

Open Concept Lab

Open Source Terminology Management for Semantic Interoperability

Maternal Health Use Case



Why Standardized Terminology?

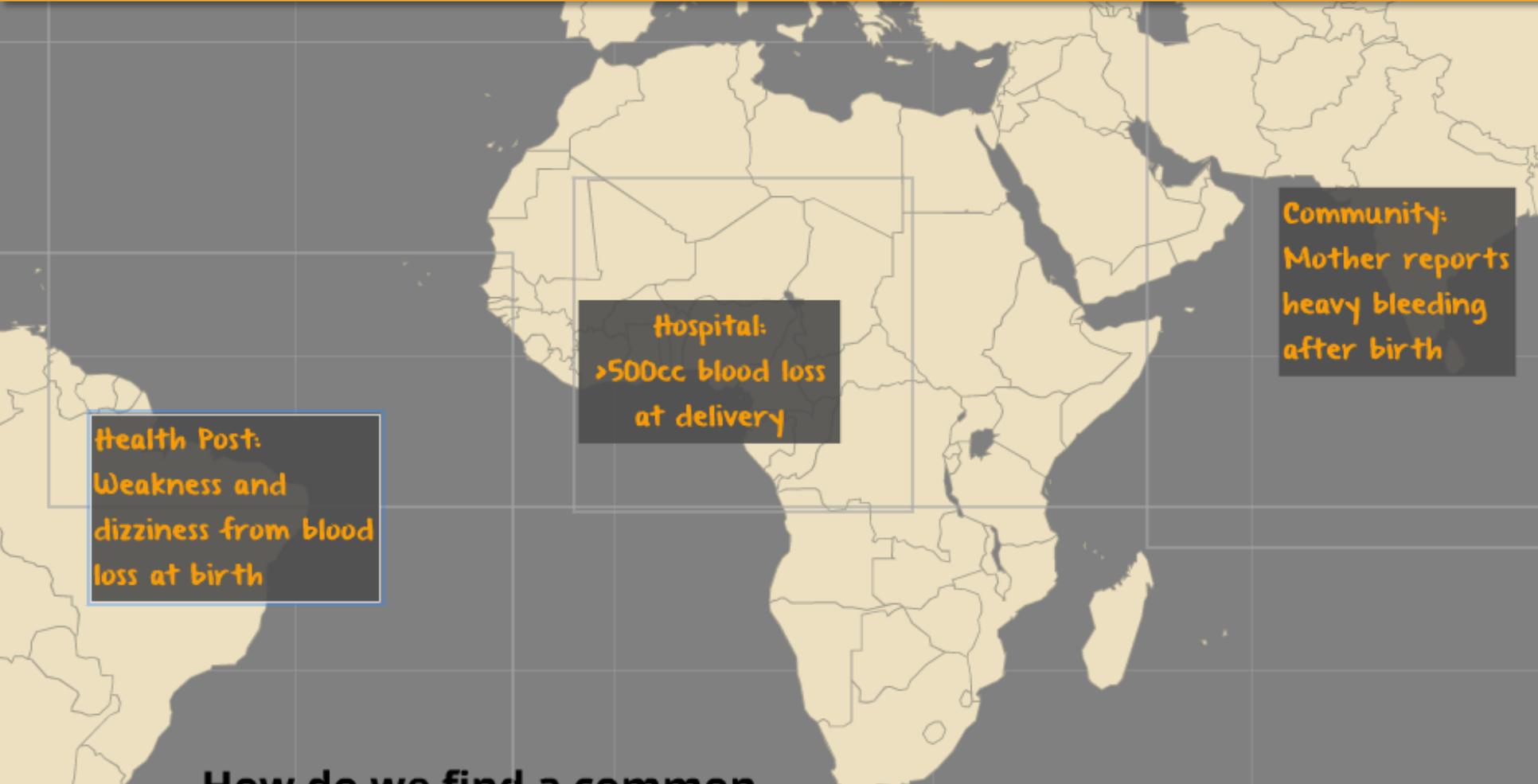
- Standardized terminology is used to define the meaning of health data (ICD-10, LOINC, RxNORM, SNOMED- CT)
- Vocabulary changes data (numbers, letters) to information through application of semantic rules
- Standardized terminology allows for data translation and aggregation

Why Standardized Terminology?

Standardized terminology is the fundamental enabler of interoperability - it gives meaning to data regardless of where, when, how, or by whom it was collected across the continuum of RMNCH care.



Interface Terminology

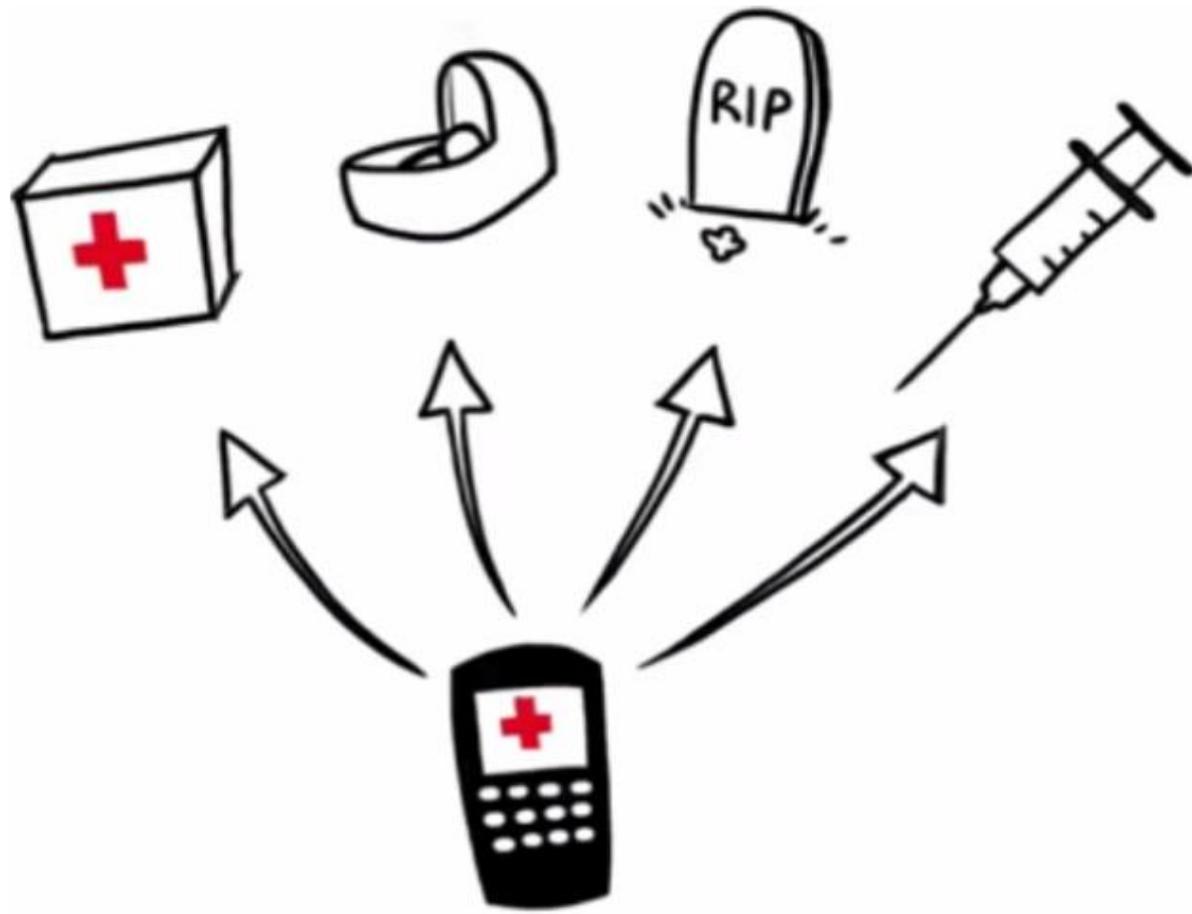


Health Post:
Weakness and
dizziness from blood
loss at birth

Hospital:
>500cc blood loss
at delivery

Community:
Mother reports
heavy bleeding
after birth

**How do we find a common
language to represent
important health concepts
across settings??**



-Systems for Reporting

Goal

Evaluate a common set of maternal health indicators across projects in Ghana, India and Brazil

Problem

Different data dictionaries and data models are in use by the projects

MANUAL PROCESS

1. Manually map all fields to a common data dictionary
2. Create custom indicator recipes for each project



PROBLEMS

Duplicative
&
Error-Prone
&
Costly
&
Not Reusable

PROBLEMS

SOLVED WITH OCL

Duplicative



Interface terminology linked to standardized terminology and indicators

Error-Prone
Not Reusable



Community-developed terminology collections, i.e. data dictionaries and core data sets

Costly



Free, cloud-based, collaborative platform for management of indicators, terminology, and collections

- The aim of Open Concept Lab (OCL) is to increase data liquidity across organizational and technical boundaries by dramatically improving the usability and relevance of curated terminology resources
 - Free and open access to all tools and content, unless protected by a license or made private
 - A collaborative, community-supported process for creating and reviewing data dictionaries
 - A cloud-based approach
 - An open programming interface (API) provides real-time electronic access to terminological resources and straightforward integration