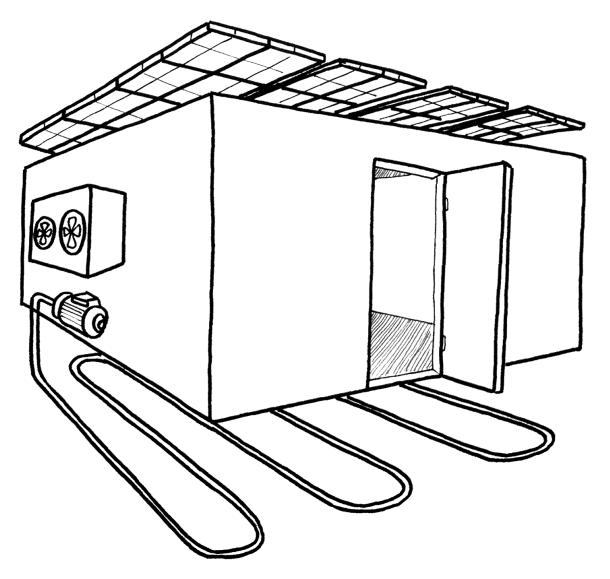
Pink A

Pink A CoolKeep



Product

 Users

 Product Contract

 Key Findings

 Next Steps

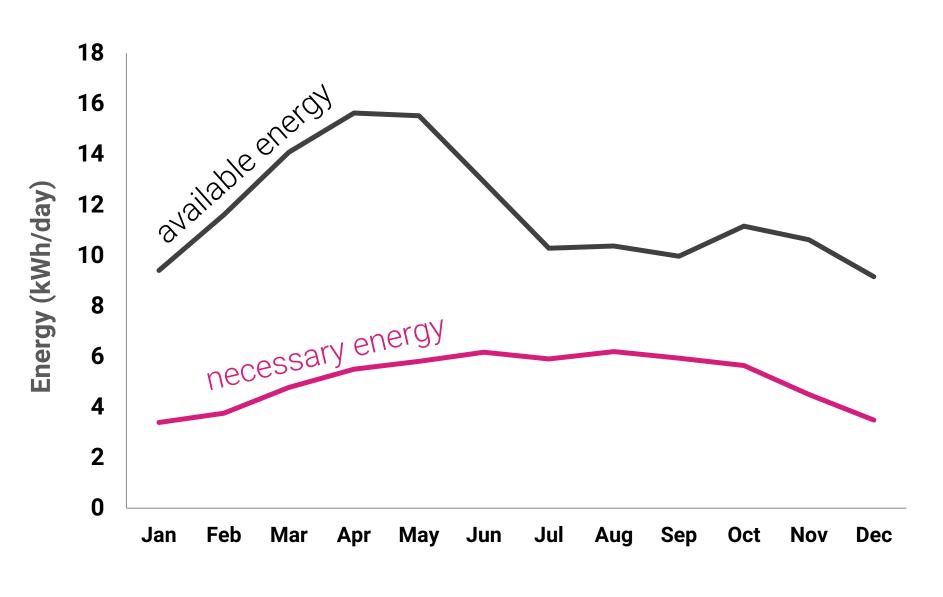


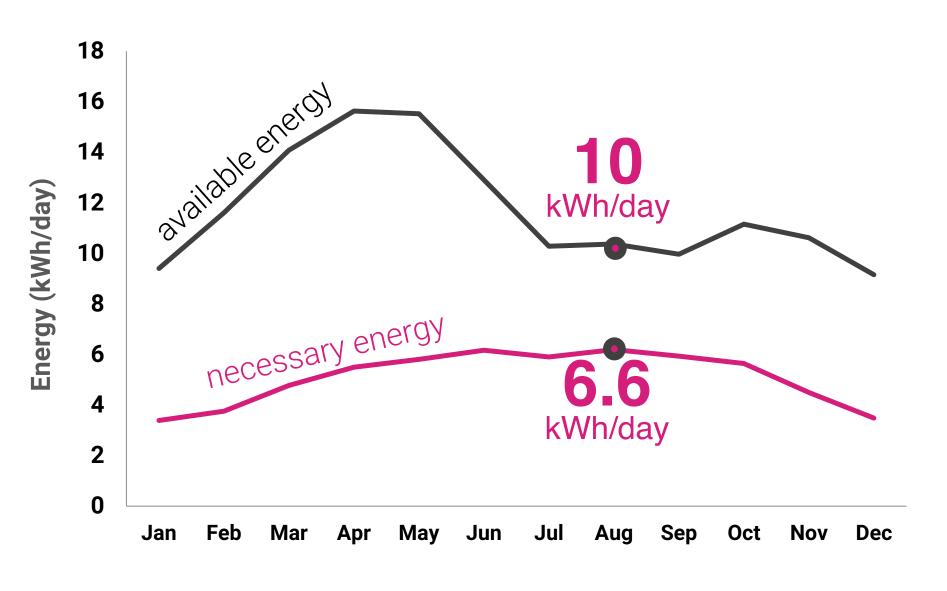
Customer Need	Product Attribute	Engineering Specification
Store a week of harvest	Volume	40 cubic meters
Maintain cooling with intermittent power	Insulation, thermal storage, power supply and generation	Supply 10 kWh per day
Affordable	Simplicity, Efficiency	Repayable within 2 years

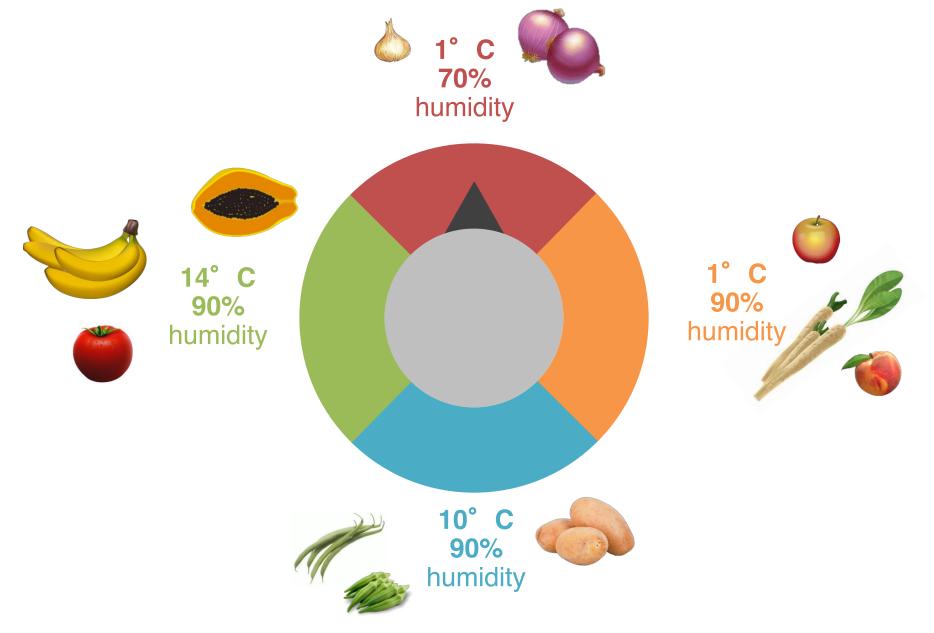
can we simulate how CoolKeep will respond to variations in weather?

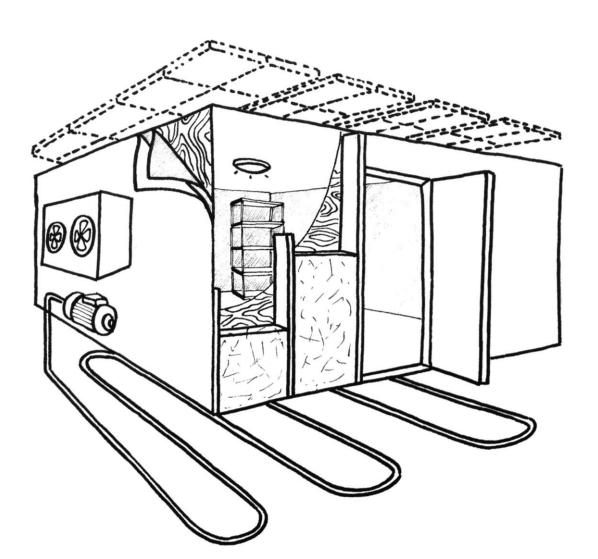
can we design an appropriate user interface with climate control?

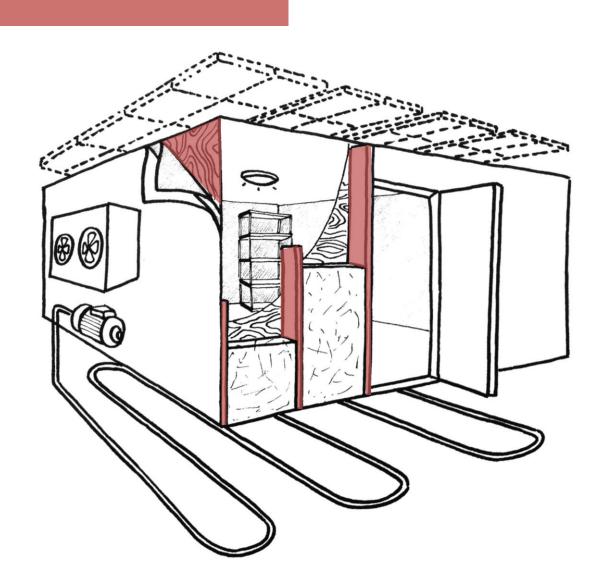
how can we capitalize on cost-efficient technologies?









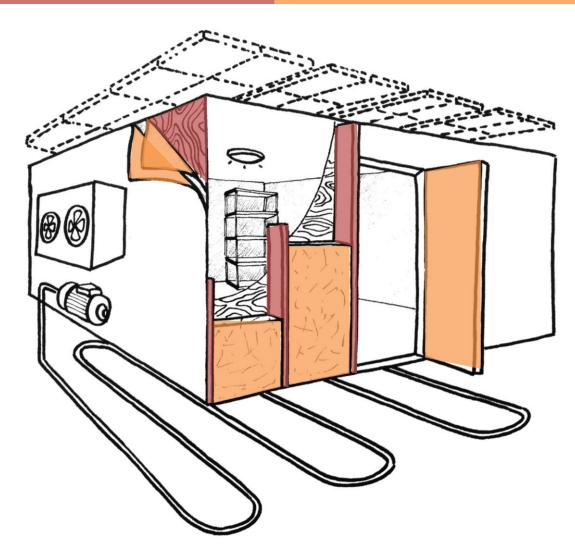


Structural \$575 – 1129

29

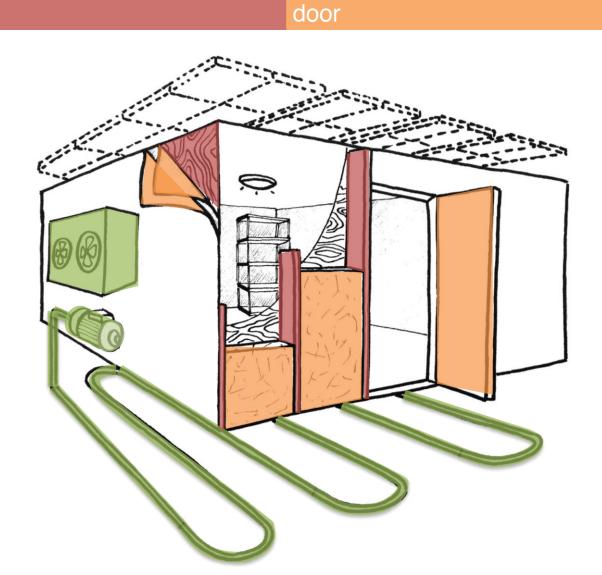
Insulation \$478 - 686

plywood Beams Fiberglass mylar Tyvek door



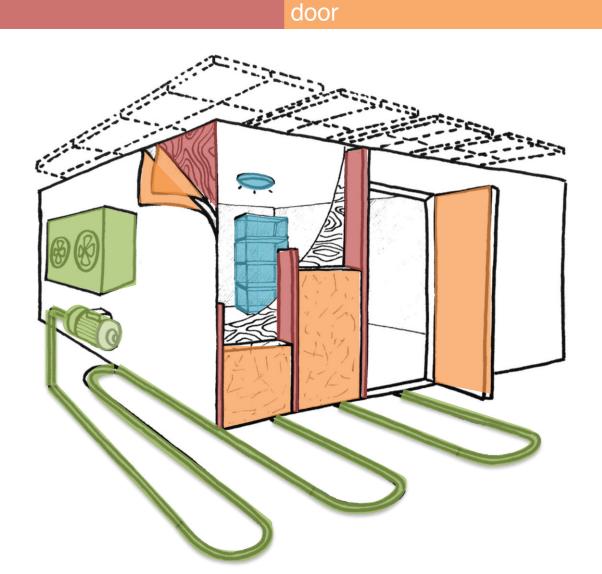
Insulation \$478 - 686
Fiberglass
mylar
Tyvek

Heat Transfer \$415 - 725
battery
pump
copper pipe
AC



Insulation \$478 - 686
Fiberglass
mylar
Tyvek

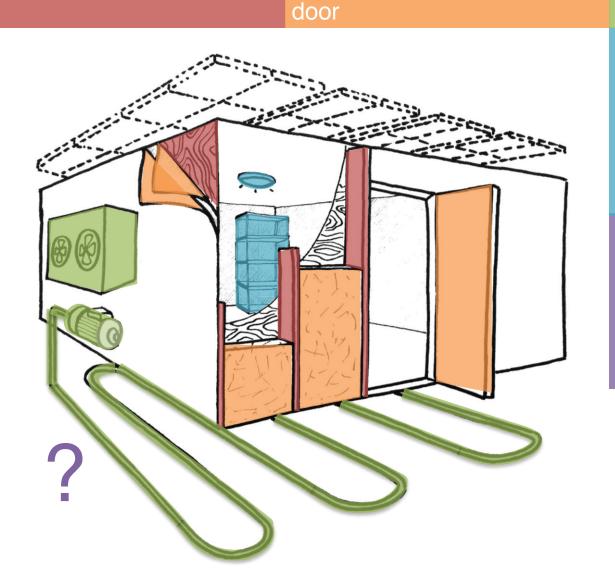
Heat Transfer \$415 - 725
battery
pump
copper pipe
AC



Interior \$536 – 560 shelving lighting

Insulation \$478 - 686
Fiberglass
mylar
Tyvek

Heat Transfer \$415 - 725
battery
pump
copper pipe
AC



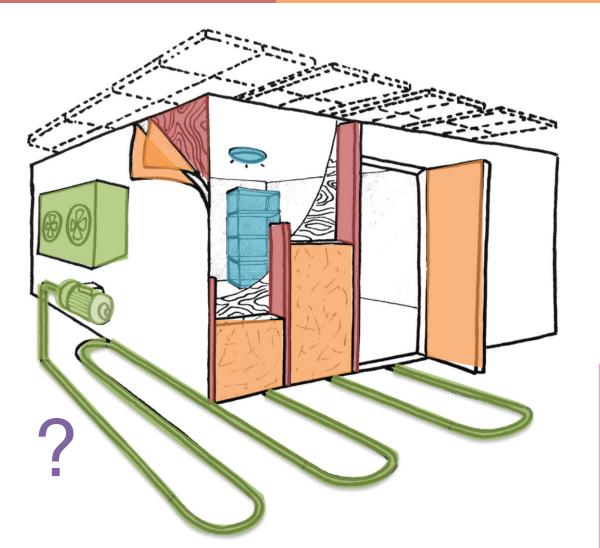
Interior \$536 – 560 shelving lighting

Miscellaneous \$500

Insulation \$478 - 686

Fiberglass
mylar
Tyvek
door

Heat Transfer \$415 - 725
battery
pump
copper pipe



Interior \$536 – 560 shelving lighting

AC

Miscellaneous \$500

TOTAL \$2504 - 3600

- Develop adequate insulation
- Finalize cooling process
- Regulate power output from multiple sources