

## Energy Solution: C-in.City Piloting in: Copenhagen and Greater Paris

### Introduction

C-in.City is the new generation of GHG information system. It's a first of a kind service to monitor and manage all urban emissions (housing, commercial, public institutions, transportation, industries, power production) at 3 actionable scales (city, district, building/street) that helps city managers, citizens, NGOs and businesses to better understand local emissions, take individual and collective action, and implement transparent and science-based impact monitoring. C-in.City bridges the time gap and adds a geographical component by bringing together the forefront of research on emissions monitoring and the widest panel of datasets available thanks to AI in one tool.

The AI deployed is used for two main purposes: extracting activity signals from AOIs (Areas Of Interests) and inferring CO<sub>2</sub> emissions from these signals. In short, it means that C-in.City has developed geo-AI techniques that translate these signals (GPS, geolocation, optical or infrared satellite imageries, ADS-B, etc.) into actionable granular insights such as traffic flow, instant speeds, insulation performance assessment or thermal plant activity patterns. These feed the whole city decision life cycle: from awareness (Carbon Budget Tracker) to investment targeting (Explore & target) to impact assessment (What-if Simulation).

### C-in.City & AI4Cities

C-in.City has found AI4Cities three-phased PCP process to be a rich and challenging journey. Comparing the current solution in Phase 3 with the initial concept, it is clear that the AI4Cities programme, with its user-centric approach enrolling engaged cities, has greatly contributed to streamline the service design and to pave the way to the broader European city market. The big challenge was to address at the same time the user expectations and the service design with the city departments, and to develop and test the AI-based algorithms to answer to the expressed needs.

### Consortium

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# AI4CITIES



## ABOUT AI4Cities

The AI4Cities project is using AI to make Europe's cities more sustainable. Helsinki, Amsterdam, Copenhagen, Greater Paris, Stavanger and Tallinn are going through a Pre-Commercial Procurement (PCP) to find solutions to make their mobility and energy domains more carbon neutral.

## CONTACT

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