



Co-ordinated by
ECMWF



CoC02

Prototype system for a
Copernicus CO₂ service

USER CONSULTATION WORKSHOP

How can the Copernicus CO₂MVS capacity support cities?

Opportunities for future emission reporting

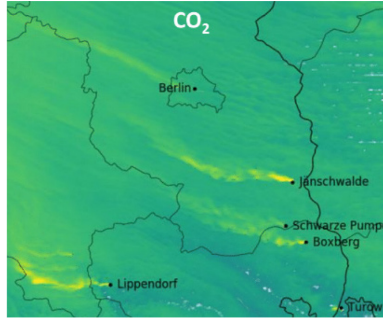
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What can science provide? What do users need?

Scientists:



We have this new detailed satellite data

We made a tool to estimate total emissions in cities

Users:



We lack data on fuel use & emissions at building sites

We now know how much fuel is sold in the city, but we don't know how much fuel is used in the city



Getting a discussion started



How to bridge the divide?

Is it possible to implement policies in a way that are easier to verify with observations or other proxy data?

(work together to find niches)

Some Oslo policies very hard to verify!

Sector	Area	Measure	Cumulative CO ₂ reduction 2020 (ktCO ₂)	
Energy/Buildings	Phase out fossil fuel heating in buildings	Phase out of the remaining oil heating in municipal buildings	238	
	Fossil free district heating	Phase out fossil fuels for peak loads in district heating	46	
	Energy restructuring	Energy system plan Tighter specifications for buildings Energy efficiency and mitigation in municipal buildings Establish micro energy system (Furuset Pilot 1)	0*	
Resources (waste, water, ...)	Carbon capture and storage	Carbon Capture and Storage at the Klemetsrud waste recovery facility	165	
	Increased sorting	Increased material recovery	0*	
	Increased landfill gas utilisation	Increased landfill gas utilisation at Granmo	8	
	Sewage	Equipment to verify emissions from sewage	27	
Transport	Fossil free 2020	Fossil-free bus fleet Fossil-free local ferries	30	
	Zero emission taxis	Procurement requirement for zero-emissions services Introduction of new permit regulations for zero-emissions taxis Facilitate taxi-charging infrastructure for Council uses Taxi project: hydrogen and rapid electric charging	22	
	Shift in passenger traffic	Establish low emissions zones in Oslo Establish energy stations: personal vehicles and delivery vehicles Advocate increased differentiation of registration and fuel taxes Procurement requirements for zero-emissions Council fleet vehicles Charging infrastructure: personal vehicles Coordination of charging infrastructure for zero-emissions vehicles Establish system for parking and traffic management	152	
	Reduced passenger traffic	Strong accessibility measures Cycle project Environmentally differentiated congestion charging Increased public transport capacity Project Carfree city life Introduce parking restrictions Public transport hub development Mobility system plan Facilitate increased carpooling		
	Greener freight	Establish freight loading and unloading sites Green procurement strategy include procurement requirements	46	
	Greener goods transport	Establish central goods facility Establish energy station: freight (Alnabu) Increased biogas production from water/sewage (Bekkelaget) Increased biogas production from water/sewage (VEAS)	50	
	Greener construction equipment	Procurement requirements for green heavy equipment Reorganisation to green worksites Infrastructure for zero-emissions energy in the harbour area	52	



How to bridge the divide?

What single piece of data / tool would help you the most with your inventories?

(are scientists looking in the wrong places)

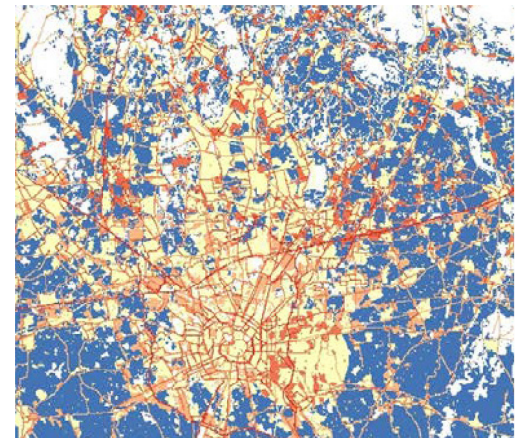




How to bridge the divide?

Where are the greatest needs? E.g. hot-spots (power plants) or diffuse sources (transportation)?

(hypothetically, we have good data in power plants but not transport)





How to bridge the divide?

Do you need more help with CO₂ or CH₄ emissions?

(we have lots of CH₄ leaks, do we need to invest in monitoring?)

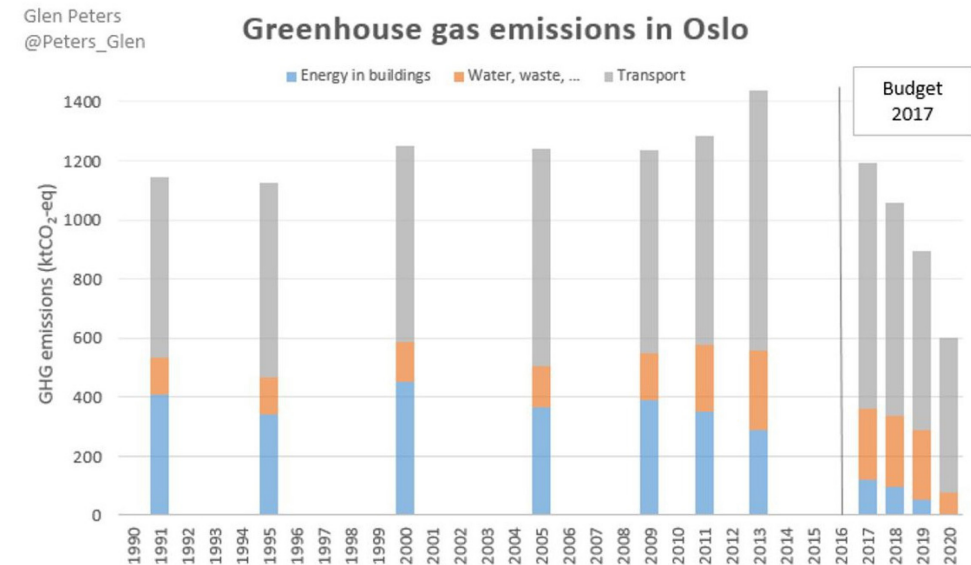




How to bridge the divide?

How recent do you need your inventory data?

Oslo lacked inventory data when it implemented policies (2016)





Time for a discussion...



Thanks for your attention!!!



CoCO2

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With support from:

CO2 Monitoring Task Force

External Expert Group

Inventory Agency Advisory Board

CoCO2 reviewers

REA

Period: January 2021 – December 2023