## Multi-format Patient Data FHIR Integration: Typical Implementation Approach

**Detailed Requirements Phase** 

**Development and Configuration Phase** 

**Operational Readiness** 

Planning and Discovery (Week 1-2)

Design and Implementation (Week 3-10)

**Operational Readiness** is a gated check to ensure we receive the following before project kickoff:

- Building the core implementation team
- Define implementation scope and obtain signoff Project charter from sponsor
- Develop Communication plan and RACI matrix

- Begin project planning and requirement gathering process with the client stakeholders
- Request for all sources and associated data files , volume within the client environment
- Analyze the data and the metadata to understand ingestion requirements for Healthlake platform or repository
- Document metadata management requirements based on clients targeted Patient Data repository
- Wireframe the Dashboard requirements and the data mappings

- Design HL7 FHIR CDA— Data Sources Ingestion framework based on the requirements gathered
- Mapping of required metadata in FHIR framework;
- Utilize CitiusTech Accelerators for Data Acquisition, Data Processing and Data Conversion.
- Integration of framework in AWH HealthLake in test
- Flattened the nested resources into views to search and query using AWS Services
- Create Patient dashboard as per the requirement
- Analytics / AI/ML Use case design and test plan
- End to End workflow testing
- Sign off and acceptance from the client
- Configuration in production and Go live

Client will be responsible for providing test data per CitiusTech's specification. CitiusTech will perform data analysis and discovery to create HL7, FHIR, CDA – Data sources Ingestion framework and Patient dashboard, Pop Health and Consumer Analytics for targeted research. CitiusTech estimates a 10-week timeline after operational readiness is complete.