

MRC-NIHR Trials Methodology Research Partnership: Webinar recording

Validating a cloud based Electronic Data Capture solution

Presented, on behalf of the UKCRC Registered Clinical Trials Units, by:

Amanda Bravery and Francesco Lala (Imperial College London)

3 August 2023

The slides are available below.

For any queries, please contact uktmn@nottingham.ac.uk

https://youtu.be/FakGEsvgwXM

Amanda Bravery Head of Clinical Data Operations

Francesco Lala

Deputy Head of Clinical Data Systems

A Case Study: Computer System Validation of a Cloud Hosted System

Imperial College London

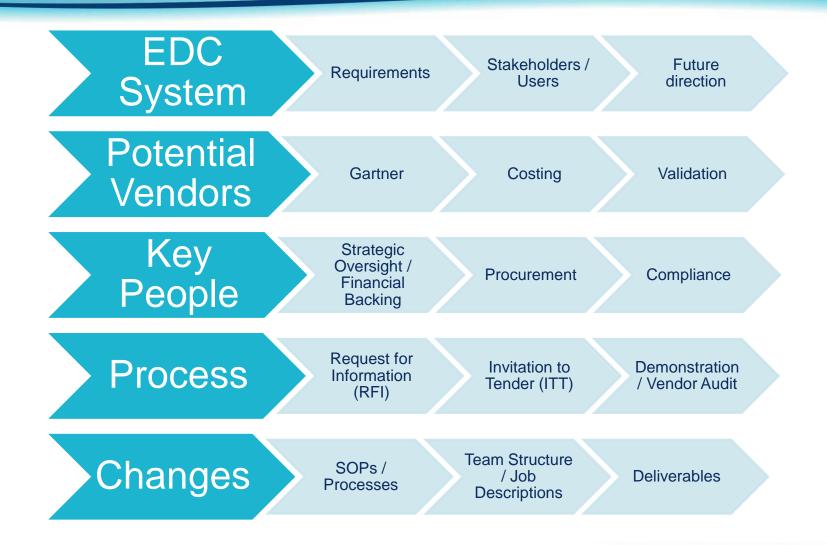
Imperial College defacto electronic data capture (EDC) software for CTIMP trials in sustaining support with provider

Several discussions with current provider to understand their future roadmap for current software.

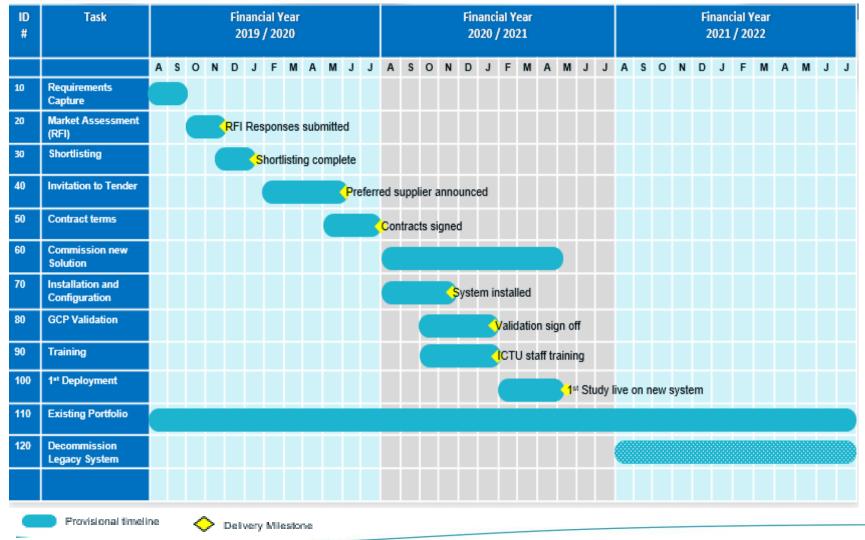
Recommended market review of Clinical Trial software undertaken to ensure that the next version of EDC software used is fit for purpose for at least the next 5 year



Imperial College London



Imperial College London





Stage 1 – Request For Information (RFI)

- CDA/NDA
- Communication Approach
- Functional and User Requirements

Stage 2 – Long List Selection

- Long List
- Cost hypothetical portfolio
- Validation / Compliance

Invitation To Tender (ITT)

- Tender Question Booklet / ITT Document
- Demonstration
- Vendor Audit



Fit against requirements

Master Service Agreement

Service Level Agreements

Financials

Assurance of features
SOPs
Testing
Documentation
IQ / OQ

Risk Assessment
Requirements
Traceability Matrix
Validation Plan
Validation
Summary Report
Test Plan
Test Summary
Report

Quality Assurance audits x 3 during process

Think of it as "Pizza as a Service"

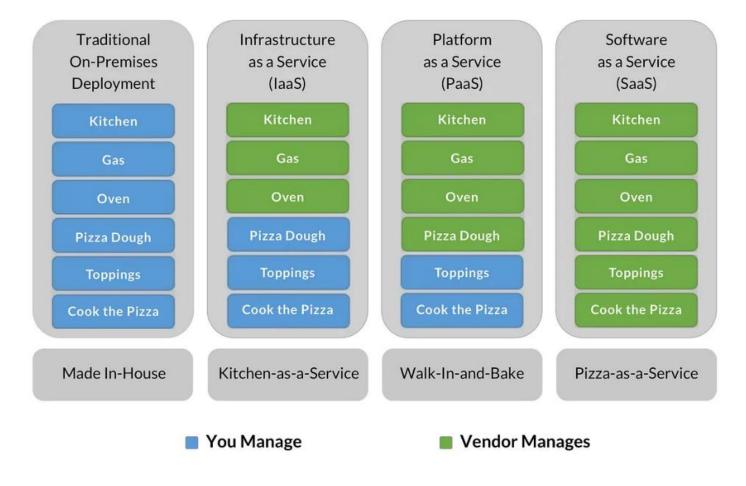


Image generated by David Ng, Oursky

Validation of System

Most vendors will provide a full validation(IQ/OQ/PQ), of their <u>unconfigured</u> <u>base</u> system.

The recommendation is for the Customer, to perform a full initial validation of what would be the configured system in the their environment.

Upgrades/Updates/Patches

Generally vendors will release upgrade/updates every 3-6 months and provide documentation of testing under Change Control.

The recommendation is for the Customer to use that time to do certain level of testing.
Consider is how to deal with mandatory security patches/bug fixes that are released "ASAP"

Data Integrity

Vendors should provide levels of encryption for data both at rest and in transit. But the ultimate responsibility lies with the customer.

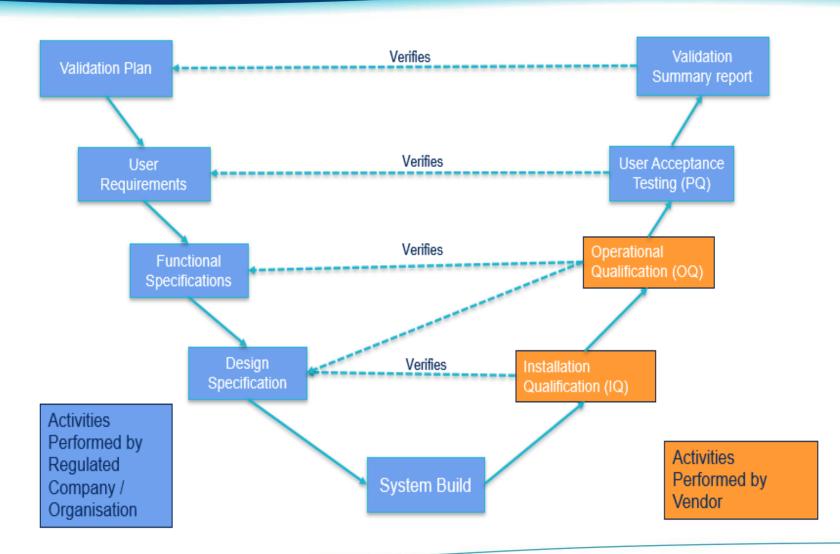
The recommendation is for the customer to incorporate data integrity tests in the initial validation and when testing upgrades.

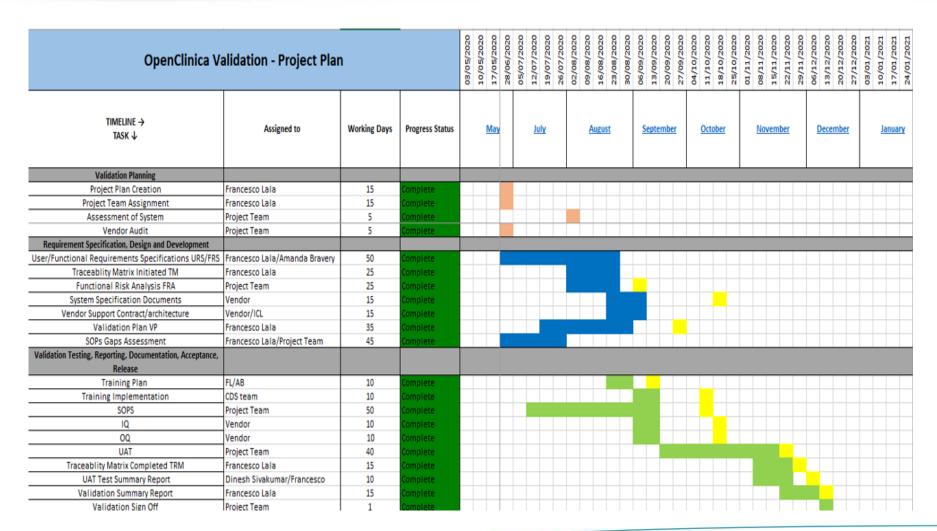
Study Design and Build

Vendor's selling point is that the system(s) will allow study builds by simply using the systems functionalities and interface, (i.e. drag and drop style)

The recommendation would be that new studies/trials would undergo testing targeted at the newly configured components before going live.

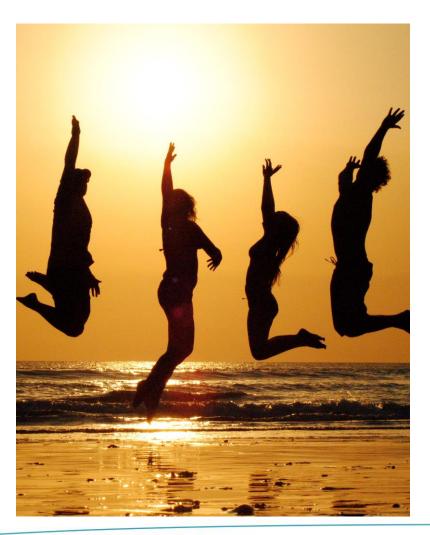
Accompanied by SOPs/WI





Key to Success:

- Define the Process and Team
- Involvement of all key people
- Effective and timely communication
- Vendor co-operation
 - Defined upfront
 - ITT Demonstration
 - Vendor audit
- Documentation prep beforehand
- SOPs
- Training for all user
- Signing of key documents



Thank You