| Part | Reason | Improvement | constraints | Adresses what need | Importance |
| --- | --- | --- | --- | --- | --- |
| Attachment | Need to hold vaccines |  | Needs to have enough friction to hold in place without falling, does not need to be as soft as before, sincejourney is less rough. |  | High |
| No. Vaccines | Needs to be maximised since the other constraints are already being met for time. Can always underfill, so need to think of a cheap way to store more.at least a certain number, or too many will need to be brought and will no longer be transportable | Could be as simple as making the carousel smaller to fit the 1L box. Could look at improving attachment mechanisms to add more vaccines? Or make it more versatile. Maybe a sock/strap type thing like in a toolbox to make it really thin and versatile | Maximise  Each vaccine could take 20-30mins. Over one full day (12 hours?) would need at least 24 | Probably fewer vaccines than SMILE, but will make it more portable and easier to transport while still having the maximum utility  Current SMILE has a very large ice pack, and not all slots are always filled (currently 3 vaccines per section \*18 sections).  Smaller journeys will need less vaccines as they would probably be limited by the number of patients in one day | High |
| Simplicity | Easily repaired |  |  |  |  |
| modularity | Abel to be used on the big box |  |  |  |  |
| Weight | Needs to be transportable so cool box can reach difficult-to-reach locations, though less rough terrain so can give up SOME rigidity | Reduce dimensions since weight only goes down by the cube.  Thin insulation, although insulation is mostly air so limited effectiveness | Under 10kg | Transportable, probably less durable, but enough to withstand standard use | High |