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

Details:

Jessica: we should visualize the risk analysis to look more professional
For the stupid things, we will do it but we will do it under protest
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.
It seems like Jani was not listening.

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

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