

CWA-ACCESSIBLE TRISHAW

> COPEN HAGEN CYCLES



Eddy Enyedy Ryan Gottwald Alex Masiero Kelsey Reno

MEET OUR TEAM



Eddy Enyedy
Robotics and
Mechanical Engineer



Ryan Gottwald

Mechanical Engineer



Alex Masiero
Mechanical Engineer



Kelsey Reno Mechanical Engineer



Slowness

Generosity

Relationships

Without Age

Storytelling



EXISTING TRISHAWS WERE NOT FULLY DESIGNED FOR CWA MISSION AND PURPOSE



Nihola Taxi



Triobike Taxi



Christiania Model-T



Van Raam Chat

DELIVERABLES



1

TIPSTAND
Tipstand for Triobike
Taxi

2

PASSENGER SEATING

Physical prototype and CAD model

3

RECOMMENDATIONS

Steering and suspension recommendations

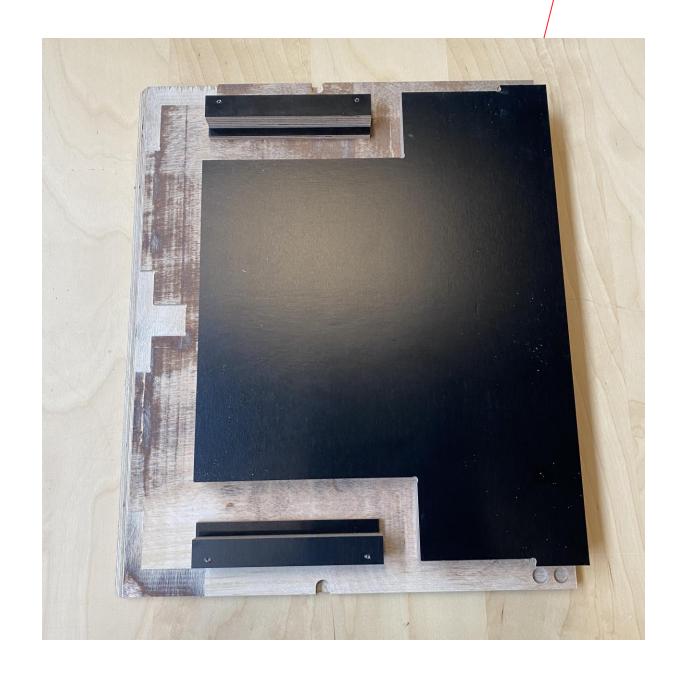
4

FINAL CONCEPT ART

Sketches of our vision for a final product

1.TRIOBIKE TIPSTAND DESIGN

Improve safety of the Triobike

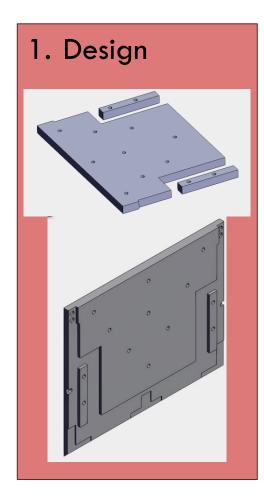


1. TRIOBIKES ARE PRONE TO TIPPING. WE WERE TASKED WITH FIXING THIS



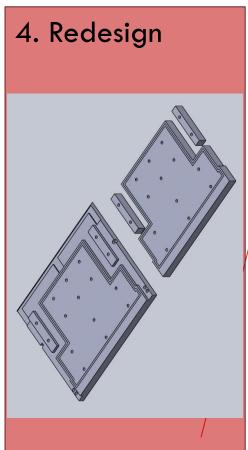


1. OUR DESIGN PROCESS











1. TIPSTAND INCREASES SAFETY WHEN ENTERING/EXITING BY PREVENTING TIPPING



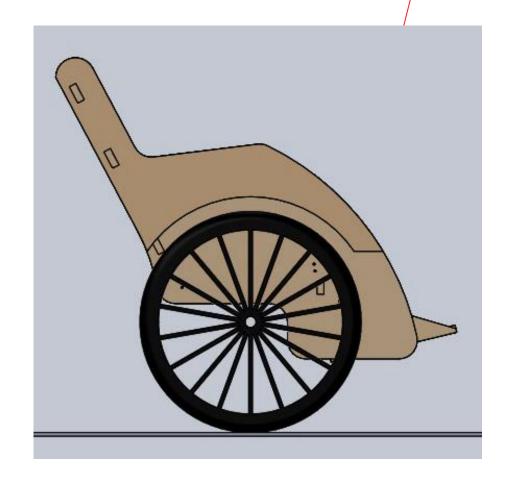
2.PASSENGER SEATING DESIGN

Designed Specifically with CWA in Mind

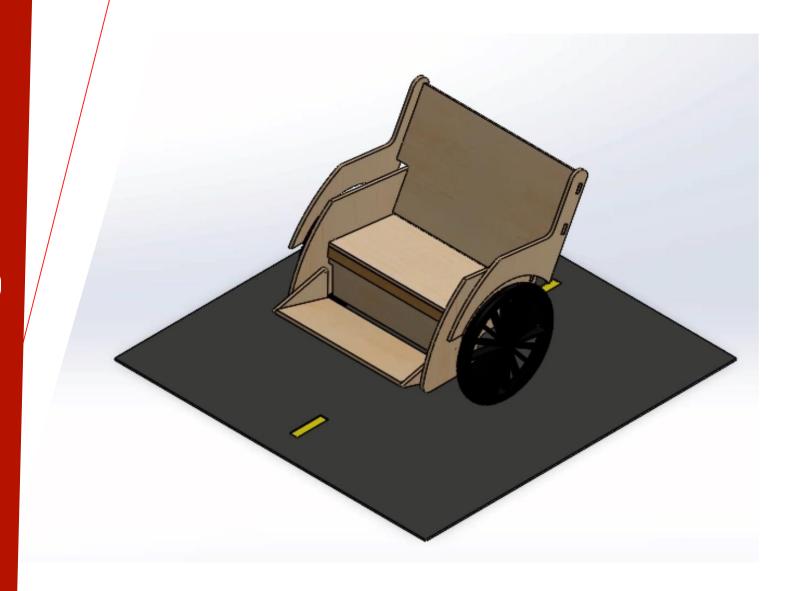


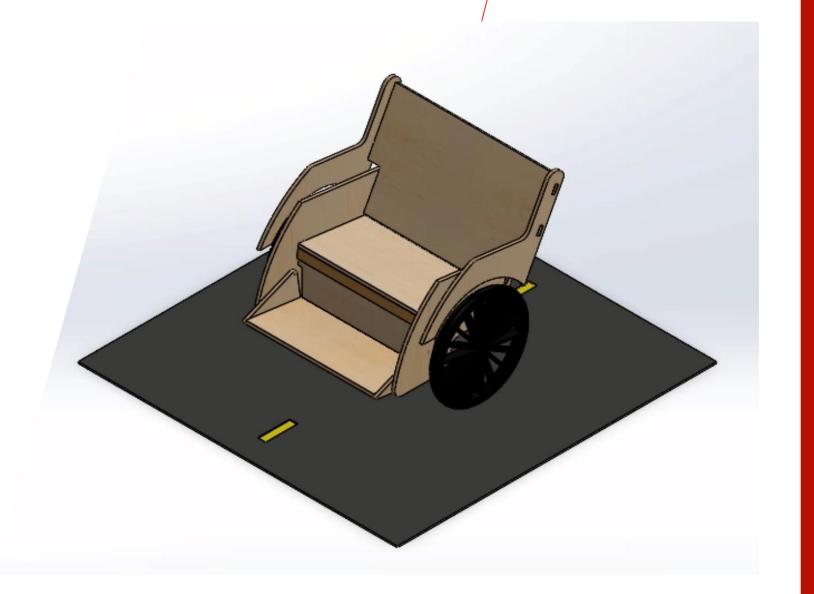
2. WE MOVED THE WHEELS FORWARD TO PREVENT TIPPING





2. FOOTPLATE IS RETRACTABLE TO INCREASE ACCESSIBILITY





2. THE SEAT ANGLE IS ADJUSTABLE FOR TESTING

2.We created a prototype of the seating compartment













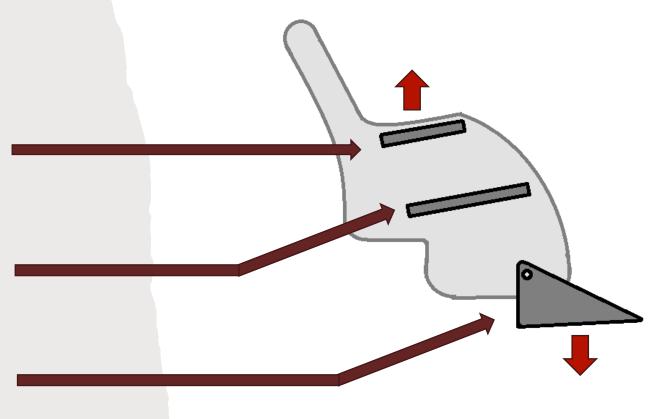
2. Nursing home residents tested our seating design and provided feedback

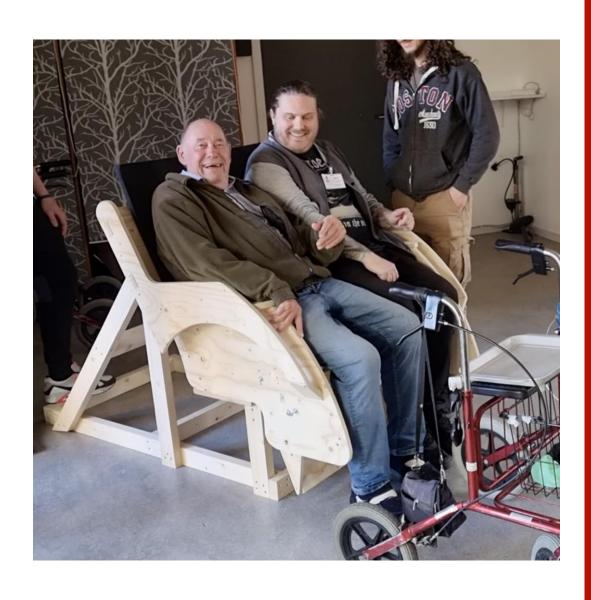
Post-Testing Results

Raising the Armrests

10° Seating

10° and lower the Footplate





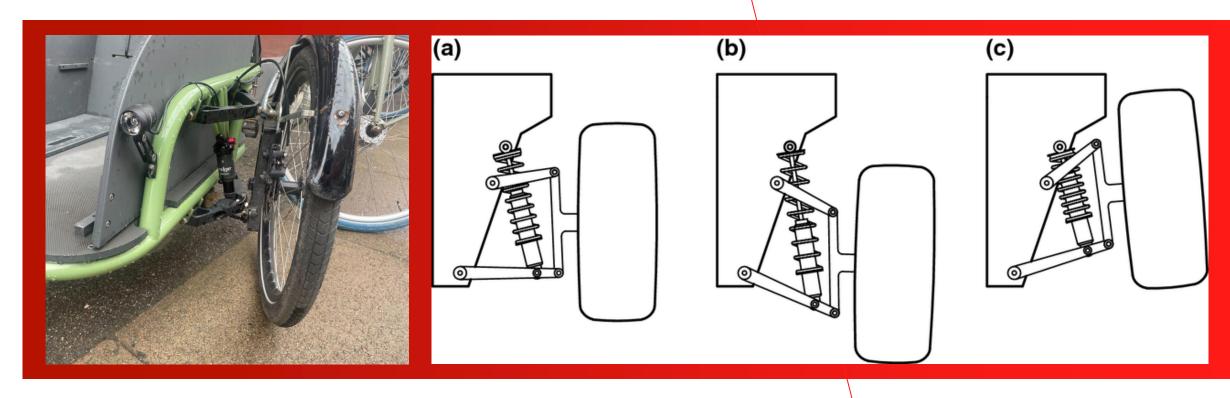
3.RECOMMENDATIONS

Additional Features for the CWA Trishaw

3. STEERING



3. SUSPENSION



Cargo Bike

Cars

4. FINAL CONCEPT ART

- Inviting Design
- CWA Colors
- Cup holders
- Storage areas

