



Data collection

Real-time data platform (Fiji, Palau, Papua New Guinea, Tonga)

Problem addressed

Effective decision-making requires real-time, integrated, and localized information to facilitate a comprehensive analysis of problems. The challenge for decision-makers is to access advanced and user-friendly data management tools at an affordable price.



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Solution

TUPAIA is a data platform featuring data collection, management, and mapping-led visualization tools to support health, education, and environmental projects. Free and open-source, the platform pulls real-time data from a variety of sources, even the most remote settings in the world, and displays them, in highly customizable views, to a range of stakeholders. The platform thus empowers local actors with data to support daily decision-making and work planning.



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Innovations and features

It was initially designed to strengthen the health supply chain by identifying the commodities and resources required in different locations to reduce the spread of tuberculosis.

It allows for community surveying with an adaptive synchronization model to facilitate data collection in remote areas.

The platform can be used to collect environmental data to manage resources such as water stations, and is also useful for disaster response.

In Papua New Guinea, the platform is used to track the incidence of malaria. The vector borne disease sentinel surveillance allows rapid identification of outbreaks and resurgent and resistant pathogens. It supports decision-making, the development of policy options and reinforces frontline health workers in their reporting.



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Evidence and viability

- 500 app users and 5 000 followers on social media.
- Supports decision-making based on real-time data for time-sensitive sectors, mainly related to public health.
- Facilitates real-time data collection in remote areas.
- Displays information at a high level of granularity for stakeholders with different levels of access.

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