

# Digital Innovation in Pandemic Control (DIPC) Ghana

An initiative of [digital.global](https://digital.global)

## Scaling the Use of Digital Tools for Vaccination Planning, Deployment, and Monitoring

### COUNTRY BACKGROUND AND DIGITAL HEALTH

Ghana has been embracing digital health solutions to enhance healthcare delivery and management for over a decade. With a population of over 30 million and facing various health challenges, such as malaria, HIV/AIDS, and non-communicable diseases, the government's investment in digital health initiatives has significantly improved access to healthcare services, data management, and communication between healthcare providers and patients. Despite the progress made in digital health solutions, Ghana's digital health system still faces challenges such as limited funding, access to technology and internet connectivity, and a lack of interoperability among digital health systems. However, a strong regulatory framework, a dedicated eHealth policy, and a skilled workforce provide a solid foundation for Ghana's digital health system. As part of DIPC activities, Ghana achieved a milestone and completed the Digital Pandemic Preparedness Assessment (DPPA). The objective of the DPPA is to provide a systematic assessment methodology for identifying the need for digital tools which fit into partner countries' existing digital ecosystem and that can modernize overall pandemic preparedness and response.

### DIPC IN GHANA

Digital Innovation in Pandemic Control (DIPC) is funded by the German Federal Ministry for Economic Cooperation and Development (BMZ) and implemented in Ghana through GIZ in collaboration with DigitalSquare/Path and the Government of Ghana. The project seeks to integrate digital solutions at scale to support pandemic prevention and control, with a focus on vaccine logistics. DIPC has four work packages designed to strengthen Ghana's digital health system while supporting the use of digital solutions in the vaccine logistics process:

→ **Strengthening the Health System:** DIPC and Digital Square will be working closely with Ghana's Ministry of Health to accelerate the implementation of digital tools to support sustainable immunization systems in the country. This work will include the localization of the WHO SMART Guidelines for vaccine logistics.

Project	Digital Innovation in Pandemic Control
Funded through	Federal Ministry for Economic Cooperation and Development (BMZ) of Germany.
Country	Ghana
Partner	PATH - Digital Square
Counterpart	Ministry of Health Ghana - Ghana Health Service
Total Duration	2019 to 2024



- **Building Digital Solutions through an Immunisation Product Suite:** Digital Square will develop an immunization product suite aligned with WHO's Digital Adaptation Kit (DAK) for immunization that combines several software solutions into a fully interoperable software package that provides end to end support for vaccine delivery, with a particular focus on open-source global goods
- **Capacity-strengthening:** DIPC will provide training and support to digital health professionals by strengthening national and local skills necessary to effectively use these tools, and furthermore, enhance the success and sustainability of the digital solutions.
- **Evidence and Innovation:** Collaborating with different partners and rigorous academic and innovative

approaches, there will be a continuous work to improve the initiative's implementation approach from a global perspective.

DIPC's contributions to Ghana's digital health system are expected to improve vaccine distribution and coverage and enhance data management in the vaccine logistics process. By leveraging technology, Ghana can achieve more efficient and effective pandemic preparedness and response. The activities of DIPC in the country are an essential step towards this goal.

In conclusion, Ghana's digital health landscape is rapidly evolving, and the DIPC initiative implementation in Ghana provides a framework for scaling digital solutions to support pandemic control. As the project strengthens Ghana's digital health system, healthcare delivery and management will undoubtedly improve, providing much-needed relief to a nation facing several health challenges.

## RELEVANT STATISTICS

### Health

- Life expectancy at birth, total (years) 64 (2020)
- Immunization, measles (% of children ages 12-23 months) 94% (2021)
- Prevalence of HIV, total (% of population ages 15-49) 1.7% (2021)

### Digital Development

- Individuals using the Internet (% of population) 69% (2021)
- Mobile cellular subscriptions (per 100 people) 123 (2021)
- Fixed broadband subscriptions (per 100 people) 0.35 (2021)

### DIPC is integrated in the following bilateral and regional projects

- Support to Private and Financial Sector in Ghana (Support to Vaccine Manufacturing in Ghana).

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DIPC in Ghana is part of the global programme of DIPC implemented in 5 countries worldwide, please find here the [general overview](#).

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