MONITORING FORTIFICATION: TANZANIA’S ONLINE DATA CENTRALIZING SYSTEM

Presenter: George Kaishozi/ Erin Smith – Helen Keller
WHO- M&E MODEL FOR FOOD FORTIFICATION

- Raw Food Product
  - National or Imported
  - Internal Monitoring (factories or packers)
  - External Monitoring (factories or packers)
  - Commercial Monitoring
  - Household/Individual monitoring
  - Impact Evaluation

- Vitamin Premix
  - Certificate of Analysis from Manufacturer
  - Quality Control and Quality Assurance at Industry
  - Quality Control and Quality Assurance through TFDA Inspection
  - Market level monitoring by TFDA

- Regulatory Monitoring

- Imported fortified foods
  - TFDA Food Inspectors through verification of documents and Lab based quality checks at border entry points and market level

- Household/Individual Monitoring
  - Household surveillance
A web-based system which consolidates fortification data from Industry and Ports of Entry for the purpose of monitoring coverage and compliance with fortification regulations.
WHAT INDICATORS ARE COLLECTED?

• **Internal and external monitoring at industry level:**
  - Amount of wheat/oil produced and fortified
  - Amount of premixed utilized
  - Percentage of product which is adequately fortified (by internal collection and testing of samples)

• **External Monitoring (TFDA)**
  - Adequacy of fortification (by external collection and testing of samples)
  - Industry Inspections

• **Port of Entry (TFDA/Food Inspectors)**
  - Volume of Oil, Maize, and Wheat Flour imported (MT), Percentage of Samples Collected, Percentage of Samples tested, Percentage of Samples Compliant with Tz. Fortification Regulations,
  - Volume of oil, maize and wheat flour exported

• **A Summary of daily log data is uploaded on a monthly basis.**
<table>
<thead>
<tr>
<th>Element</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of Premix used (g)</td>
<td></td>
</tr>
<tr>
<td>Target - Premix Additional Rate</td>
<td></td>
</tr>
<tr>
<td>Actual - Premix Addition Rate</td>
<td></td>
</tr>
<tr>
<td>Total Wheat flour Produced (MT)</td>
<td></td>
</tr>
<tr>
<td>Total Wheat flour Fortified (MT)</td>
<td></td>
</tr>
<tr>
<td>Number of Wheat Samples Collected</td>
<td></td>
</tr>
<tr>
<td>Number of Wheat Samples Tested</td>
<td></td>
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<tr>
<td>Number of Wheat Samples Complied</td>
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</tbody>
</table>
SYSTEM FUNCTIONALITIES

- **Data entry module:** Data Entry

- **Data quality module:** Checks are built into the system to validate practicality of data as it’s input.

- **Report and analysis module:** Generation of reports.

- **User management and data security module:** Tiered administration to control access to sensitive data.
USER MANAGEMENT & DATA SECURITY

- System allows multiple users to access simultaneously (Web based system)
- Set of defined permission and roles for each system user
- User is only allowed to view data with his/her access only.

![Flowchart diagram](chart.png)
Reporting Window

- Share interpretation

Groups

Search for users, charts, maps, and reports

Data Entry

Data Quality

Data Visualizer

DSM Oil Fortified VS Oil Produced

- DSM Wheat Flour

GIS

Import-Export

Individual Records
Advocating for premix exemption by MOHSH - currently the wheat flour premix and vitamin a is exempted.

MOHSH has been using the data to present the coverage and reach of the national food fortification program during the parliamentary sessions.

TFDA has been using the data to triangulate information's with the Post Marketing Surveillance + Quarterly regulatory Monitoring

TFDA has been using the data when conducting the routine external monitoring visits to the industry implementing the national program.
INFORMATION FLOW

TFNA -> DCS:
- Trainees report
- Consolidated findings

DCS:
- Data entry
- Report generation
- Monthly production
- Fortified food production

TFDA

Industries

HKI

Consolidated findings
THANK YOU.

“Although the world is full of suffering, it is also full of overcoming it.”
-Helen Keller