HEALTH ANALYTICS, STRATEGY & LEARNING @ JSI

CONNECTING PEOPLE, DATA, AND IDEAS TO STRENGTHEN HEALTH SYSTEMS

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 individuals and communities.

JSI has managed more than 1,500 projects in 106 countries, and operates 8 U.S. and 64 international office sites with approximately 2,500 staff worldwide. JSI works at the **nexus of research and practice**, applying creative research, monitoring & evaluation approaches to understand and address operational challenges in public health.

We explore **emerging opportunities in research, monitoring & evaluation**, looking beyond standard program evaluations toward new methods for defining effective implementation strategies for complex systems. We strengthen the process and technology through which routine health information is collected and ensure data are in usable, meaningful formats for decision-makers.

OUR KEY FOCUS AREAS

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

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

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

MAKING DATA AVAILABLE, ACCESSIBLE AND USABLE though data visualization products and staff capacity building

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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 served as the Global Research Partner for the Innovations for Maternal, Newborn, and Child Health Initiative *(Innovations*). *Innovations* was 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 generated data and informed: feedback loops to program managers, iteration on mobile 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 evaluated the effects of design thinking as a mechanism to create social innovation in global health programs.

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. The results of the case studies 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 data visualizations, customizing tools and processes that support the translation of data for managing resources and tracking impact.

JSI's data visualization team routinely collaborates with our research and evaluation 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. We have worked with stakeholders and governments in Ghana, Liberia, Cote d'Ivoire, Mali, Ethiopia, Haiti, and Burundi.

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