

08/14 WK4 Client Meeting

Location	Hancock Library room 3.38
Date	2019/08/14
Time	4:15 - 5:00 pm
Attendees	Derek Tan, Lily Zhang, Jessica Ying, Andre Olivier Martin Amidy (client)

Agenda

More research
Communication with Anker
Cost
Technical suggestion from Jiefei

Notes

Jessica: we should visualize the risk analysis to look more professional
Risks we currently listed are too broad. We need to make them more specific.
Andre wants to split the risks up.
Eg pressure problems: in the cooking phase and separation phase
Pressure too low, not too big of a risk. Pressure too high, a big risk.
Finish the technical design part before Audit 2.
Mostlikely, there will not be a physical prototype for our project since we focus on the designing part of the project for this semester.
We need to make it clearer for our final output.
Andre is very confident that we will get a very good mark. If not, we will complain.
Find soldier fly body composition.
We need to know how much protein, meal, oil and water to get out of the rendering plant.
Anker is fine with this project being a fully designing project.
Think about what is feasible.
But there were good questions: are we going to design all of the components or buy off the shell product. We will need to spec.
Low energy one might be better to scale down than the conventional rendering plant.

A: wide range of prices. Is it possible to get an expected cost for
 What's the cost for goterra to not having one
 What the opportunity cost is
 What's the return
 How long the machine last for
 NPV (Net present value)
 Reverse engineer the net benefit
 If I want
 Cost of input, running, value of the output. Compute the profit
 Can provide two options, one cheaper
 Try to do the cheapest thing that would achieve the expected functionality. If we do have extra,
 Make sure we have access points for maintenance.
 Need to modify the shipping container. Add our steel structure in the container so we can
 remove the side panels for easier maintenance.
 Balance the weight.
 Shipping container weight limit?
 Understand the process => see if it can fit in a 20ft container => design inside out
 Approach Jiefei for technical side assistance.
 Martin is happy with 2D drawing for processes.
 Standards for the output. Eg, is the protein safe enough for humans to use. Is it safe to use the
 oil produced in cosmetics.
 You want the process to be fast if you need someone to be there while it operates.
 If you can control/ monitor it remotely, you can run it a bit slower.
 Standard ISO shipping containers are 8ft (2.43m) wide, 8.5ft (2.59m) high and come in two
 lengths; 20ft (6.06m) and 40ft (12.2m).

Action Items

Action item	Owner	Deadline	Status
visualize the risk analysis	Lily	08/20	Completed
Find soldier fly body composition/ Rendering standards	Derek	08/20	Completed
Initial sketch with a short paper about what each component does	Andre	08/22	Completed

Figure out software to use	Jessica	08/20	Completed
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Things to consider in the future:

NPV (Net present value)

Shipping container modification

Understand the process => see if it can fit in a 20ft container => design inside out

3D schematic drawing