



PATH in
India

Catalyzing local
innovation to
improve health
and save lives

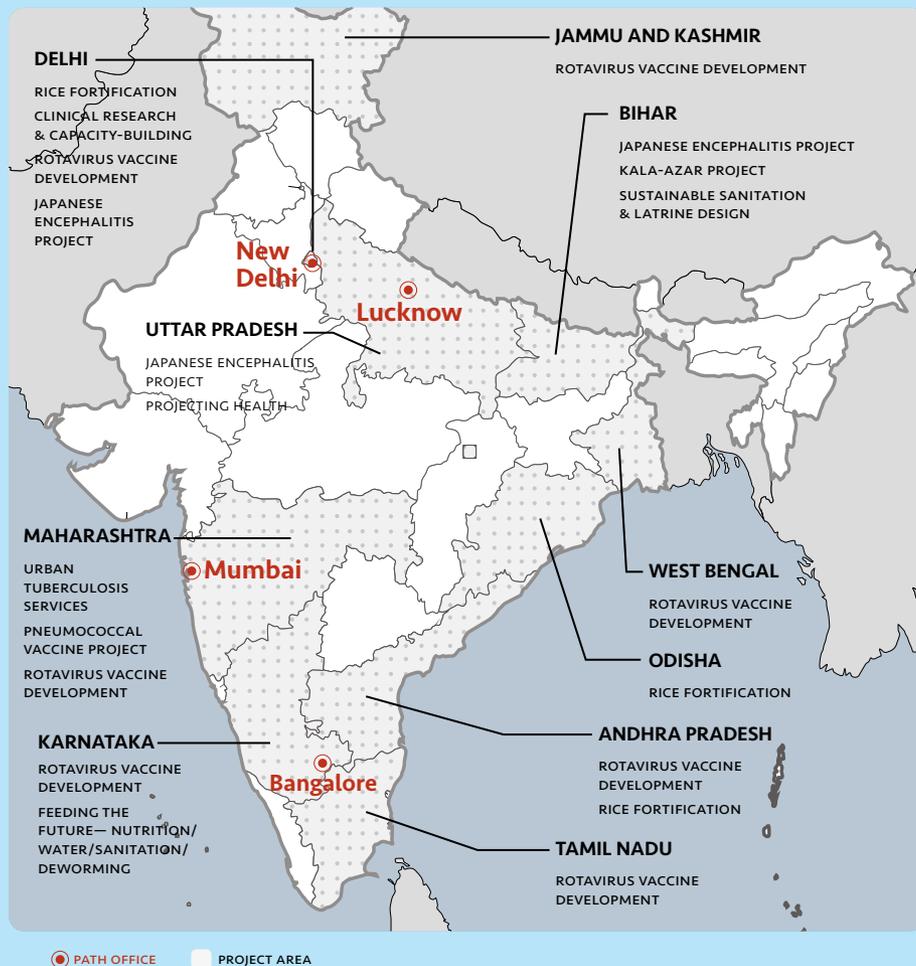


PATH's work in India is evolving in step with the country's rapid pace of development. As India prospers, the opportunity to develop health solutions in India, for India, and by India has never been greater.

For nearly four decades, PATH has helped to improve health around the world, especially among women and children. In India, we have worked for more than 15 years to improve health and save lives through innovation, creativity, and collaboration with local partners. We have partnered with government officials, commercial firms, and communities to develop and scale up new vaccines, improve the health of mothers and newborns through better nutrition and safer births, establish a unique public-private partnership to control tuberculosis (TB) in the crowded slums of Mumbai, and much more.

But India is changing, and PATH is changing with it. This country of great contrasts has both tremendous health needs and tremendous resources to meet those needs. PATH's current role in India focuses on bringing technical know-how for improving health to India's resource-rich technology industry and then helping to apply the results in communities across the country.

PROJECT AND OFFICE LOCATIONS IN INDIA



A BROAD PORTFOLIO OF PROJECTS

PATH's wide-ranging work in India has included:

- Collaborating to develop and deploy vaccines to prevent meningitis, pneumococcal disease, and diarrheal disease.
- Partnering with local firms to create low-cost diagnostic tests.
- Improving nutrition through work to establish human milk banks and introduce fortified rice.
- Implementing innovative treatment interventions for TB in urban areas.
- Using community-produced videos to change health behaviors.
- Partnering with state governments on Japanese encephalitis control in Uttar Pradesh and Bihar.
- Supporting sanitation improvements in Bihar, sales of household health products in Maharashtra, and use of clean fuel for cook stoves in Bihar and Maharashtra.
- Creating a clinical research training program with three national resource centers.

DRIVING INNOVATION, BUILDING MARKETS

PATH plays an important intermediary role in India. We are working alongside local start-ups and technology companies to develop new health tools and programs while collaborating with long-time public-sector partners to ensure eventual uptake and scale-up.

In addition, by fostering South-to-South collaboration, PATH is helping India establish and fulfill commitments to countries in other parts of the world, particularly in Africa. For example, PATH partnered with Serum Institute of India Pvt. Ltd. and the World Health Organization to develop and deploy an effective, affordable vaccine to prevent most meningitis epidemics in sub-Saharan Africa. Known as MenAfriVac®, the vaccine was developed in less than ten years and at one-tenth the cost of a typical vaccine. Since the vaccine's introduction in 2010, immunization campaigns have reached more than 200 million people in 15 countries, eliminating recurring epidemics. PATH is now collaborating with Serum Institute on development of another meningitis vaccine—to provide protection against five types of meningitis—as well as a new pneumococcal vaccine.

PATH is pursuing additional opportunities to apply technical expertise and innovation in India to solve health challenges around the world. Especially promising areas include innovative treatments for TB, new low-cost diagnostics for a variety of infectious and noncommunicable diseases, and programs to improve nutrition.

TUBERCULOSIS CONTROL AND URBAN HEALTH

India has more TB cases than any other country in the world—an estimated 2.3 million. Many of these cases are found in heavily populated urban slums, such as those in Mumbai. An estimated 9 million people now live in Mumbai's slums, and the number living in slums across India is expected to reach 100 million by 2017.

PATH has developed a Private Provider Interface Agency (PPIA) in Mumbai to increase the private sector's contribution to universal access to TB services. The PPIA strengthens the capacity of private providers serving the slums to ensure early, accurate diagnosis of TB, effective case management, and successful treatment for patients who are not linked to the public TB control program. In the first 14 months of operation, the PPIA facilitated diagnosis and notification of 15,000 TB cases, helped 9,500 patients receive free anti-TB drugs, and engaged 2,500 physicians, 220 hospitals, 190 chemists, and



200 laboratories across Mumbai. This is a unique model for public-private partnership that could be adapted to meet fast-growing needs for services for other diseases, such as pneumonia.

In addition, PATH has provided technical assistance to strengthen TB laboratory networks in India. Our work has also helped to improve diagnosis and management of drug-resistant TB, enhance infection control practices in health facilities, and engage health care providers in advocacy, communication, and social mobilization activities.

IMPROVING NUTRITION FOR INFANTS AND CHILDREN

Nutrition plays a foundational role in growth and development. For babies unable to access breast milk from their mothers, a safe supply of donor milk provided through a human milk bank provides a vital alternative. Donor milk is especially important for vulnerable babies who are premature, underweight at birth, severely malnourished, or orphaned.

As part of an integrated approach to newborn care, PATH has promoted human milk banking globally and worked to make it easier and more affordable for countries to adopt. In India, we have provided technical assistance to the national government to set up human milk banking systems and develop national guidelines, and we have promoted cost-saving technologies, such as an easy-to-use,

inexpensive pasteurization monitoring system that uses mobile phones.

PATH is also helping to improve nutrition in India through rice fortification. For a decade, we have worked closely with Indian partners on the fortification of rice to reduce the prevalence of anemia and micronutrient deficiencies. Progress has included:

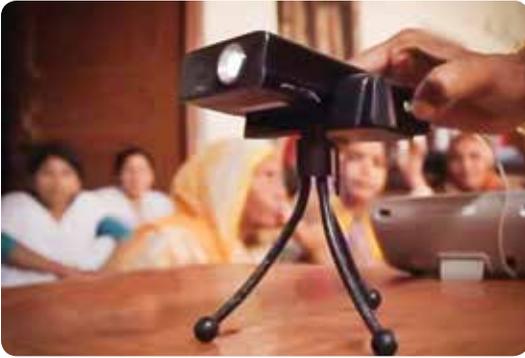
- Establishing a low-cost, high-quality production facility for fortified rice.
- Reaching 245,000 children through a school feeding program in Andhra Pradesh and Rajasthan.
- Establishing a partnership with Akshaya Patra to reach 450,000 children across 2,600 schools with fortified rice through six kitchens in Karnataka.

By strengthening local manufacturing, distribution, and marketing efforts, we have established a strong base for market development and distribution through India's public- and private-sector channels. We have also laid a foundation for the expansion of rice fortification from India to other countries in South and Southeast Asia. PATH's plans for the future include strengthening linkages between agriculture and health in India to ensure locally available, appropriate, and affordable nutrition sources.

NONCOMMUNICABLE DISEASES

A dramatic increase in disability and deaths from noncommunicable diseases (NCDs)—including cardiovascular disease, diabetes, lung disease, and cancers—is bringing new challenges to India. Each year, an estimated 5.8 million Indians die from NCDs.

PATH is at the forefront of responding to this rapidly growing problem. Building on our successful work in breast and cervical cancers, we are advancing prevention and care for diabetes and hypertension. Our strategy for NCDs includes accelerating promising technologies and innovative approaches; advocating for increased global attention; integrating prevention and care into local health care systems; and increasing the availability of essential medicines, diagnostics, and technologies.



PATH/BrandedFilms

REVOLUTIONIZING BEHAVIOR CHANGE

Projecting Health is a PATH-led, innovative social and behavior change communication approach that gives communities the skills and low-cost tools to produce accurate, engaging, and effective health education videos. Working with local partners, PATH has successfully integrated the model into existing community support programs in Uttar Pradesh. More than 64,000 community members have already been reached with videos shown during mothers' group meetings facilitated by health workers or accredited social health activists, leading to demonstrated improvements in health behaviors.

By equipping community members with new tools for effectively promoting health behaviors and mobilizing communities to improve maternal and child health outcomes, the approach is shifting the driving force for change from health experts to the community. This communication platform may prove useful for modifying a range of health-related behaviors.

NEW PARTNERSHIPS FOR INNOVATION

PATH is also collaborating with other groups to support India's health technology entrepreneurs. The StartHealth program combines the technical expertise, business acumen, and resources of PATH, Unitus Seed Fund, Pfizer Inc., Manipal Hospitals, and Narayana Health to unlock Indian innovation. By coordinating technical support, grant funding, and capital investment, the program's unique model will help health technology startups create and advance affordable and effective health products and services.

The StartHealth program is part of PATH's Global Health Innovation Hub. Our goal is to accelerate the development and introduction of breakthrough health solutions designed for low-resource settings.

BRIDGING GAPS AND BUILDING CAPACITY TO MEET FUTURE NEEDS

PATH's relationships, experience, and understanding of India's unique needs and opportunities provide a solid foundation for continued success in advancing innovation to improve health. Looking ahead, we anticipate playing a crucial role in bridging the gap between the public and private sectors in India, building strength in both sectors to meet the country's growing health needs with sustainable solutions.

Funders

PATH's work in India has been supported by the Bill & Melinda Gates Foundation, UK Department for International Development, US Agency for International Development, and other donors and collaborators.



PATH is the leader in global health innovation. An international nonprofit organization, we save lives and improve health, especially among women and children. We accelerate innovation across five platforms—vaccines, drugs, diagnostics, devices, and system and service innovations—that harness our entrepreneurial insight, scientific and public health expertise, and passion for health equity. By mobilizing partners around the world, we take innovation to scale, working alongside countries primarily in Africa and Asia to tackle their greatest health needs. Together, we deliver measurable results that disrupt the cycle of poor health.

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