



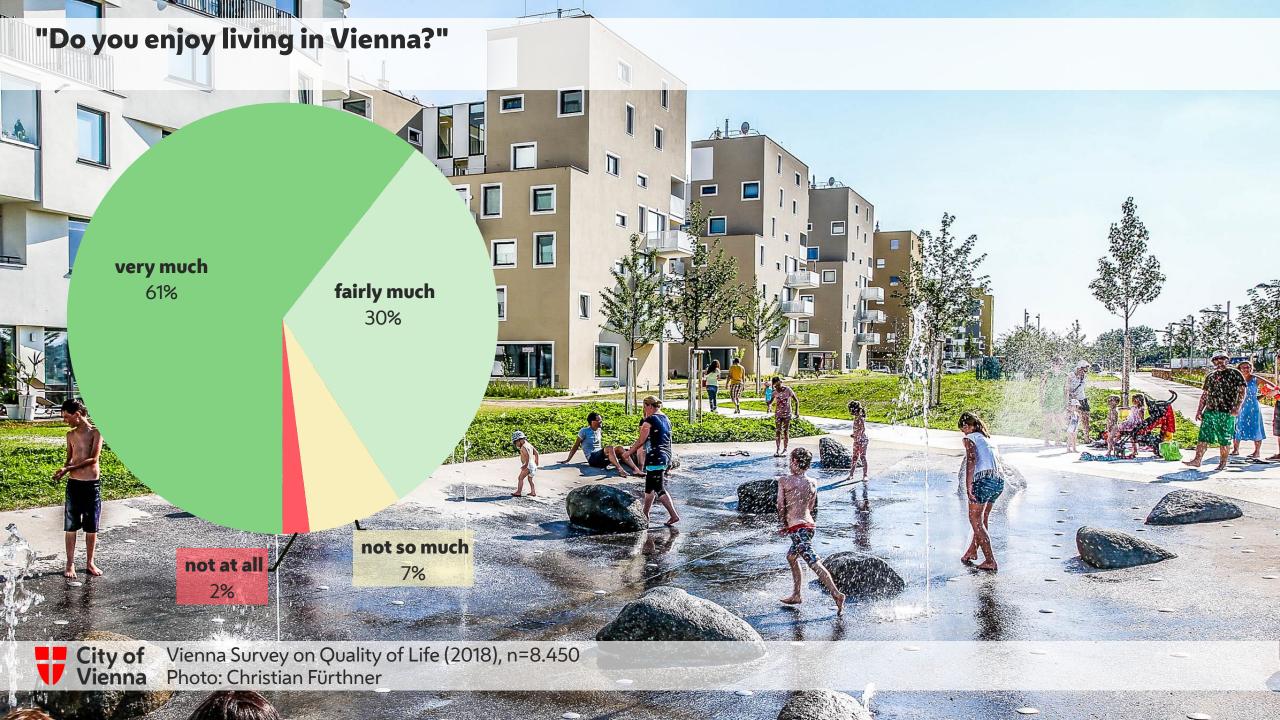
- > Climate Change the Challenge of our Times
- > Smart City Vienna an Approach to a Solution
- > Adaptation to Climate Change: Get Prepared!
- > Conclusion



Climate Change – the Challenge of our Times

- > Smart City Vienna an Approach to a Solution
- > Adaptation to Climate Change: Get Prepared!
- > Conclusion





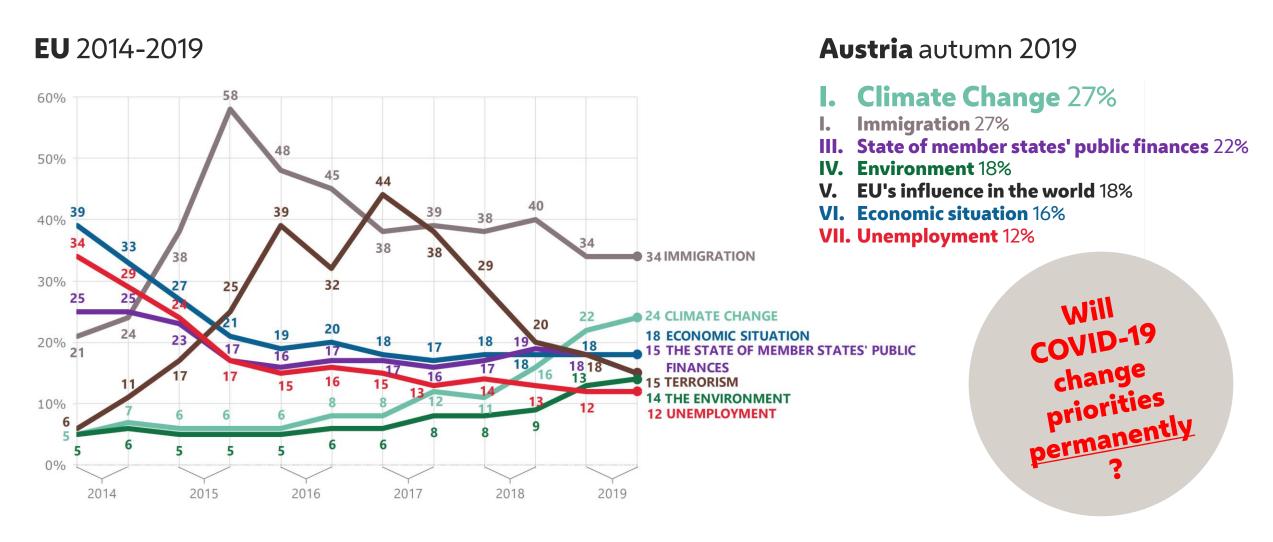
The Viennese are surprisingly open-minded towards city growth.

"The fact that Vienna is growing, I generally perceive as positive."



The Climate Crisis has arrived.

"What do you think are the two most important issues facing the EU/Austria at the moment?"





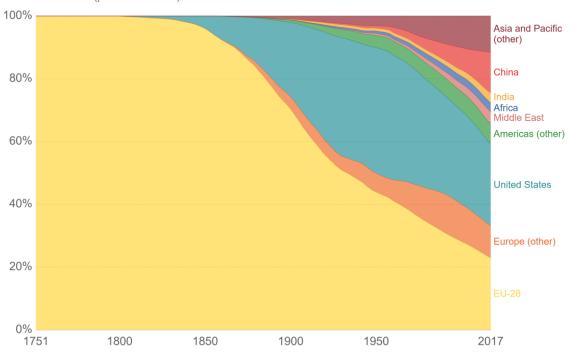
City of Vienna Source: Standard Eurobarometer 92 – Autumn 2019 "Public opinion in the European Union, First results" (und Annex)

Climate Justice

Why Europe an den US have to lead the way.

Cumulative CO₂ emissions by world region

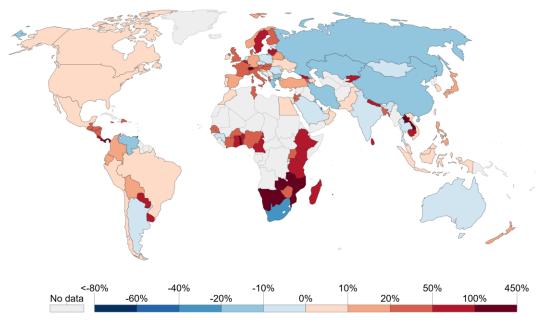
Cumulative carbon dioxide (CO₂) emissions by region from the year 1751 onwards. Emissions are based on territorial emissions (production-based) and do not account for emissions embedded in trade.



OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY

CO₂ emissions embedded in trade, 2016

Share of carbon dioxide (CO₂) emissions embedded in trade, measured as emissions exported or imported as the percentage of domestic production emissions. Positive values (red) represent net importers of CO₂ (i.e. "20%" would mean a country imported emissions equivalent to 20% of its domestic emissions). Negative values (blue) represent net exporters of CO2.



Source: Peters et al. (2012 updated); Global Carbon Project (2018)

OurWorldInData.org/co2-and-other-greenhouse-gas-emissions/ • CC BY

Our World in Data



Source: OWID based on CDIAC & the Global Carbon Project (2018)

City of Source: Ritchie, Roser (2020) - "CO₂ and Greenhouse Gas Emissions". Published online at OurWorldInData.org. https://ourworldindata.org/co2-and-other-greenhouse-gas-emissions

in Data

- > Climate Change the Challenge of our Times
- > Smart City Vienna an Approach to a Solution
- Adaptation to Climate Change: Get Prepared!
- > Conclusion





For many Smart City stands for... ...a high-tech gadget wonderland as an end in itself.



City of Vienna

Photo: Wien Tourismus

Adaptation: Executive Office, Construction and Technology

From Vienna's perspective a Smart City can be...
...a traditional city watching out for future generations.



City of Mölker Bastei (Wien 1) Vienna Photo: Gerd Götzenbrucker



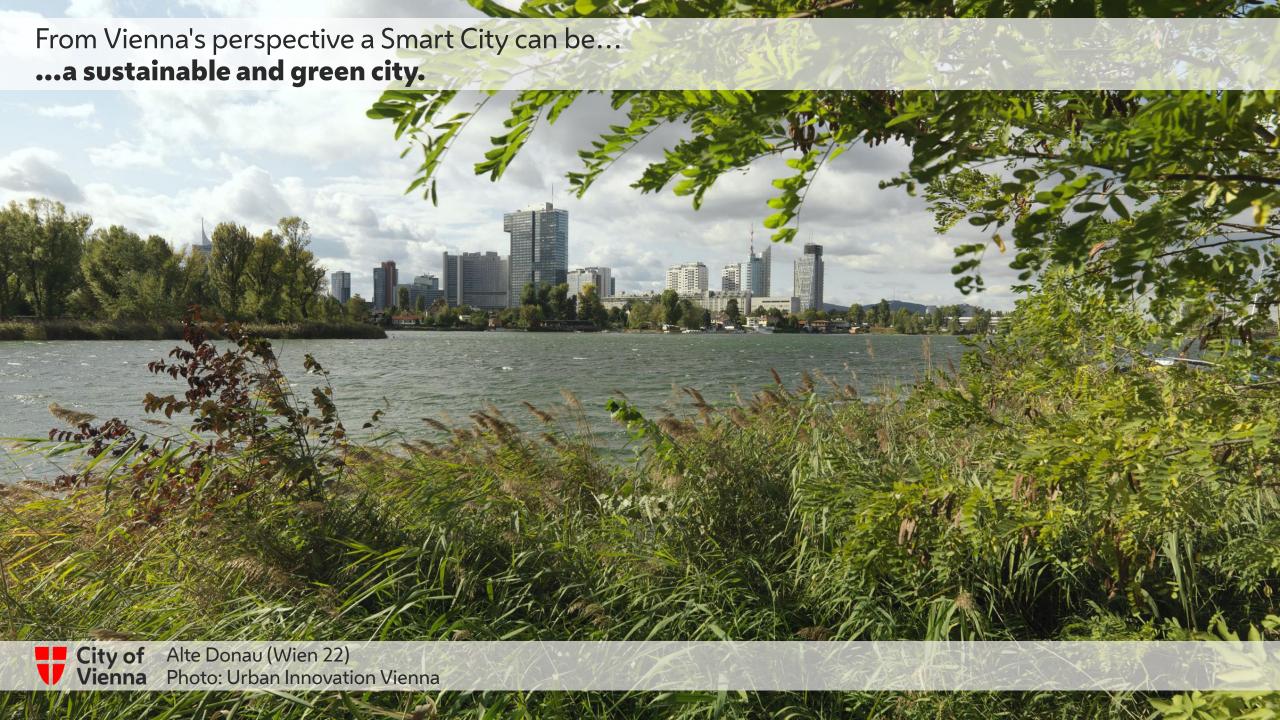




From Vienna's perspective a Smart City can be... ...a digital city for everybody.



"I like IT" action day 2014 organised by the DigitalCity.Wien-initiative, Stephansplatz (Wien 1) Photo: David Bohmann





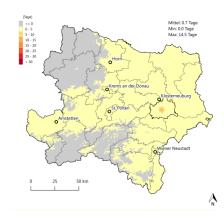


From Vienna's perspective a Smart City can be...

...a city preparing itself for inevitable climate change.

number of **tropical nights** (≥20°C)

at present (climate '81-2010)

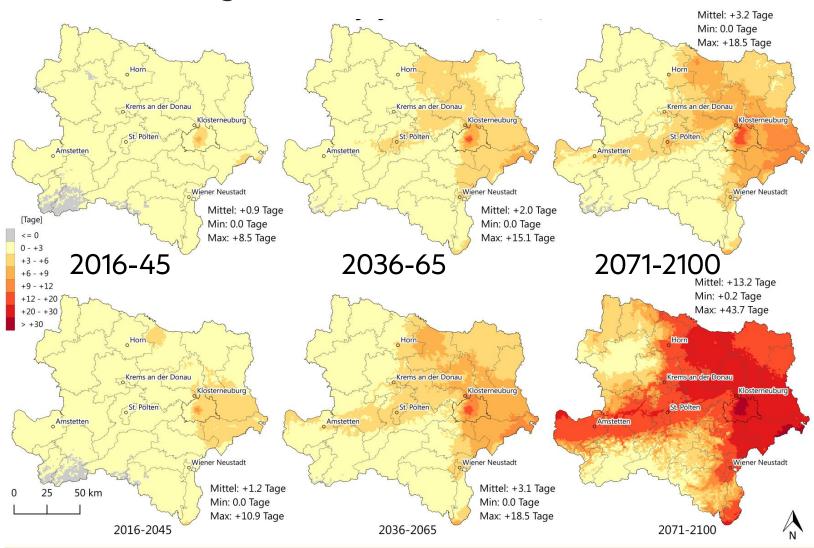


Lower Austria+Vienna mean: 0,7 nights maximum: 14,5 nights (→central Vienna)

in the future (increase)

...assuming great efforts in climate protection

...assuming low efforts

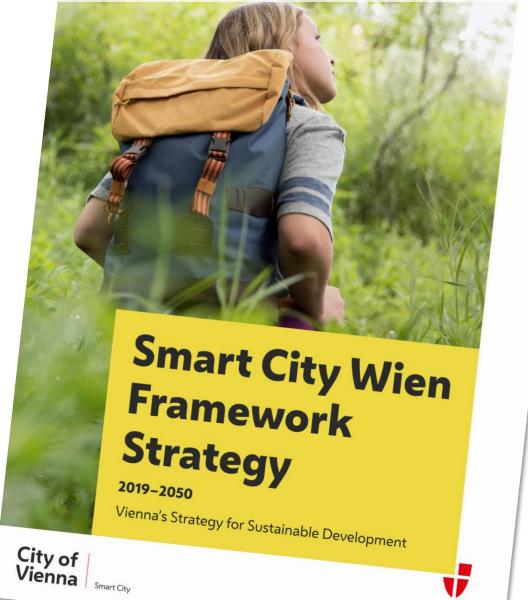




Clima-Map (www.clima-map.com)

City of Vienna Clima-Map (www.clima-map.com)
Calculations: University of Natural Resources and Life Sciences Vienna, Design: awdesign.at

From Vienna's perspective a Smart City can be... a city looking ahead.





Smart City Wien Framework Strategy 2019-2050

What needs to be done: reducing greenhouse gas emissions drastically

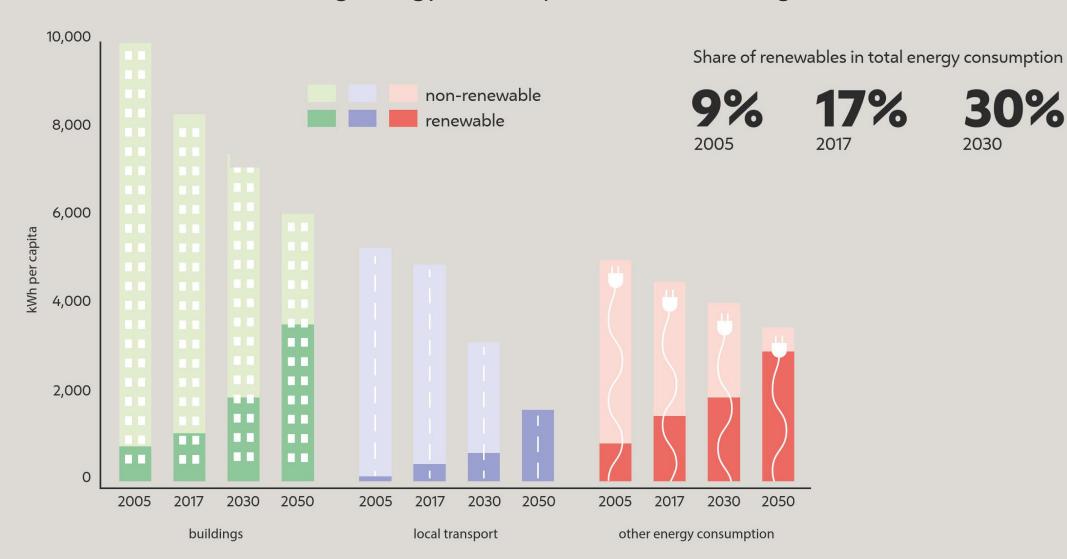


- buildings
- local transport
- total



Smart City Wien Framework Strategy 2019-2050

How it can be done: lowering energy consumption while boosting the share of renewables





Smart City Wien Framework Strategy 2019-2050 A holistic approach.





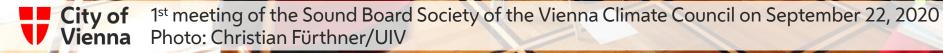
Vienna Climate Council

Scientists and experts advise mayor and vice-mayor in climate-related issues



Advisory Board Science (eight scientists/experts from Austria and abroad)

- + Sounding Board City: city administration, delegates of government parties
- + Sounding Board Society: federal administration, NGOs, advocacy groups, delegates of opposition parties & citizens



- > Climate Change the Challenge of our Times
- > Smart City Vienna an Approach to a Solution
- > Adaptation to Climate Change: Get Prepared!
- > Conclusion



Adaptation to Climate Change & Climate Protection

Distinct topics with potential synergies.

Climate Protection Measures to reduce

greenhouse gas emissions



Synergies

Measures contributing to both tasks

Adaptation to **Climate Change**

Measures to cope with inevitably climate change



Smart City Wien Rahmenstrategie 2019-2050 (draft) **City of** Smart City Wien Rahmenstrategie 207 **Vienna** Illustration: The Gentlemen Creatives



Adaptation to Climate Change We need to start now: in architecture as well as urban planning City of Vienna Foto: Christian Fürthner

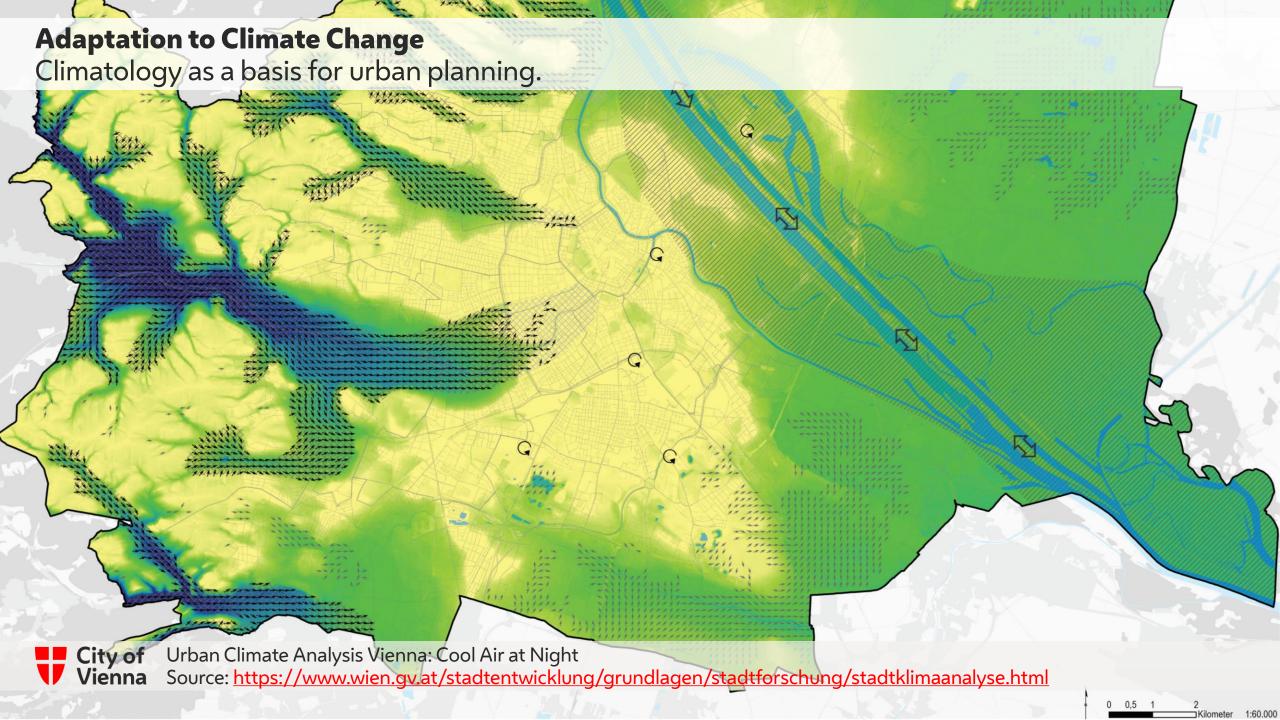
Adaptation to Climate Change

Increased importance of public spaces for the well-being of citizens









- > Climate Change the Challenge of our Times
- > Smart City Vienna an Approach to a Solution
- > Adaptation to Climate Change: Get Prepared!
- > Conclusion



Conclusion

- > The global **context is changing rapidly** for cities. Especially the **climate-crisis** ist a severe threat.
- > Cities are not the problem though. Cities are the solution.
- > Vienna has been redefining the Smart City by putting people and their needs front and center.
- > Cities have to radically change how they interact and cooperate with their citizens.
- > **Social innovation is the key** towards necessary significant reductions of resource consumption.



