

Health Analytics, Strategy, and Learning



Connecting **people, data, and ideas**
to strengthen health systems

Photo courtesy of Robin Hammond

John Snow, Inc. (JSI) is an industry leader in designing and implementing data-led public health programs. We frame our research, monitoring, and evaluation through an **implementation lens**, and connect actors from across the health sector to **strengthen health systems** and improve the health of populations.

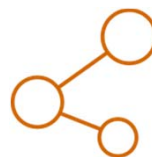
JSI has managed more than 1500 projects in 106 countries, and operates 8 U.S. and 64 international office sites with approximately 2500 staff worldwide. JSI works at the **nexus of research and practice**, applying creative research, monitoring & evaluation approaches, and rigorous analytics to understand and address operational challenges in public health.

JSI explores **emerging opportunities in research, monitoring & evaluation**, looking beyond standard program evaluations towards new methods for defining effective implementation strategies for complex systems, strengthening the processes and technology through which routine health information is collected, and ensuring data are available in useable, meaningful formats for key decision makers.

OUR KEY AREAS OF FOCUS:



INNOVATING IN RESEARCH AND DESIGN to generate real-time data and facilitate adaptation to improve performance



LEARNING THROUGH IMPLEMENTATION RESEARCH to understand context, explore effectiveness, and explain impact



STRENGTHENING HEALTH INFORMATION SYSTEMS to support the use of routine health data for decision making



MAKING DATA AVAILABLE, ACCESSIBLE, AND USABLE through data visualization



INNOVATING IN RESEARCH AND DESIGN

JSI designs creative research strategies and fosters skills in measurement and data use to enhance adaptive management and learning in public health. We co-design research with local partners that generates real time data and engages managers in problem solving and performance improvement.

JSI serves as the Global Research Partner for the Innovations for Maternal, Newborn, and Child Health Initiative (*Innovations*). *Innovations* is a multi-year grant to find and test ambitious ideas that have the potential to overcome barriers to accessing maternal, newborn, and child health services and significantly improve service delivery. JSI's monitoring and research generates data and informs feedback loops to program managers supporting iteration on mobile data applications designed to improve health worker motivation and interventions to transform traditional birth attendants into community health promotion catalysts. A multi-country case study across the pilots is assessing the added value of design thinking in shaping and implementing maternal and child health interventions.



LEARNING THROUGH IMPLEMENTATION RESEARCH

As a leader and partner on numerous multi-country learning grants and implementation research projects, JSI tailors mixed methods strategies to test health program hypotheses, evaluate effectiveness, and explore how and why program strategies succeed or fail.

Improving Supply Chains for Community Case Management of Pneumonia and Other Common Diseases of Childhood (SC4CCM) was a learning grant that identified proven, simple, affordable solutions to address the unique supply chain challenges of community health workers. SC4CCM studied supply chain interventions in Ethiopia, Malawi, and Rwanda to test their potential for improving access to medicines to treat common childhood illnesses. Case studies conducted as part of the final evaluation explored concepts such as scalability, institutionalization, integration, and sustainability of program models, and results were published in the Journal of Global Health.



STRENGTHENING HEALTH INFORMATION SYSTEMS

JSI designs and strengthens national health information systems (HIS) through collaborative engagement with governments and other local partners, building capacity for sustained data management, analysis, and use.

JSI's experience in HIS strengthening ranges from the design and expansion of basic routine health information systems (e.g., Haiti, Liberia) to improving advanced systems (e.g., China, South Africa). We adapt ICT applications such as DHIS2 and support countries to take DHIS2 to scale. Over the past two decades, JSI has developed innovative and state-of-the-art ICT and monitoring tools and approaches such as the electronic Logistics Management Information Systems (eLMIS), Data Quality Audit (DQA), Routine Data Quality Assessment (RDQA), and Performance of Routine Information System Management (PRISM) to improve data quality, analytics, visualization, and use in health programs at national, sub-national, and service delivery levels.



MAKING DATA AVAILABLE, ACCESSIBLE, AND USABLE

JSI designs innovative, user-centered visualizations of data, customizing tools and processes that support the translation of data for channeling resources and tracking impact.

JSI's design teams routinely collaborate with our analytics experts to ensure that data visualizations resonate with key audiences, address information needs, and communicate effectively. Our products include infographics and reporting formats; engaging videos that tell a data story; and dashboards designed to facilitate analysis and engage local stakeholders in US-based and international health programs.

Our dashboard design portfolio leverages design and analysis tools including Excel, Access, Drupal, and Tableau. Examples include Excel-based dashboards on determinants of anemia for local district-level stakeholders in Ghana and a Tableau-based dashboard for routine monitoring of nurse usage of an mHealth application. JSI technical advisors also worked with the governments of Liberia, Cote d'Ivoire, Mali, and Burundi to adapt and customize DHIS2 dashboards.

For more information about JSI's research, monitoring, evaluation & health information work, contact chime@jsi.com or visit www.jsi.com



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