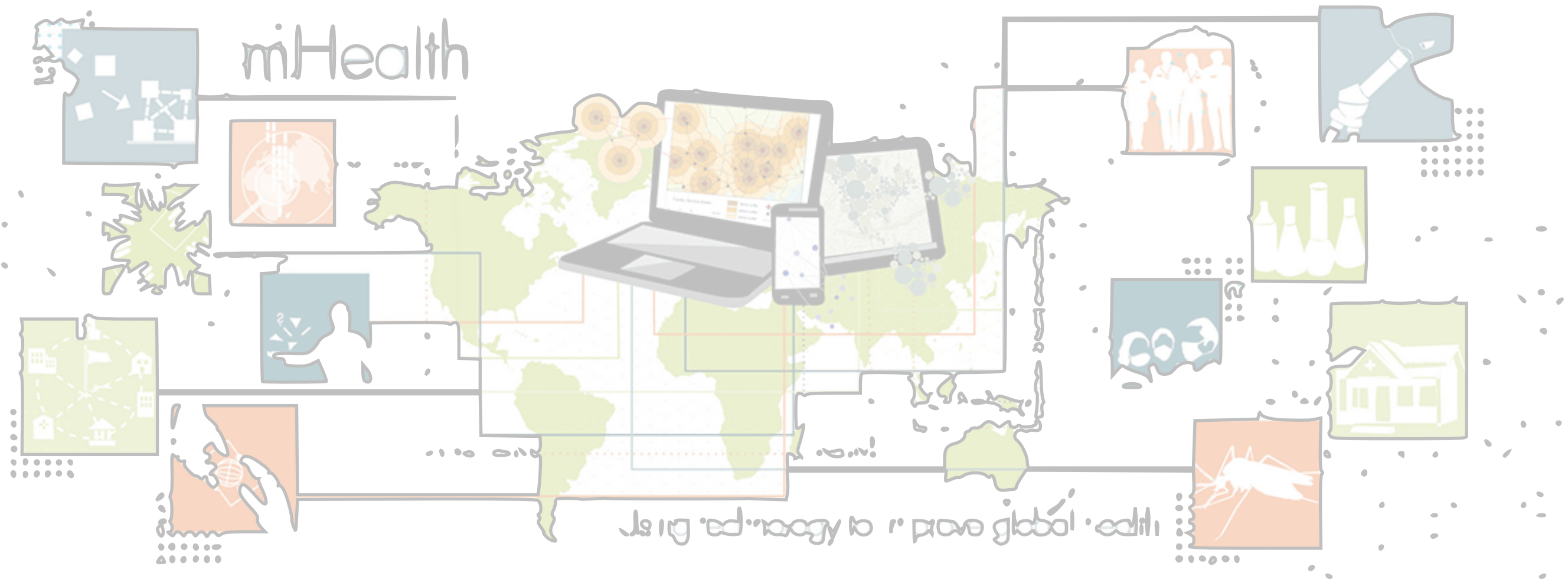




Toward an Architecture for mHealth

Web Data Choreography

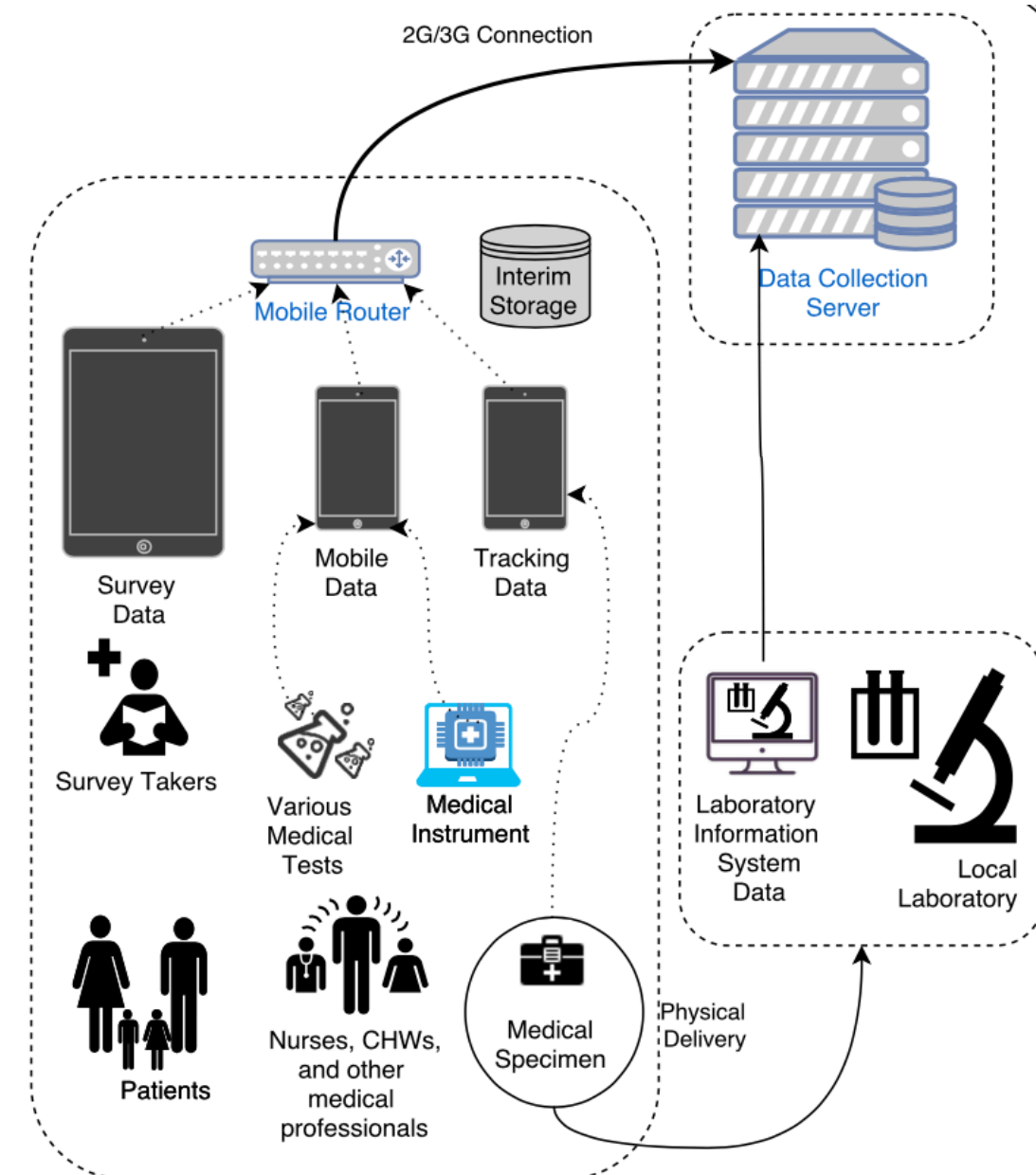
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Problem Statement

- ◆ Health Data is prolific in nature
 - ◆ Especially true in data for clinical research
- ◆ Collecting *global health data* is challenging
 - ◆ Geographical, administrative, logistical challenges
- ◆ There is no common solution to address *autonomous* nature of public health data collection
- ◆ We need a data collection framework that addresses these issues above

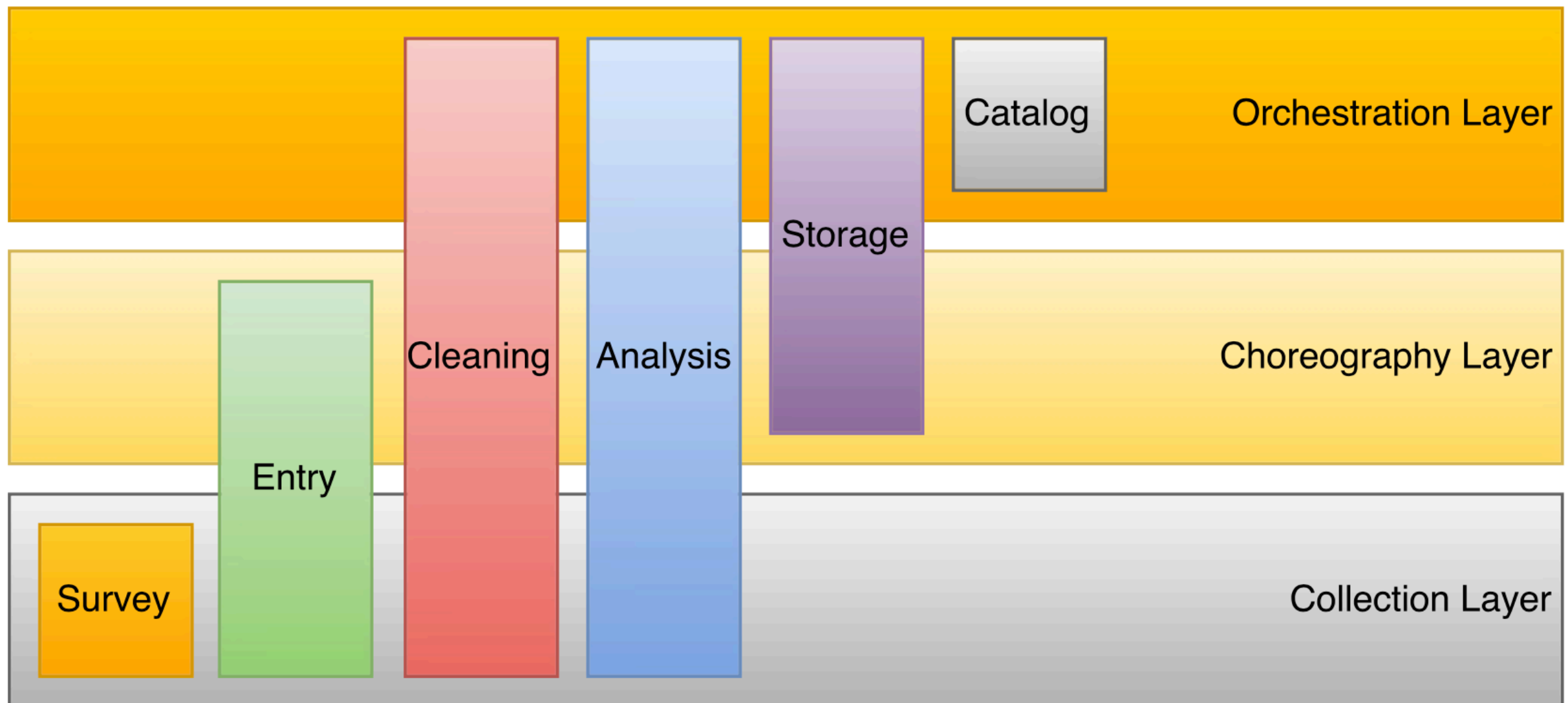
Survey Data Collection

- 13 countries, 10+ years, large-scale public health project.
- HIV-focused, cross-sectional, household-based, nationally representative survey of adults and adolescents age 15 and above, as well as children ages 0-14 years.
- Data collection consists of household interviews, individual interviews, and diagnostic testing.
- Questionnaire data are collected using Android-based tablets.
- Open Data Kit (ODK) as the primary survey mechanism.
- Diagnostic data collected via in-home and laboratory-based testing.



A Data Adaptation Module

- Orchestration: Data storage and cataloguing.
- Choreography: deidentification, encoding, supporting autonomy for local-optimal decisions
- Collection Layer: survey data and subsequent clinical results



Thank You!

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Seeking BOTH feedback and research collaborators!

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