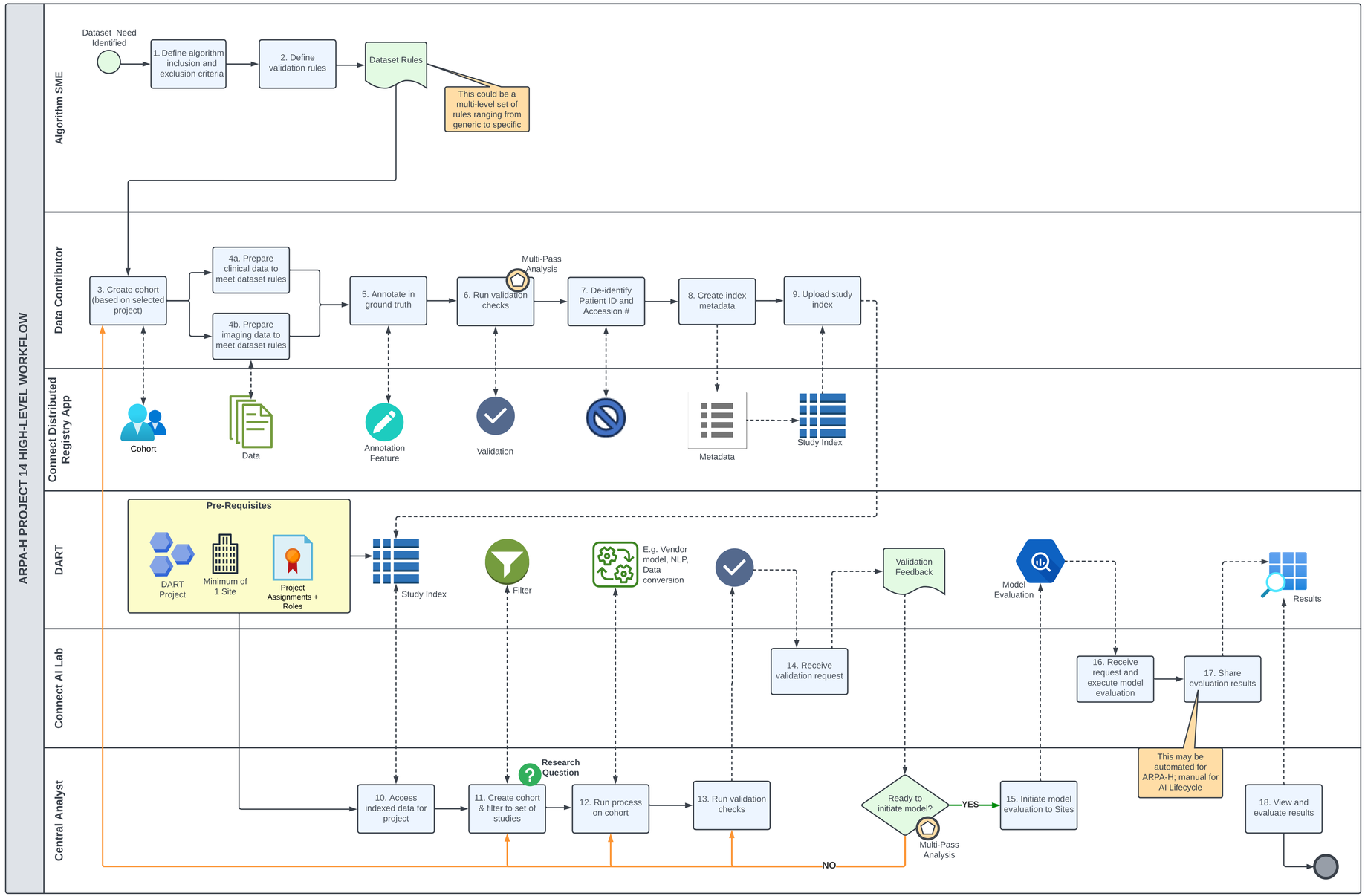

Workflow Trigger: Site has identified a need for a dataset

Algorithm Subject Matter Expert (ASME)
1. ASME defines the inclusion criteria and exclusion criteria for the datta set
2. ASME defines the validation rules to be used by the Data Contirbutor in data prepartion. These rules could be differeent levels of specficity, some generic and some detailed

Data Contributor (DC)
3. DC creates the cohort in Distributed Registry (DR). This cohort will be based on a selected project.
4. DC prepares data to meet defined data set rules in DR
-- a. Clinical data
-- b. Imaging data
5. DC annotates in ground truth in DR
6. DC runs the validation checks in DR. Dependent upon the results, the DC may go through the process again until validation is met.
7. Patient ID and Accession # are de-idenitifed in DR
8. DC creates the index metadata.
9. Study Index is created and DC uploads study index to DART

Central Analyst (CA)
10. CA accesses indexed data for in DART
11. CA builds a cohort and filters to a set of studies in DART.
12. CA runs the necessary actions on these studies in DART, such as Vendor Model, NLP.
13. CA runs the validation checks in DART.
14. Connect AI Lab receives the validation checks and sends validation feedback to DART.
DECISION: CA reviews validation feedback. CA may determine that the validation feedback did not address the research question in Step 11.CA can conduct multi-pass analysis, going back to Steps 11, 12 and/or 13. CA can also communicate, (outside of the system) with the DC and start with a new cohort.
15. When the validation feedback meets the CA's criteria, the CA initiates the model evaluation in DART.
16. Model evaluation request is received and exceuted by remote Connect AI Lab service
17. Connect AI Lab shares the evalution results with DART.
18. CA can view and evaluate these results in DART

ASSUMPTIONS
- Communications between the Central Analyst and Data Contributor are outside of the system
- Validation feedback and Initiation model are asynchronouse communications, and not in real-time