Smirk

Making a smaller SMILE cool box

Dan, Livvy, Caio

Problem description

- Short Term:
    - Shrinking the Ice box
    - Current cool boxes are badly designed
    - Reduce vaccine waste

- Long Term:
    - Trying to get this ice box to market in the west
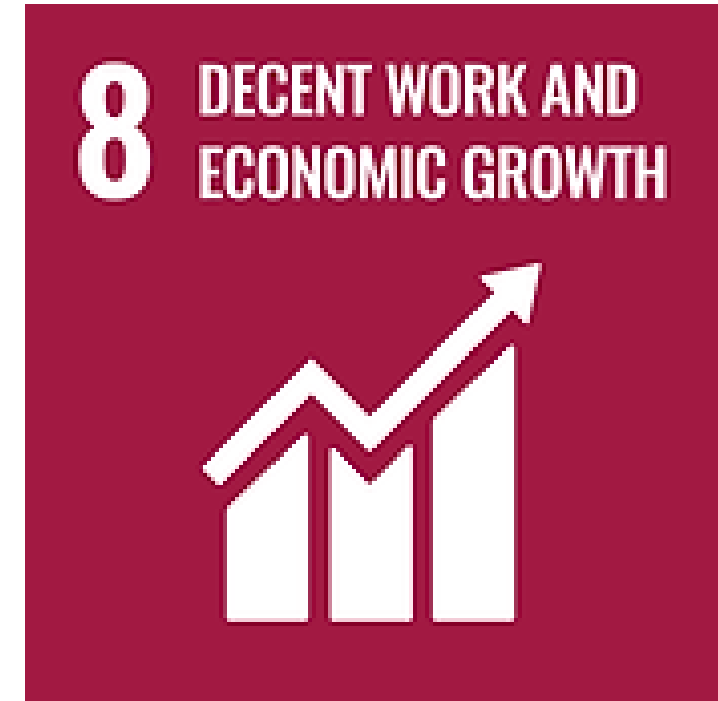   - Grow the company so the full sized ice box can be improved with funding
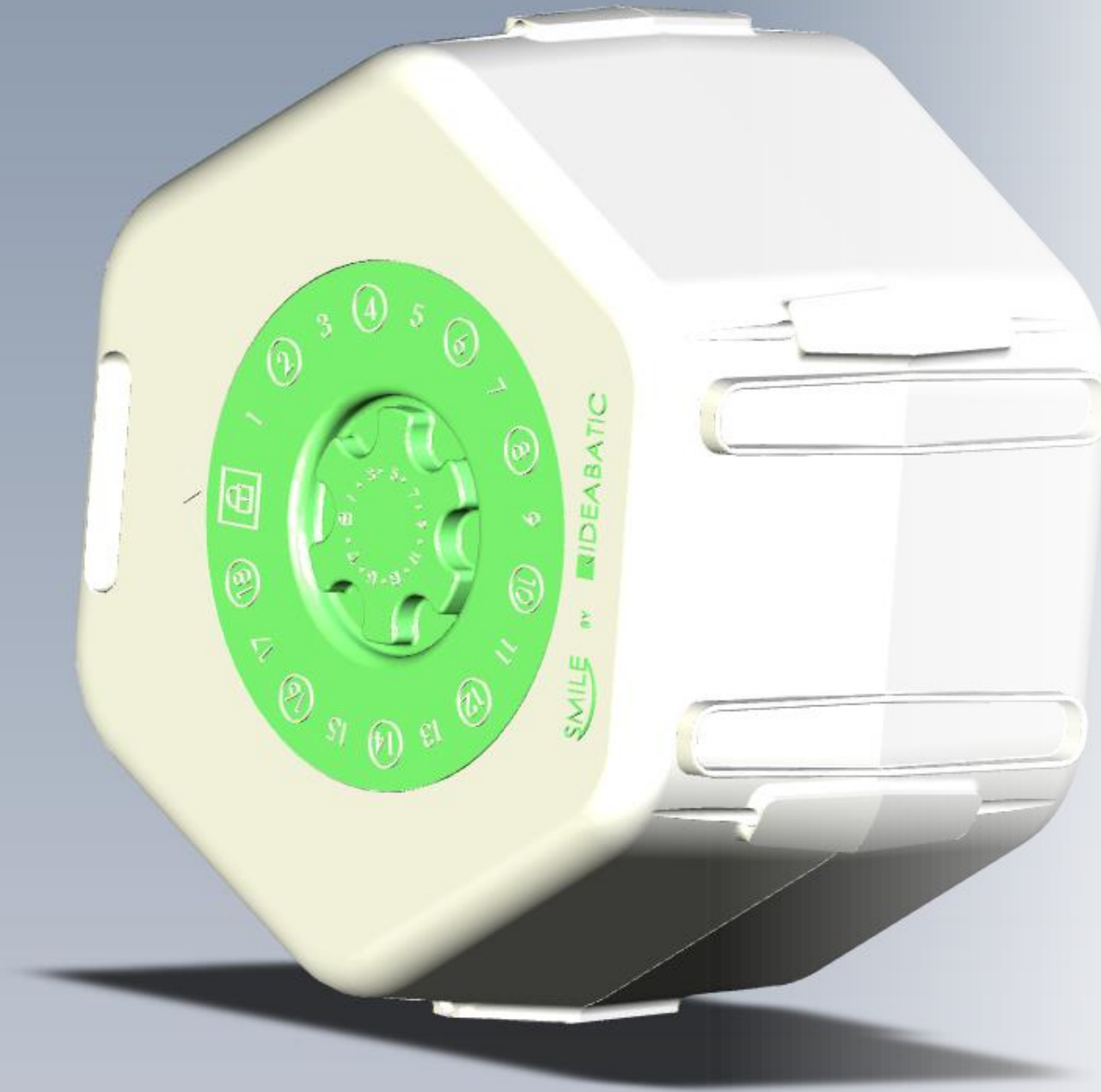
Proposal

- Improve Key Areas
  - The Lid
  - The Carousel
  - The Ice Compartment
  - The Straps
  - The Box

- Rapid prototyping

- 3D print a final deliverable

Quality of the proposal

- Responsible Innovation
- Responds to a genuine need
- Adds significant value
- Accessible
- Context appropriate

Skills required

- Strengths:
  - CAD, Prototyping, Teamwork, Laser Cutting, 3D printing
- Weaknesses:
  - Github, Structures

Resources needed

As our project is mainly prototyping, a rigid budget it hard to produce, so below is an estimate:

Resources	Cost
1L ice pack	£5
wood and plastic for laser cutting	£15
material for 3D printer	£25

Timeline

Thu	Fri	Sat	Sun	Mon	Tue	Wed
16/05	17/05	18/05	19/05	20/05	21/05	22/05
Concept definition, Functions needed and their importance, Written solutions		Conept generatiion, Written design and rapid prototyping + sketches		Design review and further planning	Full team unable to work	

Thu	Fri	Sat	Sun	Mon	Tue	Wed
23/05	24/05	25/05	26/05	27/05	28/05	29/05
Full team unable to work	Cad Modelling of the chosen sections. Making quick prototypes during to see feasibility				3d print and test solutions as a final assembly to present	
1 to 1 meetings with Alex				Interrim presentations		

Thu	Fri	Sat	Sun	Mon	Tue	Wed
30/05	31/05	01/06	02/06	03/06	04/06	05/06
	Contingency days + group presentation recording				Compile into final report,	
		Should be finished by now			Project presentation (redorded)	

Contingencies

- We have added contingency days to allow time for us to "catch up" and produce a deliverable

- Staged approach means we can pick up from wherever, so absence will not set us back by a lot

- Failure to complete a working design is still useful information on what doesn't work

- Google drive and On shape will be used so we can pick up from where others leave it behind. Kitty does not like GitHub

2014-15   2016   2017   2018   2019   2020-2023   2024