

# Open Concept Lab

Open Source Terminology Management for Semantic Interoperability

## Maternal Health Use Case



OPEN CONCEPT LAB

## Why Standardized Terminology?

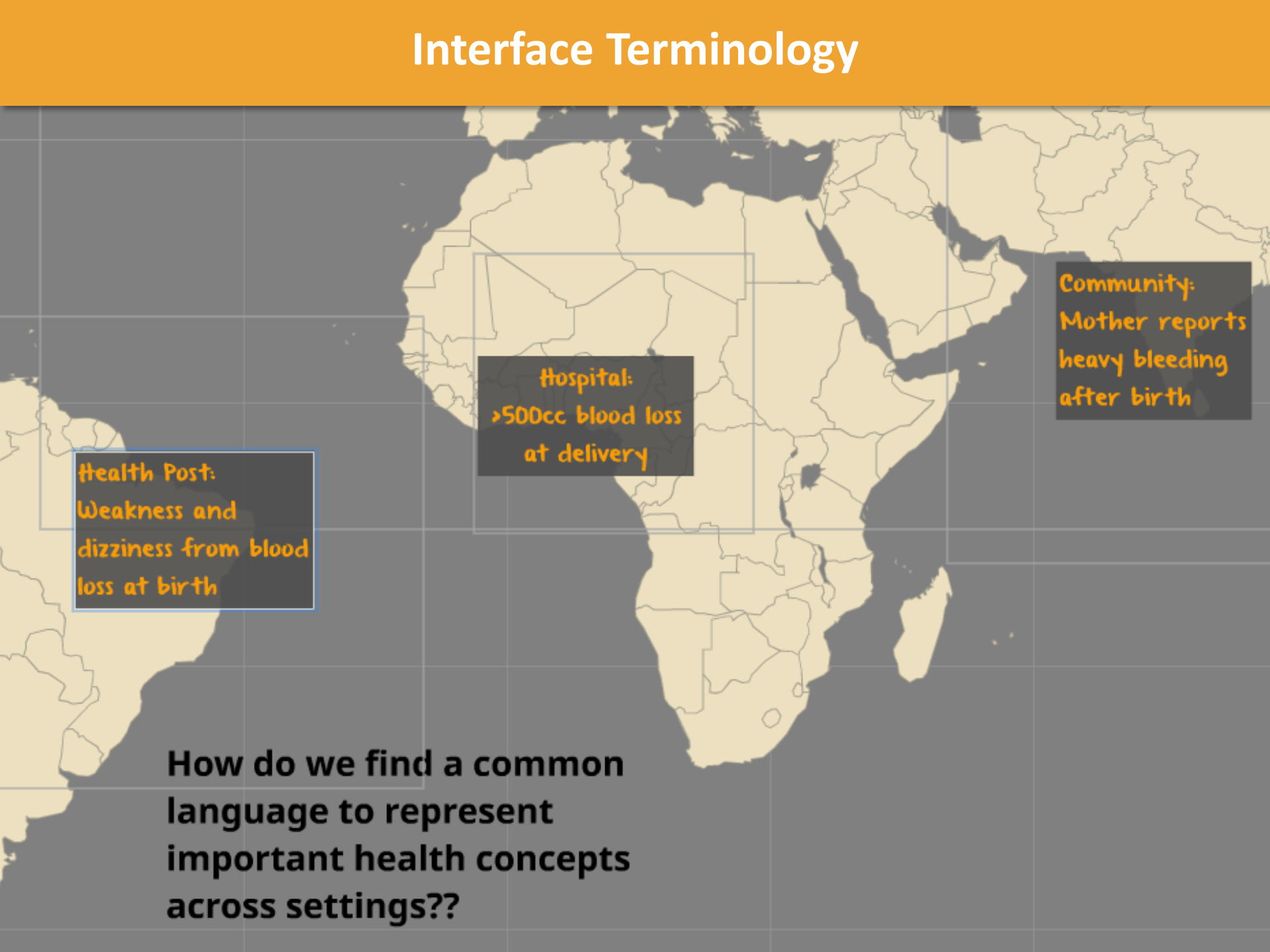
- Standardized terminology is used to define the meaning of health data (ICD-10, LOINC, RxNORM, SNOMED- CT)
- Vocabulary changes data (numbers, letters) to information through application of semantic rules
- Standardized terminology allows for data translation and aggregation

## 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

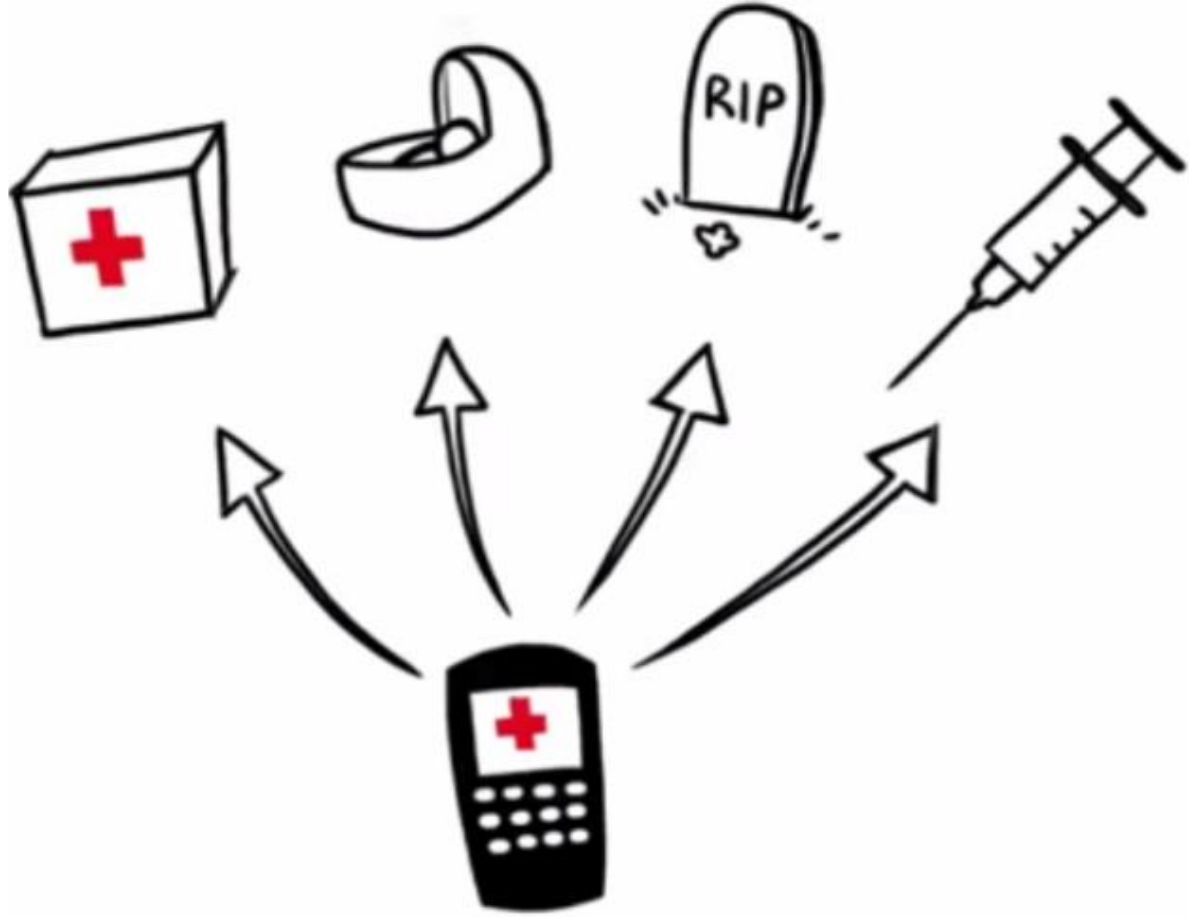


Health Post:  
Weakness and  
dizziness from blood  
loss at birth

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

Duplicative



Error-Prone  
Not Reusable



Costly



## SOLVED WITH OCL

Interface terminology  
linked to standardized  
terminology and  
indicators

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

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