

BUILDING THE NEXT GENERATION OF IMMUNIZATION SUPPLY CHAINS

STRONG SUPPLY CHAINS SAVE LIVES

Strong end-to-end supply chains are the backbone of any successful immunization program. JSI is committed to strengthening the performance of immunization supply chains to support coverage and equity. Our partners depend on us to get the right amount of vaccines, medicines, and other health products and supplies to the people who need them, when they need them, no matter where they live.

With more than 30 years of experience building sustainable supply chain systems and improving immunization programs in more than 55 countries, JSI is a world leader in health supply chain management, introducing new vaccines, and strengthening routine immunization systems and supply chain management. JSI supports government efforts to build the next generation of immunization supply chains (iSCs) by putting in place health information systems to improve end-to-end data visibility helping to install remote temperature monitoring (RTM) devices and analyze the data in order to ensure the quality of vaccines, and using data to model options to improve supply chain performance. This expertise builds on our close engagement with immunization programs around the world, at both national and sub-national levels. Our expertise has also been important in supporting countries to respond to the COVID-19 pandemic, adapting supply chains to respond to the initial disruptions and supporting the planning and implementation of the COVID-19 vaccine introduction.

Areas of Immunization Supply Chain Expertise

JSI tailors solutions to national and local contexts. Our specialists bring technical leadership, program expertise, and deep field experience in:

- Supply chain design, optimization, and strengthening
- Information system design and implementation
- Data use and quality improvement
- New vaccine introduction, including the COVID-19 vaccine
- Team building and capacity development in immunization program and supply chain aspects
- Supply chain assessments, cold chain management, and vaccine storage and delivery
- Community-based delivery, information management, and monitoring

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COUNTRY-LEVEL PROGRAMS

Achieving end-to-end supply chain visibility

JSI is supporting the first scaled digital information systems for vaccines, including:

- In **Ethiopia**, JSI helps deploy the Health Commodities Management Information System (HCMIS), which is integrated with mBrana, a mobile vaccine management solution used at Woreda cold stores that is supporting decisionmakers to analyze and use data.
- In **Malawi**, JSI integrated vaccines into the community-level mobile reporting system, cStock.
- In **Pakistan**, JSI helped to implement and scale the web-based vLMIS to manage vaccines and cold chain equipment data – from national procurement planning to replenishing facilities at the last mile.
- In **Tanzania**, JSI supported the Ministry of Health and Social Welfare's efforts to deploy and scale the automated Vaccine Information Management System (VIMS), and integrating Remote Temperature Monitoring data, tracking programmatic and logistics indicators at all levels.

Expanding the availability and use of temperature data

- In **Tanzania**, JSI is partnering with Nexleaf Analytics to install 5,000 RTM devices, and monitor their use to ensure vaccine potency and performance of the cold chain equipment (CCE).
- In **Kenya**, JSI/inSupply implemented a pilot project to assess whether RTM devices and a structured approach for action-oriented data use facilitate better CCE management to ensure vaccine potency to the last mile.

Promoting a culture of data use

JSI implemented our proven quality improvement (IMPACT team) approach to enhance the routine use of data, including:

- In **Kenya**, JSI/inSupply implemented IMPACT teams in 10 counties, which created a process for reviewing routine data, including developing dashboards with key performance indicators to monitor progress.
- JSI/inSupply is partnering with Expanded Programmes for Immunization (EPI) in **Kenya** and **Tanzania** using a human-

centered design approach to identify barriers and opportunities in vaccines cold chain equipment (CCE) temperature data access, data visibility, and data use for monitoring, actions and decisions across all levels. JSI/inSupply aims to fill gaps related to CCE data use, while building on existing or planned investments by the Ministry of Health-Kenya and Tanzania, and partners towards building a CCE temperature monitoring data use, and establishing ownership and sustainability of CCE data use and decision making at all levels.

- In **Pakistan**, to improve data use, JSI facilitated the adaptation of the VAN model, setting up IMPACT teams at different levels in Sindh province to facilitate the use of data.

Designing next generation supply chains

JSI has tremendous experience supporting immunization programs and designing health supply chains. We are able to build on this expertise to effectively advocate for immunization supply chains, identify emerging trends and develop lasting supply chain solutions at scale.

- As a result of our global agreement with UNICEF, JSI provided analysis and system design services to multiple countries including **Liberia, Niger, Guinea, Sierra Leone, and Madagascar**.
- In **Ethiopia**, JSI conducted network and transport modeling and costing analysis to provide efficient and cost-effective approaches to vaccine distribution. This is part of JSI's support to Ethiopian Pharmaceuticals Supply Agency (EPSA).

Strengthening supply chain management

JSI supports immunization programs through direct technical assistance for supply chain management and linking to program activities:

- In **Niger**, JSI supports the logistics department of the immunization program to plan CCE placement and procurement, monitor CCE performance, improve data quality, reporting and use, support the planning for and introduction of the COVID-19 vaccine, and provide guidance for supervision.
- In **Tanzania**, JSI is an active member of the immunization Logistics Technical Working Group, contributing to supply chain planning and monitoring and linking insight from district level staff involved in both program and supply chain decisions.

GLOBAL ENGAGEMENTS

JSI provides global technical leadership in a number of areas, including:

- Revision of the comprehensive Effective Vaccine Management assessment tool, particularly data for management and CCE modules
- Development of the Immunization Collaborative Supply Planning to triangulate and analyze information to create

and maintain robust and agile supply plans to support decisionmaking for the COVID-19 vaccine.

- Development of recommended indicators to measure immunization supply chain performance at the country level (Guidance for Dashboards for Immunization Supply Chains)
- Contributing to the development of and monitoring progress against Gavi's Immunization Supply Chain Strategy

