



DAFNI



DAFNI Executive board – 17/03/2021

Champion update

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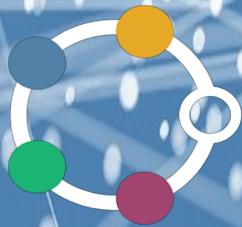
Current work update

- Since last update:
 - MATSim model setup (any given area), more model parameters (mode choice)
 - Integrated QUANT: workplaces sampled following calibrated parameters
 - Dissemination
- Current work:
 - Integration of public transport data, multimodal data
 - Visualisation: ad hoc visualisation interface working in browser using NetLogoWeb
<https://www.netlogoweb.org>
- Future work:
 - Health indicators downstream MATSim
 - Multimodal on any area: calibration of mode choice parameters using OpenMOLE
 - Validation experiments: sensitivity to sampling, to missing data



Multimodal MATSim model

- ✓ Public transport timetables from Traveline National Dataset converted into GTFS using UK2GTFS R package
- ✓ Convert GTFS into MATSim xml schedule using pt2matsim library
- ✓ Locally running multimodal (public transport, car, walking) test for a medium-sized area (Exeter)
- Still need to test for scale and integrate data conversion as DAFNI model and modified MATSim docker
- Integrate other modes? (cycling)
- What about long-distance commuting?



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Dissemination

- Conferences
 - Extended abstract accepted to the EWGT2021 conference: "*Scientific workflow systems as platforms to integrate modular urban transportation models*" -> 8 pages conference paper for April 30th
 - Extended abstract accepted for the GISRUUK 2021 conference (April 14-16th): "*Estimating public transport congestion in UK urban areas with open transport models*"
- Roadshow event: currently consulting potential keynote speakers – aim for May/June