Wasted Time: Travel in Delhi

Analyse the excess time (wasted) people spend while travelling from one place to another due to traffic or congestion.

What is the EXCESS or WASTED time for?

Different AREAS on a map

Different **DISTANCES**

HOURS of day / DAY of week

For SCHOOLS, HOSPITALS, etc

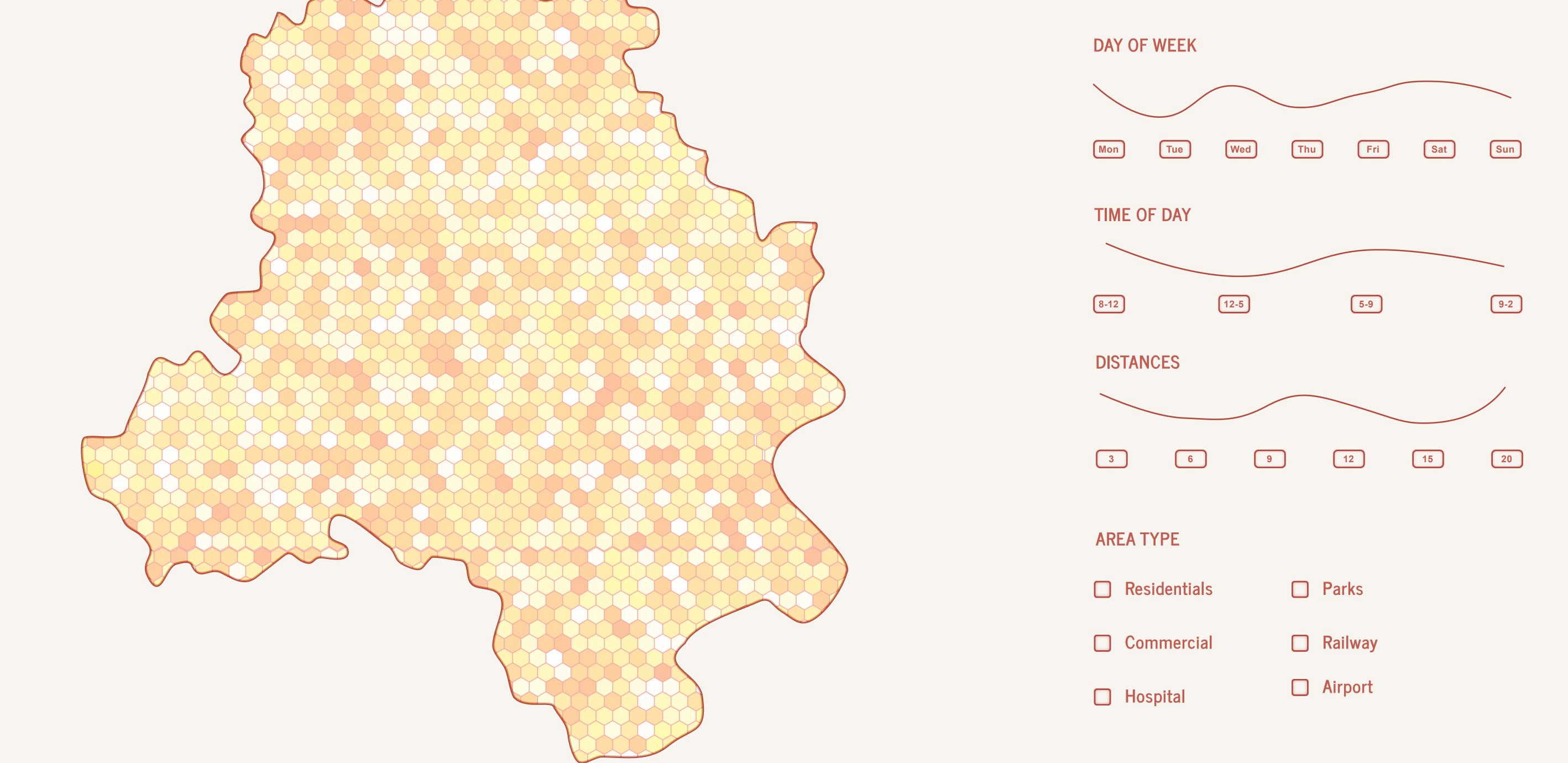
A SINGLE AREA of interest

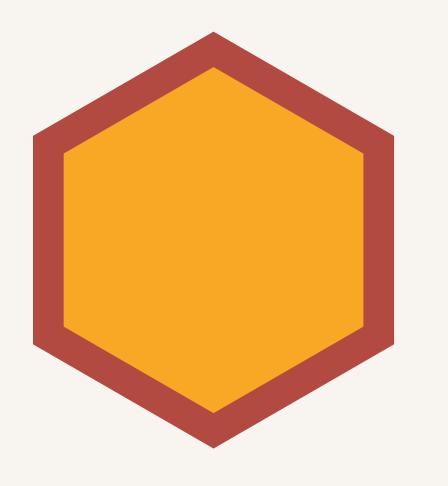
Real world applications

Criticality

Field of movement

Bottlenecks



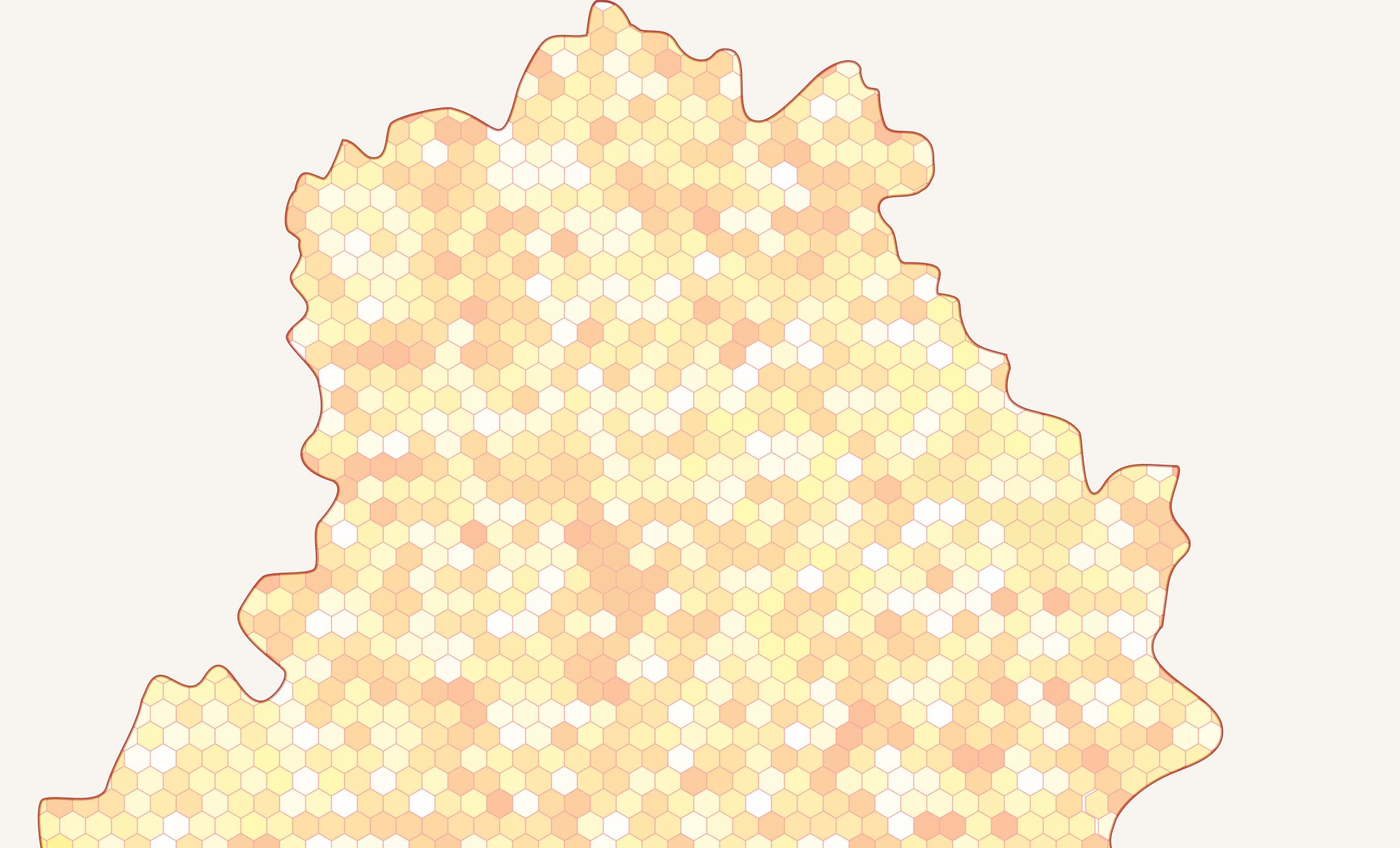


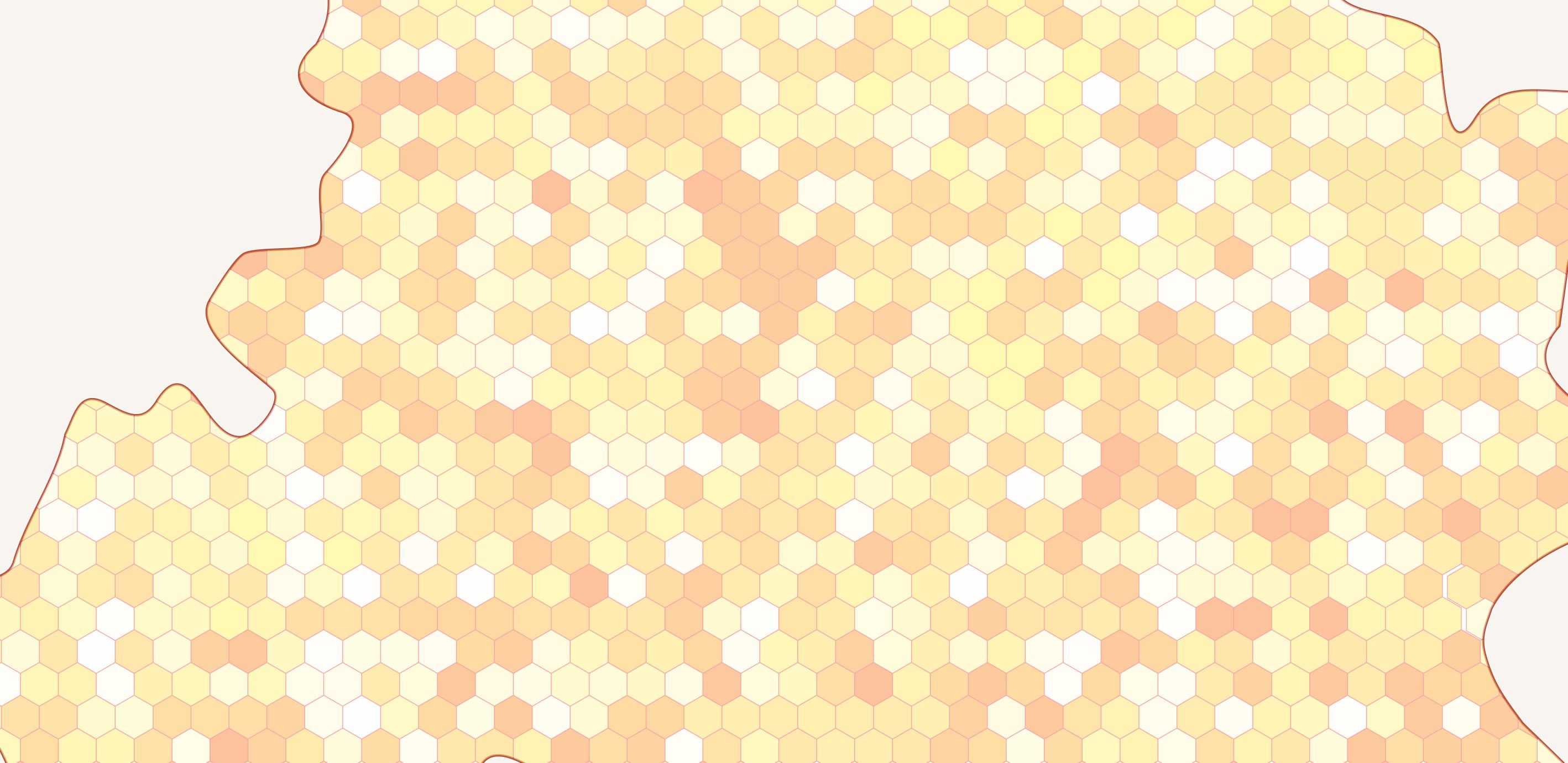
Covers a pre defined area - ~ 3kms

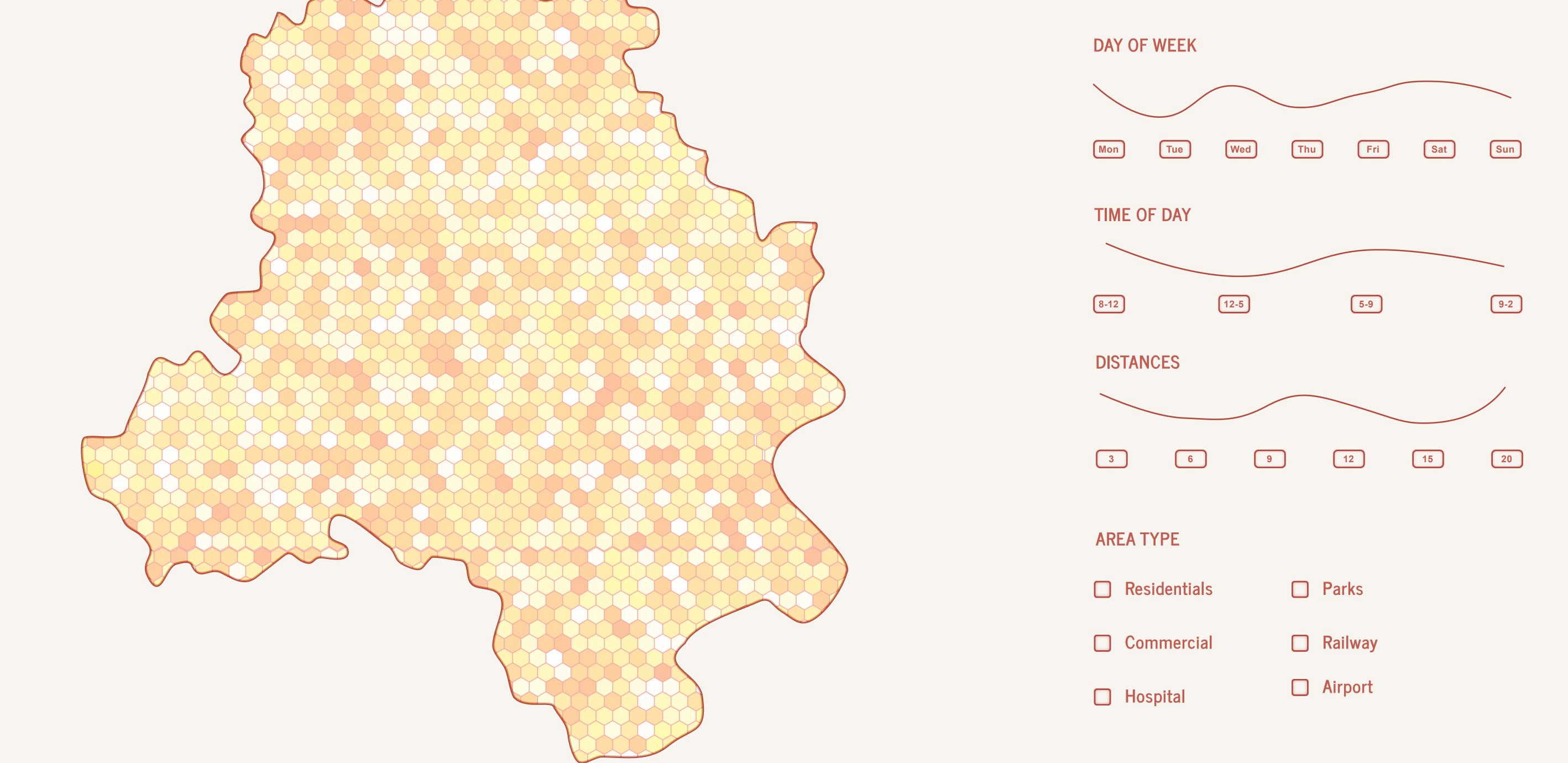
Color coded to reflect the excess travel time

Include different land uses; school, residential etc

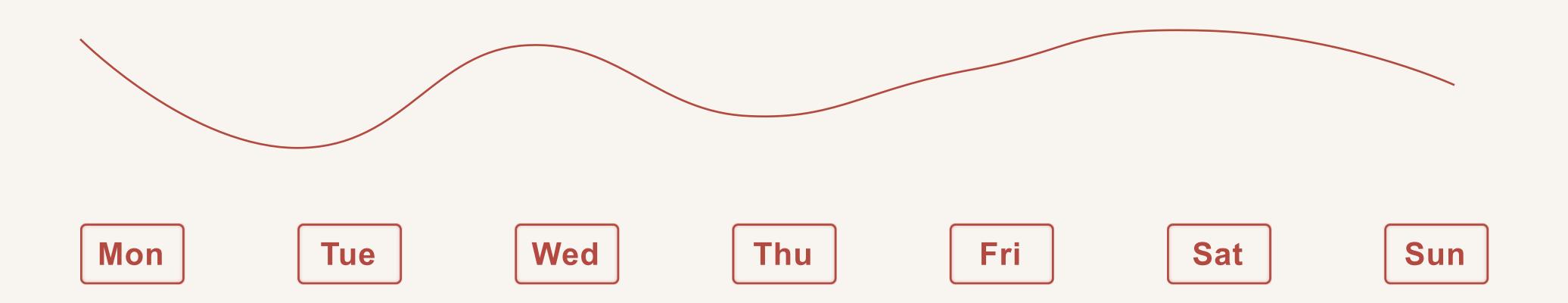
time calculated from one tile to another







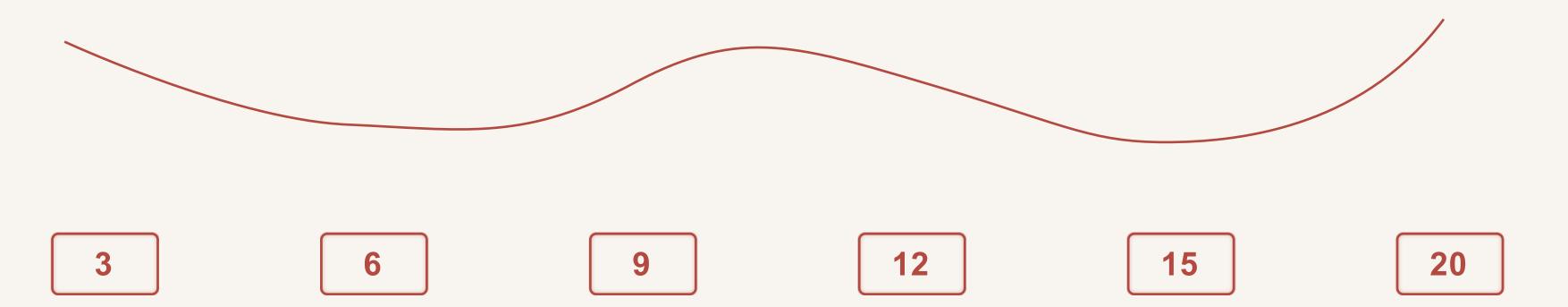
DAY OF WEEK



TIME OF DAY

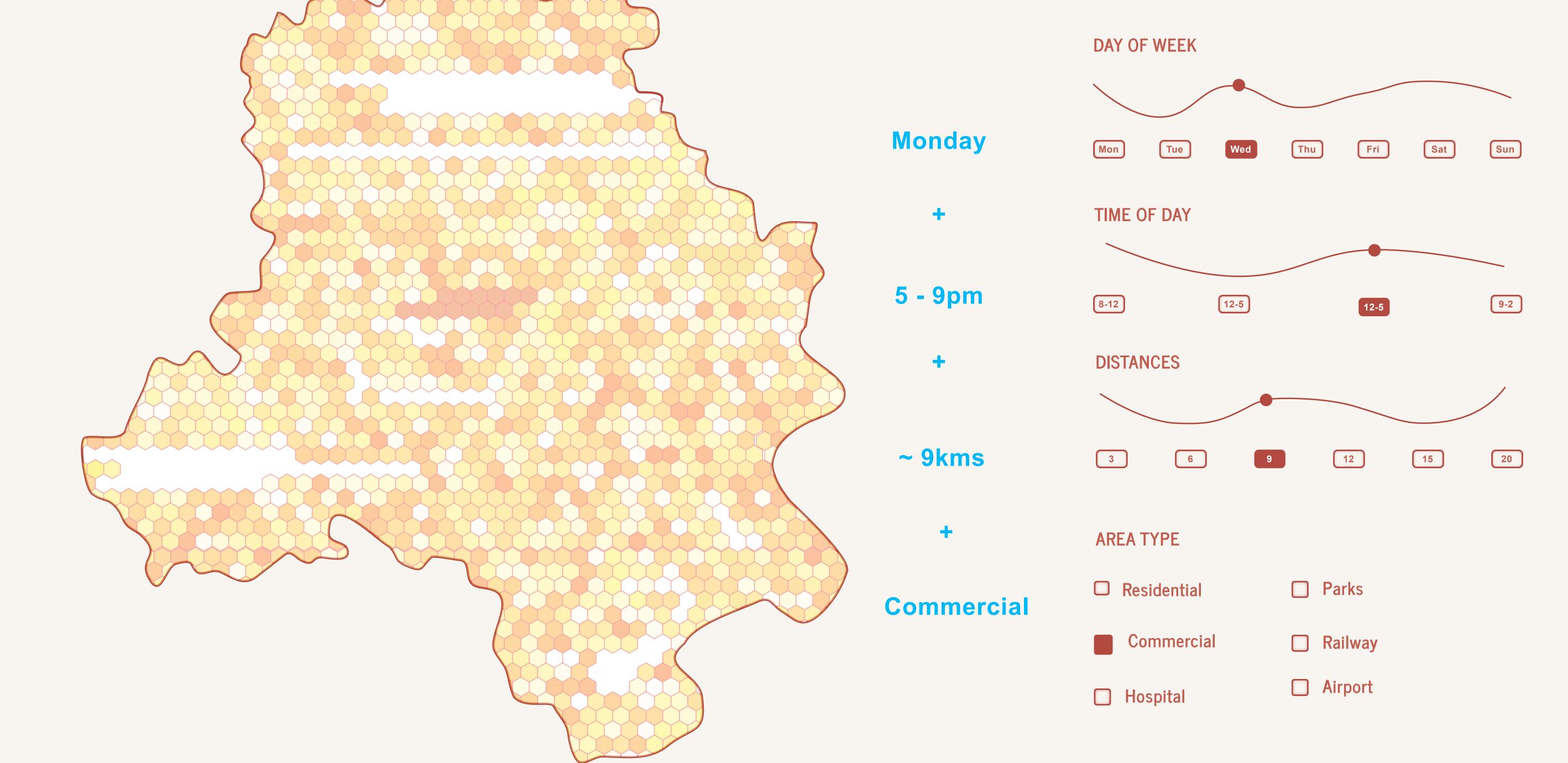


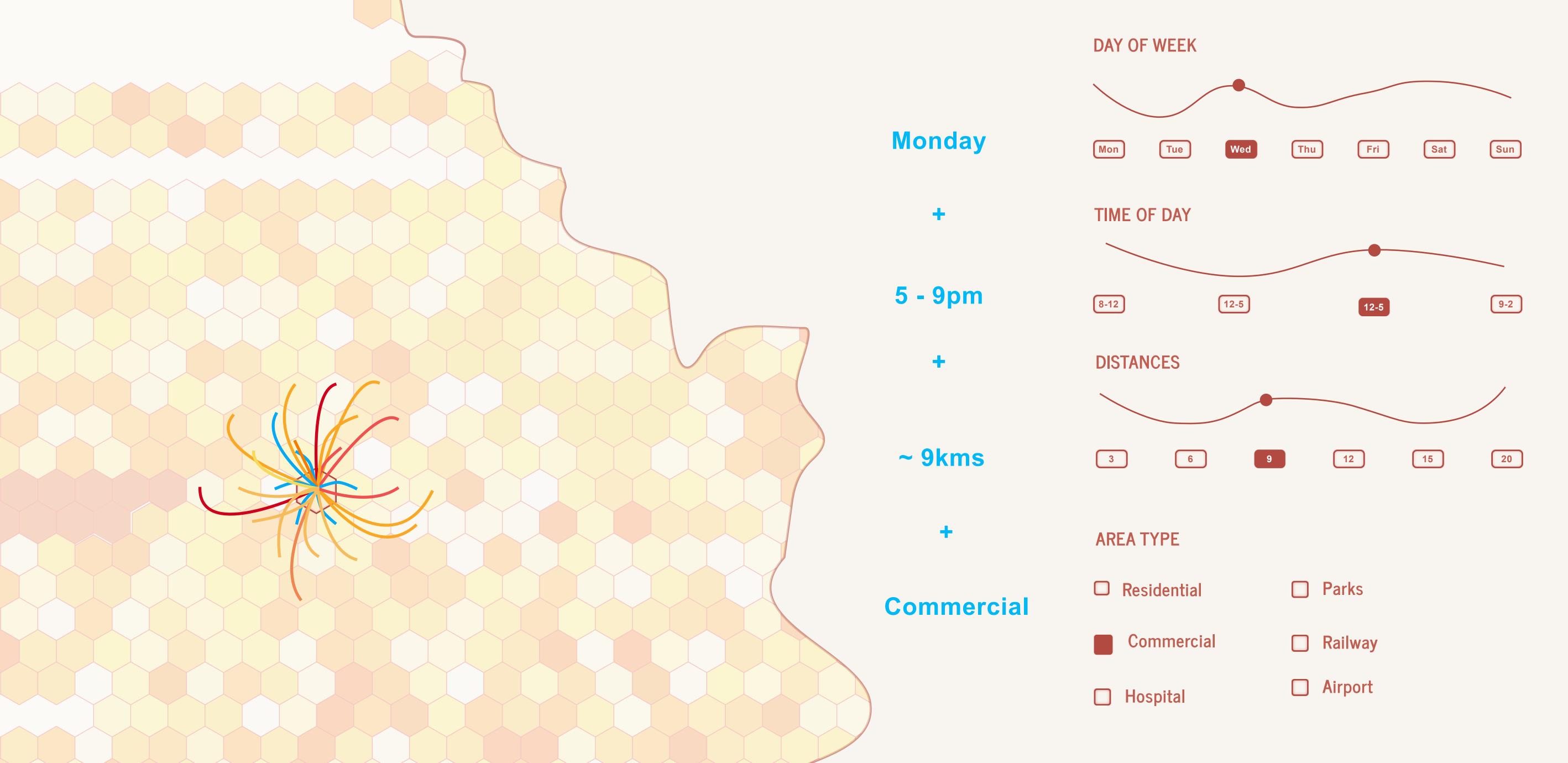
DISTANCES



AREA TYPE

- Residential Parks
- Commercial Railway
- Hospital Airport





Data collection

OSM Data - geojson format data for different types of areas in Delhi.

Google Directions API - calculate time to travel from one point to another

QGIS - calculate bounds of Delhi and also identify / fix missing pieces

turf.js - geo spatial analysis.