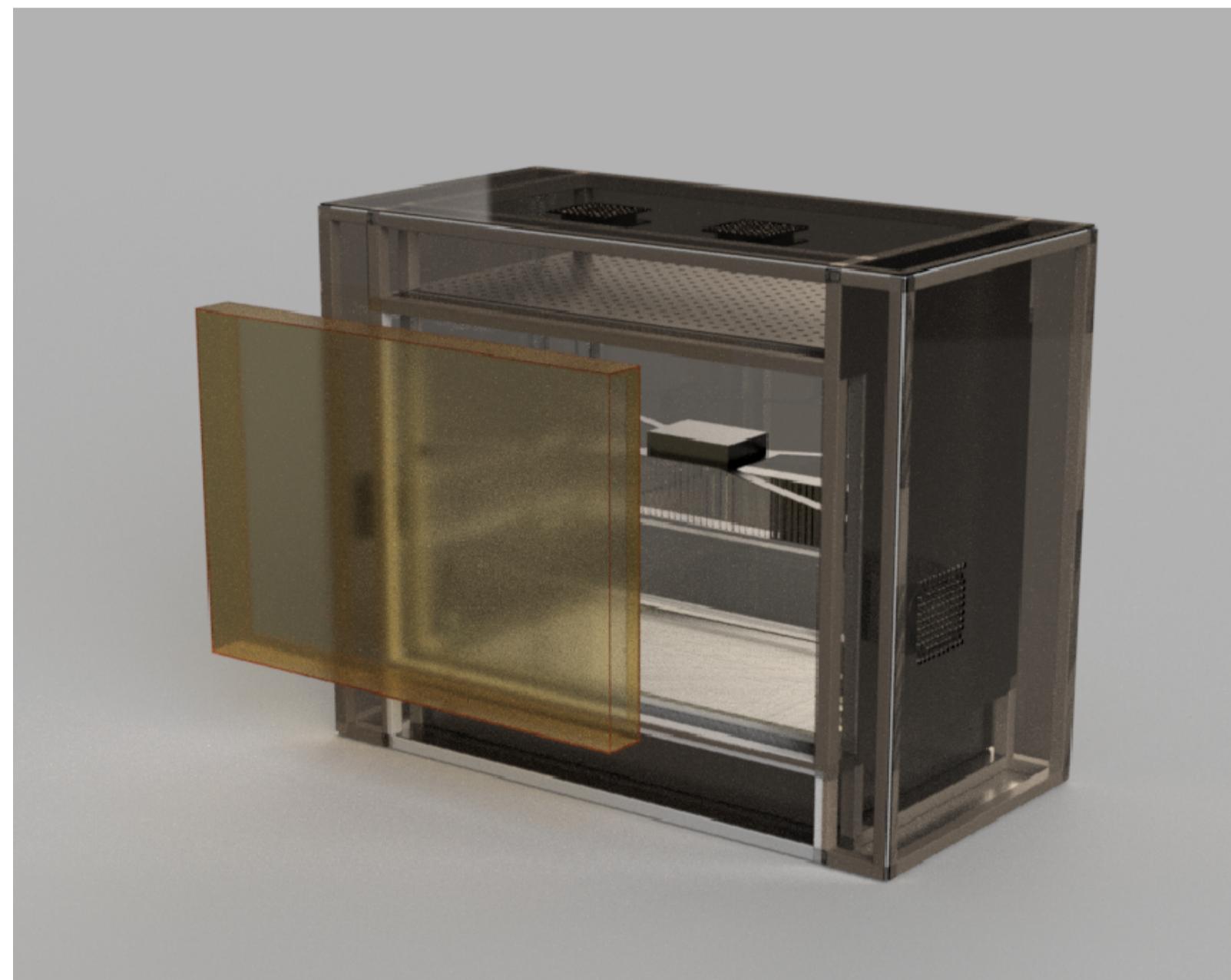


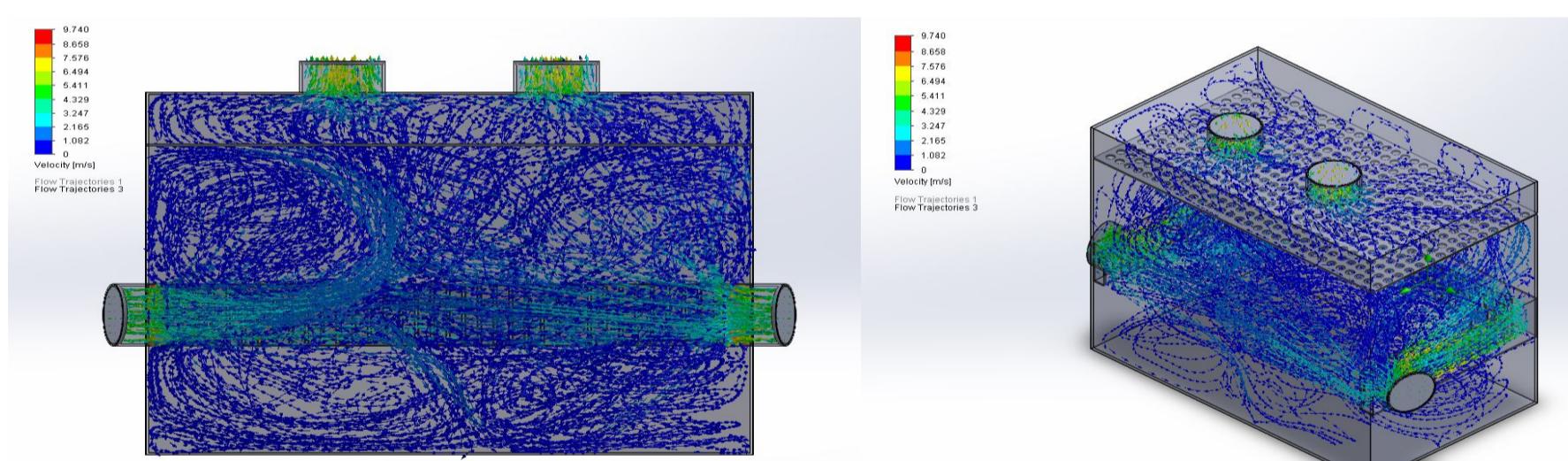
Modeling,Designing and Simulation of Grow Box

Abhishek Kumar Verma Mentor: Lohit, Ajit, Vishwanathan, Rucmenya

VERSION 1



AIR FLOW SIMULATION



PROS

- Good Air Circulation
- Water Storage
- Flexible light position
- Modularity
- DIY Design

CONS

- Costly
- Complex Design
- Bigger in size

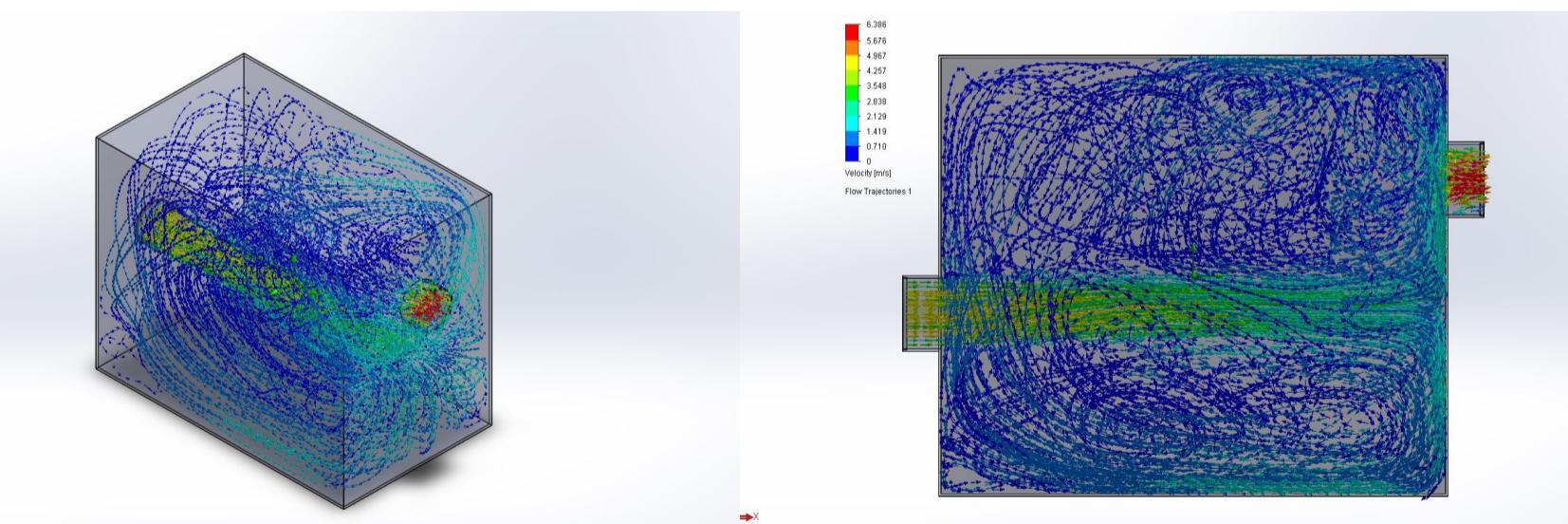
MOTIVATION

- The present GrowBox has all the necessary properties and has potential to be a product.
- It's now time to put everything in order, in terms of hardware, a good water container, flexibility and its structure.
- By doing this not only it will make market appealing, but also brings in an design attitude towards project development cycle.

EXISTING VERSION



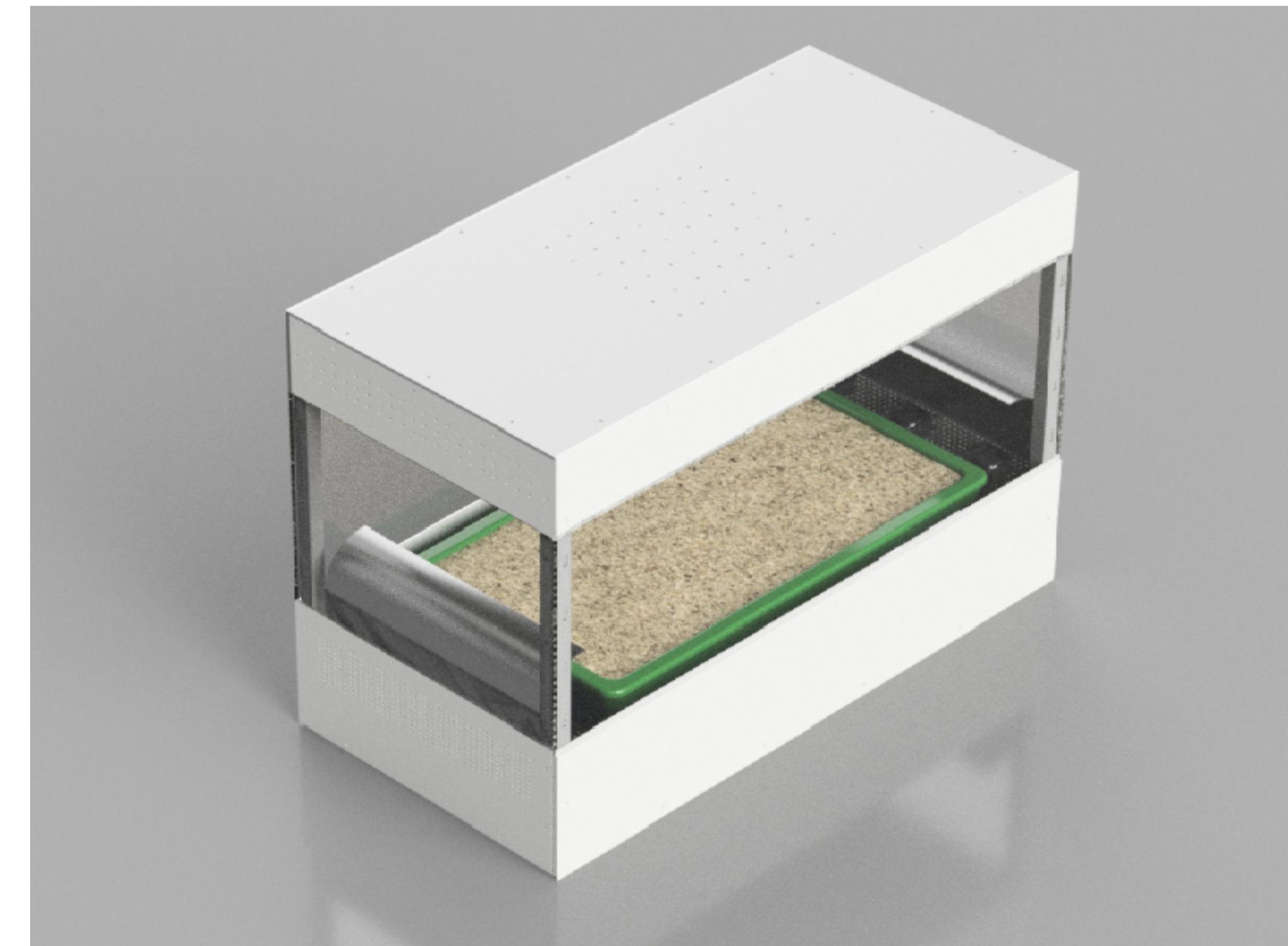
AIR FLOW SIMULATION



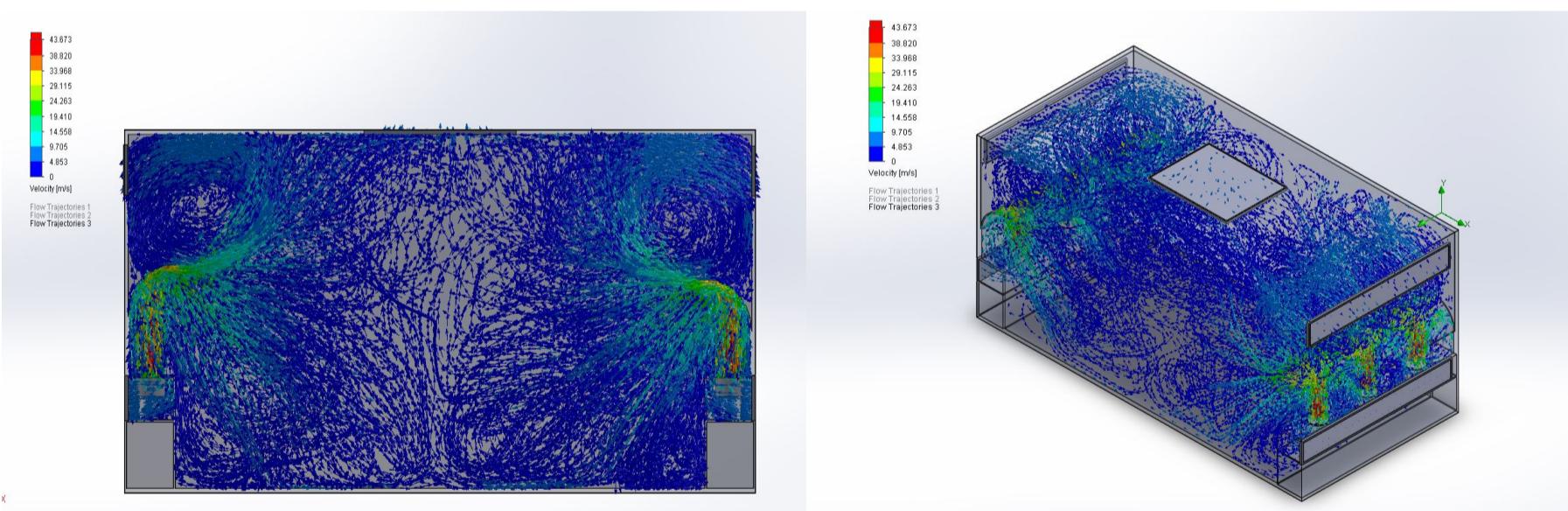
DESIGN CONSIDERATIONS

- Air Circulation
- Temperature Control
- Adjustable light position
- Modularity
- Cost
- Size
- DIY Design
- Aesthetics

VERSION 2



AIR FLOW SIMULATION



PROS

- Air Circulation
- Modularity
- Cost Effective
- DIY Design
- Aesthetics

CONS

- Fixed light position
- No provision for water tank
- No provision for exhaust fan