Other Users

Current users:

- Lab tech (main job to count yeast, but is sometimes need to measure the specific gravity),
- Head and assistant brewer.
- Other brewers (not BTP)

List of Problems or Solution:

Problem	**Interpretation**	**Importance (1-5)**
The client wants a way to measure specific gravity that is less than $25,000.	Cost Efficiency	**4**
Product must be safe… Follow all WHIMS guidelines.	Product Safety	**5**
Use food grade materials for the construction of the product		
Logging the data collected (lasts forever)	Data collection	**5**
Measure temperature and specific gravity		
Product should be resistant to: Pressure, alkaline cleaners, and waterproof…	Durable	**5**
Wired device --> Backup battery encase of power outage.	Reliable	**2**
Not free floating (not floating in the beer) and	Device attached to tank	**5**

should be attached to the inside tank.		
App to visualize data	Use of an application to check the data when the user is outside the work	**1**
Data sent wirelessly; Bluetooth preferred over Wi-Fi	Wireless compatibility	**2**
Inline port is 1.5" diameter, larger port is 3" and port on the top is 8-10". Top port needs to be used for other purposes so if solution is adapted for this port it needs to be easy to remove and put back.	Constraints	**5**
Wastes too much beer when measuring and measurement takes too long	Minimize waste and time spent measuring	**4**

Problem Statement:

Build a tool that measures specific gravity and temperature, records the data and sends it to a centralized hub. The device must meet safety standards as well as physical limitations of the tank it is used for.

Questions yet to be answered:

- Cost difference between Bluetooth/wireless solutions vs wired solutions
- Which port provides the most benefits