

# CLINICAL AND BIO-SPECIMEN DATA COLLECTION IN A LIMITED RESOURCE CONTEXT: OPENCLINICA AND OPENSPECIMEN INTEGRATION

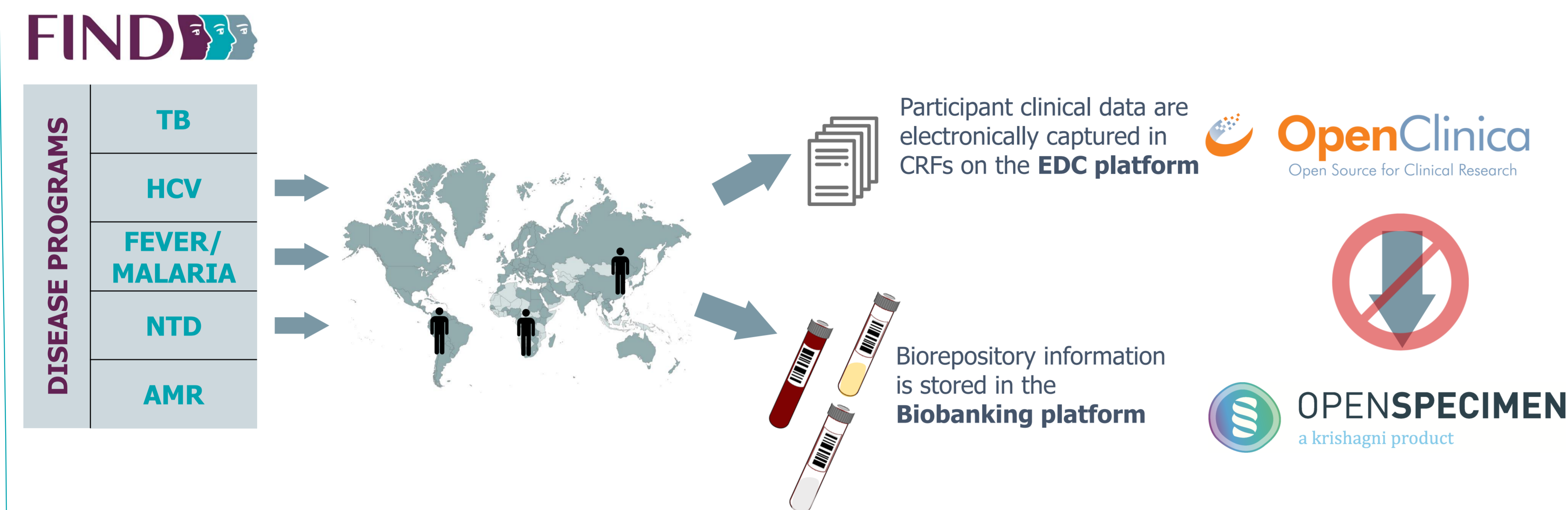
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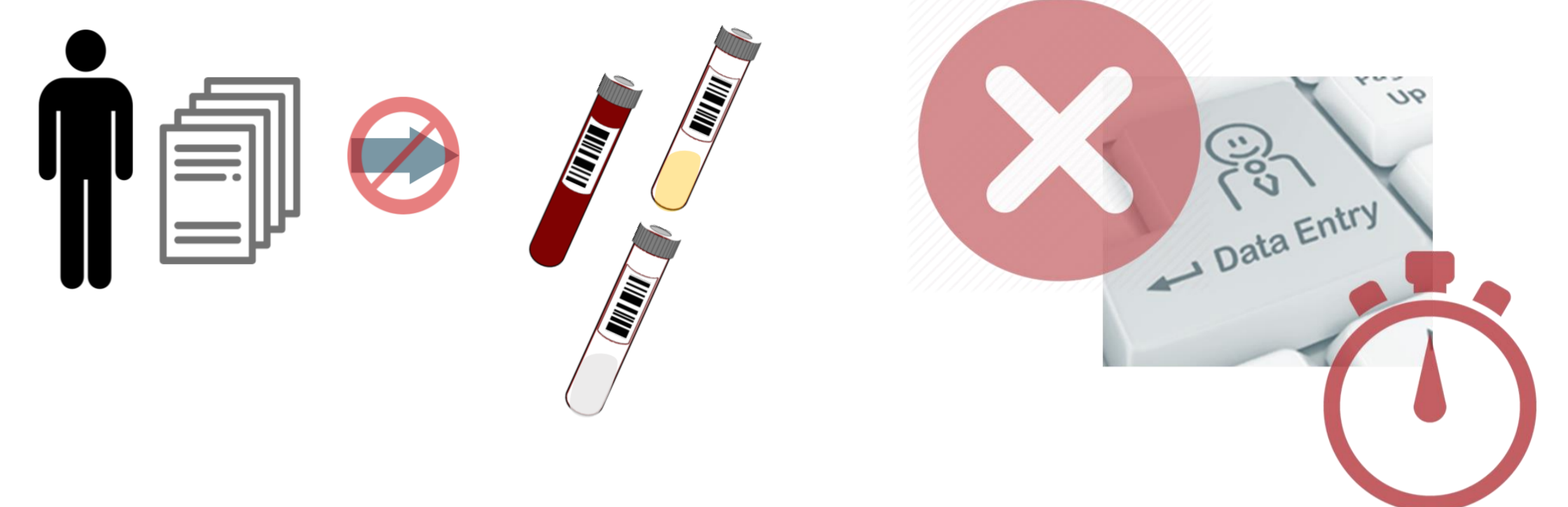
## INTRODUCTION

### SPECIMEN COLLECTION STUDY PIPELINE



### ISSUES

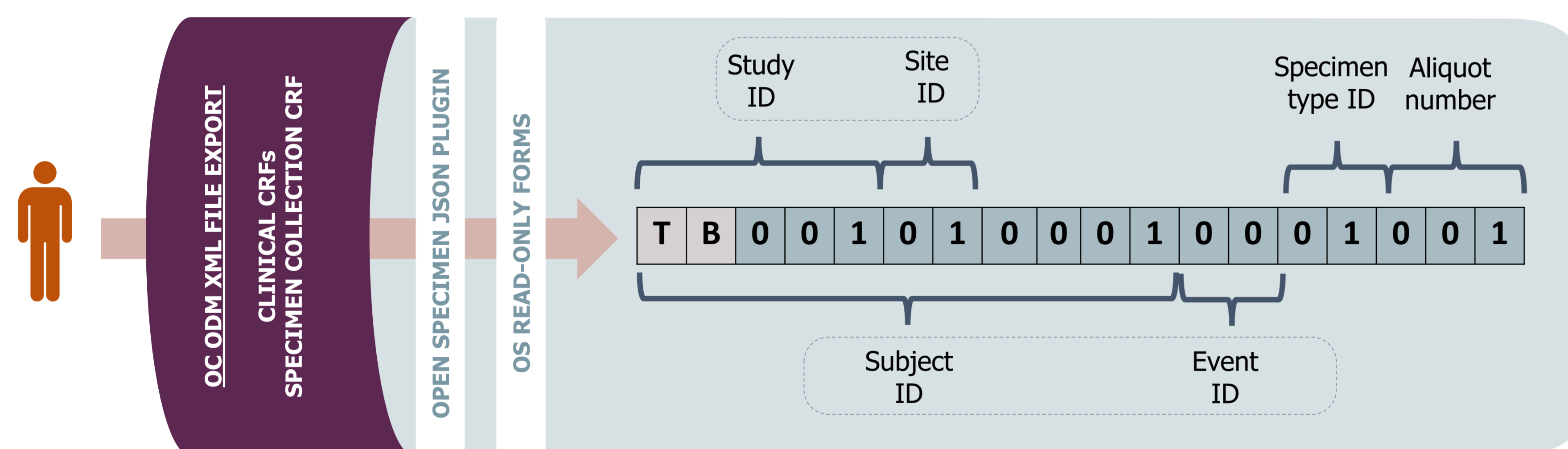
- **No communication** between **OpenClinica (OC)** and **OpenSpecimen (OS)**
- There is **no direct linkage** between participant **clinical information** and to corresponding **collected specimens**
- Use of **two separate platforms** to enter data on site is **error prone** and **time consuming**



## PROPOSED SOLUTION - OPENCLINICA + OPENSPECIMEN INTEGRATION



### HOW DOES IT WORK?



The OS user can deploy the OC-OS plugin through a configurable interface in a few object-syncing steps:

- OC study ID and site ID with OS collection protocol (CP)
- OC subject ID and event ID with OS participant ID and event ID
- Scanned barcodes in the specimen collection CRF on OC lead to registration and collection of specimen on OS platform for the associated participant
- OC CRF metadata are moved to OS read-only forms, acquiring universal variable names through a user configurable dictionary (uploaded csv file)
- All user-desired OC metadata can be easily queried in OS and associated with samples

### ADDED BENEFITS FOR FIND & BIOBANKING COMMUNITY

- Use of **open-source web-based platforms** (excellent value-for-money, minimal hardware pre-requisites) with easily configurable JSON functionality, readily available to the community
- Use of a **single EDC software on site**, avoiding data entry errors and saving time
- **Real-time specimen tracking** from the moment of collection to the point of distribution
- Tracking and **minimization of human error**, such as mislabelling of samples
- **Simplification** of the **shipment process** from sites to our biorepository, and finally to requestors
- Possibility of **offline electronic data capture**, resolving issues with poor internet connectivity
- Improved **quality** of our biobank in an effort meet high QA/QC **standards**

### IN A FEW WORDS...

**FIND (Foundation for Innovative New Diagnostics)** is an international non-profit organization that enables the development and delivery of much-needed diagnostic tests for poverty-related diseases

**OpenSpecimen** is a highly configurable web-based open-source biobanking informatics platform

**OpenClinica** is an open-source software for Electronic Data Capture (EDC) and Clinical Data Management (CDM) used to optimize clinical trial workflow