



VITO

VITO is an independent Flemish research organisation in the area of cleantech and sustainable development. Our goal? To accelerate the transition to a sustainable world.

AREAS OF ACTIVITY

Agriculture
Biodiversity, Nature-Based Solutions, Ecosystem Services
Bioeconomy
Building Sector
Business Development
Citizen Science
Climate Modelling
Climate Risks & Responses, Disaster Risk Management
Climate Services
Consulting, Service Provider
Data, Knowledge, Digital Services
Earth observation & Environmental Observation
Energy Sector
EU Projects
Health Sector
Information & Communication Technologies
Marine, Coastal, Fluvial Management
Policy-Making
Regional & Local Administration
Research & Development
Urban Planning
Water Management
Climate change adaptation

PROJECT

Climate-fit.City

Working closely with city officials and urban stakeholders, the EU-funded Climate-fit.City project transforms complex, urban climate data into a set of highly usable tools to address local challenges. Primary urban climate data is provided by the project coordinator VITO, the Flemish Institute for Technological Research. The institute developed a flexible and highly precise computer model called UrbClim to generate detailed urban maps at a spatial resolution ranging from 100 metres to a kilometre as well as thermal comfort maps at street scale level. Climate services on active mobility, building energy, cultural heritage, heat-health, urban planning and emergency planning have been demonstrated for major European cities as Antwerp, Barcelona, Rome, Prague, Graz, Berlin and London. Contact: Filip Lefebvre

<https://www.ecca21.eu/participants/1847> Official website of the project:
<http://climate-fit.city/>

Applies to

Health, Database, Local level, ICT solutions, Energy sector, Urban planning, Building sector
Water management, Climate services, Climate modelling, Cultural heritage, Adaptation strategy,
Platforms, websites, Transportation sector, Extreme weather events, Simulation, gamification,
Demonstration activities, Climate change adaptation, Disaster risk management and reduction
Decision support tools, decision-making, Exchange of knowledge and good practices, Business
development and commercialisation, Assessment of climate change impacts (physical, economic,
social...)



ECCA 2021 - Climate Adaptation solutions - Climate-fit.City

Video https://youtu.be/GTvN01KPZ_g

The screenshot displays the Climate-fit.City web interface. At the top, it reads "ECCA 2021 - Climate Adaptation solutions - Climate-fit.City". Below this, there are tabs for "Temperature", "Humidity", and "Wind speed". A central graph shows two curves: a red one for "2021" and a green one for "2020". A tooltip for "HAD" indicates a reference of 10.6 °C and a 2020 value of 10.26 °C. On the right, a "Copy link" button is visible. Below the graph, a list of metrics is provided:

- TimeM: Monthly mean air temperature (°C)
- TimeMx: Monthly maximum temperature (°C)
- TimeMn: Monthly minimum temperature (°C)
- TimeM0: Monthly total number of days with a max of 20°C (heat wave days)
- TimeM1: Monthly total number of days with a min of 0°C (freezing days)
- CCD: Cooling Degree Days (Sum of the exceedance of air temperature over 20°C)
- HDD: Heating Degree Days (Sum of the exceedance of air temperature under 16°C)
- TimeMw: Monthly mean relative humidity (%)
- TimeMws: Monthly mean wind speed (m/s)

A "Watch on YouTube" button is located at the bottom left of the interface.