# **Algae Innovation Challenge**

## Innovating with biology for a sustainable future

### How can we grow a greener future with algae?

Your challenge is to design a product or a process, using algae, that makes an existing product or process more sustainable.



#### Watch these video links to learn about:

- (a) Algae Possibilities
- (b) <u>Algae's Past</u>
- (c) <u>Algae's Future</u>
- (d) Algae Innovation at UTS

Brainstorm your 'what'

Start out by finding your definition of 'Sustainable' This will help to guide your idea.

#### Define your 'why' and your 'who'

What is the problem you are trying to solve?

When have you recently thought, 'there has to be a better way to do this'?

Why is the current process, product or service unsustainable?

Who are you trying to help? Who might benefit from innovation in this area?

It might help to use large pieces of paper, post-it notes, a whiteboard or a smartboard to brainstorm your ideas.

Brainstorm a solution or an alternative to your problem that uses algae.

Your ideas can be as wild, unique, unusual or unreasonable as you like (don't worry if they seem silly, go for quantity of ideas!)

You can list ideas that you have seen before, or ideas you've imagined yourself.

*Try putting on your favourite song or set a timer for 3-5 minutes and come up with as many ideas as you can* 



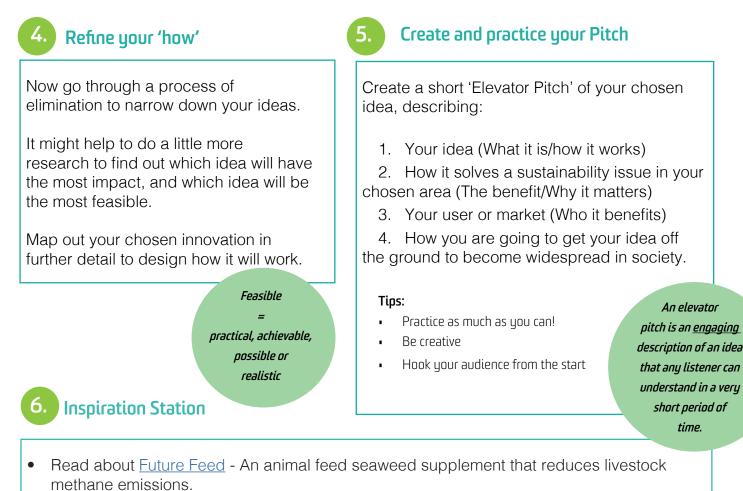
*"Curiosity taking cues from nature has long been part of innovation"* 

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- Watch this <u>ABC news feature</u> about a Sydney brewery using algae to offset their carbon emissions.
- Learn about algae being used in <u>buildings</u>, <u>asphalt</u>, <u>food</u>, <u>ink</u>, <u>plastic foam</u> and <u>Omega 3 oil</u>.

Deep Green Biotech Hub

#### Have more algae questions? Get them ready for our Student Q&A session on Friday the 23rd July!

*"Envisioning the future is the first step to shaping it"* 

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