

## Midterm Meeting with Thomas, Tom and Aysun - 19/5/2020

- Rename repulsion to social distancing
- BUG: outbreak stats don't add up or clear, reset button doesn't work
- Agents don't move fast enough, make larger steps (it is always a wave)
- Look at the animation to tune everything
- BUG: Firefox not working as well, Chrome works a bit better
- If customer cannot run the demo, it is useless = there is no product
- BUG: Application requires too many resources, works terrible as the count increases
- Timescale: choose range of 180-365 days
- 24 steps per day, aggregate data per day (should model RIVM data)
- Graph: looks weird, adjust the animation
- BUG: everyone becomes infected, change movements and transmission probability
- Select realistic parameters based on what is observed
- Immune transition to susceptible is possible, susceptible probability becomes higher over time
- Incorporate age distribution and gender

## PRIORITIES:

(Assuming a working product!!!)

1. Timeline preset scenarios
    - Matching current data
    - Preset per country, drop down menu to choose from presets (eg. RIVM data, Germany)
    - Store and load presets
    - Build into app
  2. Testing + quarantine
    - Reduction in infection probability (people are aware they are infected so they infect less people), certain agents have lower probability of transmitting
  3. ICU Capacity
    - Increase in mortality rate
    - From infectious people, 1/10 (some fraction) need to be put into an ICU
    - Once this fraction amount is above a certain threshold, then the mortality increases until it drops below the threshold again
- Animation should be played in one minute
  - Customize parameters per community

- Too complex, multi-level, multi-city
  - Not enough data to support at this level
- Reduce sliders, make it more user-friendly
- Change to range sliders
- Font size should be 10px, you should not have to scroll through parameters
- Don't let the user set some stuff, eg. size of agents
- Resize agents automatically based on # of agents in simulation
  
- UI needs to function on everyone's computer
  
- Test with current RIVM plot
  - General shape must be similar
  - Download most recent pdf and compare
  
- For final public product, copy to github
- Will be permanent and public IF we complete the project
  
- Next meeting: June 9 @ 14:00