

ICOS Cities internal newsletter 1/2025

# ICOS | Cities

## THIS NEWSLETTER AT A GLANCE:

- ICOS Cities Zurich on the news
- Prestigious award to ICOS Cities scientists
- A range of project deliverables and publications out now
- Upcoming events



## “We hope that our findings will help Zurich achieve its climate targets”

**Switzerland has a national net-zero goal of 2050 – but Zurich wants to speed up the process and reach net-zero by 2040. Achieving this ambitious target requires accurate, reliable data – and that’s why the ICOS Cities project is particularly interesting to local media outlets.**

*Recently, the ICOS Cities Zurich crew was interviewed by both [swissinfo.ch](#) and [immo-invest.ch](#) - we did a compilation of the news stories.*

“Zurich, for example, currently counts all its cars and heating systems and multiplies that by emission factors to calculate a bottom-up inventory. What we are doing is observation based: we look at the atmosphere and the concentrations of CO<sub>2</sub> in the city and we combine that with models to get an independent estimate of the emissions,” explains ICOS Cities lead in Zurich, **Lukas Emmenegger** at the Swiss Federal Laboratories for Materials Science and Technology (Empa), to SWI [swissinfo.ch](#).

Emmenegger and his team at EMPA are trying to find out where the CO<sub>2</sub> in urban areas originates, whether it is from traffic, heating, natural sources or elsewhere, and the influence of factors like winds, forests and parks on CO<sub>2</sub> concentrations. This knowledge will ‘help the city of Zurich accelerate its’ own climate action progress and can also serve as a model for other cities in Europe’, explains [immo-invest.ch](#).

[Read the full story](#)

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[Award for urban climate research](#)

## Prestigious Timothy Oke Award to ICOS Cities scientists

Professor Jia Chen has been awarded with the prestigious [Timothy Oke Award 2024](#) for her excellent research in urban climate, particularly her unique contributions to greenhouse gas monitoring and measurement in urban areas. Jia Chen is the Scientific Lead for the pilot city Munich in the [ICOS Cities](#) project.

"I feel deeply honoured and grateful for this award, and it motivates me to continue in my endeavour to advance monitoring of urban greenhouse gases. I want to thank ICOS and all the colleagues who have supported me along the way," says **Jia Chen**.

Also **Simone Kotthaus** in WP3 received the same prestigious award. Kotthaus is contributing to the project with atmospheric dynamics observations in Paris focusing on boundary layer heights, wind and turbulence profiles from Doppler wind lidar.

Big congratulations to both!

[Read more](#)



## A range of project deliverables and publications out now

A large set of publications and deliverables have recently been published by the ICOS Cities project teams. Many manuscripts are also in review or planned for 2025. Here is a sample of recent publications.

### **Publications end of 2024:**

[Development and deployment of a mid-cost CO2 sensor monitoring network to support atmospheric inverse modeling for quantifying urban CO2 emissions in Paris](#)

[Mapping CO2 traffic emissions within local climate zones in Helsinki](#)

[A geospatial approach for dynamic on-road emission through open-access floating car data](#)

[Carbon dioxide and evapotranspiration fluxes in an urban area of Krakow, Poland](#)

[Eddy covariance with slow-response greenhouse gas analysers on tall towers: bridging atmospheric and ecosystem greenhouse gas networks](#)

### **Publications in 2025:**

[Tenta: Remote and Real-Time Sensor Network Management](#)

[Linkage Between Vertical Coupling and Storage Flux: Insights from Urban Tall-Tower Eddy Covariance Measurement](#)

[Fiducial Reference Measurements for Greenhouse Gases \(FRM4GHG\): Validation of Satellite \(Sentinel-5 Precursor, OCO-2, and GOSAT\) Missions Using the COllaborative Carbon Column Observing Network \(COCCON\)](#)

Recently, a large set of deliverables were also published - take a look using the link below

All publications

All deliverables

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## Upcoming events



**ICOS** | Cities



7-9 April 2025, Geneva, Switzerland

### Urban Greenhouse Gas Conference and Stakeholder Summit 2025

Welcome to join us at the Urban Greenhouse Gas Conference and Stakeholder Summit 7-9 April 2025 in Geneva - jointly organised by ICOS Cities, IG3IS and World Meteorological Organization.

#### Event highlights

- ✓ Showcases the latest findings in urban greenhouse gas research
- ✓ Dedicated day to connect scientists and city stakeholders

Register by 31st of March 2025!

[Read more and register](#)

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26-29 May 2025, Munich, Germany

## ICOS Cities annual meeting in Munich

The fourth ICOS Cities annual meeting will be held in May 2025 in Munich. We will provide virtual access for a hybrid meeting for most sessions, but we would like to encourage you to come in person if possible.

[Register here](#)

[Draft agenda \(Confluence\)](#)

00

Days

00

Hours

00

Minutes

00

Seconds



29 May 2025, Munich, Germany

## Media & city stakeholder event

The ICOS Cities concept 'Science meets City' embarks in Munich at the last day of the annual meeting. The day starts with a media event presenting the key findings from the Munich network and the ESS Munich climate opinion survey results. The day continues with a prototype workshop, followed by speeches and a panel discussion targeting city stakeholders.

[Read more \(in German\)](#)

## Horizon 2020 project

ICOS Cities, aka Pilot Applications in Urban Landscapes - Towards integrated city observatories for greenhouse gases (PAUL), has received funding from the [European Union's Horizon 2020 research and innovation programme under grant agreement number 101037319](#).



[Read more](#)



### Integrated Carbon Observation System

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