

# Teammeeting

18.03.2021

## Details

Time	17:00
Medium	Skype
Participants	Devansh, Tristan

## What was said

The project was kicked off. It was stated that until next week (25.03.2021) a prototype should be presented to Arne and Babett from the GCSC. The prototype should extend the WinForms one we have and already include an optimization feature to calibrate the parameters of the SIR, SEIRD or SEIRD PDE models. It was decided that more research would be needed on how to integrate the optimization feature. Either the UG4 Constrained Optimization or Optimization plugin were considered. The drawback of the Constrained Optimization plugin was its dependence on Lua in its current state. The drawback of the Optimization plugin was that the Particle Swarm Optimization (PSO) algorithm is not included yet. As Devansh reiterated that PSO is an integral of the entire optimization procedure for epidemic models and should be included into the GUI. More details would be decided in the follow up meeting the next day (19.03.2021). In addition, a potential visit to KAUST in May 2021 was discussed. Due to Covid-19, details are sparse and unknown. Also, it was briefly mentioned that data on the new server (pi4) should be stored in the Transcend folder for the time being. Lastly, it was mentioned that it would be nice for testing purposes if Jonas would try the GUI for his thesis.

## To-Do list for the next meeting

- Think about how to include an optimization feature into the GUI