COVID-19 Map & Match

EXECUTIVE SUMMARY

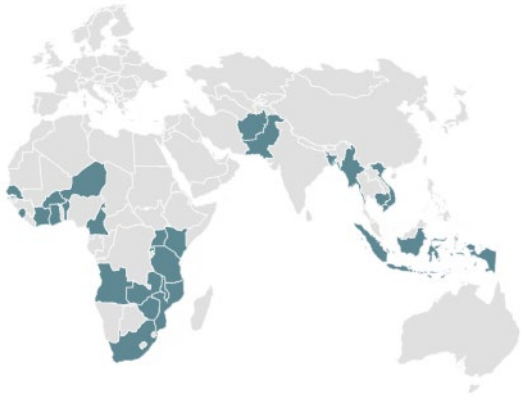
Digital Square recognizes a coordinated approach to digital investments is essential to quickly scale access to time-sensitive data and information needed to inform an effective disease outbreak response. Without this critical alignment of funding to existing digital health infrastructure, there is a risk of deepening fragmentation of digital tools and data silos that could hamper COVID-19 response efforts and undermine health systems.

The purpose of the USAID-funded Map & Match project is to help countries, donors, implementers, and the global digital health community at large to leverage and adapt existing digital tools in response to the COVID-19 pandemic.

As the world learned during the West Africa Ebola outbreak response, prioritizing the reuse and adaptation of existing digital tools is vital to quickly scale access to time-sensitive disease information and data.

Through this project, Digital Square sought to understand the landscape of existing, adaptable software tools used at scale in countries, and subsequently matched those tools with potential use cases for COVID-19. After a broad landscaping in which data was collected from over 130 countries, the project narrowed the scope to validate and collect additional information for 23 countries.

For this set of countries, all in sub-Saharan Africa and Asia, Digital Square launched a survey and conducted key informant interviews with ministries of health and local partners in the country. Digital Square also conducted in-depth data collection and interviews with partners in the project's global good community.



The countries prioritized included: Afghanistan, Angola, Bangladesh, Benin, Burkina Faso, Cambodia, Cameroon, Cote d'Ivoire, Ghana, Indonesia, Kenya, Malawi, Mozambique, Myanmar, Niger, Pakistan, Rwanda, Senegal, Sierra Leone, South Africa, Tanzania, Uganda, Vietnam, Zambia, and Zimbabwe. Two countries—Cambodia and Zimbabwe—were subsequently removed from activity at the request of the local missions.

Through this project, Digital Square developed a highly visual brief for each country, identifying which tools are currently in use in the country, which tools have already been used in the country's COVID-19 response, and where there are opportunities for quick adaptation of existing tools across COVID-19 response use cases. Digital Square prioritized dissemination of the country briefs and supplemental resources with national governments, investors, and other stakeholders.

Engagement with investors and partners has been integral to the Map and Match project. Throughout the project, Digital Square has coordinated with stakeholders for input into country selection, feedback on technical documents, and alignment with other initiatives. Digital Square has also coordinated with the World Health Organization to share all data collected through Map and Match with the Digital Health Atlas (DHA). Much of the data model for data collection has been informed by criteria for the DHA.

Map & Match Use Cases

The Map & Match project developed a set of use cases specific to outbreak response. These use cases were developed in coordination with USAID and GIZ and align with the format of the GIZ Digital Pandemic Preparedness Assessment tool, which can be pre-populated using Map and Match data. The Map & Match COVID-19 use cases are further defined in the *Digital Applications and Tools Across an Epidemiological Curve* and include:

- Case management
- Contact tracing
- Data science assets
- Event-based surveillance
- Health facility & provider administration
- Infection prevention control
- Laboratory systems
- Learning & training
- One Health
- Points of entry
- Risk communication & community engagement
- Routine surveillance
- Supply chain
- Vaccine planning, monitoring, and delivery

Map and Match Resources

*All Map and Match resources are available on the **Digital Square website here**.*

Country Briefs

Digital Square developed country briefs to highlight existing digital tools deployed in-country, which of those tools have already been adapted for COVID-19, and opportunities to adapt currently deployed tools for COVID-19 use cases including vaccine planning, delivery, and monitoring.

Digital Applications and Tools Across an Epidemiological Curve (DATEC)

The DATEC is a strategic framework for governments, investors, implementing organizations, and the digital health community at-large to better understand how existing digital tools can be adapted and used during different phases of an outbreak. This framework is meant to highlight how digital technologies, which should already be present in a country, can most strategically be leveraged to augment response during an epidemic and/or pandemic.

Understanding Scale of Digital Health Tools

The global digital health community broadly supports adaptation and reuse of existing digital global goods to support the complex and urgent response to the COVID-19 pandemic.

Identifying, adapting, and deploying digital tools already at scale in a country can be the most rapid, efficient, and effective route to integrate digital technologies into a country's COVID-19 response. This document is a new framework and triangulation tool to measure scale of digital deployments in the context of the COVID-19 pandemic.

Mapping of Digital Square Global Goods to Map and Match Use Cases

Digital Square has mapped the existing functionality of project approved global goods to COVID-19 use cases described in the DATEC. The global goods are grouped by those that have already been adapted to match a use case and those that could be adapted to match a use case (i.e., simple, easy, low-lift adaptations).

Global Goods Guidebook Version 2

The Global Goods Guidebook showcases emergent and established global goods that are approved for investment through Digital Square. By better coordinating the development of digital health global goods, such as those presented in the guidebook, stakeholders involved in digital health can reduce duplication and ensure that platforms are not only more aligned with national priorities, but that they strengthen health systems.

Map and Match survey tool

The Map & Match research team developed a survey tool for data collection, coded in ODK and hosted on Kobo Toolbox. It was designed to help guide respondents through two scenarios:

- Survey respondent knew about one or more tools in just one country ('Many tools, One Country')
- Survey respondent knew about one tool in many countries ('One tool, Many Countries)

These two methods of answering the survey are delineated by the tabs in the 'readable' Excel sheet. We have also provided the ODK tool, which includes all the answer choices and formatting, for future adaptation and use.

Full Map and Match Dataset

The full map and match dataset includes all data from the entire Map and Match project. The dataset is meant to be used for existing country landscaping to inform future assessments and implementation planning. The dataset can also be used to filter information to prepopulate the DPPA.

Find more COVID-19 resources from Digital Square, visit https://digitalsquare.org/covid19.

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Digital Square brings partners together to improve how the global community designs, uses, and pays for digital health tools and approaches. By strengthening the coordination among digital health stakeholders, Digital Square reorients the market to better match tools and approaches to the needs of countries and communities.

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