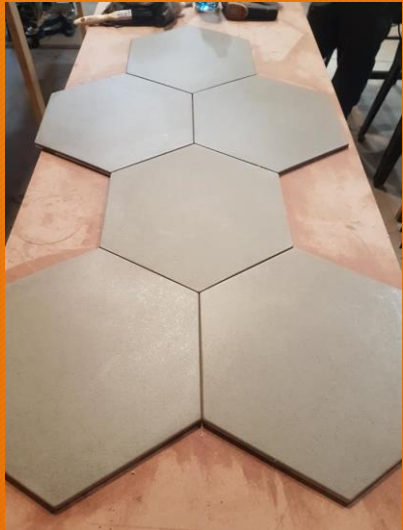


# Geopolymer Cookstoves

The potential impact of geopolymers is wider than you think

# Background





# Background





# Playing with fire



- I like fire.
- Geopolymers like fire even more

# A multi-layered approach





# Turning up the heat

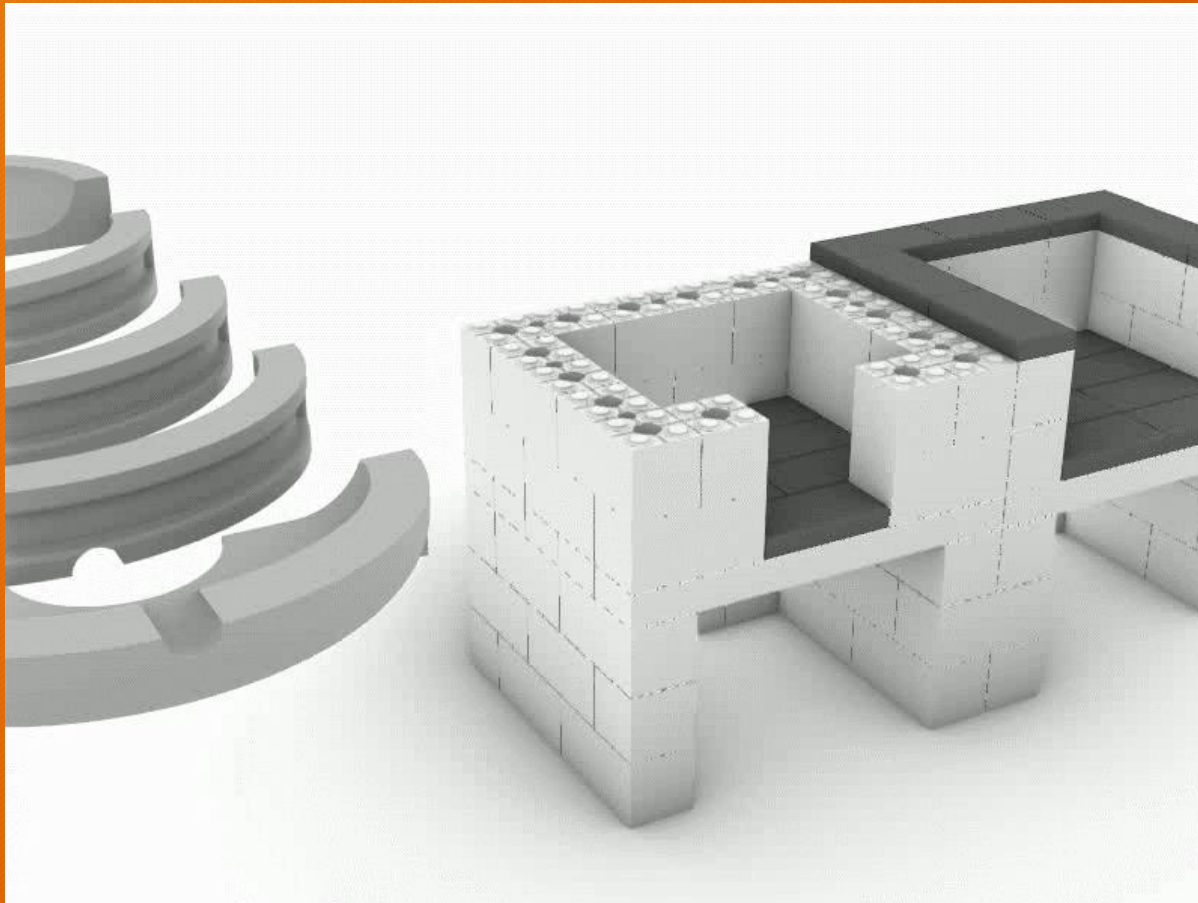


# Cooking some GP in-house





# Fire proof building system





# And then Covid came...

(...and my brief stint in the ventilator industry)



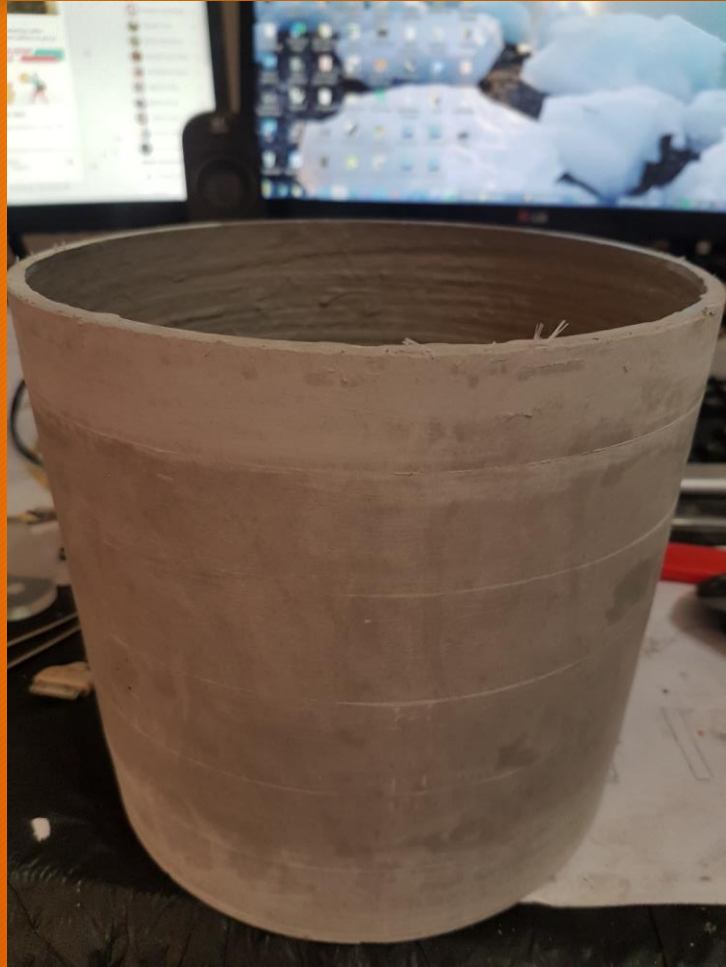
# Desperate times desperate measures





# Screw it, let's do it...

(Make a geopolymmer cookstove)





# The model T (The first one)





# The model T (The first one)





# The model T (The first one)

## The first meal





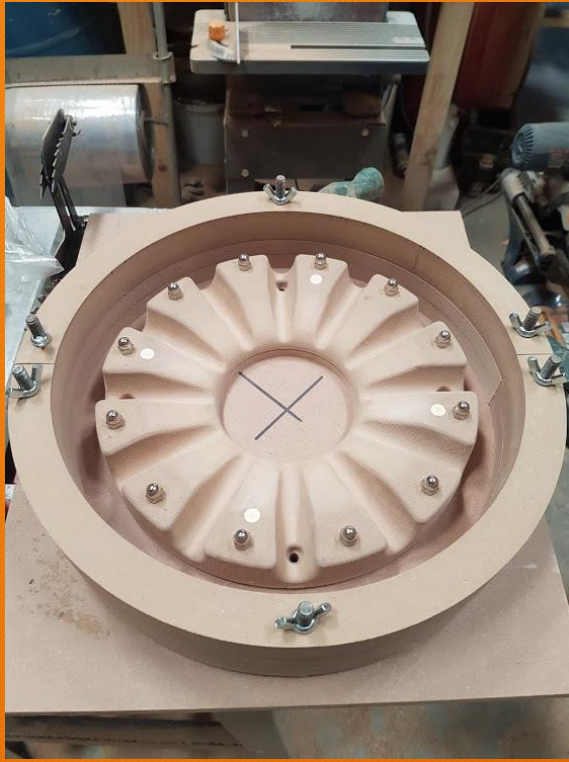
# The model T (The first one)

## The first meal



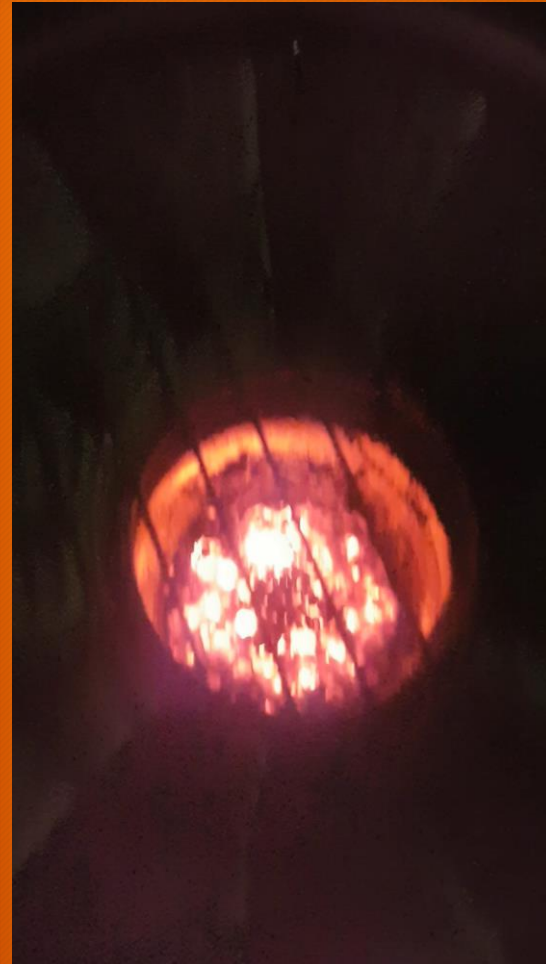
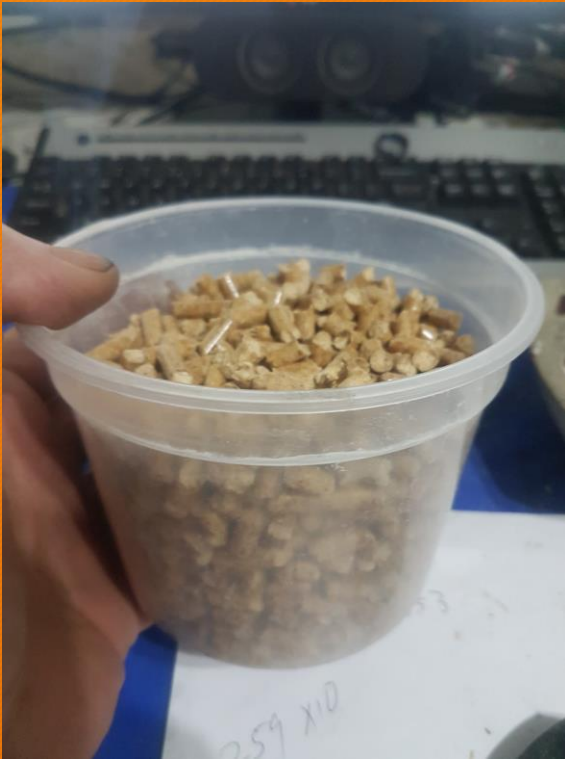


# Improving the Model T





# Rocket fuel





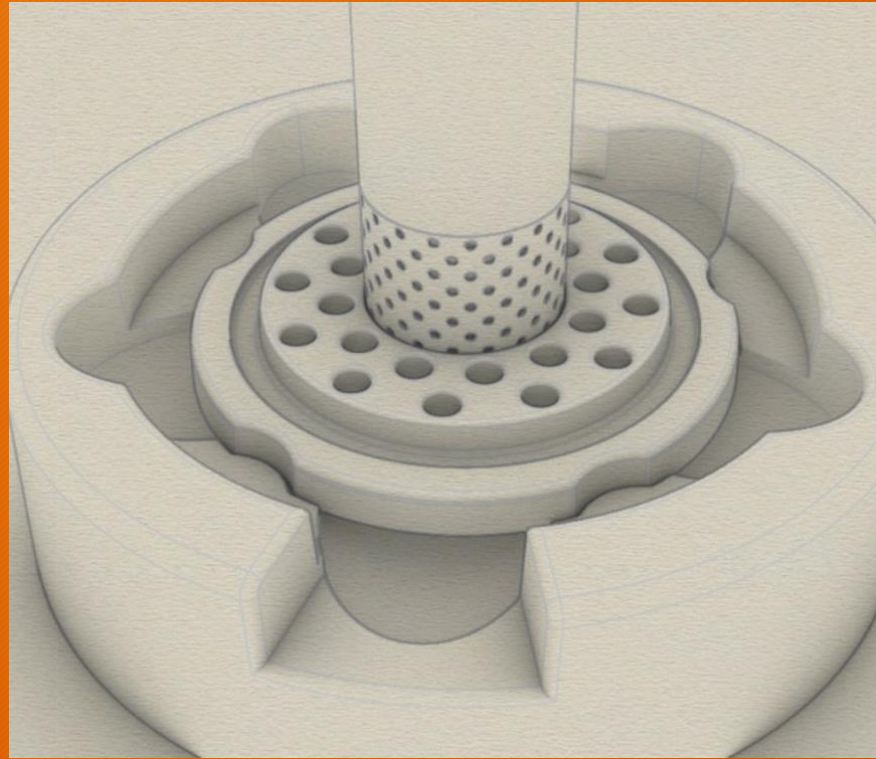
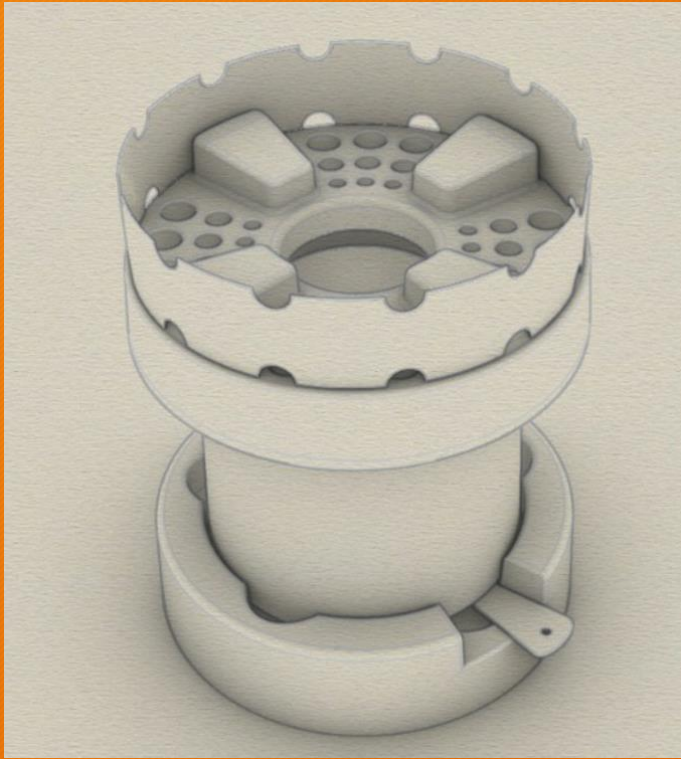
# And then the problems started





# Back to square one...

(Screw it, let's do it again)





# Back to square one...

(Screw it, let's do it again)





# My Panda experience

(Some Pandas are not so cute)





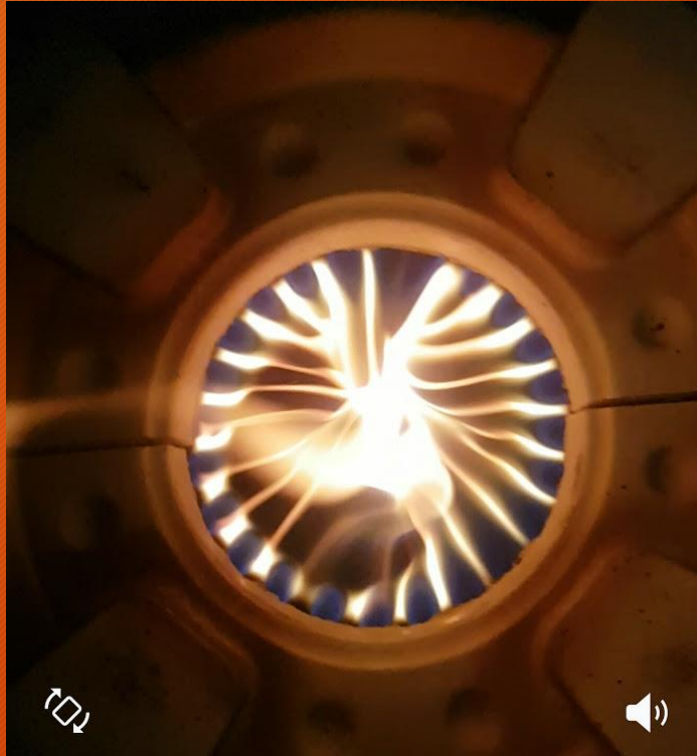
# My Panda experience

(Some Pandas are not so cute)





# ‘Forging’ ahead





# Forging ahead





# Good results at last





# Good results at last





# Good results at last





# The final product and demo

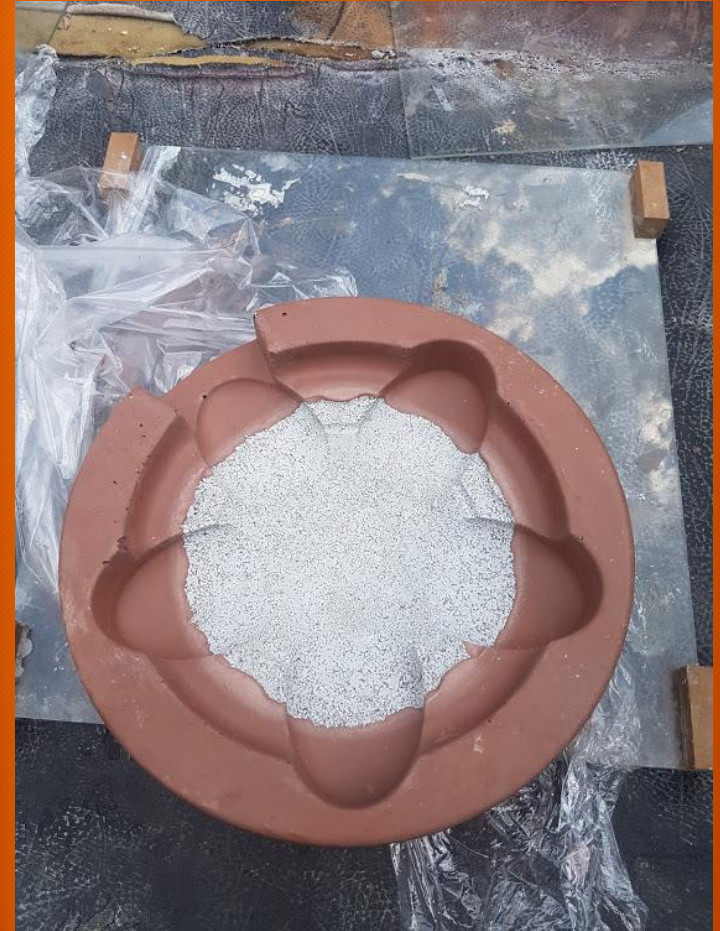








# Further improvements



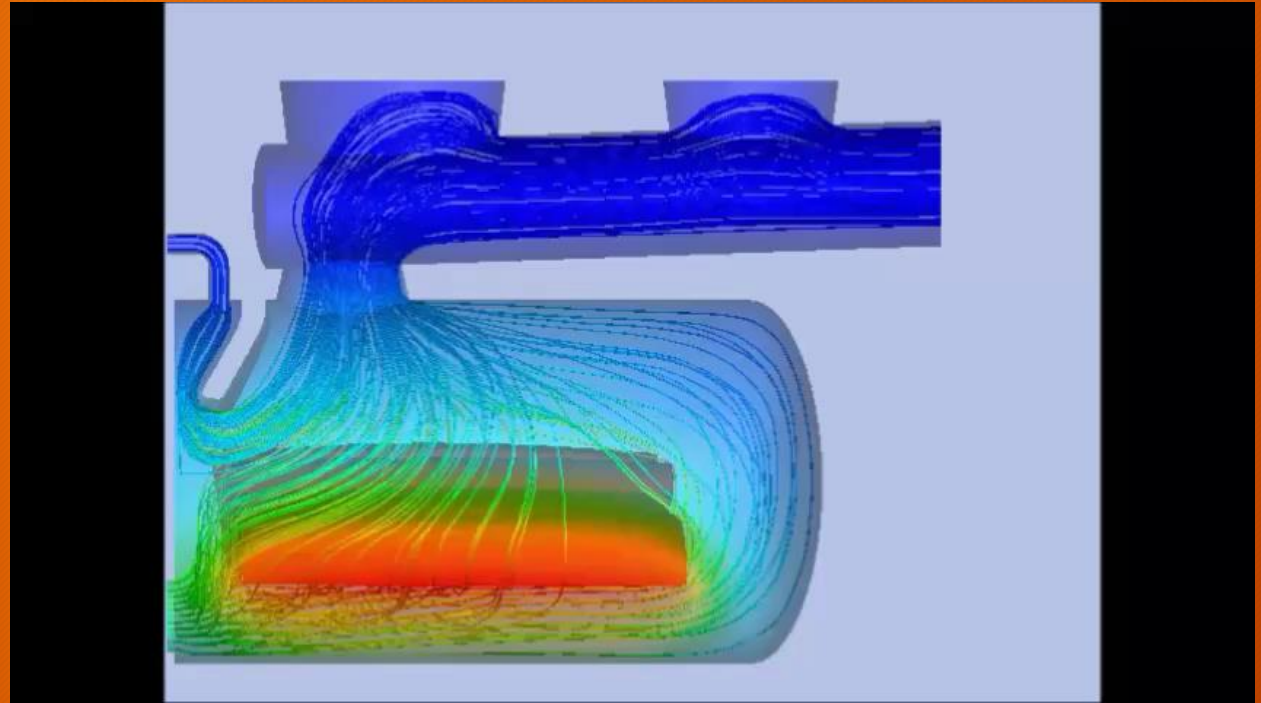
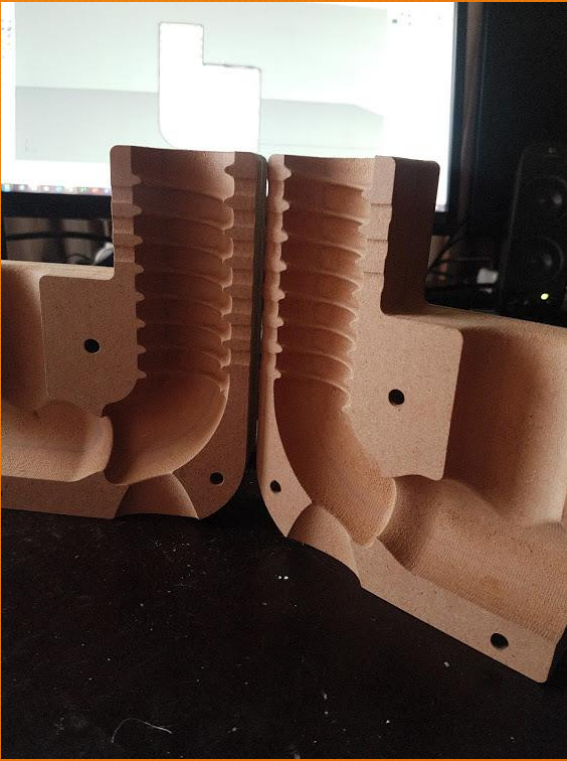


# Panda paraffin bomb



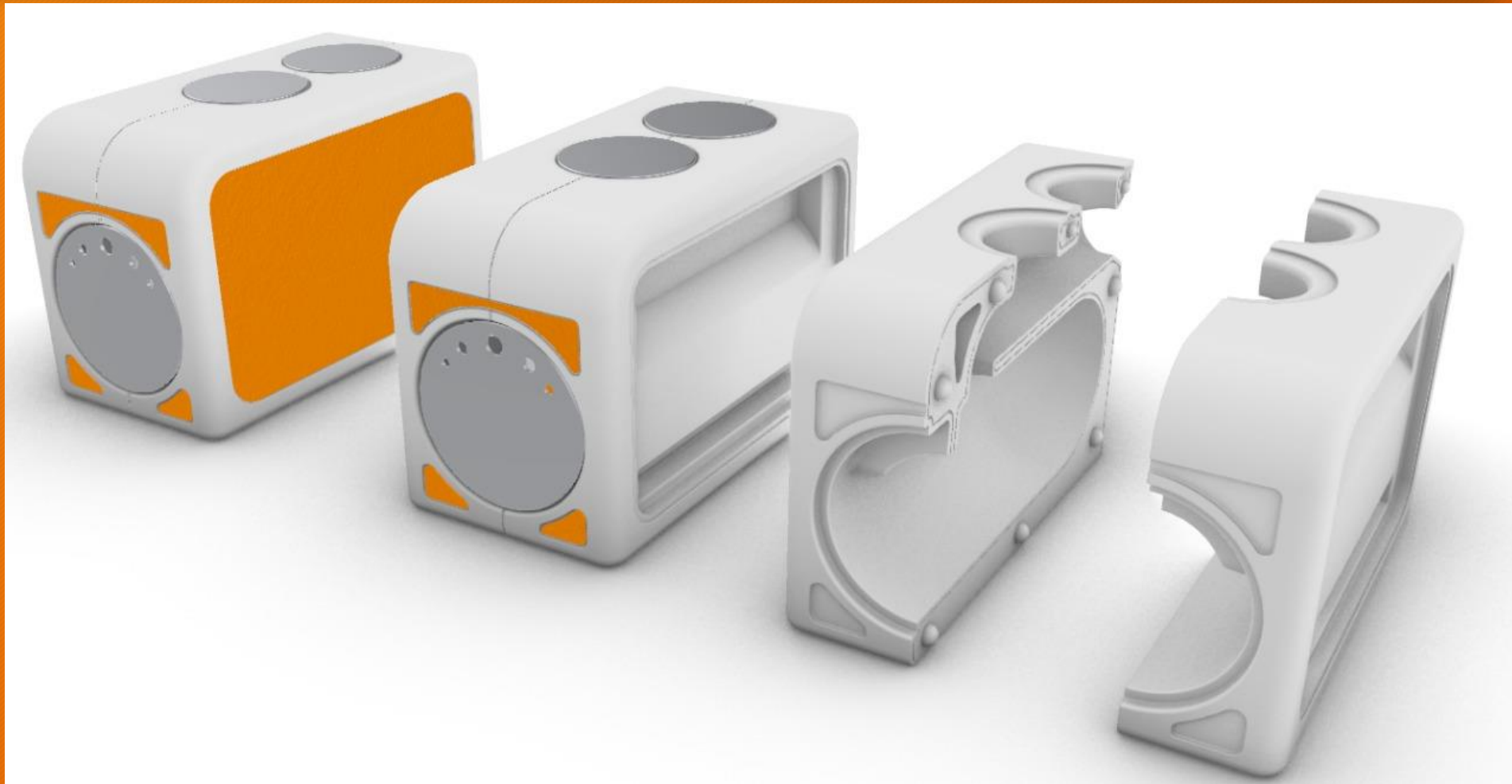


# Current development





# The ultimate woodstove





# Geopolymer Impact

- Production facilities and cost
- CO2 reduction by not using cement
- The REAL Impact:
- 3 Billion People Cook on 3 stone fires
- 5000 plus paraffin fires per year
- 50 000 children ingesting paraffin plus lung diseases
- Carbon Reduction
- Deforestation
- Renewable fuel at less than half the cost
- Smoke free settlements
- Job Creation
- Emission and carbon offsets
- Stove subsidizing
- Earnings from social investment
- 2 mil stoves per year for two years, can offset the entire cement production CO2 emissions in SA and earn over a Billion rand in additional revenue from carbon credits. (2 million paraffin stoves are sold in SA annually)



# Contact Information

- Anton Odendaal
- 0793999537
- [voyatex@gmail.com](mailto:voyatex@gmail.com)