-specific MSSMEB (Multi-Sector Survival Minimum Expenditure Basket)?
- What are the prices of basic services (milling and casual labor)?
- What are traders stock levels? Are traders able to resupply?
- Which challenges do traders face when restocking?
- How (from where and using which modes of transport) are South Sudanese markets supplied and how does this change seasonally?
- What is the status of border crossings and the condition of supply roads?
- How do traders expect prices and availability of basic items to change in the near future?
- Which payment modalities do traders accept?
- What is the degree of market functionality in South Sudanese markets?

**Geographic Coverage**
Depending on capacity of CWG partners; urban and rural marketplaces throughout South Sudan

**Secondary data sources**
- Climis price data
- WFP-VAM price data
- WFP South Sudan market assessments
- FEWSNET

**Population(s)**
Select all that apply
- □ IDPs in camp
- X IDPs in informal sites
- □ IDPs in host communities
- X IDPs [Other, Specify]
- □ Refugees in camp
- □ Refugees in informal sites
- □ Refugees in host communities
- □ Refugees [Other, Specify]
- X Host communities
- □ [Other, Specify]

**Stratification**
Select type(s) and enter number of strata
- □ Geographical #: depending on capacity of IACWG members
- □ Group #: _ _ _ Population size per strata is known?
  - □ Yes □ No
- □ [Other Specify] #: _ _ _ Population size per strata is known?
  - □ Yes □ No

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1 The INT is an information system that aims to provide the South Sudan Need Analysis Working Group (NAWG) and key decision makers with a system that consolidates multiple data sources and critical indicators into one information management system, which feeds into a classification decision tree, endorsed by the four life-saving clusters.

2 The multi-sector survival minimum expenditure basked (MSSMEB) is a culturally adjusted list of goods that represents the minimum amount of money an average South Sudanese household needs to spend each month in order to meet basic needs.
## Data collection tool(s)

<table>
<thead>
<tr>
<th>Population size per strata is known?</th>
<th>Yes X No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structured (Quantitative)</td>
<td>Semi-structured (Qualitative)</td>
</tr>
</tbody>
</table>

### Sampling method

- **Structured data collection tool # 1 (Trader Questionnaire)**
  - X Purposive
  - □ Probability / Simple random
  - □ Probability / Stratified simple random
  - □ Probability / Cluster sampling
  - □ Probability / Stratified cluster sampling
  - □ [Other, Specify]

- **Structured data collection tool # 2 (Feedback Form)**
  - X Purposive
  - □ Probability / Simple random
  - □ Probability / Stratified simple random
  - □ Probability / Cluster sampling
  - □ Probability / Stratified cluster sampling
  - □ [Other, Specify]

### Data collection method

- X Key informant interview (Target #): until minimum threshold of prices is met for each item
  - Group discussion (Target #): _ _ _ _
  - Household interview (Target #): _ _ _ _
  - Individual interview (Target #): _ _ _ _
  - Direct observations (Target #): _ _ _ _
  - □ [Other, Specify] (Target #): _ _ _ _

### Target level of precision if probability sampling

| N/A |
| N/A |

### Data management platform(s)

- X IMPACT
- □ UNHCR
- □ [Other, Specify]

### Expected output type(s)

<table>
<thead>
<tr>
<th>Situation overview: _ _</th>
<th>Report: _ _</th>
<th>Profile: _ _</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation (Preliminary findings): _ _</td>
<td>Presentation (Final): # 8</td>
<td>Factsheet: # 8</td>
</tr>
<tr>
<td>Interactive dashboard: # 1</td>
<td>Webmap: _ _</td>
<td>Map: _ _</td>
</tr>
<tr>
<td>INT update: # 8</td>
<td>Dataset: # 8</td>
<td></td>
</tr>
</tbody>
</table>

### Access

- X Public (available on REACH resource center and other humanitarian platforms)
- □ Restricted (bilateral dissemination only upon agreed dissemination list, no publication on REACH or other platforms)

### Visibility

- X No partner logos appear on the monthly factsheets, though participating agencies are credited on the front page. Only REACH, WFP and CWG logos are included.

### 2. Rationale

#### 2.1. Rationale

Since the onset of fighting in 2013, hundreds of thousands of people have been fleeing the conflict in South Sudan and an estimated 7 million are in need of humanitarian assistance. In addition to the complex displacement dimension, ongoing

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3 UNOCHA, 2018 South Sudan Humanitarian Needs Overview, December 2017
conflict and climatic shocks, which have increased food insecurity, South Sudan has been suffering from a severe economic downturn, price inflation and disrupted supply chains. As a result, access to basic goods and services has become a challenge in some parts of the country as many people struggle with decreasing purchasing power and partially dysfunctional markets to meet basic needs.

To support markets and address needs, humanitarian partners are implementing cash-based interventions (CBI) as an effective means to assist vulnerable households. Not only is the delivery of cash logistically simpler and faster than the delivery of food and non-food items, but transaction costs of cash distributions are substantially lower than those of in-kind, all while boosting local economies and preserving the dignity of beneficiaries. In the current environment of decreasing donor interest, humanitarian organizations operating in South Sudan are increasingly incentivized to prioritize cost-effective means of assistance, such as CBI and voucher distributions. Furthermore, there are pockets throughout the country with functional market systems, while new transfer modalities (e.g. mobile money) and a stabilization of the political and economic environment may reduce operational barriers to CBI.

However, cash-based interventions require supply chains to function properly and to provide basic commodities continuously. Disruptions to the supply chains may affect the availability of basic goods, as well as commodity prices, thus negatively impacting households’ ability to access basic food and non-food items to support their livelihoods. It is therefore critical for the humanitarian community to widen the evidence base and to develop a deeper understanding of the complex market dynamics in South Sudan.

There had previously been no systematic monitoring of the MSSMEB (Multi-Sector Survival Minimum Expenditure Basket) in South Sudan and gaps remain in the existing market monitoring coverage (both geographically and thematically). Some CWG members previously conducted ad hoc price monitoring in their own areas of operation, but were not been able to consolidate or analyze the raw data. Others conducted food price monitoring across South Sudan (WFP-VAM), but did not collect data on the MSSMEB and other non-food items. Hence, there is a need for a joint, multi-sectoral process with dedicated capacity. This research harmonizes data collection efforts and combines resources of humanitarian actors throughout the country, which leads to greater coverage, effectiveness and operational applicability for market monitoring systems for cash actors in South Sudan.

To address the outlined information gaps and consolidate existing data collection efforts, REACH works in close collaboration with the Cash Working Group (CWG) to launch and coordinate the South Sudan Joint Market Monitoring Initiative (SSD-JMMI). These activities further build the foundation for CBI in the South Sudan response, and create a platform in the CWG to discuss critical market dynamics as an integral part of cash feasibility considerations. In addition, the market monitoring data feeds into the Integrated Needs Tracking (INT) system, which aims to provide the South Sudan Need Analysis Working Group (NAWG) and key decision makers with a system that consolidates multiple data sources and critical indicators into one information management system.

3. Methodology

3.1. Methodology overview

The research activity outlined in these ToR is part of an assessment project consisting of two components, both running simultaneously, interlinked and aiming at informing each other:

1) Supply chain analysis through rapid markets assessments (RMA)
2) Monthly market monitoring (in collaboration with the CWG) by establishing the South Sudan Joint Market Monitoring Initiative (SSD-JMMI)

Besides providing a general understanding of the South Sudanese market system, the RMA will provide valuable qualitative data to contextualize the quantitative data from the JMMI. In return, the JMMI will complement findings from the supply chain analysis by contributing longitudinal market data on top of the snapshot data from the RMA. In addition, the data from both components feed into the INT, the markets component of which this project aims to inform.
The market monitoring component, which is subject of these ToR, is a joint initiative with the CWG and its member organizations. As such, the methodology was defined in collaboration with the CWG members.\(^5\) Data collection is based on purposive sampling. REACH consolidates and analyzes data sent in by partners from field locations (depending on partner capacity) through one commonly adapted tool.\(^6\) Market data is collected in 8 monthly cycles and published in the form of monthly factsheets and datasets, as well as an online dashboard.

### 3.2. Secondary data review

Key secondary data source are:

- **WFP**: Existing market assessments from in South Sudan to get a baseline understanding of South Sudanese markets
- **Climis/FAO** price data; to triangulate price data from JMMI
  - [Climis-South Sudan](http://climis-southsudan.org/markets)
- **FEWS NET**: East Africa regional supply chain maps
- **Logistics cluster**: road updates
  - [https://logcluster.org/ops/ssl11a](https://logcluster.org/ops/ssl11a)
- **REACH market briefs**: Existing market data from REACH South Sudan: Soap market assessment from Maban & Ajuong Thok; Market briefs from Akobo, Bentiu, Nyal, Eastern Equatoria, Maban and Northern Bar El Ghazal; for baseline understanding of supply chains
- **REACH AoK data**: The AoK (Area of Knowledge) data will be used for quantitative information on HHs’ market access and constraints.

Furthermore, technical guidance on research design and tools will be derived from the following toolkits:

- **MARKit**: Price Monitoring, Analysis and Response Kit
- **CaLP** guidance documents

Key definitions:

- **Market**: The term ‘market’ refers to a system of exchange between two or more actors or players. The exchange can be for goods or services, or for money […] (CaLP)
- **Marketplace**: A marketplace is where exchanges happen. This is typically a physical place where different wares or goods (and sometimes services) are sold – such as a village or livestock market. (CaLP)
- **Consumer**: Individual that purchases goods for consumption
- **Trader**: Individual/entity that supplies consumer goods in exchange for currency and/or credit.
- **Retailer**: Trader selling to consumers
- **Wholesaler**: Trader selling to other traders
- **Retail price**: The monetary value at which goods and services are exchanged at the end of the retail chain i.e. between the seller and the final consumer. (CaLP)
- **MSSMAB**: The multi-sector survival minimum expenditure basket (MSSMAB) is a culturally adjusted list of goods that represents the minimum amount of money an average South Sudanese household needs to spend each month in order to meet basic needs.

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\(^5\) The South Sudan JMMI is based on previous joint market monitoring initiatives in other humanitarian contexts, such as [Syria, Iraq, Libya, Yemen, Somalia](https://www.reach-initiative.org) and [Central African Republic](https://www.reach-initiative.org).

\(^6\) REACH collects data in four locations.
3.3. Primary Data Collection

**Coordination**

The JMMI is a joint exercise led by REACH in close collaboration with the CWG and its members, who collect data in their respective field bases on voluntary basis. As such, the scope and coverage of the JMMI largely depend on the interest and capacity of the CWG members to participate. To ensure activities are implemented with full consultation, buy-in and to the benefit of CWG members, the JMMI Technical Working Group (JMMI-TWG), which is the decision-making body and guiding the initiative, was formed in July 2019. Its objective is to support the design and successful implementation of the initiative, as well as to build technical consensus.

Members of the JMMI-TWG are REACH (as lead of the JMMI), the CWG-leads, WFP-VAM (advisor) as well as partner organizations contributing to the initiative. The JMMI-TWG agrees on the key pillars of the initiative, such as methodology, data collection tools, item list, coverage, visibility, ownership of data etc.

**Sampling**

**Frequency**

Data collection takes place on a monthly basis. Organizations with interest and capacity may collect data on a bi-weekly basis from their locations if they wish to do so.

In each round, data collection takes place for a period of one week, which is scheduled for the first 7 days (1st to 7th) of each month. Field teams are advised to collect data on the weekly market day (if such exists), and otherwise prioritize data collection for the first 1-2 days within the 7-day period.

All data from a marketplace needs to be collected on the same day (for efficiency and consistency reasons). Once all data is collected, there is no need to return to the marketplace on subsequent days within the data collection period to repeat the exercise.

**Coverage**

The JMMI aims to cover marketplaces throughout all states of South Sudan, in both urban and rural settings. Geographical coverage depends on the CWG member's capacity and interest to contribute to the initiative, as well as regular access to marketplaces. As such, locations are added to the coverage when partners offer to collect data. Initially, the TWG planned to include partners with a strong commitment to cash programming. After the initiative was launched successfully and coverage stabilized, national cash partners, as well as organizations from the food security & livelihoods (FSL), WASH and shelter/NFI clusters were invited to join the JMMI.

**Marketplace selection**

In order to accommodate for the intricacies of South Sudan, the marketplace definition is kept deliberately vague. What constitutes a marketplace is defined on a case to case basis.

- **Small locations**: In small locations, there is normally only one marketplace, and if there are multiple marketplaces they sometimes sell a different set of items. In this case, the “marketplace” encompassed the entire village. Field teams may only collect from traders within the periphery of the village.
- **Large locations**: In large locations (such as Juba, Wau, Renk) with multiple large marketplaces, specific marketplaces (confined areas) within the cities will be chosen. Focus is put on the main marketplaces, which are commonly known to the local population and field teams.

Per marketplace, only one partner contributes data in each round.7

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7 In small locations, only one partner will contribute at a time. In large locations, multiple partner may contribute from different marketplaces.
**Trader selection**

Per marketplace, multiple traders are surveyed. Based on the knowledge of the local context, field teams identify traders from which prices are monitored. The trader selection is based on the following criteria:

**Retailers:**
- Traders need to be retailers selling directly to consumers. Wholesalers should be avoided unless they commonly also sell directly to consumers.
- Traders selling upmarket goods and expensive brands should be avoided.
- Traders with weight scales should be prioritized for food items. However, traders without weight scales may be interviewed too should the number of traders with scales be low in the marketplace.

**Wholesalers:**
- Traders need to be wholesalers selling food items to other traders in bulk.
- Traders selling upmarket goods and expensive brands should be avoided.
- Traders need to sell in large quantities (in 50/100 kg bags).

To the extent possible, traders should be located in different parts of the marketplace. No restrictions are set for the size of the surveyed traders as consumers typically buy from small as well as large traders.

Per marketplace, at least 4 prices per item need to be collected from different retail traders to ensure quality and consistency of the data (2 for currencies and grinding costs, 5 for casual labor wages, 2 for wholesale food items). Traders need to be visited until the threshold of 4 collected prices is met for each item. If an item is never sold in a specific location, or if an item is seasonally or otherwise unavailable in the entire marketplace, no price data for said item needs to be collected. For consistency reasons, if field teams could not find 4 traders that had a specific item in stock, there is no need to return to the marketplace on subsequent days, even if new supplies may have arrived in the meantime.

To ensure consistency and acceptance for the JMMI, the same traders are visited in every month as far as possible. Should enumerators suspect that a trader indicates inflated prices (in the hope to benefit from humanitarian programming), said trader should be avoided and replaced with another.

**JMMI item list**

The JMMI item list is tracked across all covered locations. It aims to meet the interest of CWG partners. As such, the item list includes a set of commodities that are part of the MSSMEB (multi-sectoral survival minimum expenditure basket) as well as additional items of interest to FSL, WASH, shelter, NFI and protection actors.

The current item list was defined by the JMMI-TWG in July 2019, and may be adjusted in future rounds depending on the needs of the Cash Working Group.

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**Table 1: Composition of the JMMI item list**

<table>
<thead>
<tr>
<th>Food items:</th>
<th>Non-food items (NFIs):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sorghum grain</td>
<td>Beans</td>
</tr>
<tr>
<td>Maize grain</td>
<td>Sugar</td>
</tr>
<tr>
<td>Wheat flour</td>
<td>Salt</td>
</tr>
<tr>
<td>Rice</td>
<td>Cooking oil</td>
</tr>
<tr>
<td>Groundnuts (shelled)</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Soap (bar)</td>
<td>Cooking pot (medium sized)</td>
</tr>
<tr>
<td>Jerrycan (20 L)</td>
<td>Plastic sheet (6x4 m)</td>
</tr>
<tr>
<td>Mosquito net (medium sized)</td>
<td>Pole (local, medium length)</td>
</tr>
<tr>
<td>Exercise book (A5-sized)</td>
<td>Firewood (bundle for 3 days)</td>
</tr>
</tbody>
</table>
South Sudan Joint Market Monitoring Initiative (SSD-JMMI), 29/12/2019

<table>
<thead>
<tr>
<th>Livestock:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Goat (male, adult, medium sized)</td>
<td>Chicken (cock, medium sized)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Currencies:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>US dollar (USD)</td>
<td>Kenyan shilling (KES)*</td>
</tr>
<tr>
<td>Sudanese pound (SDG)*</td>
<td>Congolese franc (CDF)*</td>
</tr>
<tr>
<td>Ethiopian Birr (ETB)*</td>
<td>Central African CFA franc (XAF)*</td>
</tr>
<tr>
<td>Ugandan shilling (UGX)*</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Services:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Milling costs</td>
<td>Casual labor wage (unskilled, daily rate)</td>
</tr>
</tbody>
</table>

*only in border areas with foreign currencies in circulation*

In each round and from all covered marketplace, JMMI partners collect data on the full item list. If a partner has a particular interest in an item beyond the JMMI basket, they may collect additional data in locations where they contribute to the initiative.

If there are different types for certain items (e.g. feterita vs. brown sorghum grain), data is collected on only the cheapest type available in the marketplace, which is in line with the purpose of the minimum expenditure basket. No data is collected on branded food items nor items distributed by humanitarian organizations (e.g. plastic sheets) as these tend to be more expensive (unless these are the only types available in the marketplace).

NFIs are particularly challenging to standardize as they vary significantly in terms of types and specifications. The JMMI methodology aims to balance consistency and comparability considerations (precise definition needed) with geographical variations in availability (loose definition needed). The specifications for NFIs are found in Table 1.

Unit standardization

Retail

As vulnerable populations cannot afford to buy large quantities (e.g. 50 kg bag), the retail prices are recorded for small quantities (e.g. 1 kg). Retailers most commonly sell dry food items (e.g. sorghum, sugar) in mugs, malwas and bags of various sizes. Each of those units create certain challenges in terms of measurement error and data quality as they are defined by volume rather than weight. To standardize units for food items and to guarantee consistency across traders, locations and time, the following logic is followed by the field teams:

1) **Scale**: If the trader owns a scale, the price per kilogram is recorded. Traders with weight scales should be prioritized. Traders without scales are avoided if others in the marketplace own one.

2) **JMMI mug**: If traders in a marketplace do not own scales, field teams bring the official JMMI mug (542 ml) to the marketplace and ask traders how much it would cost to fill it up (without heaping).

3) **Bottle**: Field team which have not received a JMMI mug yet may instead use a soda bottle (500 ml) with the bottom cut off.

4) **Pre-packaged**: If an items is commonly sold in pre-packaged form (e.g. 200 g of lentils, 2 kg of rice), the price per package is recorded.

To convert volume retail prices into kilogram retail prices, the following steps are undertaken for dry food items:

1) For each food commodity on the item list, the density is measured at Konyokonyo market in Juba on bi-annual basis using a weight scale and a measuring cup. See Table 2 for the latest density values.

2) For each unit, the volume is multiplied with the density of the respective food item to calculate the corresponding weight equivalent.

3) The weight is then normalized to 1 kg. All subsequent analysis is done with the kilogram price.
Table 2: Density of dry food items (as measured at Konyokonyo, Juba, in March 2019)

<table>
<thead>
<tr>
<th>Item</th>
<th>Density (g/ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sorghum grain (feterita)</td>
<td>0.916</td>
</tr>
<tr>
<td>Sorghum grain (brown)</td>
<td>0.735</td>
</tr>
<tr>
<td>Sorghum grain (mixed)</td>
<td>0.825</td>
</tr>
<tr>
<td>Sorghum grain (mayo)</td>
<td>0.781</td>
</tr>
<tr>
<td>Maize grain</td>
<td>0.772</td>
</tr>
<tr>
<td>Wheat flour</td>
<td>0.655</td>
</tr>
<tr>
<td>Rice</td>
<td>0.819</td>
</tr>
<tr>
<td>Groundnuts (shelled)</td>
<td>0.661</td>
</tr>
<tr>
<td>Beans</td>
<td>0.832</td>
</tr>
<tr>
<td>Sugar (brown)</td>
<td>0.859</td>
</tr>
<tr>
<td>Sugar (white)</td>
<td>0.907</td>
</tr>
<tr>
<td>Salt</td>
<td>1.361</td>
</tr>
<tr>
<td>Charcoal</td>
<td>0.301</td>
</tr>
</tbody>
</table>

Wholesale
For wholesale prices, 50 kg bags are used as reference units.

3.4. Data Processing & Analysis

Mobile data collection
In order to effectively scale up the initiative and to efficiently process the collected data, data is collected through mobile devices using the KoBo platform. A new set of forms is uploaded each month to the designated JMMI account. Field teams have access to the account to download the KoBo forms and upload all completed surveys. They use these KoBo forms to interview traders and record their responses using the ODK Collect Android offline mobile app on their phones. All data needs to be uploaded via ODK Collect by the end of the data collection period. No paper form submissions are accepted.

Data collection tools
Two tools are used to collect the market data: (1) Trader questionnaire and (2) feedback from.

Trader questionnaire
The trader questionnaire is the basic tool used to interviews with traders. A separate form needs to be filled in for each surveyed trader.

Data on the following indicators is collected for each item on the JMMI basket:

- Availability8 – available / limited / unavailable
- Type9 – select category
- Price10 – in SSP, SDG, ETB, UGX or KES
- Current ability to restock11 – yes / no
- Restocked in last 30 days11 – yes / no
- Stock levels11 – number of days until depletion of stock assuming no restocking and normal demand
- Availability expectations (3 months)12 – available / limited / unavailable

8 Not collected for services.
9 Only for sorghum flour, beans, sugar, cooking oil and soap.
10 Price can be recorded in SSP, SDG, ETB and UGX.
11 Indicator not collected for poles, firewood, charcoal, livestock, currencies and services.
12 Only collected for sorghum grain, maize grain, beans and sugar
- Price expectations (3 months) – increase / decrease / no change

Data on the following indicators are collected per surveyed trader:

- Location of main staple cereal/non-cereal food/NFI supplier – select location
- Mode of transport use for restocking – select option
- Main challenges when restocking – select option
- Time needed to restock staple cereals, non-cereal food items and NFIs – in number of days
- Condition of supply road – open / restricted / closed
- Status of nearby border crossings – open / restricted / closed
- Accepted payment modalities – select from list
- Overall food price expectations in next 3 months – increase / decrease / no change
- Overall NFI price expectations in next 3 months – increase / decrease / no change
- Major anticipated challenges in next 3 months – open-ended

If a partner has a particular interest in indicators beyond the above list, additional indicators are added for the specific locations where said partner contributes to the initiative.

Feedback tool

In an effort to gather regular feedback on the JMMI process from field teams and to collect data on the marketplace level (as opposed to trader level), a separate tool is created. The feedback tool is filled in once per marketplace, after data collection is completed. Taking advantage of their contextual knowledge and in-depth knowledge of the local marketplace, field teams serve as key informants and answer the questions in the feedback form themselves.

Data on the following indicators on the marketplace level is collected:

- Availability of items – select from list
- Regularity of staple cereals being unavailable in entire marketplace in last month – always / frequently / sometimes / never
- Significant price changes in last month – none / increase / decrease
- Reason for significant price changes – open-ended
- Seasonal/yearly change in number of traders – much lower / lower / no change / higher / much higher
- Seasonal/yearly changes in difficulty to resupply – much lower / lower / no change / higher / much higher
- Seasonal/yearly changes in prices – much lower / lower / no change / higher / much higher
- Seasonal/yearly changes in demand – much lower / lower / no change / higher / much higher
- Condition of supply road – open / restricted / closed
- Status of nearby border crossings – open / restricted / closed
- Price and availability expectations – open-ended
- Anticipated major challenges – open-ended

The following data is collected on the JMMI process:

- Challenges faced while collecting data – select from list
- Items with less than 4 prices (and reason for collecting less than 4) – select from list
- Suggestions on how to improve process – open-ended

Data cleaning

To monitor the incoming data, a cleaning and analysis tool is used in order to keep track of data quality and partner submissions. Following each round of data collection, the centralized, raw data is compiled and cleaned, outliers removed and field teams followed up with if needed. In particular, the data will be checked for the following:

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13 Only asked in counties near border crossings.
14 Only collected for food and imported NFIs; If the supplier is located in the same marketplace, the location of the trader’s supplier’s supplier is enquired to gain a better understanding of the supply chains.
• Number of prices per item collected per location (to check if the minimum threshold of 4 prices per item is met)
• Median price per item per location (to check for variation across locations)
• Minimum and maximum price per item per location (to check for variation within locations)
• Outliers (i.e. an item price that is substantially different from others collected in the same month and location)
• Monthly changes in the median price per location (to check for month-on-month variation); Significant price changes (exceeding 50% since previous month) and sudden shortages are further investigated by following up with field teams. Whenever possible, information about the local context is gathered to support qualitative analysis.
• GPS coordinates of entries (to check legitimacy of submitted data)
• Duration of surveys per location (to check legitimacy of submitted data)
• Number of errors/inconsistencies (e.g. modifications/deletions made to clean data) per location
• Indicators to assess partner performance (e.g. missing data points, numbers of cleaning log entries, late submissions etc.)

Following each round of data collection, REACH assessment staff cleans and triangulate the obtained data through four different steps:

1) Comparison of most recently collected data with previous rounds of data to identify inconsistencies;
2) Review of secondary data, such as WFP-VAM and Climis price data.
3) Consultation of field teams and partners in order to cross-check data quality.
4) Contextualization of results based on findings from previous market assessments

Analysis & Aggregation

Aggregation to location level:

As the data is collected on the key informant level, the following steps are undertaken to aggregate the trader level data on the location level:

• **Availability:** Availability is defined categorically (available, limited, unavailable) for each item based on the following logic:
  - If an item is normally available from at least one surveyed trader, it is considered available in the location.
  - Else: If an item is not normally available from any surveyed trader, but is limitedly available from at least one trader, it is considered limitedly available in the location.
  - Else: If none of the above apply, the responses from the feedback form are used. If an item is available according to the feedback form, the item is considered available.
  - Else: If an item is not available from any surveyed trader, and is not available in the location according to the feedback form, it is considered unavailable in the location.

• **Prices:** Using prices collected from individual traders, the median prices are calculated for each item per assessed marketplace (separately for retail and wholesale prices).

• **Stock levels:** For each item, the median stock level across all traders in the marketplace is calculated

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15 New partners receive a brief, individual feedback about their field team’s performances for the first 3 cycles. Typically, new JMMI partners substantially improve the quality of the submitted data after the first three rounds (and especially after the first). Thus, individual feedback may not be necessary once the field teams and partner focal points are more familiar with the methodology of the JMMI. Certain data submissions may be excluded from analysis and not published should the quality be considered too low.
16 Limited: Only very few traders have the item in stock and only in low amounts.
17 It is possible that an item may still be available in a location even though the enumerators did not collect any price data for it (e.g. if field teams are negligent or cannot find a trader selling said item and who accepts to be surveyed).
18 In the context of price analysis, the median is a more useful measure than the mean, as it is not as strongly affected by outliers.
• **Ability to restock**: If at least one trader is able to restock an item, the marketplace aggregate will be “yes”, else “no” (if the item is normally sold at all).

• **Restocked in the last month**: If at least one trader restocked an item in the last month, the marketplace aggregate will be “yes”, else “no”.

• **Restock duration**: The median restock duration across all traders in the marketplace is calculated for food and non-food items.

• **Location of food/NFI supplier**: The most commonly named location is taken as the location of the marketplace’s supply market.

• **Status of border crossing**: The status of the border crossing is defined categorically. The aggregation across surveyed traders follows the following logic:
  - If at least two surveyed traders indicate a border crossing is “open”, the overall response is “open”.
  - Else: If at least two surveyed traders indicate the border crossing is at least “open irregularly”, the overall response is “open irregularly”.
  - Else: If at least two surveyed traders indicate the border crossing is “closed”, the overall response is “closed”.
  - Else: If none of the above apply, responses from the feedback form are used. If at least one field team indicates the border crossing is “open”, the overall response is “open”.
  - Else: If at least one field team indicates the border crossing is “open irregularly”, the overall response is “open irregularly”.
  - Else: If at least one field team indicates the border crossing is “closed”, the overall response is “closed”.
  - Else: If none of the above apply, the overall answer is “no data”.

• **Road conditions**: The road conditions are defined categorically. The aggregation across surveyed traders follows the following logic:
  - If at least two surveyed traders indicate a road segment is “open”, the overall response is “open”.
  - Else: If at least two surveyed traders indicate the road segment is at least “open irregularly”, the overall response is “open irregularly”.
  - Else: If at least two surveyed traders indicate the road segment is “closed”, the overall response is “closed”.
  - Else: If none of the above apply, responses from the feedback form are used. If at least one field team indicates a road segment is “open”, the overall response is “open”.
  - Else: If at least one field team indicates the road segment is “open irregularly”, the overall response is “open irregularly”.
  - Else: If at least one field team indicates the road segments is “closed”, the overall response is “closed”.
  - Else: If none of the above apply, the overall answer is “no data”.

• **Overall food and NFI price expectations (3 months)**: Price expectations are defined categorically (increase, decrease, no change) based on the following logic:
  - If at least two surveyed traders expect a price increase while at least two surveyed traders expect a price decrease, the overall expectation in the location will be “no consensus”.
  - Else: If at least two surveyed traders expect a price increase, the overall expectation in the location is “increase”.
  - Else: If at least two surveyed traders expect a price decrease, the overall expectation in the location is “decrease”.
Multi-Sectoral Survival Minimum Expenditure Basket (MSSMEB):

The JMMI aims to track the MSSMEB across all assessed locations on a monthly basis. The MSSMEB is currently under revision. Once revised, it will be incorporated in the JMMI. In the meantime, the JMMI tracks a subset of the existing MSSMEB. The tracked MSSMEB is composed of all monthly items (as opposed to one-offs), excluding bleach, pencils, rubbers and sharpeners. The weights used to calculate the MSSMEB correspond with quantities in the table below. Sorghum (in Greater Upper Nile and Great Bahr el Ghazal) and maize grain (in Greater Equatoria) prices are used to calculate the cereal component. Likewise, the price of beans is used to calculate the pulse component. The local parallel market exchange rate is used to convert the USD amounts for drugs, school fees and transport into SSP.

<table>
<thead>
<tr>
<th>Category</th>
<th>Item</th>
<th>Total Quantity</th>
<th>Unit</th>
<th>One off/ monthly</th>
<th>Inclusion in JMMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food</td>
<td>Cereal</td>
<td>90</td>
<td>kg</td>
<td>Monthly</td>
<td>Yes (use sorghum/maize grain prices)</td>
</tr>
<tr>
<td>Food</td>
<td>Pulses</td>
<td>9</td>
<td>kg</td>
<td>Monthly</td>
<td>Yes (use bean prices)</td>
</tr>
<tr>
<td>Food</td>
<td>Vegetable oil</td>
<td>6</td>
<td>L</td>
<td>Monthly</td>
<td>Yes (use cooking oil prices)</td>
</tr>
<tr>
<td>Food</td>
<td>Salt</td>
<td>1</td>
<td>kg</td>
<td>Monthly</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-food</td>
<td>Charcoal</td>
<td>1</td>
<td>50 kg bag</td>
<td>Monthly</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-food</td>
<td>Grindings cost</td>
<td>30</td>
<td>kg</td>
<td>Monthly</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-food</td>
<td>Blanket</td>
<td>2</td>
<td>Pcs</td>
<td>One off</td>
<td>No (but in JMMI item list)</td>
</tr>
<tr>
<td>Non-food</td>
<td>Mosquito net</td>
<td>2</td>
<td>Pcs</td>
<td>One off</td>
<td>No (but in JMMI item list)</td>
</tr>
<tr>
<td>Non-food</td>
<td>Kitchen set</td>
<td>1</td>
<td>Pcs</td>
<td>One off</td>
<td>No (but cooking pot in JMMI item list)</td>
</tr>
<tr>
<td>Non-food</td>
<td>Bar soap (200-250 grams)</td>
<td>6</td>
<td>Pcs</td>
<td>Monthly</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-food</td>
<td>Jerry can (20L)</td>
<td>1.5</td>
<td>L</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>Human drugs</td>
<td>2</td>
<td>USD</td>
<td>Monthly</td>
<td>Yes (use local parallel market rate for conversion to SSP)</td>
</tr>
<tr>
<td>Non-food</td>
<td>School fees</td>
<td>3</td>
<td>USD</td>
<td>Monthly</td>
<td>Yes (use local parallel market rate for conversion to SSP)</td>
</tr>
<tr>
<td>Non-food</td>
<td>School material – 4 note books</td>
<td>3</td>
<td>4 Pcs</td>
<td>Monthly</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-food</td>
<td>School material – 2 pencils</td>
<td>3</td>
<td>2 Pcs</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>School material – 2 pens</td>
<td>3</td>
<td>2 Pcs</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>School material – 1 rubber</td>
<td>3</td>
<td>Pcs</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>School material – sharpener</td>
<td>3</td>
<td>Pcs</td>
<td>Monthly</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>Airtime</td>
<td>30</td>
<td>Min</td>
<td>Monthly</td>
<td>Yes, 1 USD monthly</td>
</tr>
<tr>
<td>Non-food</td>
<td>Transport</td>
<td>3</td>
<td>USD</td>
<td>Monthly</td>
<td>Yes (use local parallel market rate for conversion to SSP)</td>
</tr>
<tr>
<td>Non-food</td>
<td>Reusable sanitary pads</td>
<td>4</td>
<td>Pcs</td>
<td>One off</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>Underwear</td>
<td>4</td>
<td>Pcs</td>
<td>One off</td>
<td>No</td>
</tr>
<tr>
<td>Non-food</td>
<td>Kanga</td>
<td>2</td>
<td>Pcs</td>
<td>One off</td>
<td>No</td>
</tr>
</tbody>
</table>
When an item’s median price is not available in a given location – for example, in the event of a market shortage – the missing price is dealt with in one of two ways:

- **Missing price for cereal component (sorghum or maize grain):** Depending on the location, the missing price is imputed by replacing it either with last month’s location price for sorghum or maize grain, or with the location price from a nearby location.
- **Missing price for non-cereal components:** The missing price is imputed by replacing it with the overall country median price.

**Food price index:**

In each location, the food price index is calculated by adding up the median prices of one unit of each monitored food item. As opposed to the MSSMEB, the food price index is less driven by staple cereal prices and more balanced across different food items. If an item is not available in a location, the overall median is used for the calculation of the index.

**Market functionality index (MFI):**

Each assessed location is categorized according to the level of market functionality:

- 3 – Fully functional – (1) many items are available and (2) prices are normal
- 2 – Reduced functionality – *either* (1) many items are unavailable or (2) prices are relatively high
- 1 – Limited functionality – *either* (1) only few items are available or (2) prices are very high or (3) staple cereals are unavailable
- 0 – Dysfunctional – no basic food or non-food items are currently available

The MFI has two components (functionality, and warning), both of which are composed of multiple indicators. First, each of the functionality indicators is classified as 3, 2, 1 or 0 according to the below defined thresholds. Next, the indicator rankings are aggregated to an overall ranking. The indicator classifications are aggregated such that the overall ranking corresponds to the lowest ranked (weakest) individual functionality indicator. A “!” is added to the overall ranking if a warning is triggered by the warning component.

- **Functionality:** This component assesses to what degree the market is currently functional in terms of supplying basic goods. It is built with 7 location-level indicators reflecting availability and price level:

  1. **Availability of staple cereals (sorghum and maize)**
     
     Thresholds:
     
     - 3 – sorghum or maize are available
     - 1 – sorghum and maize are unavailable

  2. **Availability of basic food items (as measured by the number of available food items from the JMMI item list)**
     
     Thresholds:
     
     - 3 – at least 7 food items are available
     - 2 – at least 4 food items are available
     - 1 – at least 1 food item is available
     - 0 – no food items are available

---

19 Given the importance of cereals for the South Sudanese diet, availability of sorghum and maize is a key component of market functionality. If a marketplace is not able to supply these essential goods, then it cannot be considered fully functional.
3. **Availability of basic non-food items (as measured by the number of available non-food items from the JMMI item list)**
   
   Thresholds:
   
   3 – at least 7 non-food items are available  
   2 – at least 3 non-food items are available  
   1 – less than 3 non-food items are available

4. **Diversity of available food items (as measured by number of available food items from a list of 28 food items)**
   
   Thresholds:
   
   3 – at least 20 food items are available
   2 – at least 8 food items are available
   1 – at least 1 food item is available
   0 – no food items are available

5. **Diversity of available non-food items (as measured by the number of available non-food items from a list of 21 non-food items)**
   
   Thresholds:
   
   3 – at least 12 non-food items are available
   2 – at least 5 non-food items are available
   1 – less than 5 non-food items are available

6. **Price level of the food price index (relative to the overall country median)**
   
   Thresholds:
   
   3 – maximum 25% above country median
   2 – more than 25% and maximum 50% above country median
   1 – more than 50% above country median

7. **Price level of the MSSMEB (relative to the overall country median)**
   
   Thresholds:
   
   3 – maximum 25% above country median
   2 – more than 25% and maximum 50% above country median
   1 – more than 50% above country median

---

**Warning**: This component assesses whether a market is prone to facing severe functionality challenges in the near future. If triggered, a “!” is added to the overall ranking. The warning component is built with 2 indicators:

1. **Current ability of traders to restock staple cereals (sorghum and maize)**
   
   Threshold:
   
   ! – unable to restock sorghum and maize grain or no staple cereal available

2. **Current staple cereal (sorghum and maize) stock levels**
   
   Threshold:
   
   ! – Stock level of sorghum and maize grain below 7 days

---

20 Besides essential food items, people also derive basic non-food items from the market. With decreasing number of basic NFIs, the level of market functionality drops.

21 Besides having essential foods in stock, a functional market should also provide a certain degree of variety. The less variety it provides, the less it is considered functional. The 28 food items taken into account are: Sorghum grain, sorghum flour, maize grain, maize flour, wheat flour, cassava flour, rice, millets, groundnuts, beans, cowpea, lentils, sesame, salt, sugar, cooking oil, milk powder, dried fish, honey, potatoes, okra, onions, tomatoes, bananas, mangos, fresh cow milk, fresh fish and beef meat.

22 The 21 non-food items taken into account are: Soap, jerrycans, buckets, bleach, mosquito nets, exercise book, pens, blankets, clothing, sandals / shoes, cooking pots, cooking utensils, plastic sheets, poles, solar lamps, firewood, charcoal, petrol, diesel, medicine and phone credit.

23 Market functionality not only depends availability of goods but also on their price level. A marketplace, in which prices are elevated to the degree that the local population cannot afford to buy anymore, cannot be considered fully functional.
Regional aggregation:

The following steps are taken to aggregate data on the region level (county, state):

- **Regional prices**: Median price across marketplaces within region.

Missing exchange rate:

If in a location, traders only accept foreign currency and no SSP are in circulation (and therefore no local exchange rate is available), the overall median rate is used for the conversion of prices to SSP.

### 4. Roles and responsibilities

Table 3: Description of roles and responsibilities

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Responsible</th>
<th>Accountable</th>
<th>Consulted</th>
<th>Informed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research design</td>
<td>Assessment Officer (AO)</td>
<td>Assessment Manager (AM)</td>
<td>CWG, HQ</td>
<td>CWG, Headquarters (HQ)</td>
</tr>
<tr>
<td>External Engagement</td>
<td>AO</td>
<td>AM</td>
<td>Country Focal Point (CFP)</td>
<td>CWG</td>
</tr>
<tr>
<td>Data collection tools</td>
<td>AO</td>
<td>AM</td>
<td>CWG, HQ</td>
<td>CWG, HQ</td>
</tr>
<tr>
<td>Coding of tools</td>
<td>AO, GIS officer (GIS)</td>
<td>AM</td>
<td>GIS</td>
<td></td>
</tr>
<tr>
<td>Training of partners</td>
<td>AO, Field Officer (FO)</td>
<td>AM</td>
<td>CWG</td>
<td></td>
</tr>
<tr>
<td>Dashboard</td>
<td>GIS</td>
<td>AO</td>
<td>HQ, AM</td>
<td>CWG</td>
</tr>
<tr>
<td>Coordination of coverage</td>
<td>AO</td>
<td>AM</td>
<td>CWG</td>
<td>CWG</td>
</tr>
<tr>
<td>Supervising data collection</td>
<td>FO</td>
<td>AO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data processing (checking, cleaning)</td>
<td>FO</td>
<td>AO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data analysis</td>
<td>AO</td>
<td>AM</td>
<td>HQ</td>
<td></td>
</tr>
<tr>
<td>Mapping</td>
<td>GIS</td>
<td>AO</td>
<td>HQ</td>
<td></td>
</tr>
<tr>
<td>Output production</td>
<td>AO, FO</td>
<td>AM</td>
<td>HQ</td>
<td>CWG</td>
</tr>
<tr>
<td>Dissemination</td>
<td>CM, AO</td>
<td>AM</td>
<td></td>
<td>CFP</td>
</tr>
</tbody>
</table>
### Monitoring & Evaluation

<table>
<thead>
<tr>
<th>AO: Cash &amp; Markets Assessment Officer; FO: Field Officer; GIS: GIS Officer; AM: Assessment Manager; CM: Communications Manager; CFP: Country Focal Point; HQ: Geneva Headquarters; CWG: Cash Working Group</th>
</tr>
</thead>
</table>

### Lessons learned

| AO | AM | CFP | HQ |

### Donor reporting

| AO | AM | CFP | HQ |

### BFUs

| AO | AM | CFP | HQ, ACTED |

**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

5. **Data Management Plan**

Detailed Data Management Plan is available upon request.
6. Monitoring & Evaluation Plan

<table>
<thead>
<tr>
<th>IMPACT Objective</th>
<th>External M&amp;E Indicator</th>
<th>Internal M&amp;E Indicator</th>
<th>Focal point</th>
<th>Tool</th>
<th>Will indicator be tracked?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanitarian stakeholders are accessing IMPACT products</td>
<td>Number of humanitarian organisations accessing IMPACT services/products</td>
<td># of downloads of x product from Resource Center</td>
<td>Country request to HQ</td>
<td>User_log</td>
<td>X Yes</td>
</tr>
<tr>
<td></td>
<td>Number of individuals accessing IMPACT services/products</td>
<td># of downloads of x product from Relief Web</td>
<td>Country request to HQ</td>
<td>Country team</td>
<td>X Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td># of downloads of x product from Country level platforms</td>
<td>Country request to HQ</td>
<td>Country team</td>
<td>X Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td># of page clicks on x product from REACH global newsletter</td>
<td>Country request to HQ</td>
<td>Country team</td>
<td>X Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td># of page clicks on x product from country newsletter, sendingBlue, bit.ly</td>
<td>Country request to HQ</td>
<td>Country team</td>
<td>X Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td># of visits to x webmap/x dashboard</td>
<td>Country request to HQ</td>
<td>Country team</td>
<td>X Yes</td>
</tr>
<tr>
<td>IMPACT activities contribute to better program implementation and coordination of the humanitarian response</td>
<td>Number of humanitarian organisations utilizing IMPACT services/products</td>
<td># references in HPC documents (HNO, SRP, Flash appeals, Cluster/sector strategies)</td>
<td>Country team</td>
<td>Reference_log</td>
<td>South Sudan HNO 2020</td>
</tr>
<tr>
<td></td>
<td></td>
<td># references in single agency documents</td>
<td>Country team</td>
<td>Reference_log</td>
<td>South Sudan HNO 2020</td>
</tr>
<tr>
<td>Humanitarian stakeholders are using IMPACT products</td>
<td>Humanitarian actors use IMPACT evidence/products as a basis for decision making, aid planning and delivery</td>
<td>Perceived relevance of IMPACT country-programs</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td></td>
<td>Number of humanitarian documents (HNO, HRP, cluster/agency strategic plans, etc.) directly informed by IMPACT products</td>
<td>Perceived usefulness and influence of IMPACT outputs</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Recommendations to strengthen IMPACT programs</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Perceived capacity of IMPACT staff</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Perceived quality of outputs/programs</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Recommendations to strengthen IMPACT programs</td>
<td>Country team</td>
<td>Usage Feedback and Usage Survey template</td>
<td>A usage survey will be conducted after 4 rounds of data collection and upon completion of the project.</td>
</tr>
<tr>
<td>Humanitarian stakeholders are engaged</td>
<td>Number and/or percentage of humanitarian organizations</td>
<td># of organisations providing resources (i.e. staff, vehicles, meeting space, budget, etc.) for activity implementation</td>
<td>Country team</td>
<td>Engagement_log</td>
<td>X Yes</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>in IMPACT programs throughout the research cycle</th>
<th>directly contributing to IMPACT programs (providing resources, participating to presentations, etc.)</th>
<th># of organisations/clusters inputting in research design and joint analysis</th>
<th># of organisations/clusters attending briefings on findings;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>X Yes</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>X Yes</td>
</tr>
</tbody>
</table>