Team Czechia



presents











European Big Data Hackathon 2025



eurostat

Based on a true story







Starring: Major Cities in Europe

Rating: DEGURBA 1

Camera: Sentinel 2 and 3

Sound: Statistical Methods

Covers: EU Regional and urban policies







PRODUCED BY

FrontEnd: David Dobrovolný (#Voluntary)

BackEnd: Patrik Sekerka (#Axe)

Comment: Martin Černý (#Black)







with a special guest



The world is changed,
I feel it in the water,
I feel it in the Earth,
I smell it in the air



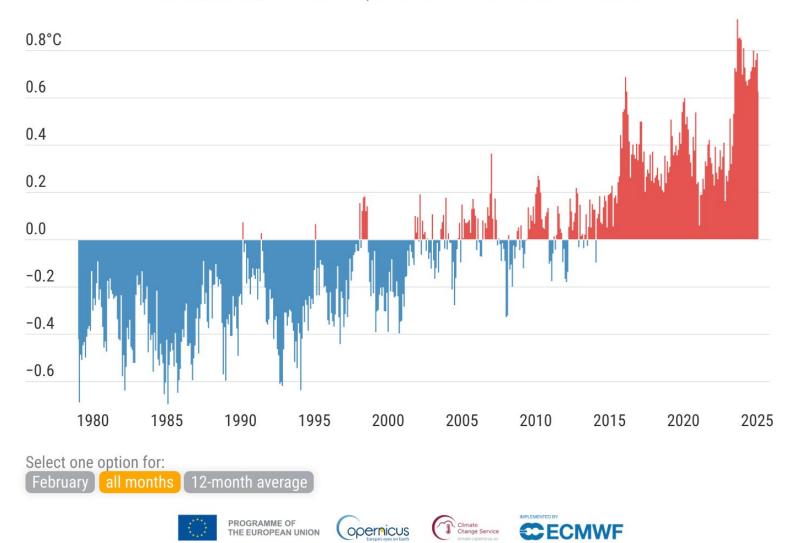






Global surface air temperature anomalies

Data source: ERA5 • Reference period: 1991–2020 • Credit: C3S/ECMWF





eurostat O

European Commission

European



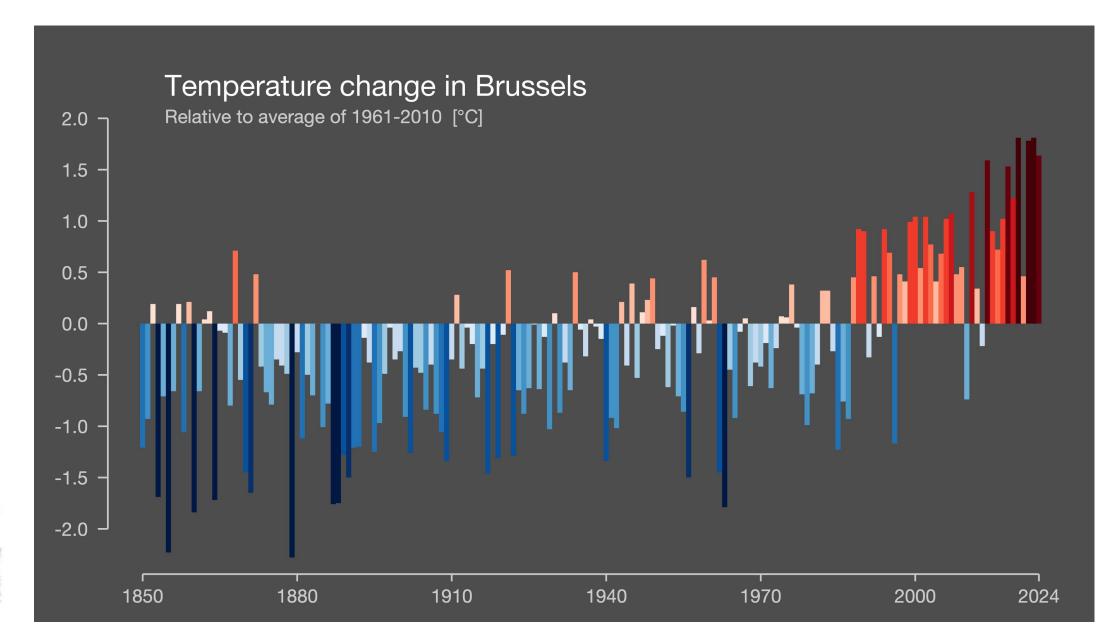
The rain in Spain stays mainly in the plain...

The heat you feel and pity is mainly in the city!



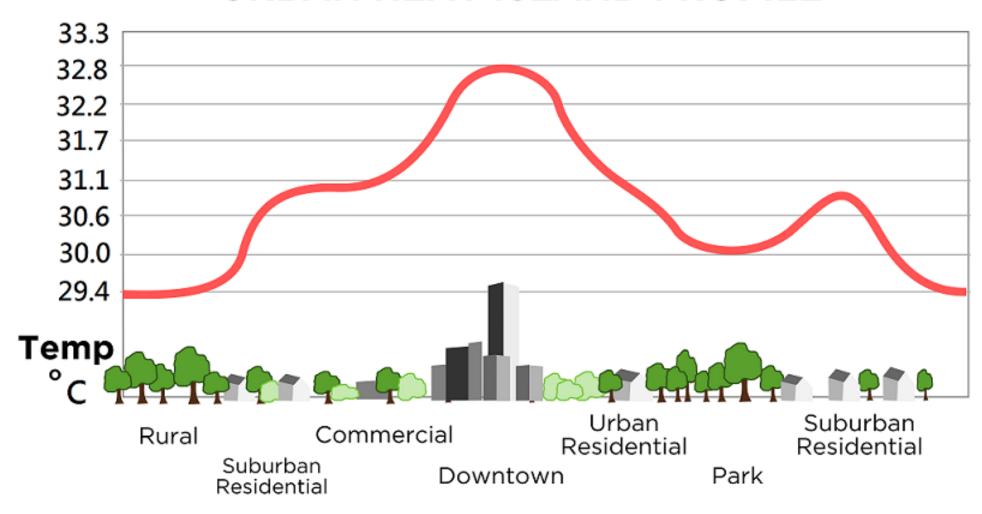








URBAN HEAT ISLAND PROFILE





THE SOLUTION

Heat In The City (HITC) dashboard for

urban planners and local governments

in order to

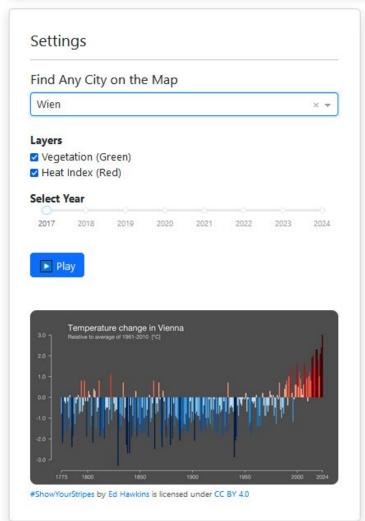
design strategies to reduce the heat stress



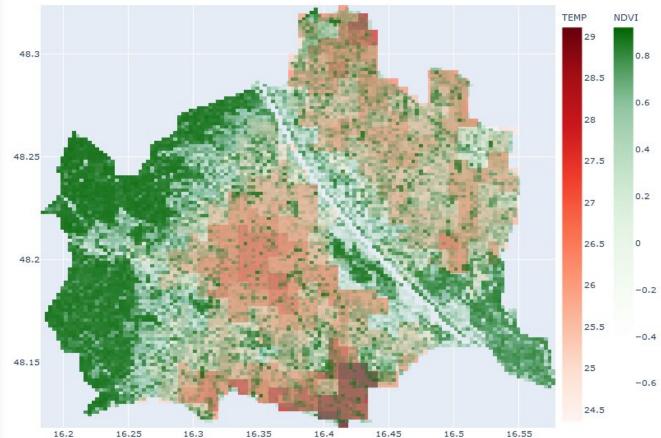




Heat in the City



Year: 2017



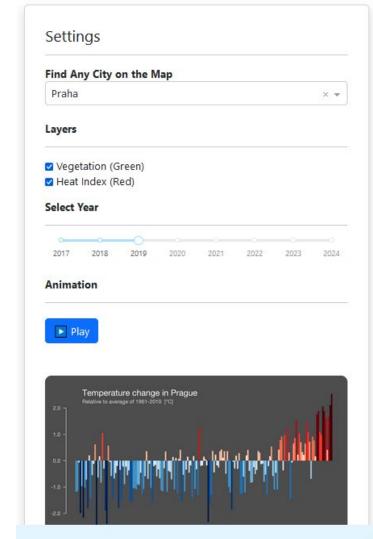


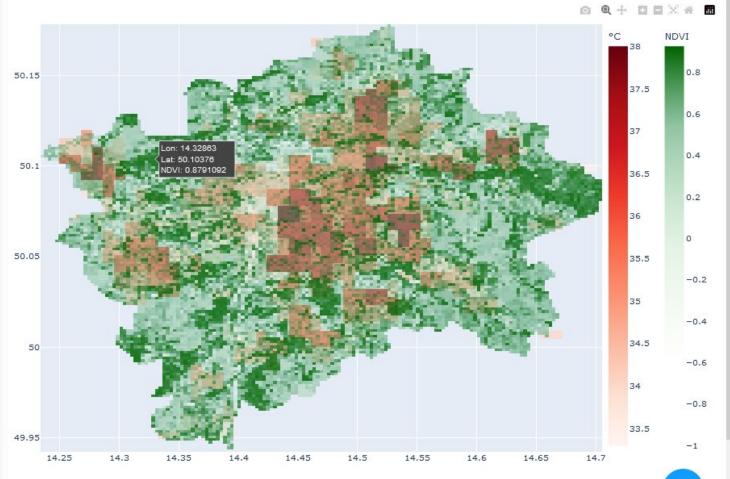
European

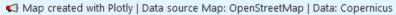
Big Data Hackathon 2025



Heat in the City







Year: 2019

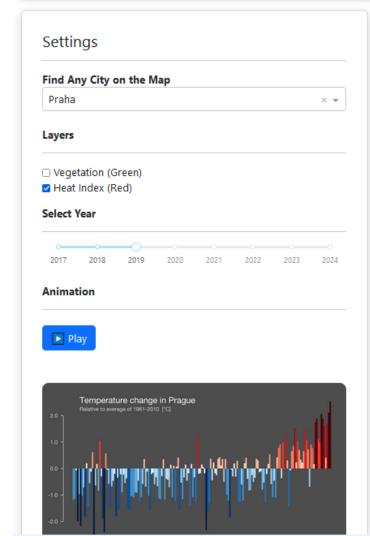
European Commission

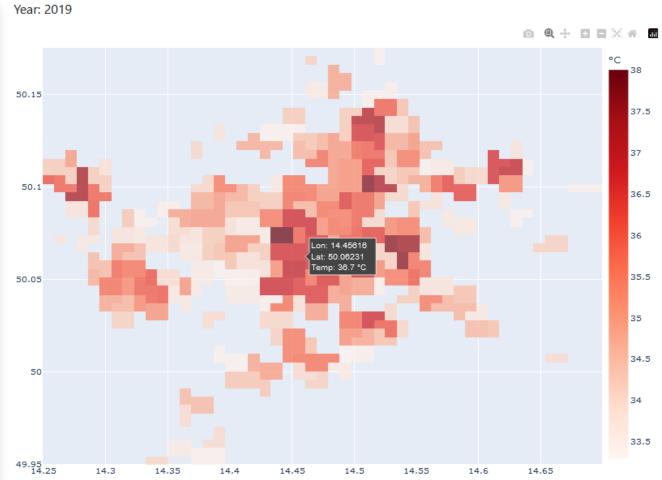
European

2025

Big Data Hackathon

Heat in the City







Map created with Plotly | Data source Map: OpenStreetMap | Data: Copernicus

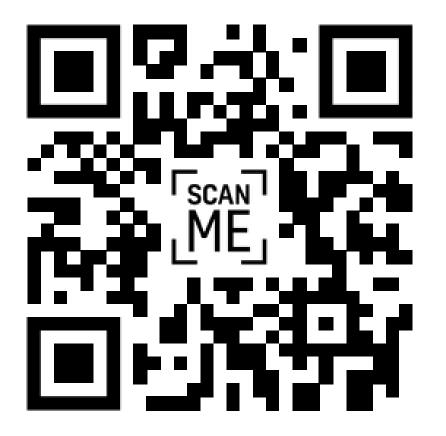
European Commission

European

2025

Big Data Hackathon

Heat In The City (HITC) dashboard









Main features

- Selection of City (LAU)
- Selection of indicators
 - NDVI 20x20 m resp. 60x60 m
 - LST 1x1 km
- Interactive map -> heat islands
- Time animation auto / manual
- Climate stripes for selected city
- Mobile friendly (responsive design)
- Customizable open source solution suitable for any geographical areas





Roadmap

European policies

Regional strategies

Personal decisions









"Even the smallest person can change the course of the future."

– Galadriel





Brussels, 6-11 March 2025





Thank you





