

# 08/14 WK4 Client Meeting

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

We should visualize the risk analysis to look more professional

Risks we currently listed are too broad. We need to make them more specific.

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.

Most likely, 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.

Find soldier fly body composition.

We need to know how much protein, meal, oil and water to get out of the rendering plant.

Ankur 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

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:

visualize the risk analysis (lily)

Find soldier fly body composition/ Rendering standards (Derek)

Initial sketch with a short paper about what each component does (Andre)

Figure out software to use (Jessica)

Update task status

## 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