

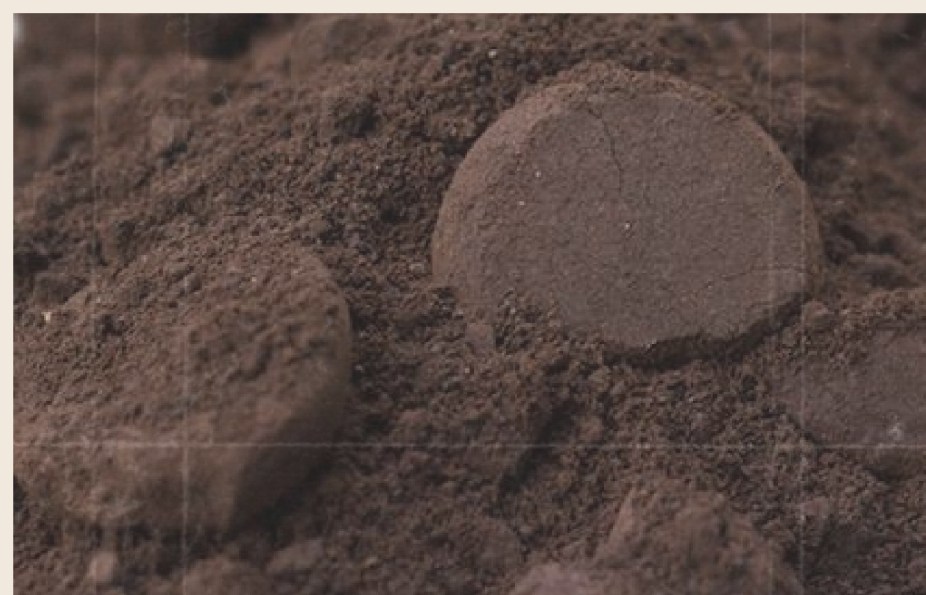
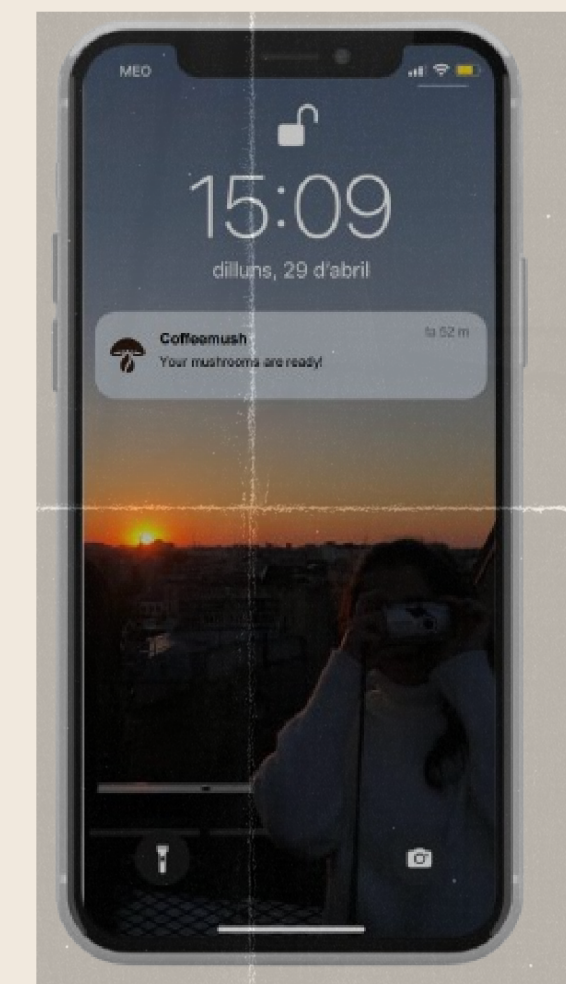
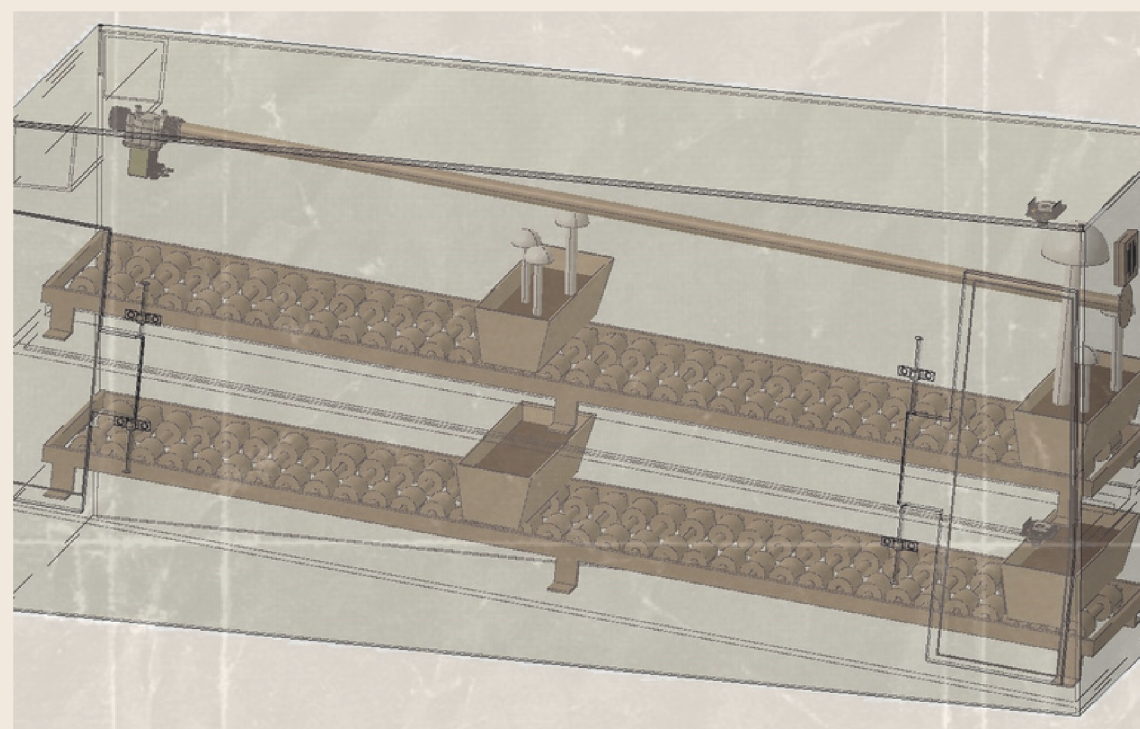
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CoffeeMush

Team 1

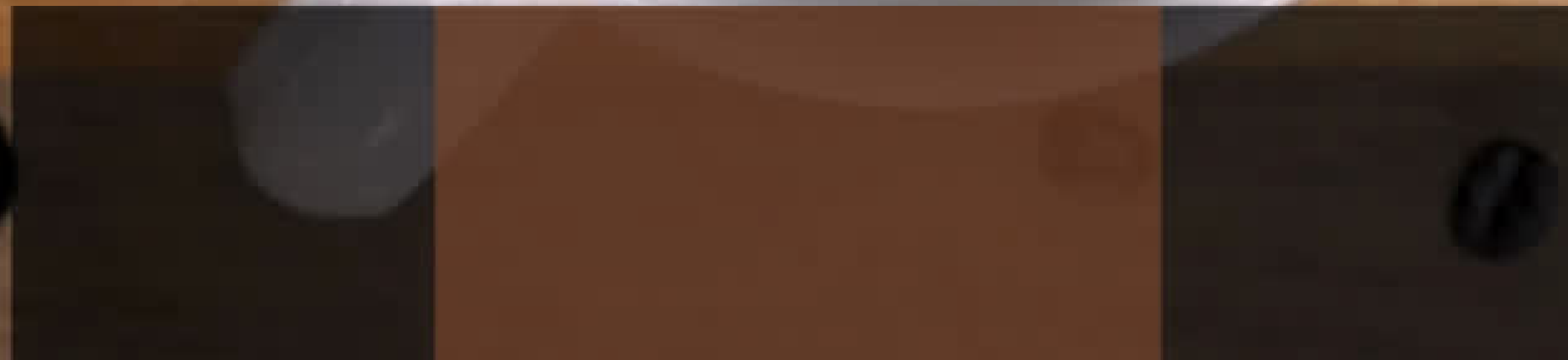


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Coffee Facts

Did You Know...





Problem



- How can we reuse coffee waste and generate a useful product with it?



- How can we grow mushrooms easily?

Team 1



Requirements and concept

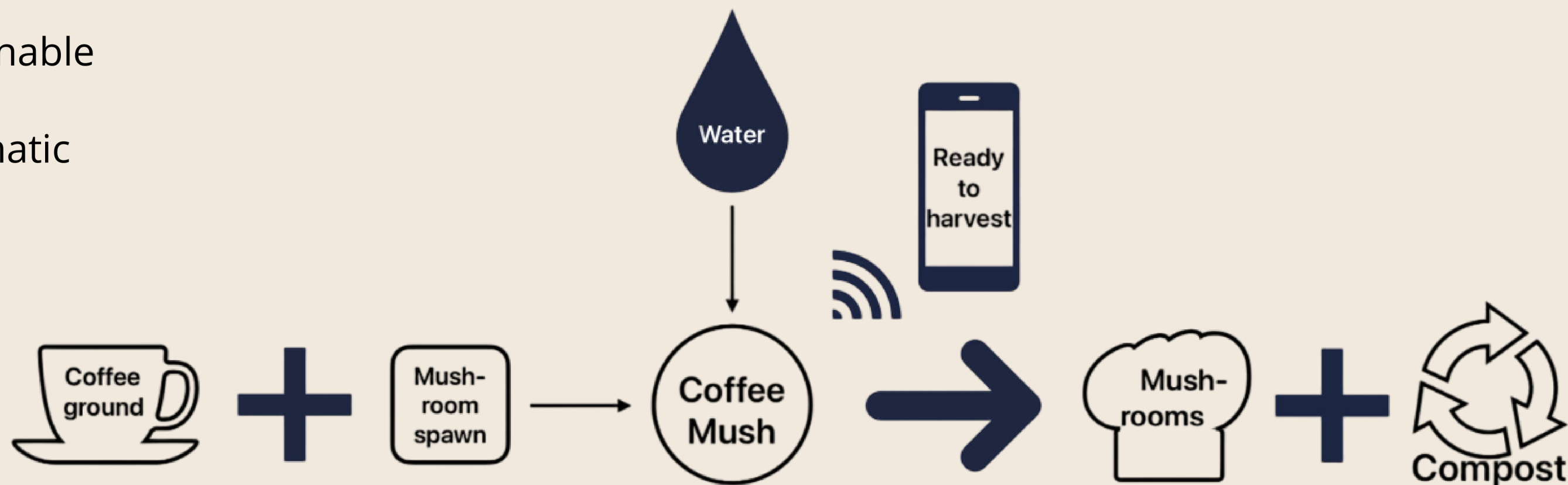
- Outcome of the device



- Budget

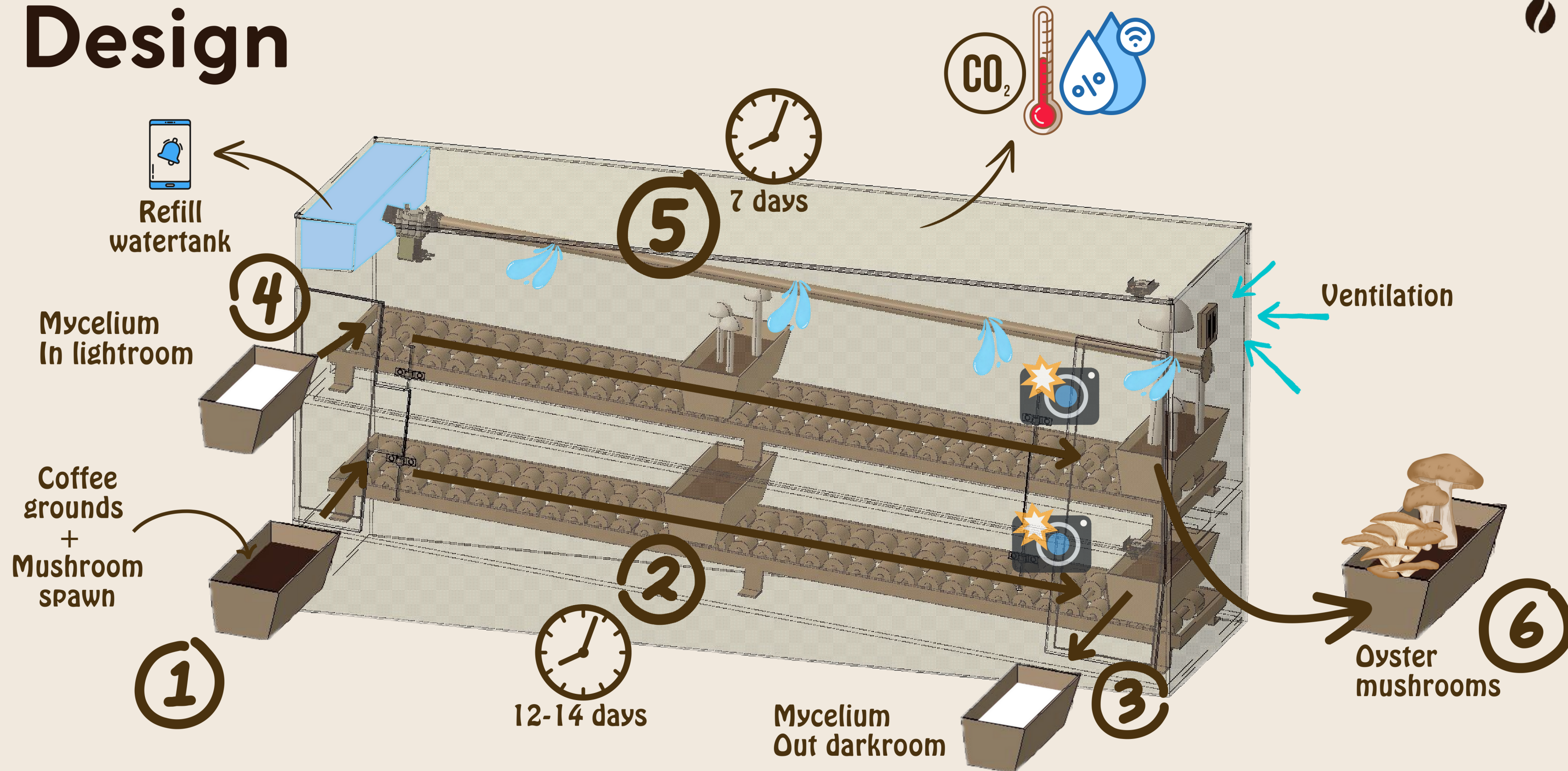
- Sustainable

- Automatic



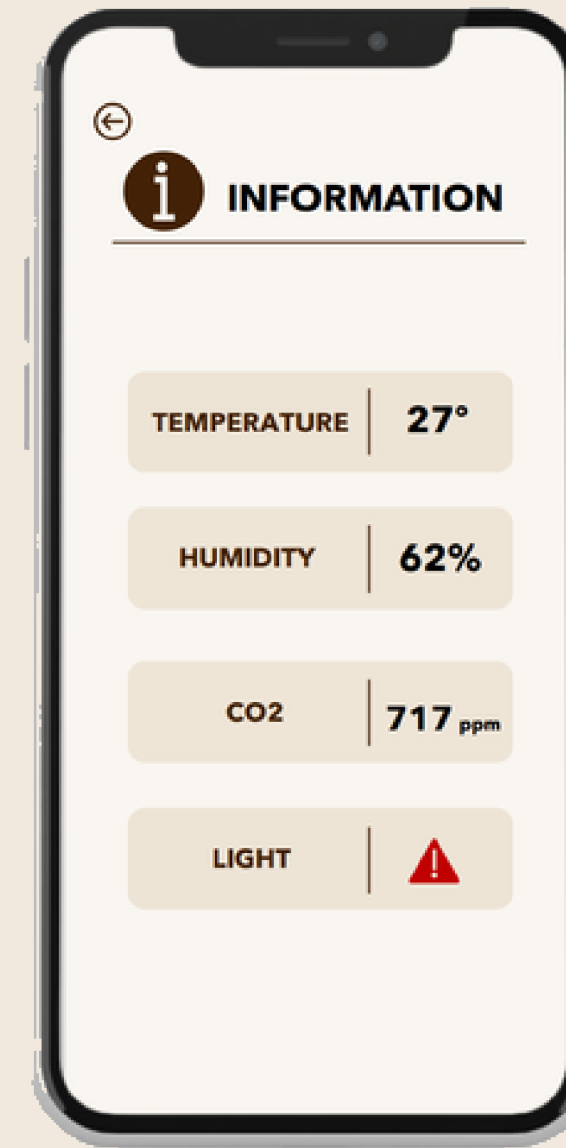
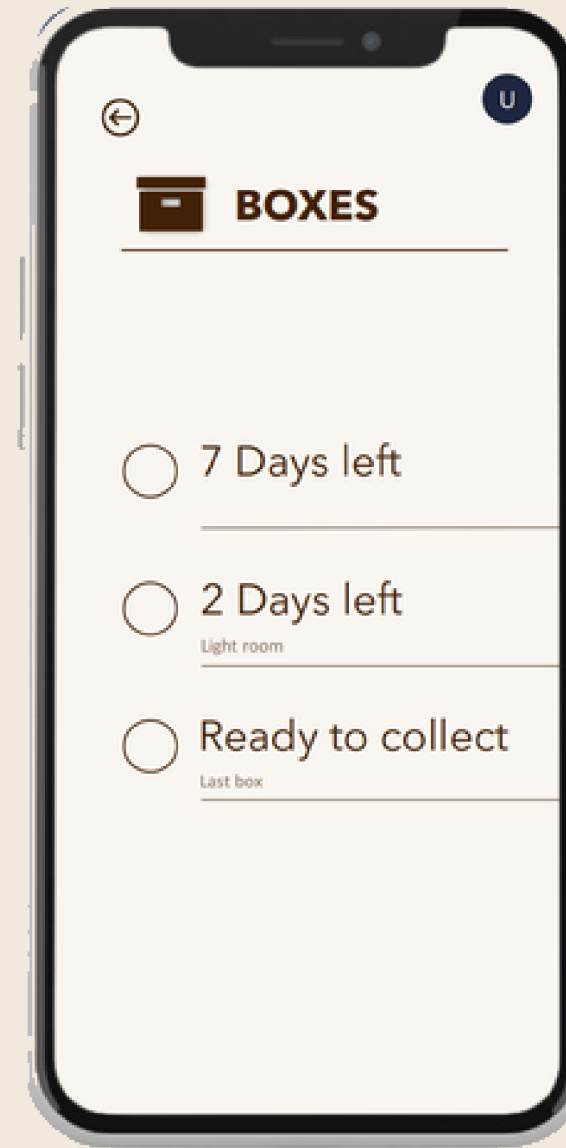
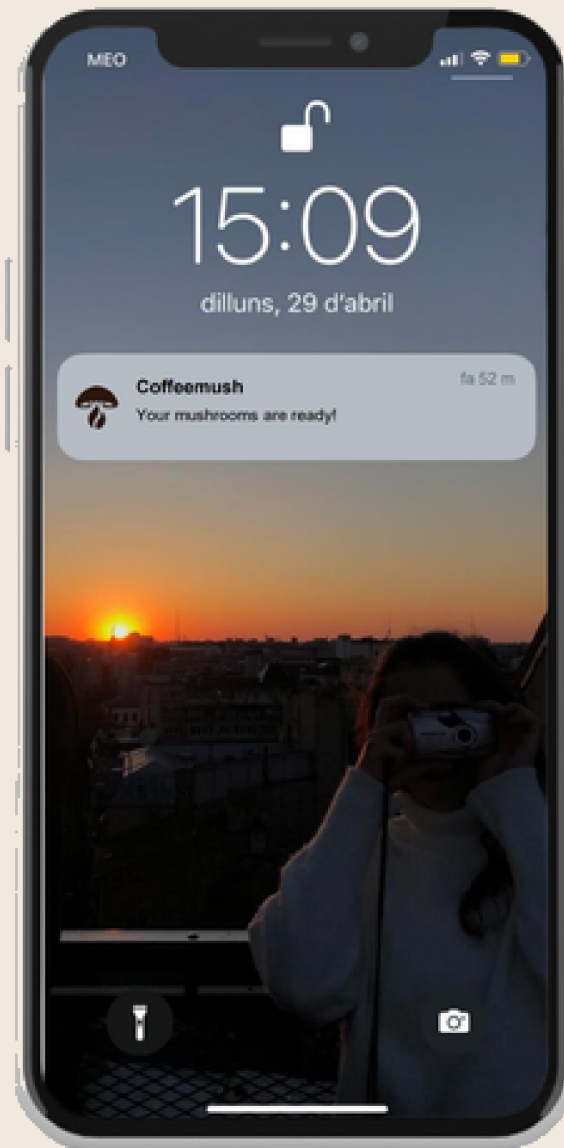
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Design



6/

Application



Prototype

- Small changes:
 - shorter
 - only one camera
 - no CO₂ sensor
 - no roller conveyor
 - water tank
- Materials from old projects
- Reusing ice cream boxes





Attempt to grow mushrooms

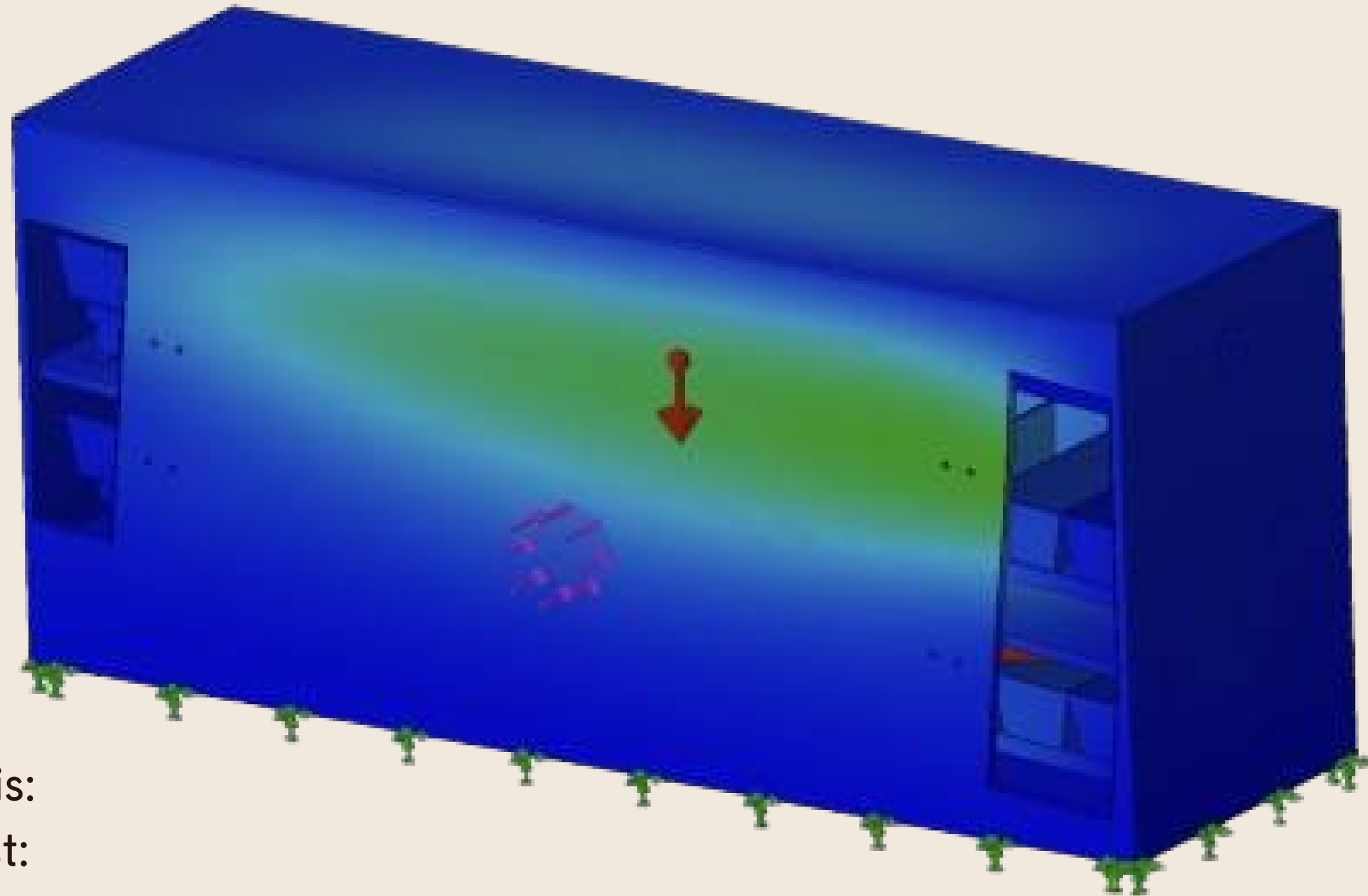
- With household items
- Mycelium grew well
- No Mushrooms grew
- Hard to provide good conditions

CoffeeMush is the Solution





Prototype test and results



- Stress analysis:
- Electronic test:
- Software test



Conclusions

Achievement: • Creation of an unique product

Limitation: • No temperature regulation
• Not everything is automatic

Future work: • Reduce cost
• Add communication in the app

