1. **Agriculture: FOOD**

**Food sample**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Food Code | Text  |  Unique identifier of food |
| Food Name | Text | Name of food |
| Form of food |  | Grain, flour shelled, unshelled etc |
| Food Category | Text | Cereals, Oilseeds, Spices, legumes etc |
| **Names for Cereals**1. Maize and maize products (grains, flour, cracked maize)
2. Sorghum and sorghum products (grains, flour),
3. Rice (brown/husked rice, polished rise)
4. Millet (grains, flour)
 | **Names for oilseeds**1. Groundnut/peanuts and products (shelled groundnuts, in-shell groundnuts, peanut butter)
2. Cashew nuts
3. Pistachios
4. Brazil nuts
5. Hazel nuts
 |
| Month of harvest | Text | Month food was harvested |
| Date of collection  |  | Date of food sample collection |
| Storage  |  | Type of storage, open air, roofed  |
| Weight at collection | Text | N/A |
| Unit of sample | Text | N/A |
| Location  | Text | Location(primary entity)  |

**Location**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Country  | Text  | Default field  |
|  | Text |  |
| Ministry/ institution | Text | Ministry or authority in charge |
| Administrative Division | Text | Regional, provisional, county, township, village |
| Agro-ecological zone | Text |  |
| Name of location or village | Text |  |
| Point of collection  | Text | Household, market, field, large scale stores |
| GPS coordinates | Text | GPS |

**Storage facility**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Store no | Text | Identifier of store |
| Food code | Text  | Identifier of food sample |
| Store name | Text | Name of store |
| Type of storage | Text | Storae type, open air, roofed store, granary, - |
| Form of Storage |  | Packaging forms  |
| ~~Duration~~ Date of storage |  | Date food was first stored o estimate period of storage |
| Location  | Text | Location – refer to primary  |

**Sample Analysis**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Sample code  | Text  | Predetermined PACA sample code to ease analysis |
| Food code | Text | Identifier of food |
| Date of collection | Text |  |
| Sample size | Text |  |
| Location | Text |  |
| Name of laboratory  | Text |  |
| Analytical protocol/ method | Text |  |
| Aflatoxin type | Text | 1. Aflatoxin B1 (AFB1)
2. Aflatoxin-Albumin adducts
3. Aflatoxin M1 (AFM1
 |
| Weight of sample at analysis |  |  |
| unit of concentration measurement |  |  |
| Value of concentration |  |  |

1. **Agriculture: FEEDS**

**Feed sample**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Feed Code | Text  |  |
| Feed type | Text |  |
| Feed Category | Text |  |
| season | Text |  |
| Date of collection  |  |  |
| Weight at collection | Text |  |
| Unit of sample | Text |  |
| Location  | Text |  |

**Location**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Country  | Text  |  |
| Sector | Text |  |
| Ministry/ Research institution | Text |  |
| Administrative Division | Text |  |
| Agro-ecological zone | Text |  |
| Name of location or village | Text |  |
| Point of collection  | Text |  |
| GPS coordinates | Text |  |

**Storage**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Store no |  |  |
| Feed code | Text  |  |
| Store name | Text |  |
| Type of storage | Text |  |
| ~~Duration~~ Date of storage |  |  |
| Location  | Text |  |

**Sample Analysis**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Sample code  | Text  |  |
| Feed code | Text |  |
| Date of collection | Text |  |
| Sample size | Text |  |
| Location | Text |  |
| Name of laboratory  | Text |  |
| Analytical platform  | Text |  |
| Aflatoxin type | Text |  |
| Weight of sample at analysis |  |  |
| Concentration unit |  |  |
| Value of concentration |  |  |

1. **Health**
2. **Bio maker Data**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Subject Code | Text  |  |
| Gender  | Text |  |
| Date of birth  | Text |  |
| Date of collection | Text |  |
| Sample size  |  |  |
| Biomarkeroptions/Base | Text | 1. Biomarker base:
	1. Urine
	2. Blood
	3. Milk
	4. Feces
	5. Hair
 |
| Location  | Text |  |

1. **Location**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Country Code | Text  |  |
| Country Name (Parent) |  |  |
|  | Text |  |
| Ministry/ Research institution | Text |  |
| Administrative Division | Text |  |
| Agro-ecological zone | Text |  |
| Name of location or village | Text |  |
| Point of collection  | Text |  |
| GPS coordinates | Text |  |

1. **Sample analysis**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| Subject code |  |  |
| Aflatoxin Biomarker type | Text  | 1. Aflatoxin biomarker types:
	1. Aflatoxin B1 (AFB1)
	2. Aflatoxin-Albumin adducts
	3. Aflatoxin M1 (AFM1)
 |
| Biomarker Base | Text | 1. Biomarker base:
	1. Urine
	2. Blood
	3. Milk
	4. Feces
	5. Hair
 |
| Date of analysis  | Text |  |
| Testing protocol/method | Text |  |
| Aflatoxins Biomarker levels | Text |  |
| Unit of concentration measure | Text |  |
| Location  |  |  |

1. **Diseases/Condition (**Cancer, HIV-AIDs, Hepatitis B-status….etc.)

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Subject code  | Text  |  |
| Diagnosis date | Text |  |
| Results/Disease type /condition type | Text | 1. Aflatoxin related disease/condition type
	1. Liver cancer
	2. HIV
	3. Liver cirrhosis
	4. Growth indicators (weight, height/length , age)
	5. Kwashiorkor
 |
| Gender | Text |  |
| Date of Birth | Text |  |
| Symptoms or signs | Text |  |
| Body weight | Text |  |
| Body height |  |  |
| Health center name |  |  |
| Location | Text |  |

**Consumption pattern - Food Staple (**Extent of consumption of aflatoxin prone crops)

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Subject code  | Text  | Relates to same subject under review |
| Consumed Food type | Text | Provide a questionare with list of food types related t Aflatoxin contamination (Closed ended) |
| Crop base??/ Treatment?? | Text | 1. **Treatment**
	1. Dehulled
	2. Wet milled
	3. Dry milled
	4. Mixture/composite
	5. Ground
	6. Extruded
	7. Boiled
	8. Fried
	9. Roasted
	10. Baked
 |
| Frequency of consumption | Text |  |
| Quantity of consumption | Text | Number of days consumed per week – habitual consumption |
| Food processing method | Text | Quatity of diay consumption per gram |
| Food storage | Text |  |
| Location | Text |  |

**Rate of Childhood Stunting**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Child code  | Text  |  |
| Date of Birth  |  |  |
| Total population ?? | Text |  |
| Percentage of stunted children?? | Text |  |
| Method of consumption | Text |  |
| Food storage | Text |  |
| Location | Text |  |

1. **Trade**

**Aflatoxin standards used**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Standard code  | Text  |  |
| Name of standard |  |  |
| Date of verification  |  |  |
| Food type | Text |  |
| Aflatoxin type tested | Text |  |
| Aflatoxin limit acceptable  | Text |  |
| Unit of concentration measurement | Text |  |
| Location | Text |  |

**Exports Rejections**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Food code  | Text  |  |
| Food type |  |  |
| Date of export |  |  |
| Date of rejection | Text |  |
| Quantity of Exports in (KGs/tonns) | Text |  |
| Border control post | Text |  |
| Name of Authority | Text |  |
| Origin of export |  |  |
| Destination country |  |  |
| Owner of Consignment  |  |  |
| Location | Text |  |

**Imports**

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Food code  | Text  |  |
| Food type |  |  |
| Date of imports |  |  |
| Date of rejection |  |  |
| Origin or Import country |  |  |
|  | Text |  |
| Quantity of imports (tonnes/Kgs) | Text |  |
| Border control post | Text |  |
| Name of Authority | Text |  |
| Owner of consignment |  |  |
| Location | Text |  |

Export Rejections

|  |  |  |
| --- | --- | --- |
| Field | Data type | Description |
| \*Food code  | Text  |  |
| Date of exports |  |  |
| Export country |  |  |
| Trading activity????? | Text |  |
| Volume of imports (tonnes) | Text |  |
| Border control | Text |  |
| Name of Authority | Text |  |
| Estimated revenue |  |  |
| Exporter (private or Govt) |  |  |
| Aflatoxin level |  |  |
| Rejected consignment |  |  |
| Location | Text |  |

* Need to discuss on the year when data should be submitted from
* We may create a simple tool to collect some data for example in doctors
* Socio-economic factors to be considered?? Consider in the annual reports??