## OUR VISION

Providing expert guidance, coordination across stakeholders, and direct technical assistance to support supply chain information systems that allow for evidenced-based decision making, data-driven reporting and visualization, and interoperability across related systems. Through these efforts, helping countries in their journey to self-reliance by creating robust, sustainable, and digitally enabled country supply chains that facilitate end-to-end visibility.

## OUR TECHNICAL APPROACH

Modern, well-functioning Management information systems (MIS) provide an automated technology solution for effective and efficient supply chain operations. Our approach to MIS development and support is based on industry best practices, and sustainable solutions that best meet the context and needs of each supported country healthcare supply chains that rely on these systems to delivery of life-saving health commodities.

The activities supported by the HSS MIS team are designed to combine strong governance and accountability from all stakeholders resulting in sustainable systems, clear technology strategies, improved decision making, and access to information throughout the supply chain.

We seek to:

• **Enable end-to-end data visibility:** Promoting data standardization and interoperability within systems implemented in countries to support timely and sustainable supply chains data collection to allow end-to-end data visibility and evidence-based decision making.

• **Apply industry best practices:** Guide country information system implementation and maintenance strategies in alignment with international standards like GS1, and system engineering best practices for implementing IT solutions, like the System Development Life Cycle (SDLC).

• **Transform reporting:** Support national governments to transition from paper-based reporting operation to electronic transactional systems with automated data capture and sharing

• **Integrated information:** Lead the integration of information, to give health professionals at each level and location across the supply chain access to pertinent and appropriate information.

• **Foster partnerships:** Identify and partner with regional/local implementing partners to ideate, co-create, scale and sustain technology-based interventions.

## INNOVATIONS

• Sensor technology, geographic information systems, GS1 standards, the internet of things (IoT) and mobile technologies to improve availability, prevent stockout and deliver commodities to the last mile.

• Supply Chain Information System Maturity Model (SCISMM) tool to assess in-country information system maturity, and help develop a roadmap for system enhancements to optimize information system for the supply chain operations

• Cloud-based advanced data analytics, such as next generation FASP tools and predictive analytics.

• Automated data capture through sensors, geo-fencing, interactive voice reporting, and IoT.

• Easy-to-access data portals and mobile platforms to push information to all supply chain levels

## OUTCOMES

The successful implementation of our approaches will result in supply chain operations that are effective, transparent, efficient, and data driven. Through applying industry best practices and international standards in system development, we help create a sustainable environment for country systems both in the near and long terms.

## ENGAGEMENT OPTIONS

### Enable end-to-end data visibility:

• Establish standardization of master data among systems implemented in country to improve data quality and accuracy to achieve the end-to-end objective.

• Conduct supply chain information system maturity model (SCISMM) assessment to evaluate maturity of the information systems implemented in country and outline the MIS improvement road map to strengthening supply chain operation

• Develop an enabling environment to eliminate in-country data silos

• Leverage data portals and mobile platforms to push pertinent information to all supply chain levels

• Build capacity to sustainably manage increasingly complex data sets (leverage big data technologies, GIS, data visualizations) across the supply chain to enable data-based decision making

## Industry best practices:

• Support the adoption of international standards for product identification

• Help create governance frameworks to sustainably manage complex technology environments across the healthcare supply chain, service delivery, and health information systems

• Develop strategies and roadmaps to ensure technology investments are in alignment with the country's current and future needs

## Enhance reporting:

• Support the digitalization and automation when possible of existing manual and paper-based reporting systems

• Develop and implement robust, scalable and sustainable logistics management information systems

• Support the introduction of new innovations such as sensor technology, and leverage mobile capabilities to accelerate data capture and increase visibility at all levels of the healthcare supply chain, especially including at the last mile

## Identify and build local and international resources/communities:

• Leverage international expertise to develop and build local and regional capabilities to support technology interventions