

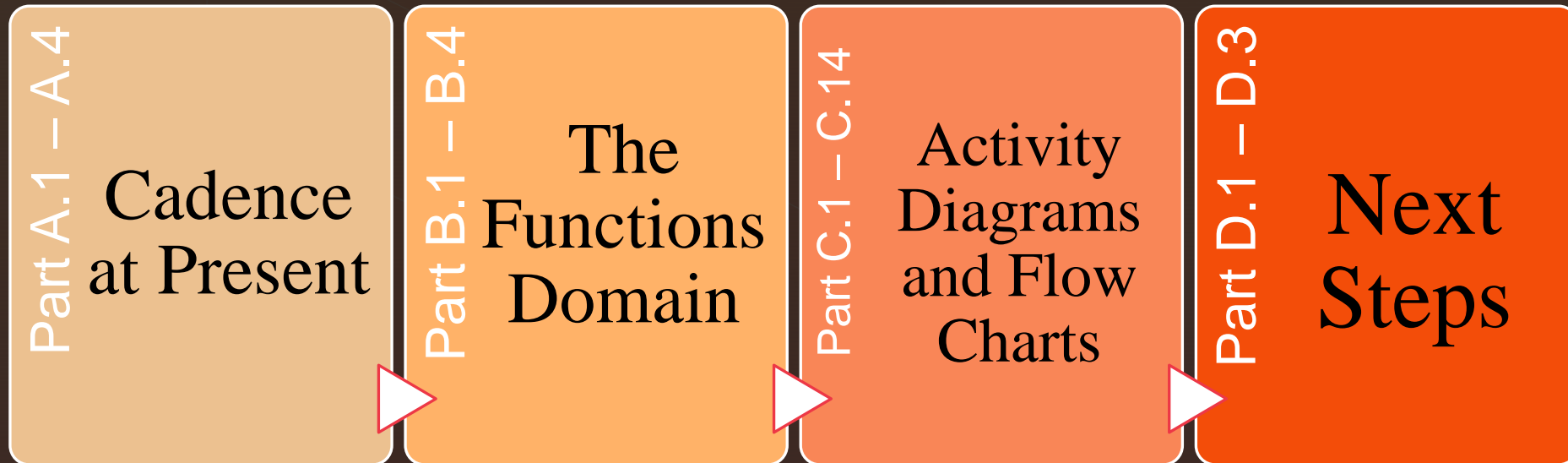
TEAM 03, "CADENCE"

Alloway, Hunter | Di Girolamo, Michael | Wu, Lydia | Yukihiro, Hayley

Stansell, Bruce | Bae, Dr. K. K.

Decision Gate 04: Functions Domain

2021-10-22 Friday Agenda

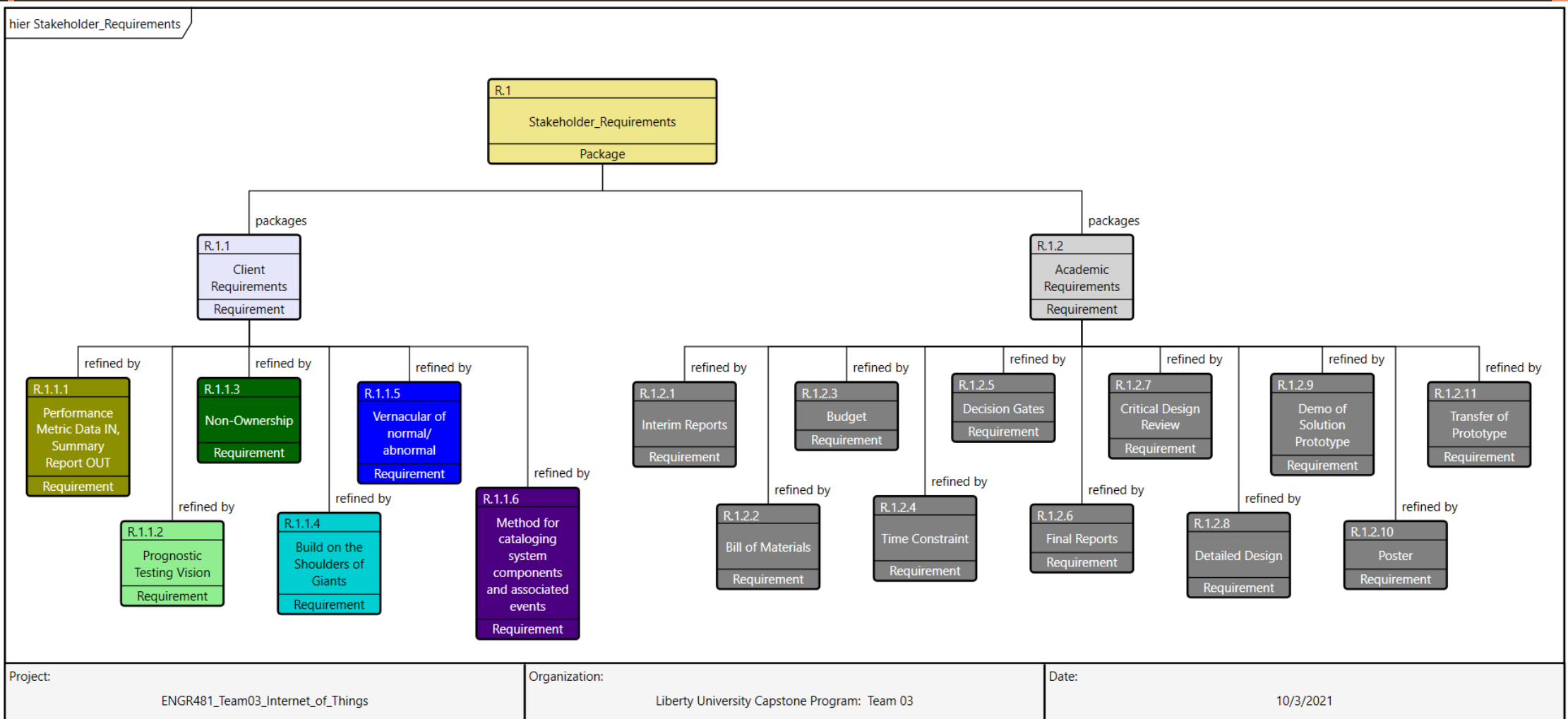


A.1/4 CADENCE At Present

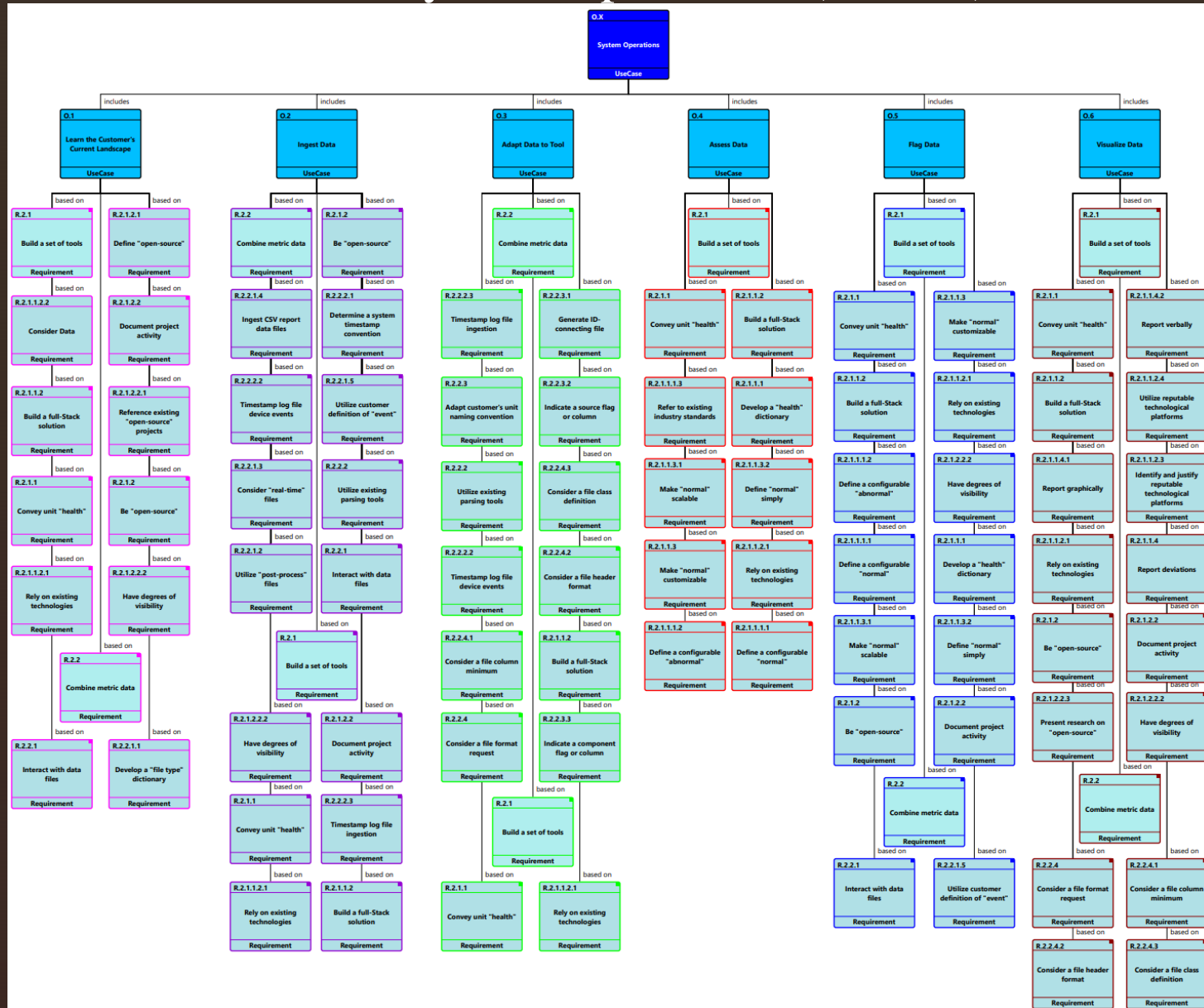
- A.1.1 Mission Statement
- A.1.2 Recent Progress



A.2/4 CADENCE Stakeholder Requirements (DG-01)



A.4/4 CADENCE System Operations (DG-03)



▸ B.1/4 Functions Domain

INSERT Table from the
excel here

▸ B.2/4 Functions Domain

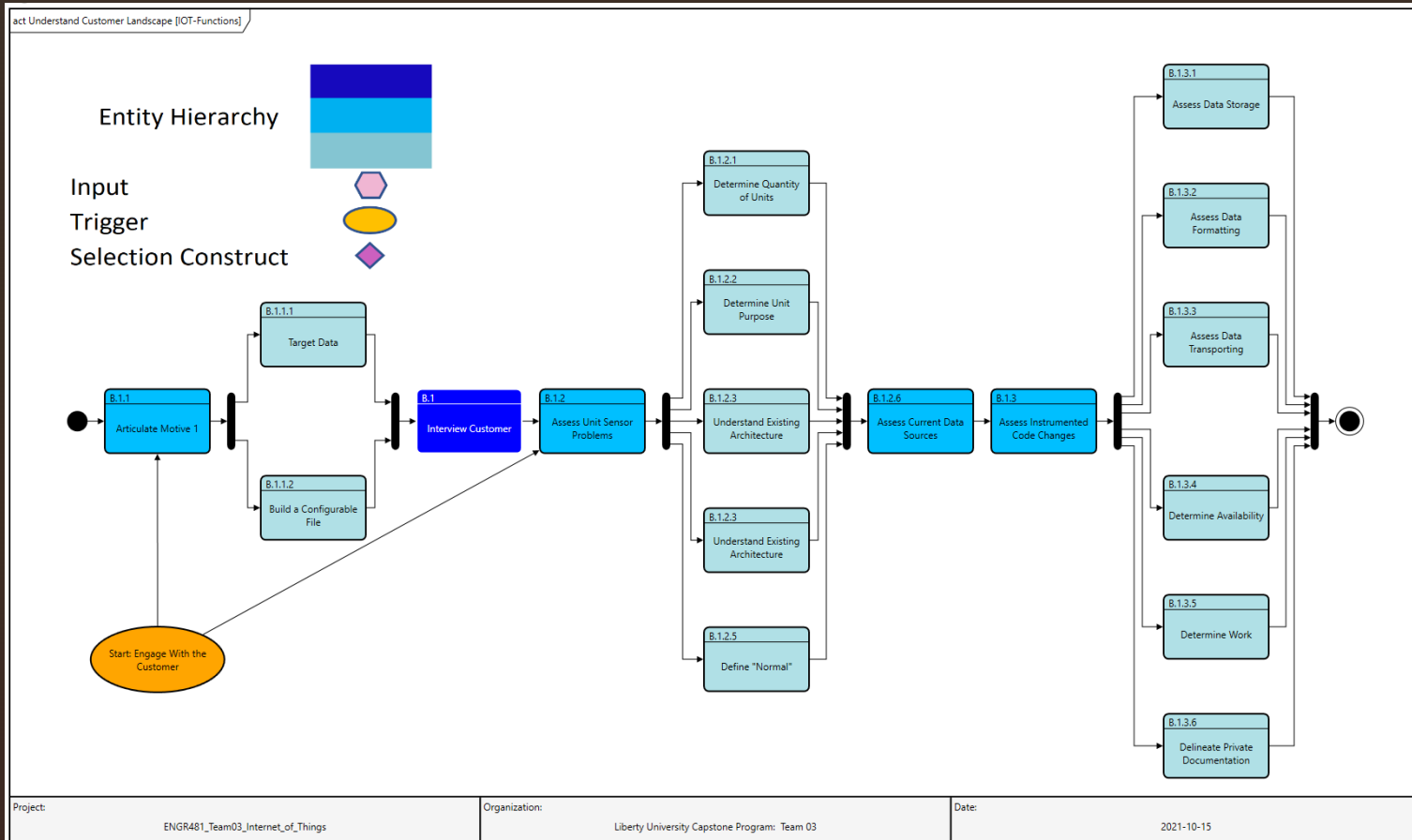
**INSERT Table from the
excel here (cont.)**

▸ B.3/4 Functions Domain

**INSERT Table from the
excel here (cont.)**

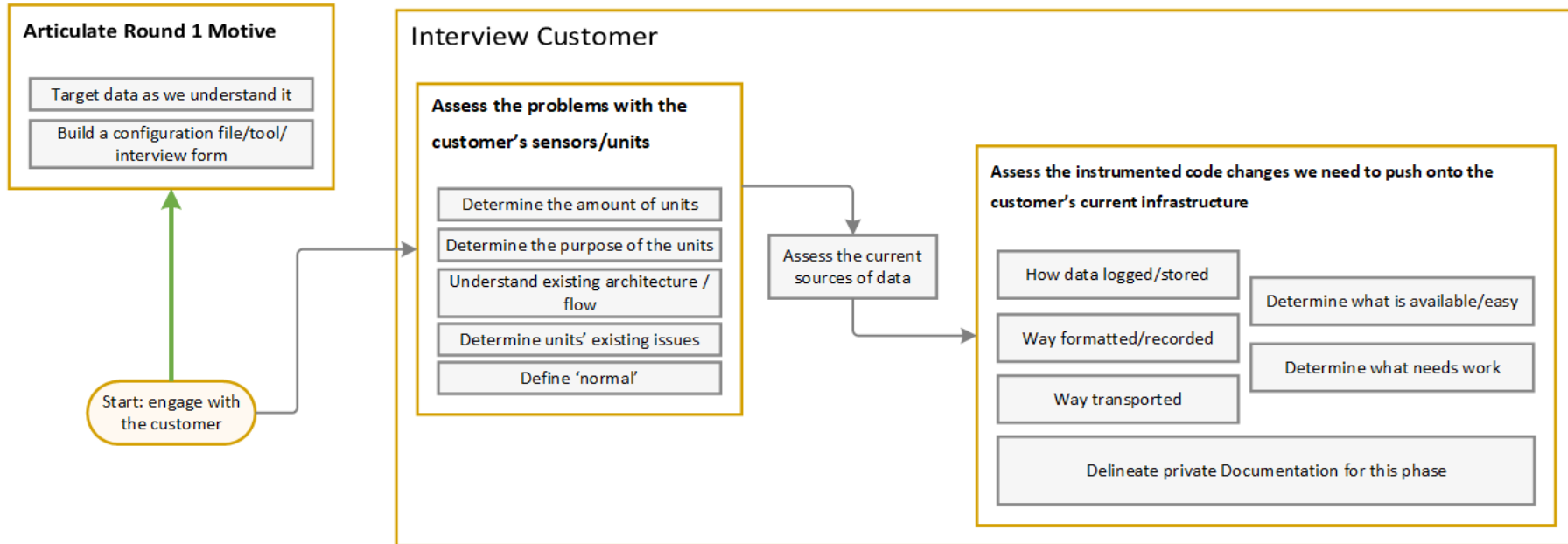
**INSERT Hierarchy diagram
breaking down functions**

B.4/4 Functions Domain Visual

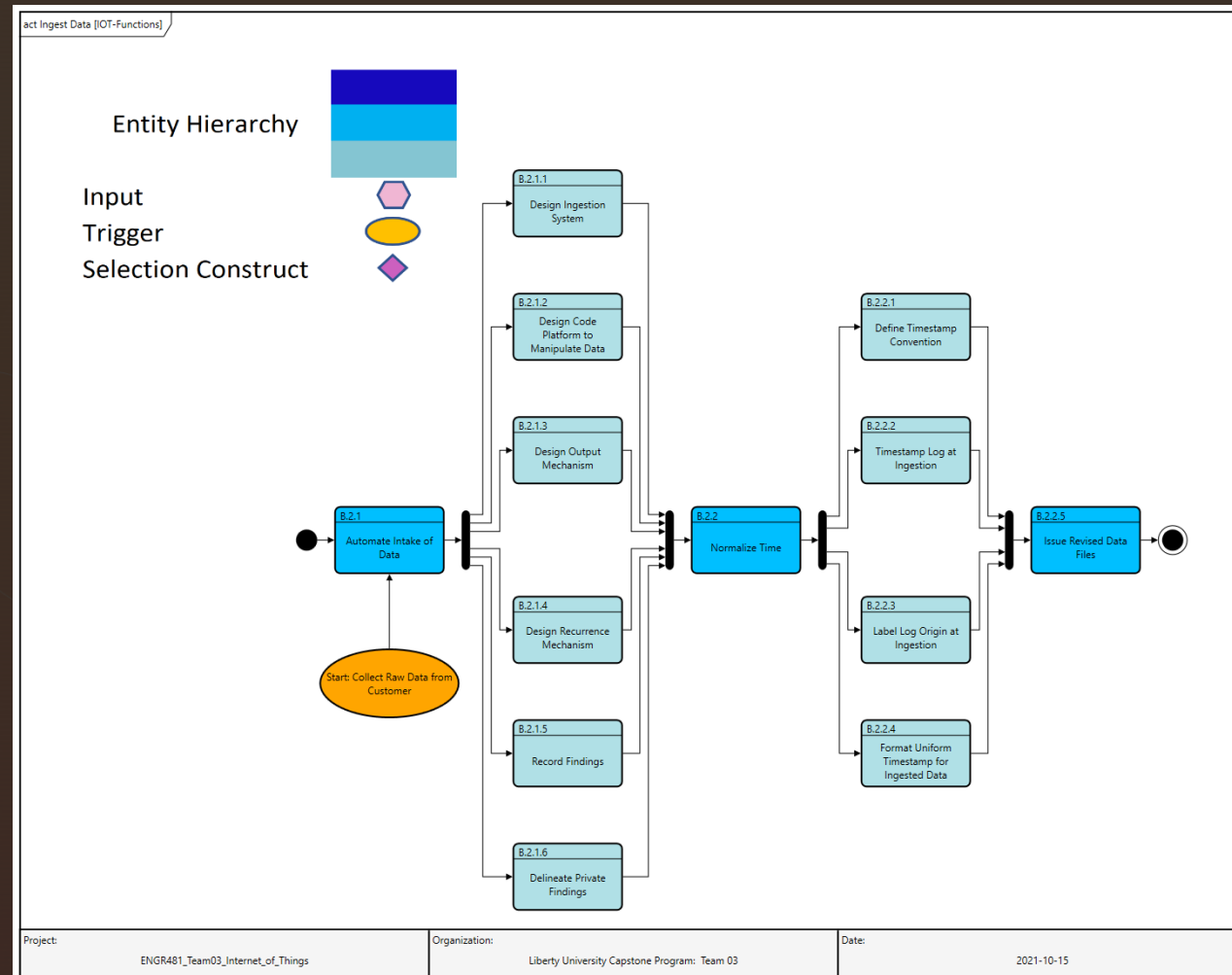


C.1/14 Activity Diagram 1: Operation 1 (Learn the Customer's Current Landscape)

Operation 1: Learn the Customer's Current Landscape

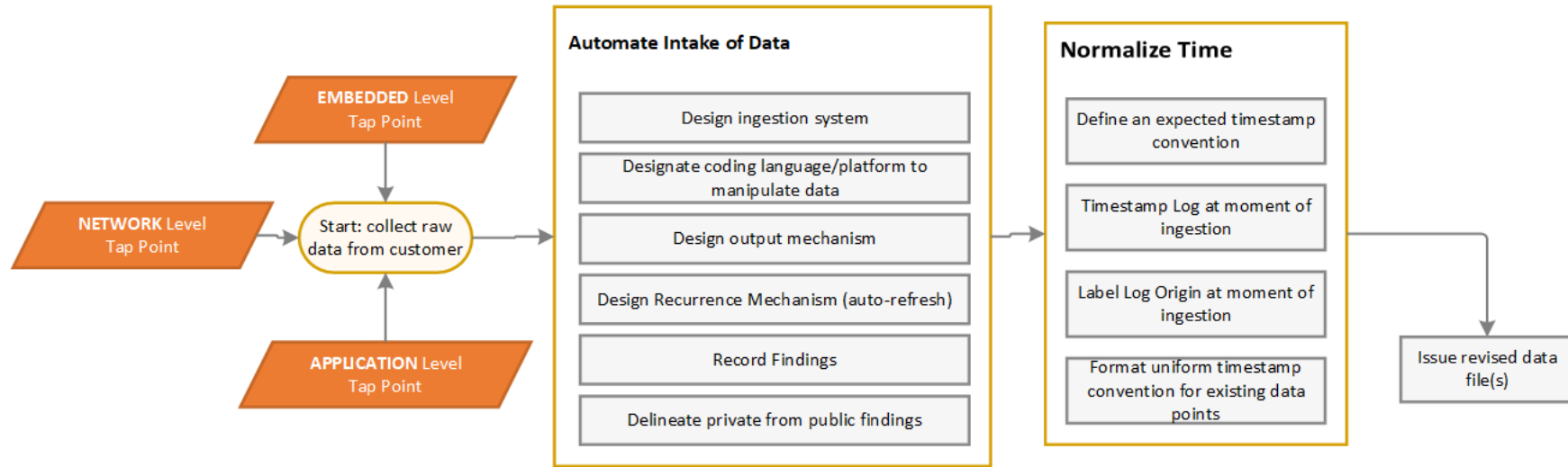


C.2/14 Flowchart Lane: Operation 1 (Learn the Customer's Current Landscape)

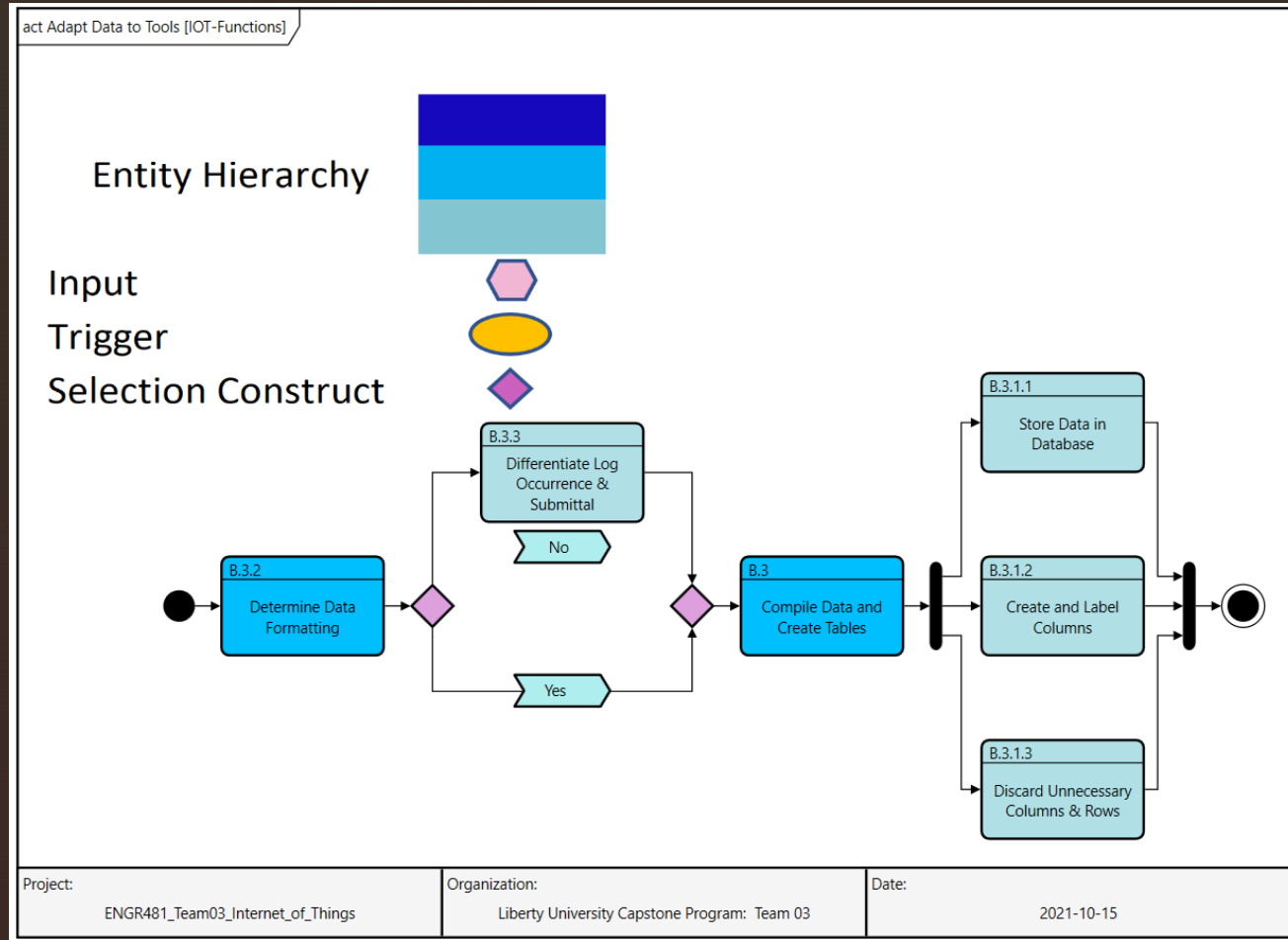


C.3/14 Activity Diagram 2: Operation 2 (Ingest Data)

Operation 2: Ingest Data

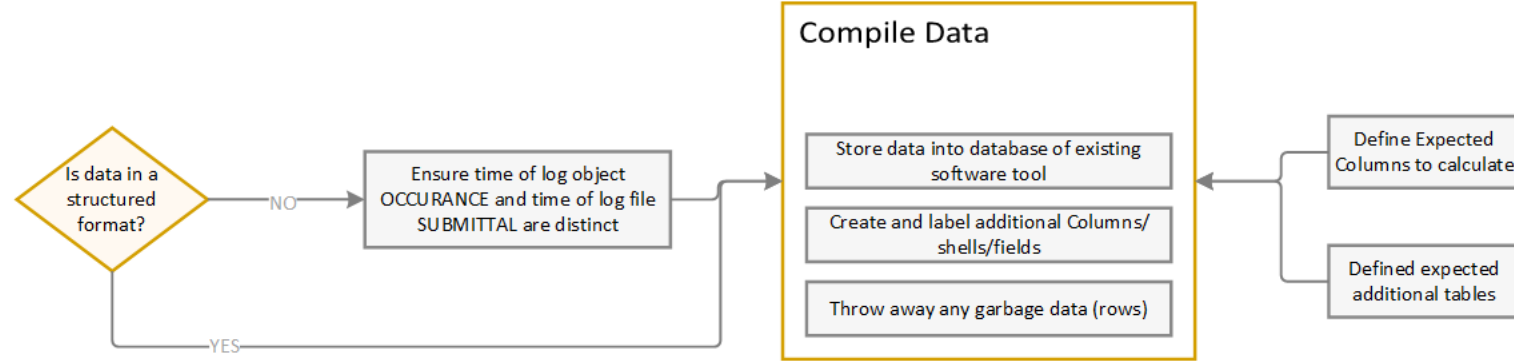


C.4/14 Flowchart Lane: Operation 2 (Ingest Data)

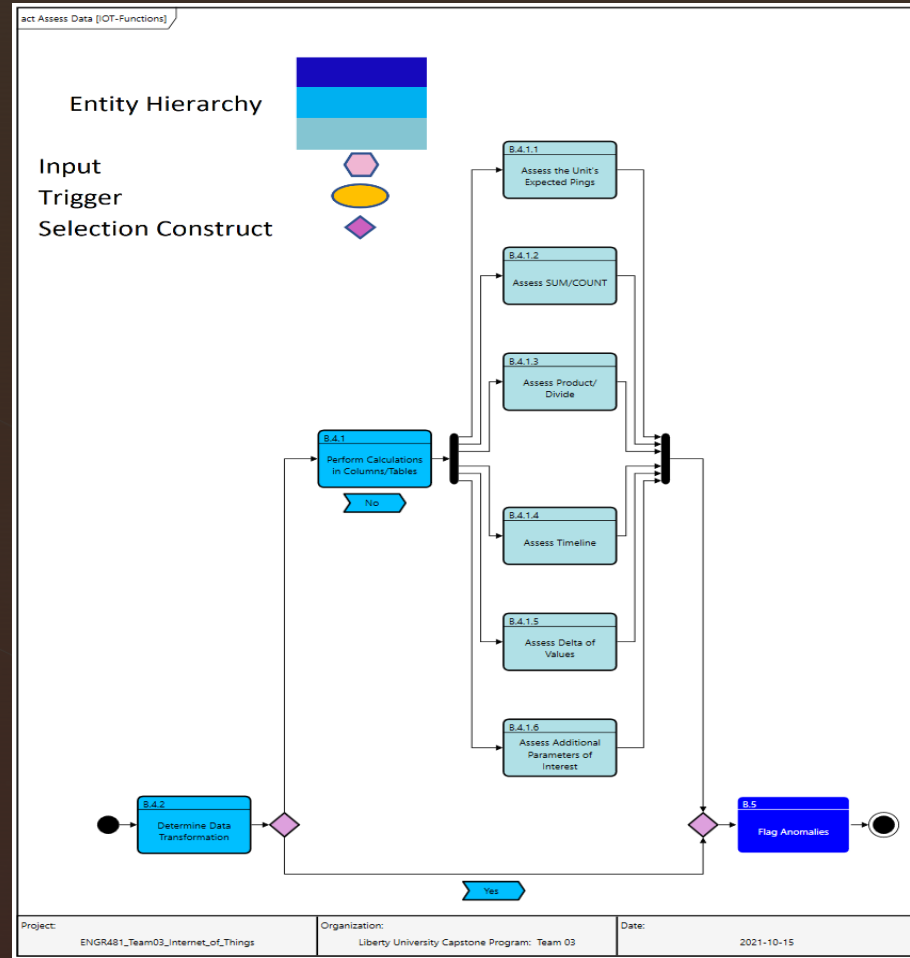


C.5/14 Activity Diagram 3: Operation 3 (Adapt Data to Tool)

Operation 3: Adapt Data to Tool

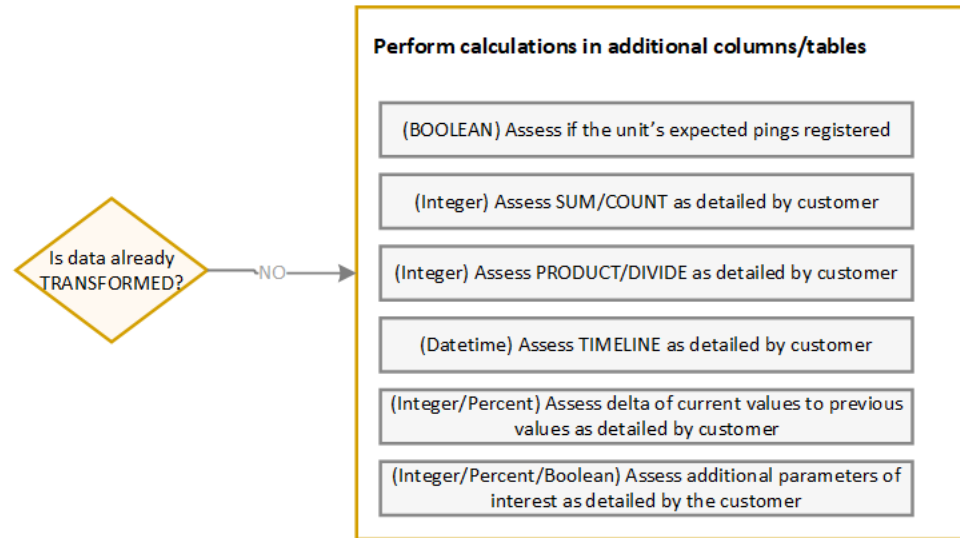


C.6/14 Flowchart Lane: Operation 3 (Adapt Data to Tool)



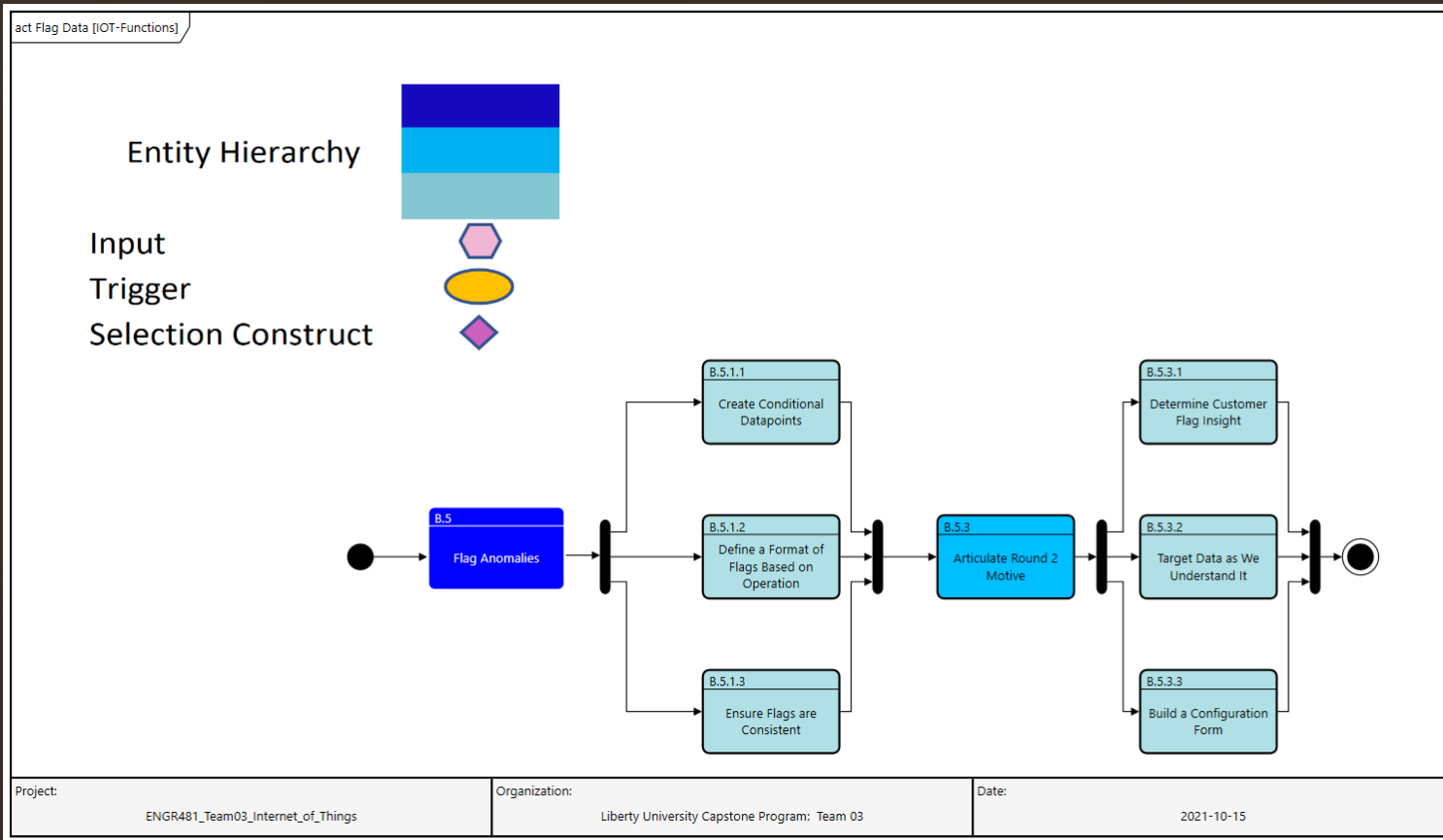
C.7/14 Activity Diagram 4: Operation 4 (Assess Data)

Operation 4: Assess Data

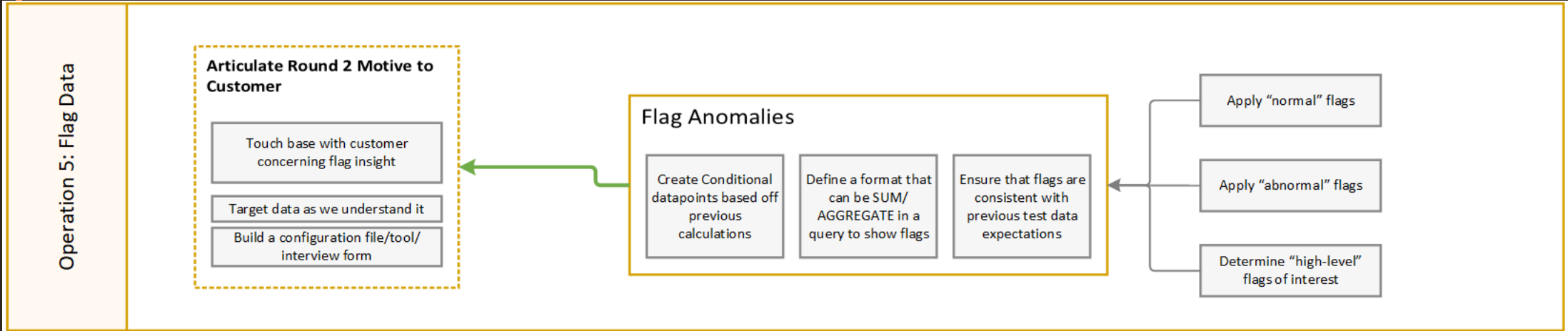


C.8/14 Flowchart Lane :

Operation 4 (Assess Data)

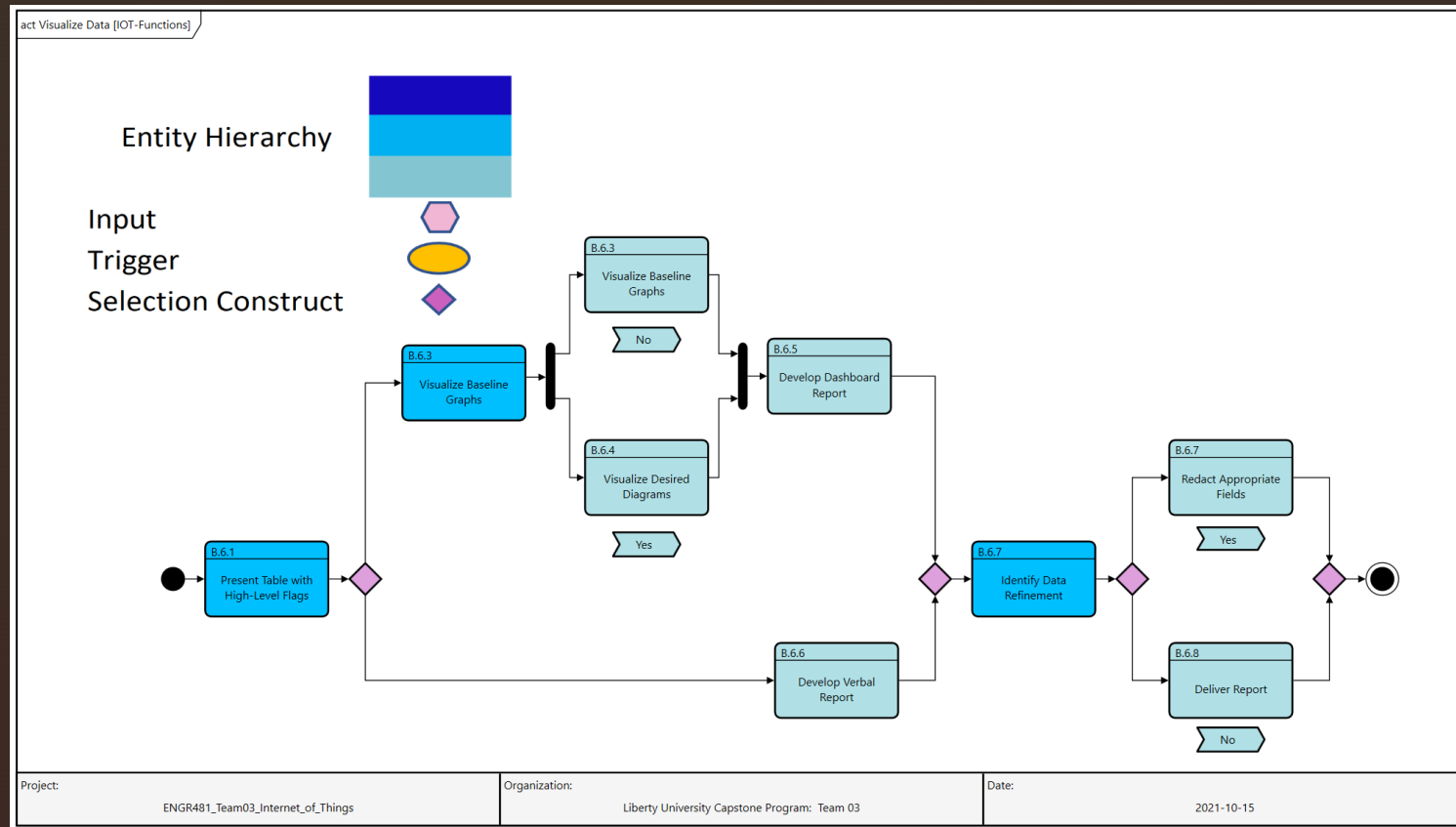


C.9/14 Activity Diagram 5: Operation 5 (Flag Data)



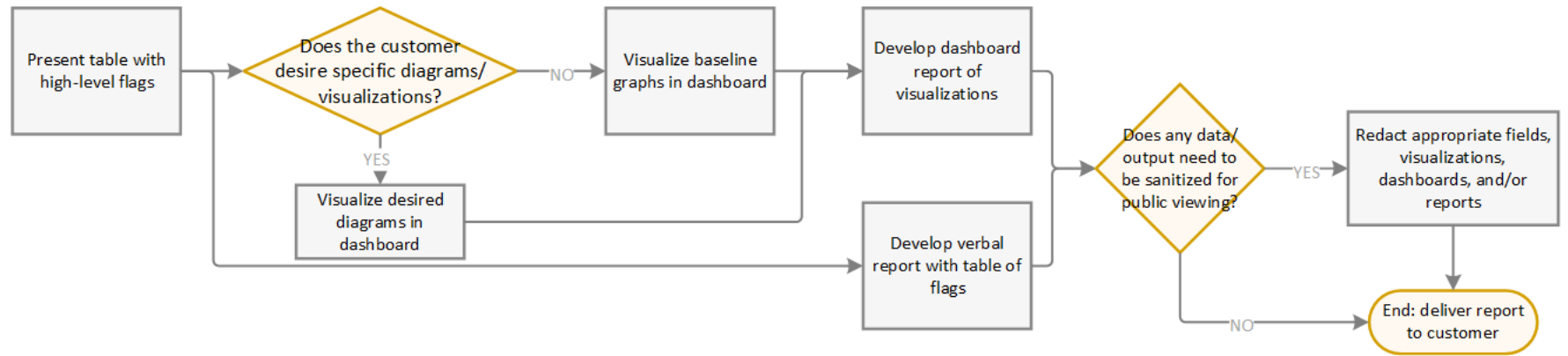
C.10/14 Flowchart Lane :

Operation 5 (Flag Data)



C.11/14 Activity Diagram 6: Operation 6 (Visualize Data)

Operation 6: Visualize Data



C.12/14 Flowchart Lane :

Operation 6 (Visualize Data)

C.13/14 Functions Domain Mapping

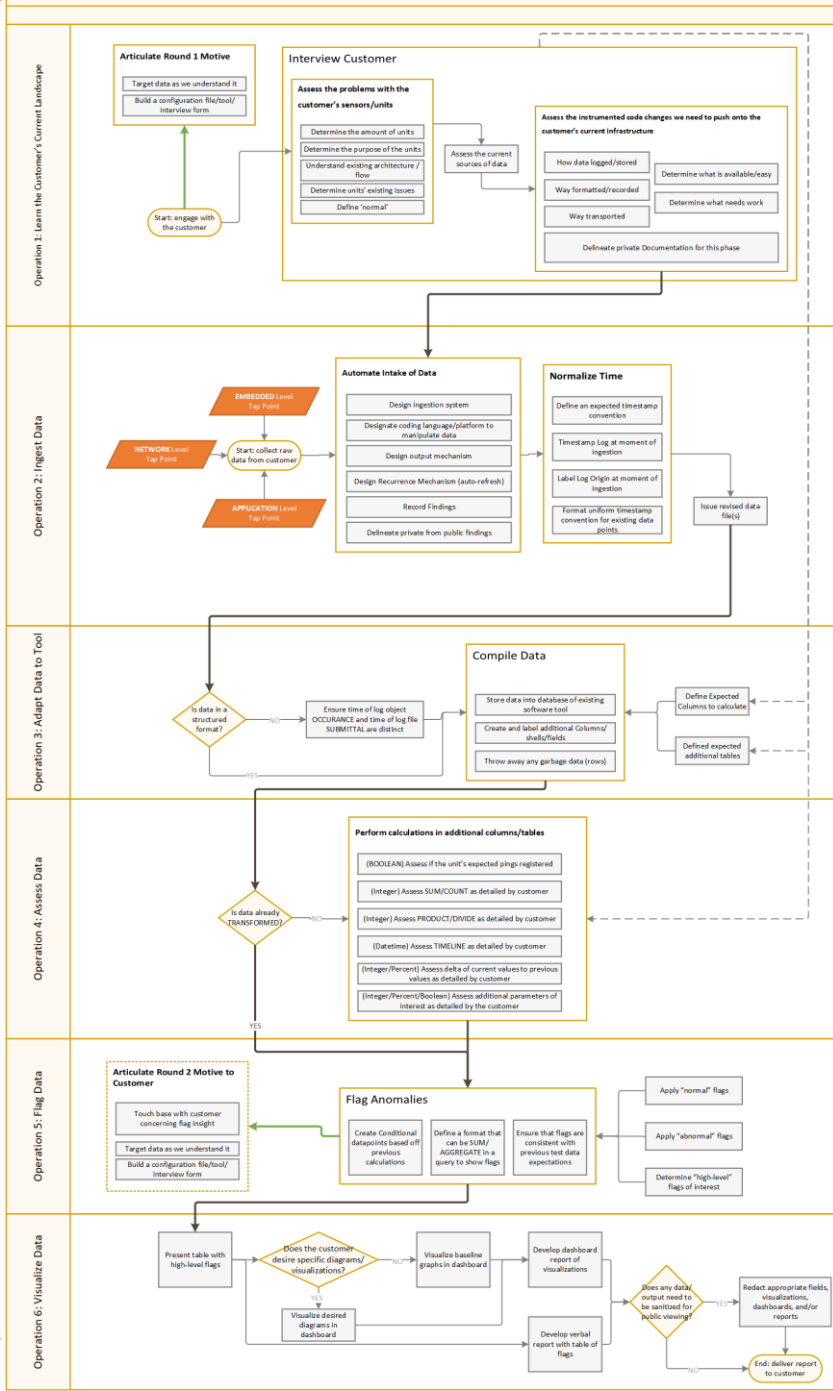
INSERT mapping

(functions to operations)

Table from the excel here

(cont.)

Cross-OPERATION Flowchart [within each operation are black boxes of functions]
 (GOAL: for a human to understand this data) -> Potential Focus: NORDIC Thingy testing



C.14/14 Operations Domain Mapping to *Functions*

D.1/3 Next Steps

- How are all the function pieces related?
- **Friday November 5th**
@ 12PM *tentative*

**DG 05: System
Architecture**

**DG 06: Implementation
Strategy**

- What is our detailed implementation plan for the construction of the “Physical Prototype”?
- **Friday November 19th**
@ 12PM *tentative*



D.2/3 Updated Timeline

Checkpoint	Estimated End Date	Description	Content STATUS	Materials STATUS	Meeting STATUS
DG 05: System Architecture	Friday 2021-11-05 Pending	HOW are all the pieces RELATED?	Brainstorming Phases	Rough Draft from Client Available	<Not Scheduled>
DG 06: Implementation Strategy	Friday 2021-11-19 Pending	WHAT is our detailed implementation PLAN for the SW build?	<Not started>	<Not started>	<Not Scheduled>

▀ D.3/3 Conclusion

- ## Functions Documented
 - Each function can be mapped to one of six delineated operations
 - Each set of functions can be mapped to one Activity Diagram associated with an operation
- Remaining DGs have been solidified in calendar