How to integrate food-fortification programmatic monitoring into government’s overall food control activities?

*Experience with salt fortification in India*
SALT Management Information System (MIS)
Fortification Program Management Platform
Acknowledgements

• Salt Department – Government of India

• Iodine Global Network (Formerly, ICCIDD)

• Micronutrient Initiative (MI)

• The United Nations Children’s Fund (UNICEF)

GAIN-UNICEF Partnership Project USI is funded by Bill & Melinda Gates Foundation
SALT MIS - Conceptual Framework, Built for Horizontal Scaling

SALT-MIS (Management Information System) Application framework is designed to automate processes emanating from various departments within intervention organization.

The Service Oriented Architecture enables the framework to meet complex objectives like maintainability and extensibility and integration with external entities.

The workflow manager and context manager allows for new functional processes to be introduced with minimal information technology re-engineering impact.

Project Healthy Children has designed similar Fort-MIS. GAIN & PHC currently looking together at developing one ‘good practice’ model for the sector.

The product has been built using architecture so as to offer expandability and extensibility of functions, so that new processes and functions can be added to broad base the utilization of software in other diverse use types such as other fortification interventions.
SALT MIS - System Architecture, Service Oriented Architecture

- High level of automation and integration of all business processes leading to decision capable system.
- The data models can be added to the system to accommodate diverse set of data type and sources. This can potentially help in adding new intervention monitoring activities other than salt fortification.
- With minor adjustments, data related to other intervention types can be added to the database by adding newer processes.
Process Transformation Leading to People Transformation ($PT^2$)

- Radical transformation to people in their personal and professional capacities.
- New ways to communicate and operate in IT oriented bigger world around them.
- People transformation via information technology skill enablement ensured early adoption by the officers.
- Train a trainer approach ensured internal capacity building to sustain information technology initiative.
- Process transformation led to people capacity and capability enhancement and hence more efficient environment.
- Efficient ways to communicate with their peers, friends and family.

This has given a whole new dimension to their life – a new way of communication.
SALT MIS - Enabling Delivery of Knowledge for Decision Making and Effective Governance

Business Intelligence platform knowledge outputs enable department to have access to business and operations indicators for policy decision.

Access to quick view knowledge and decision support system – enabling in-time decisions and planning.

Adhoc analytics and specific purpose analytics can be deliver to diverse set of stakeholders which can accelerate the process of intervention and can lead to right set of policy decision in line with set objectives.
National Coverage to Enable Complete Institutional Participation

Pan India network built to enable all resources within salt department and other stakeholders.
SALT MIS - Implementation Goals for Institutional Strengthening

• Institutional Strengthening by way of improved communication system to monitor intervention, geography, quality, production, and logistics

• Real-time monitoring of nutrient production

• Quality compliance, assurance and monitoring

• Real-time weather information to producers

• Production planning and forecasting

• Logistics and transportation planning

• Real-time decision support system

• Automated regulatory and workflow framework

• Automation of support functions

Using workflow system, newer monitoring processes can be added for diverse set of data types. This can also potentially help in consolidating different fortification programs.
SALT MIS - Out of Box Solution

- On-time data availability
- Checks and balances of production, supply and logistics
- Auto consolidation of quality and production data
- Automation of quality test data and communication to salt producers
- Effective governance and policy decision
- Work and capability balance
- Internal capacity and capability enhancement
- Capability to deliver in-time information and analytics to agencies outside of department
- Department to producers connect seamless and automated
- Access of quality statistics to all key stakeholders

Delivering Organizational Objectives

IT intervention is only means to achieve objective and hence is perpetual in its nature
Thank you

Salt MIS video: 
https://youtu.be/v4whRHOf7SA

Dr Arijit Chakrabarty

achakrabarty@gainhealth.org