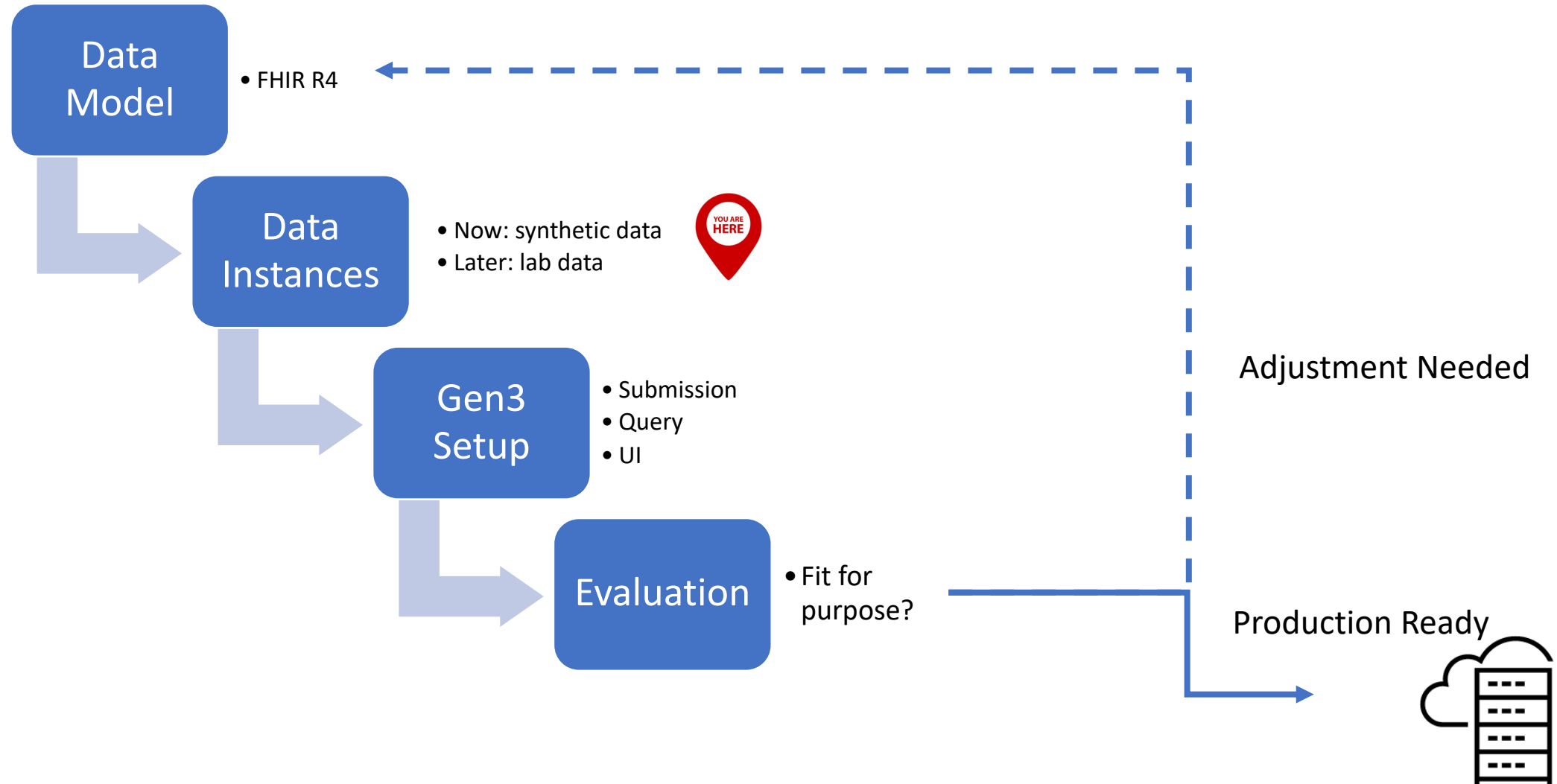


# ACED Datamodel

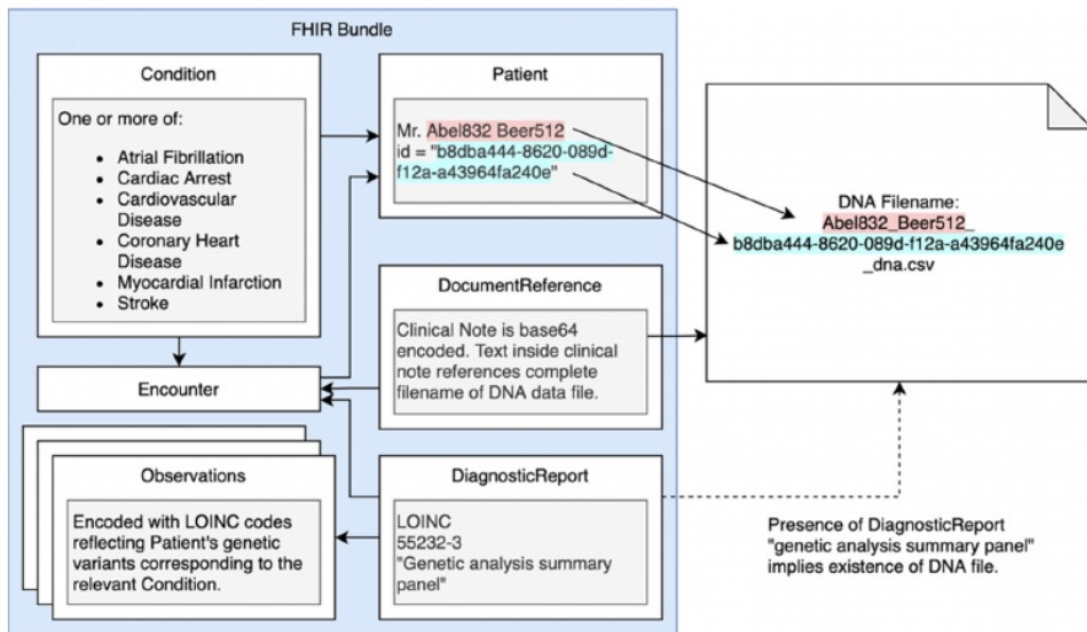
# Overview

# Project Flow



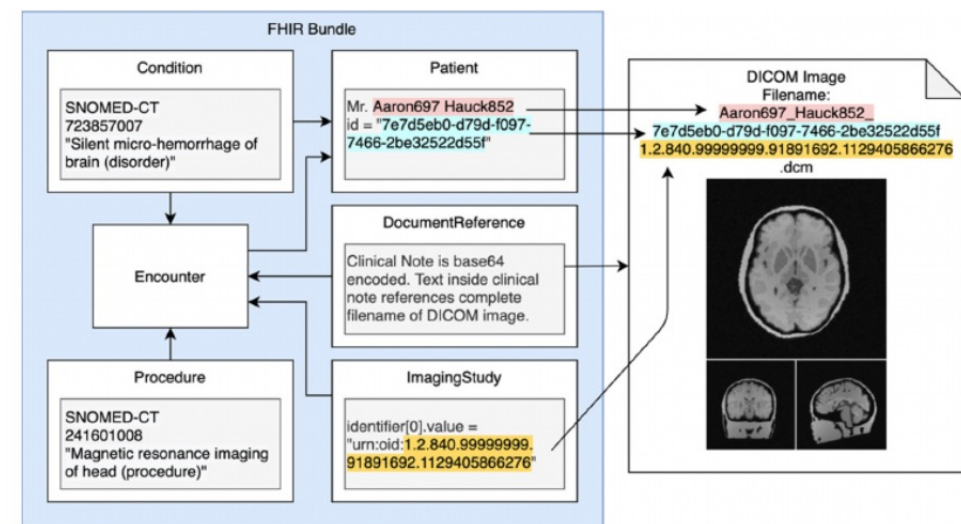
# Goals

- Create a “ready-to-work” environment for:
  - Gen3 development
  - ACED Lab collaboration and data submission
  - <https://guide.quickscrum.com/scrum-guide/definition-of-ready/>
- End product:
  - A set of PFB files ready for import into Gen3
  - Includes genomic and imaging data
- Background
  - [https://www.researchgate.net/publication/359859530\\_The\\_Coherent\\_Data\\_Set\\_Combining\\_Patient\\_Data\\_and\\_Imaging\\_in\\_a\\_Comprehensive\\_Synthetic\\_Health\\_Record](https://www.researchgate.net/publication/359859530_The_Coherent_Data_Set_Combining_Patient_Data_and_Imaging_in_a_Comprehensive_Synthetic_Health_Record)



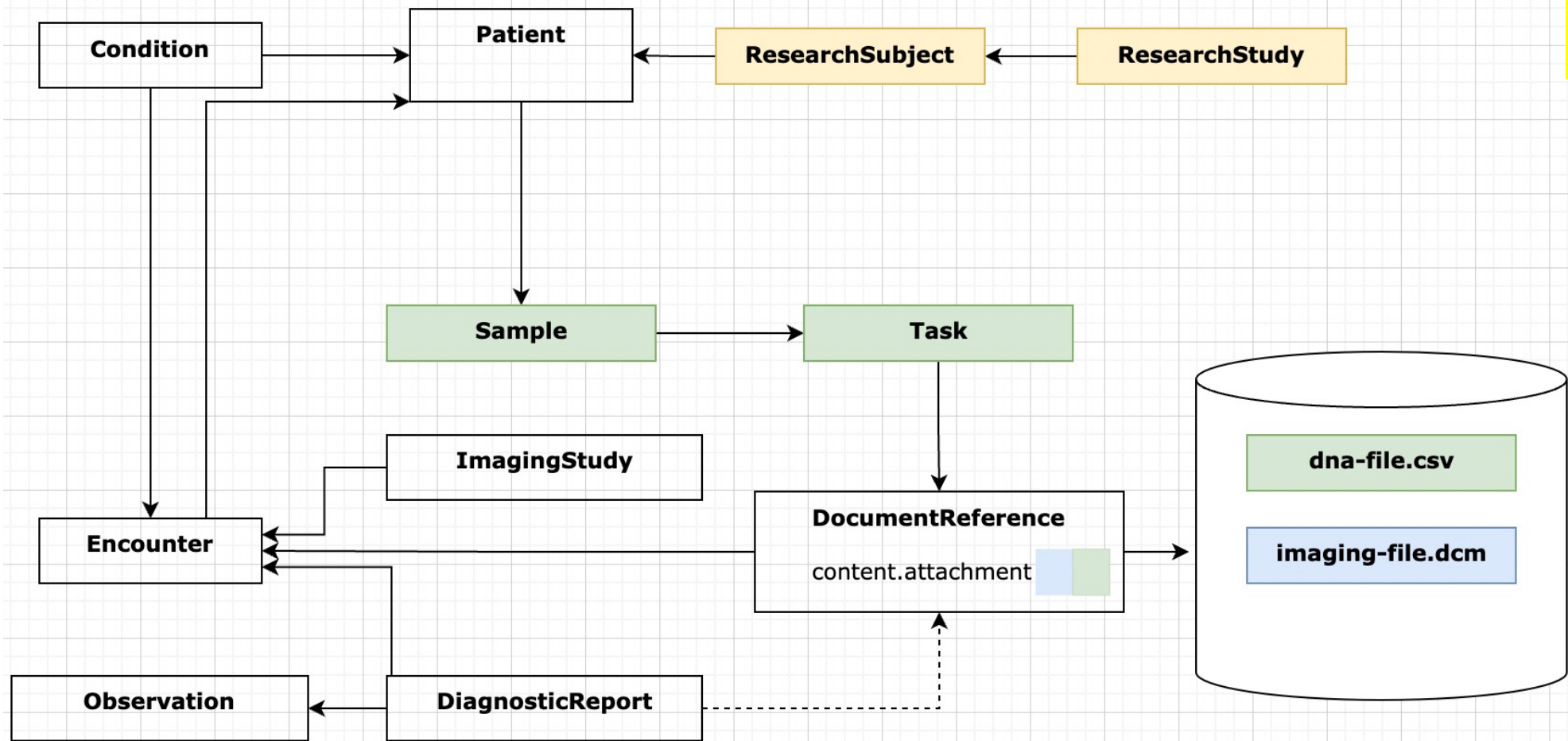
"As-Is"

**Figure 2.** The relationship of FHIR Resources to the synthetic DNA data. A diagnostic report and observations relating to a synthetic genome of the patient are generated during an encounter and then added to their health record. The DNA data file is referenced by a DocumentReference resource within the HL7 FHIR Patient Bundle.



**Figure 3.** Relationship of FHIR Resources and a DICOM image file. An encounter for a synthetic patient that received imaging includes the procedure and imaging study and a reference to the external DICOM image file.

“To-Be”



## ACED Synthetic Research

Transform synthetic population clinical data to research studies.

