

Data Snack: Crunching Digital Resources to Strengthen Global Health Research and Action

Our Mission

The era of digital transformation has opened up remarkable opportunities for advancing global health action by embracing **digital data practices and computer-assisted approaches**. The fusion of **diverse data resources**, typically scattered across silos, empowers us to **delve deeper into understanding health challenges**, from unraveling the intricacies of pathogenic mechanisms to deciphering the complexities of disease transmission and control within the purview of **One Health**.

Our mission is to foster **collaboration across disciplines and sectors** by creating an open-source **Data Hub** framework, providing stakeholders with a powerful tool for data-driven discourse and knowledge exchange. The **Data Hub's** core feature is a **user-centric information system**, designed to streamline the **integration, standardization, and analytical processing of health and socio-ecological context data** geared towards enhancing data collaboration in Global Health research and action:

Project Focus

Research for Global Health

Target Audience

Stakeholders from research and public health (and beyond)

Project Website

<https://datasnack.org>

Hosting Research Institution

Bernhard Nocht Institute for Tropical Medicine (Department of Infectious Disease Epidemiology)

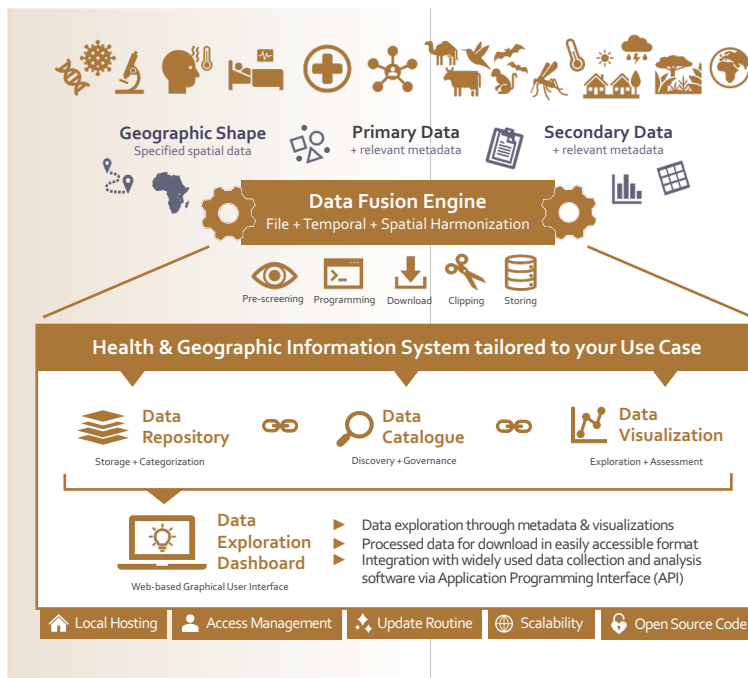
Project Duration

10/2023 – 09/2025

Project Funding

Joachim Herz Foundation

Data Hub Framework



Potential Use Cases

- ▶ **Research & Scientific Exchange**
- ▶ **Public Health & Risk Assessment**
- ▶ **Training & Capacity Strengthening**

1 Design & Planning of Research Studies

- Access to comprehensive datasets across silos to support interdisciplinary discourse and studies
- Exploration of data to understand patterns, trends, and relationships, e.g., to inform study site selection

2 Informing Analytical Frameworks

- Rule-based/knowledge-driven frameworks, e.g., indicator-based outbreak risk assessment
- Data-driven frameworks, e.g., epidemiological modeling and computer simulations

3 Enabling Collaborative Ecosystems

- Empowering collaborative data practices and harnessing innovative technologies
- Strategies for sharing (research) outputs, usage and contribution to open-source tools and software

Our Vision



Alongside stakeholders from **research and public health**, we aim to **enhance our Data Hub** framework, jointly explore **new features** and **interoperability** with commonly used software, and thereby provide a **trustworthy tool** tailored to the needs of our target audience. Additionally, we want to foster interest in modern **digital approaches and technologies** and **explore them together** (e.g., artificial intelligence, computer simulations, gamification). In doing so, we prioritize **interdisciplinary exchange** and **open solutions**.



Juliane Boenecke
Health Scientist, MSc
Passionate about public health intelligence and digital epidemiology
juliane.boenecke@bnitm.de



Jonathan Ströbele
Computer Scientist, MSc
Committed to harnessing data science & user-centered design to drive innovation
jonathan.stroebel@bnitm.de

