



## An Experienced and Trusted Global Partner

Mathematica is the trusted partner for changemakers around the world who are confronting development challenges and working to advance children's literacy and educational attainment; improve reproductive, maternal, and child health; expand access to safe drinking water; increase agricultural productivity; and connect communities through infrastructure.

Driven by our mission to improve public well-being and our commitment to objective, rigorous research and analysis, we work closely with government, philanthropic, academic, and private-sector partners to share insights that inform decision making, identify learning priorities, and amplify impact.

Our team of seasoned experts leverage their deep expertise in international health, education, agriculture, energy, and other sectors to reimagine how the world gathers and uses evidence to address the most urgent development challenges.

## From Inquiry to Insight

Mathematica staff have conducted research and evaluation in more than 50 countries in Asia, Africa, and Latin America, working closely with local stakeholders and implementing partners. In addition, our Tanzania and U.K.-based subsidiary, EDI Global, specializes in using cutting-edge survey design and technology to collect data of the highest quality.

We work closely with our partners to address poverty and inequality and to improve health and well-being around the world. Examples of our work in selected sectors include:



### Education

We have designed and implemented rigorous evaluations in multiple countries across Latin America and the Caribbean to help the U.S. Agency for International Development (USAID) refine its education approach and scale reading and math programs to 100 million children. We are also generating evidence and real-time learnings to strengthen early-grade and secondary education, reduce school dropout, and improve employability through workforce development for the Millennium Challenge Corporation (MCC), USAID, and various foundation clients. For example, in Senegal, we are conducting lean rapid-cycle evaluations to assess the effects of new ICT tools that are being introduced to support teacher professional development in the rollout of a new curriculum.

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## Energy

We are helping MCC understand how its investments in energy in Tanzania, Ghana, Liberia, and Benin could lead to more reliable and higher quality electricity. In Tanzania, we conducted experimental and quasi-experimental studies to assess the effects of increasing electricity access and providing fee subsidies to potential consumers. In Benin, our team is using innovative data collection methods— including grid monitors placed directly on the electricity network—to collect high-frequency, high-volume grid data.



## Health

As a monitoring, evaluation, and learning partner, we have worked closely with several foundations, including the David and Lucile Packard, Bill & Melinda Gates, Rockefeller, and MacArthur Foundations, as well as with MCC and USAID, on global, regional, and country-level health initiatives designed to reduce maternal, neonatal, and child mortality; improve nutrition outcomes and reduce rates of stunting; expand access to quality reproductive health services; and strengthen health systems.



## Agriculture

We have conducted research for MCC and foundations to understand the effects of interventions designed to improve cropping patterns and agricultural yields for smallholder farmers. For example, our evaluations for MCC in Burkina Faso, Senegal, Niger, and Moldova are testing the impacts on farmer productivity and income of giving farmers support through training, improvements in irrigation infrastructure, and increased access to credit. We are using cutting-edge approaches like satellite imagery to make our estimates of key outcomes more precise.



## Water, Hygiene, And Sanitation

In Cabo Verde, our collection of household survey data and use of ultrasonic water meter data for MCC is generating information to support the country's effort to establish an effective, sustainable system to deliver clean water and sanitation services. We worked with the Bill & Melinda Gates Foundation to assess the effects of a grant-making collaboration with USAID to identify and support promising new approaches to solving water, sanitation, and hygiene challenges in in developing countries.



## Women's Economic Empowerment And Gender Equity

Our evaluation of the Bill & Melinda Gates Foundation's digital financial services strategy is designed to demonstrate how digitizing social protection programs can advance the economic empowerment and financial inclusion of women in Tanzania, India, and Pakistan.

## Our Services

We offer our partners a full range of measurement, evaluation, and learning services. Our approach is collaborative and flexible:

- **Theories of change and measurement and learning frameworks.** We work side by side with clients to refine their theories of change, develop key indicators for measurement, prioritize learning questions, and identify the best data and methods to answer their questions.
- **Data for progress tracking and decision making.** We have deep expertise in performance measurement and monitoring—curating and analyzing data from multiple sources and geographies to build coherent stories of progress, impact, and learning.
- **Modeling and real-time analysis to inform program improvement.** Our data scientists use statistical modeling, machine learning, natural language processing, GIS mapping, and other techniques to predict and track program outcomes, set targets, and produce actionable knowledge.
- **Rigorous research and evaluation.** To answer our clients' learning and evaluation questions, we use a wide range of methods—from rigorous impact evaluations to mixed-methods performance assessments to qualitative implementation studies.
- **Leveraging new technologies to open new frontiers in research.** We explore opportunities to leverage new data sources and technologies such as mobile platforms and geospatial data. This lowers the cost of collecting data, streamlines reporting, and answers research questions that were once unanswerable.
- **Technical assistance and capacity building.** We tailor our technical assistance to partners to build their monitoring and evaluation skills and position them to independently implement high quality measurement, evaluation, and learning activities.
- **Learning products and events.** To help our partners make informed choices about programmatic direction, we conduct a variety of evidence translation and learning activities. We develop tailored learning products for diverse audiences that abstract and share relevant evidence in easy-to-digest formats.

## Global Partners

We are proud to have partnered with the Bill & Melinda Gates Foundation, the Children's Investment Fund Foundation, the David and Lucile Packard Foundation, Dubai Cares, the Hewlett Foundation, the MacArthur Foundation, the Millennium Challenge Corporation, the Rockefeller Foundation, UNICEF, the U.S. Agency for International Development, the World Bank, and the UK Department for International Development, among others.

**Let's Progress Together.** Contact Matt Sloan at 202-484-4826 or [msloan@mathematica-mpr.com](mailto:msloan@mathematica-mpr.com); or Kimberly Smith at 609-945-3354 or [ksmith@mathematica-mpr.com](mailto:ksmith@mathematica-mpr.com).

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