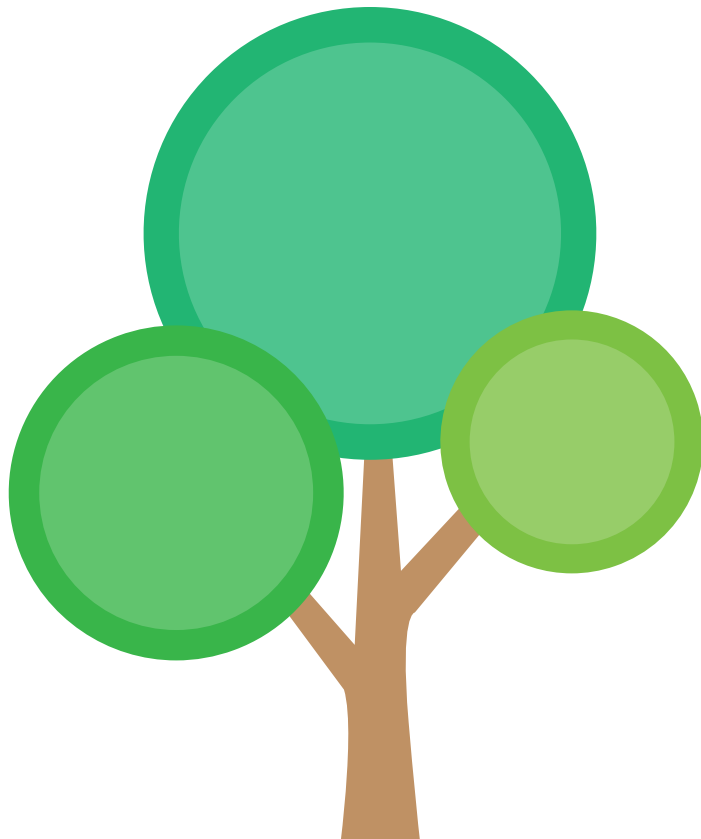


Trees, Trees, Trees

Elisabeth Freimann, Simon Kohler,
Fabian Lüthard,

Impact of trees on climate in Zürich



“Planting of trees positively impacts air quality and has some cooling effect”

1

Several studies verify this – is there an effect in local areas

2

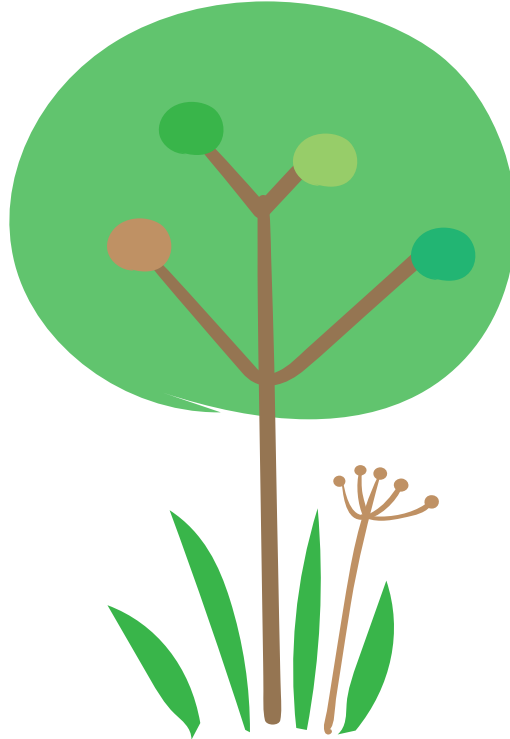
Development of tree planting, air quality and temperature in Zürich

3

Data

Trees

Amount of trees planted
in Zürich each year



Temperature

Temperature across
measuring stations in
Zürich per day

Air Quality

Air Quality across
measuring stations in
Zürich per day

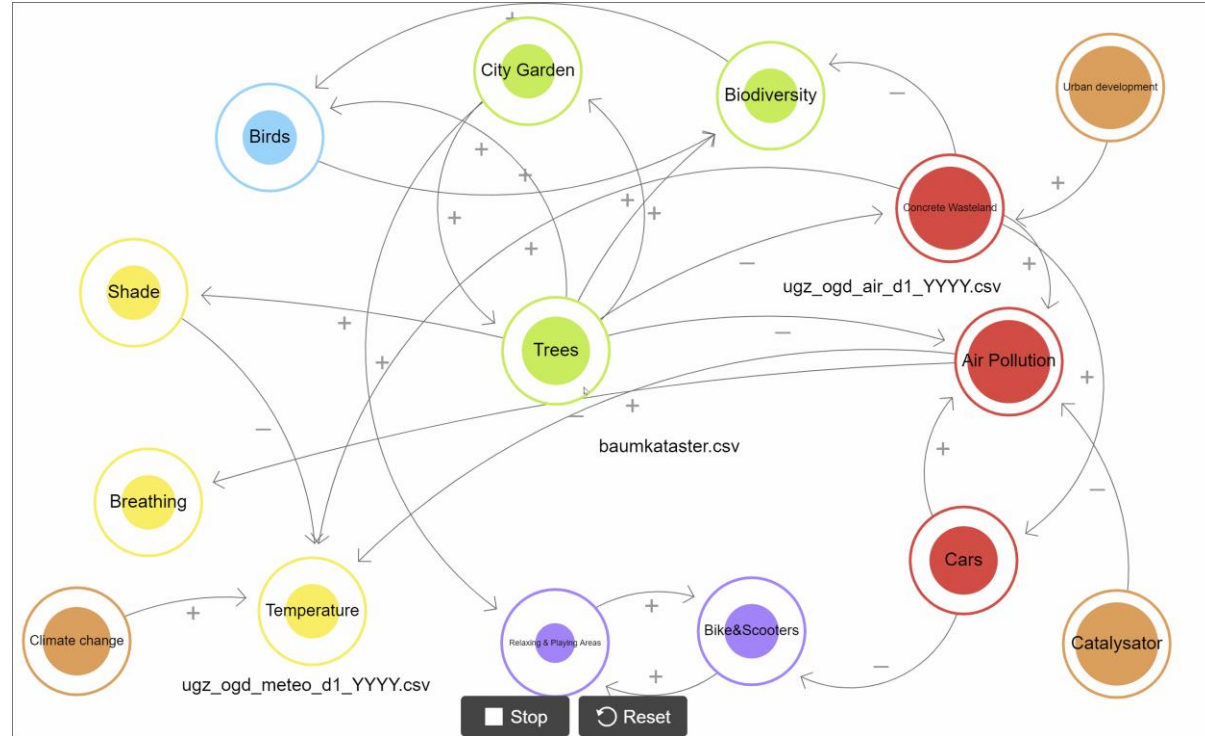
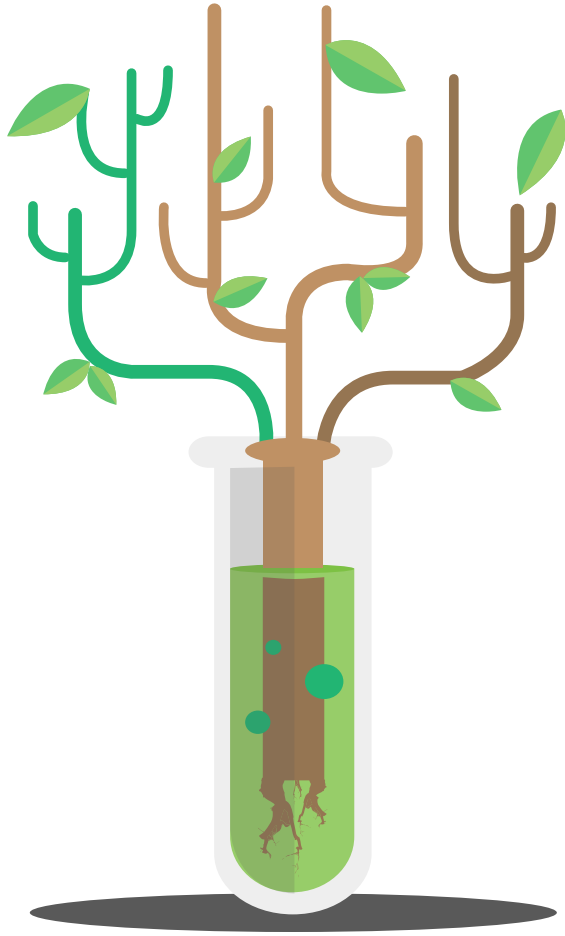
Sustainable Development Goals

SUSTAINABLE
DEVELOPMENT GOALS

Risk
Opportunity
Intended



System Model



Results

R Markdown

- Graphical analysis
- Decomposition
- Timeseries analysis
- Correlation



Tableau

- Dashboard
- District Comparisons
- Map-based analysis

Graphical Analysis

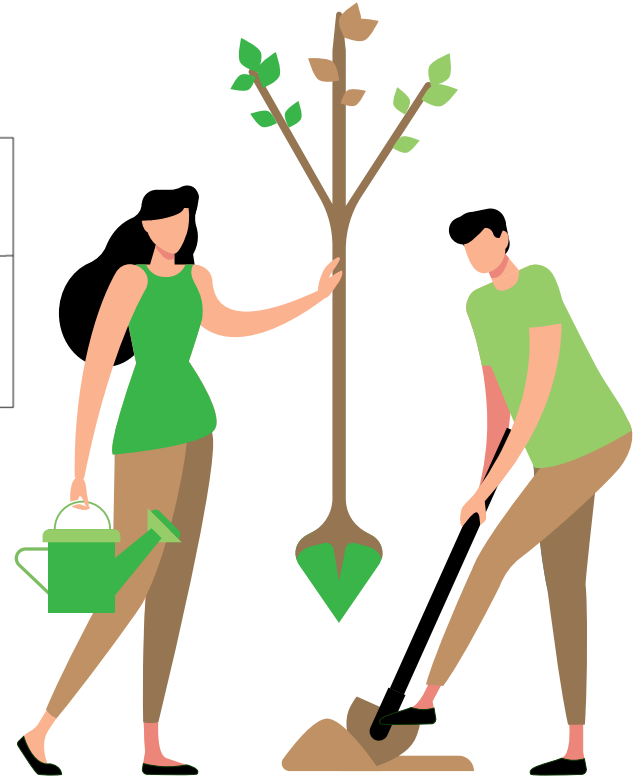
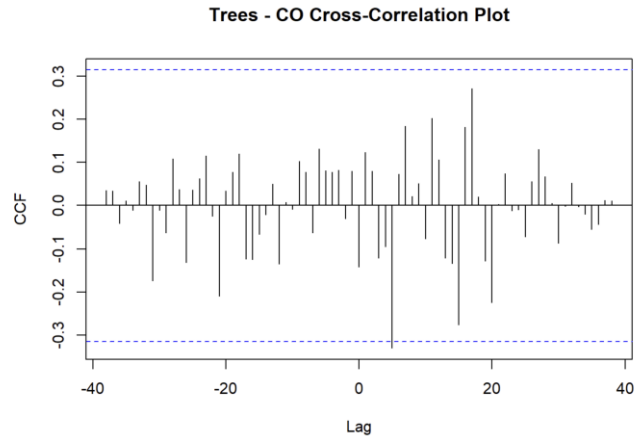
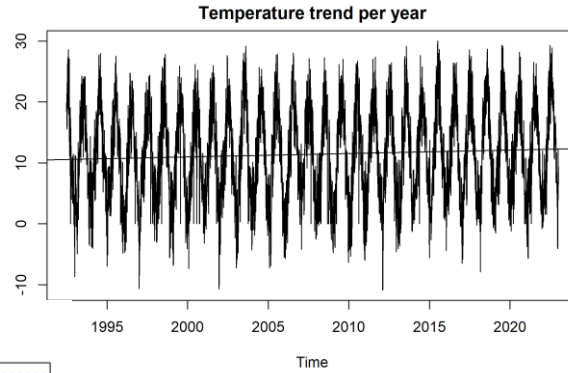
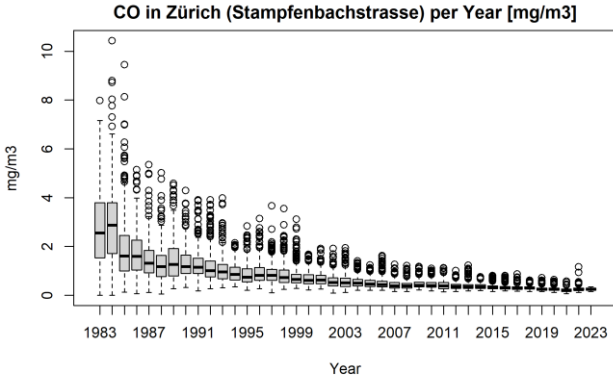


Tableau - Dashboard



Key findings

Effects of trees
only seem to be
visible very
locally



No clear correlation between
amount of trees and temperature
or air quality visible over time



Additional and more detailed data
might lead to new observations

Temperature rise is visible as a
trend in Zürich



Air quality has massively
improved since the 1980s



Q&A

