

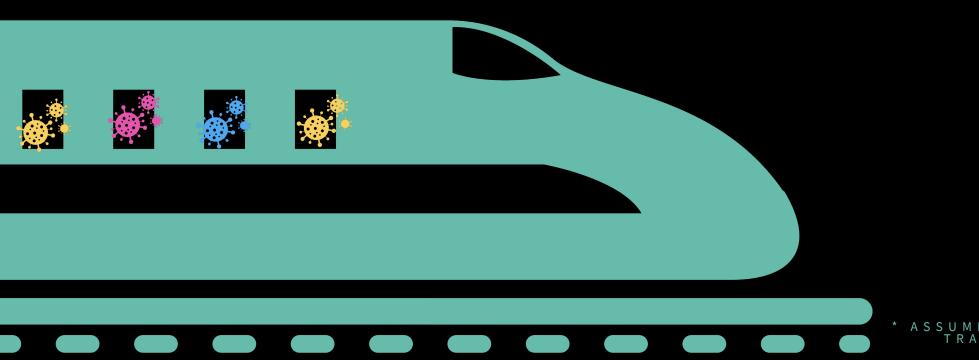
D S I I S E M I N A R

MARCEL OCHSENDORF
INITIAL PRESENTATION



RESEARCH QUESTION

IS IT POSSIBLE TO IDENTIFY A CORRELATION BETWEEN CORONA CASES IN SMALL LOCAL COMMUNITIES AND PUBLIC TRANSPORTATION SERVICE?*



THEORETICALEXAMPLE

MARCH 2020





THEORETICALEXAMPLE

NOVEMBER 2020



IS IT POSSIBLE TO FIND OUT RAILROAD CONNECTIONS THROUGH WHICH THE CORONA VIRUS SPREAD?

ODATA



RKI DATASET

[CORONA CASES | COMMUNITIES]



HAVAS | IRIS | DB API

[RAILWAY CONNECTIONS, CAPACITY, FILL RATE, DEPARTURE TABLE]



OVERPASS API

[MAINSTATION LOCATION, COMMUNITIES LOCATION]



TIMELINE

FETCH DB DATA

COMBINE PROCESSED DATA

BUILD MAINSTATION AND DEPATURE DATASET

GENERATE HEATMAPS

GENERATE CORONA DATASET FOR SPECIFIED TIMESTAMPS

BUILD AN
INTERACTIVE MAP

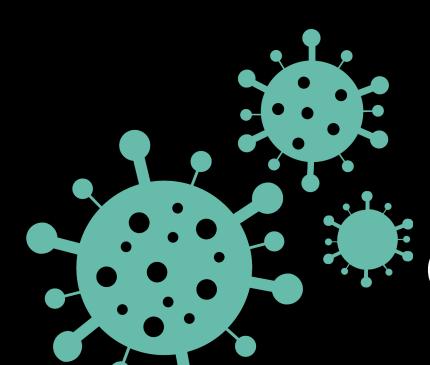
FOR SELECTED CONNECTIONS



INTERMEDIATE

FINAL





QUESTIONS?