

Green and Healthy Streets (GHS) Declaration

Cristina Miclea

Zero Emission Freight Manager



Cities are responding to the climate emergency. 35 Mayors have now signed the Green and Healthy Streets Declaration.

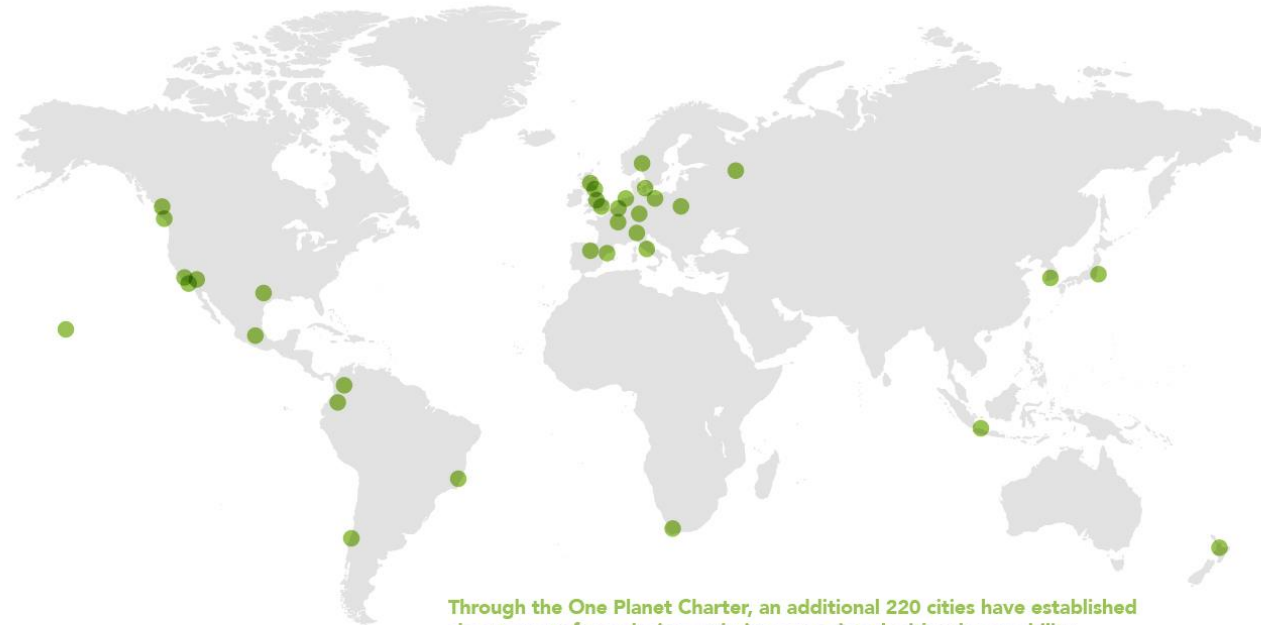
- The signatory cities commit to:
 - Procure with our partners **only zero emission buses from 2025**
 - Ensure a **major area of our city is zero emission by 2030**
- The signatory cities demonstrate **city ambition** to tackle climate change and air pollution urgently and concretely in the transport sector, in line with the Paris Agreement
- In addition, it sends a clear **market signal** to private sector for zero-emission mobility options and services



35 cities have now signed the GHS Declaration

CITIES SIGNING THE GREEN AND HEALTHY STREETS DECLARATION

- | | |
|--------------------|----------------|
| Amsterdam | Milan |
| Auckland | Moscow |
| Austin | Oslo |
| Barcelona | Oxford |
| Berlin | Paris |
| Birmingham | Quito |
| Cape Town | Rio de Janeiro |
| Copenhagen | Rome |
| Greater Manchester | Rotterdam |
| Heidelberg | Santa Monica |
| Honolulu | Santiago |
| Jakarta | Seattle |
| Liverpool | Seoul |
| London | Tokyo |
| Los Angeles | Vancouver |
| Madrid | Warsaw |
| Medellin | West Hollywood |
| Mexico City | |



GHS City Highlights - London, Moscow, Santiago

Vying to be the leader on zero emission buses outside of China – all have over 250 zero emission buses on the road



WHAT IS A ZERO EMISSION AREA? WHAT ARE THE IMPLICATIONS FOR FREIGHT?

Dense, mixed use neighborhood with transit oriented development

Transit connectivity

Fewer overall vehicles & zero emission

Walking & cycling prioritized

Shared mobility options

EV charging infrastructure

Freight deliveries are efficient & zero emission

Air Quality is within legal limits

People are healthy and active

People working/playing/socializing/ living

Vibrant with goods and services

The area is equitable (some housing is affordable and accessible)

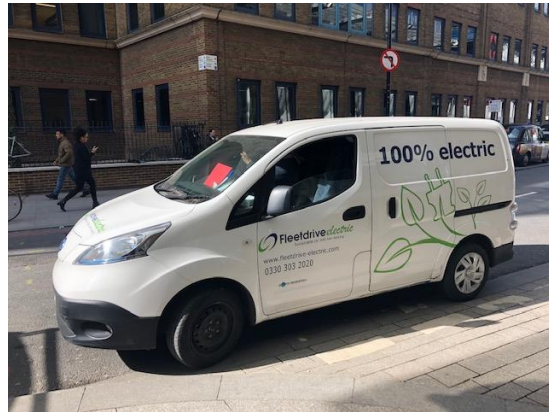
Anti flooding measures

Cool cities infrastructure to combat the urban heat island effect

Increased green space

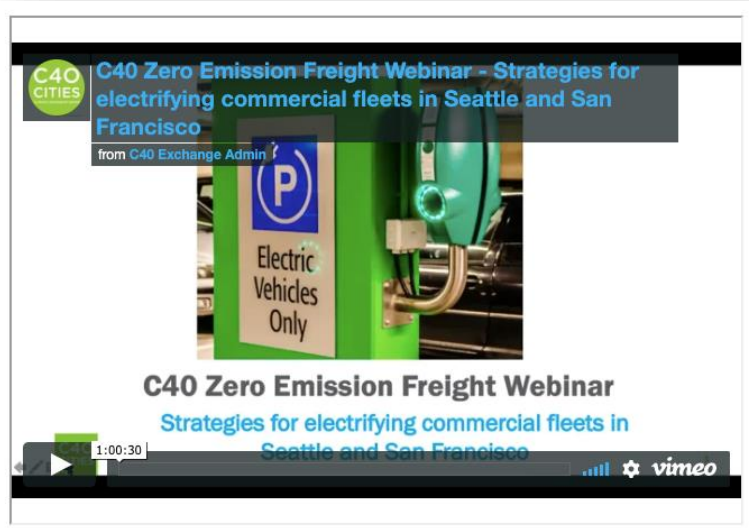


Zero Emission Freight Programme for GHS Cities



- Freight has consistently been identified as a key barrier in implementing zero emission areas in GHS signatory cities.
- ZEF programme provides a platform for GHS signatory cities (35) to advance their zero emission area planning by working with other cities, policy and industry experts to identify solutions for freight:
 - Accelerate commercial uptake of new and second hand zero emission freight vehicles (ZEFVs) and effective deployment of charging infrastructure
 - Shift to zero emission solutions for last mile deliveries (e.g. electric cargo bikes)
 - Reduce the overall number of freight vehicles on the road and the total miles travelled

City support: Resources



Zero Emission Freight Webinar Series

- Peer-to-peer learning opportunities designed for GHS signatories seeking to understand how road freight and commercial vehicles sit within cities' ZEAs



Zero Emission Freight Newsletter

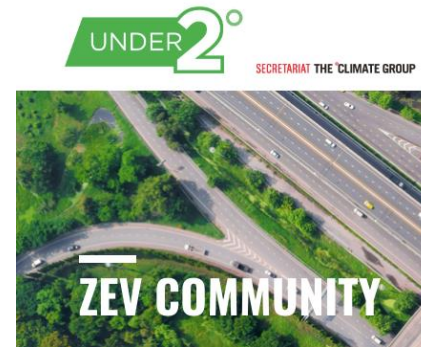
- Includes content such as:
 - C40 webinar updates
 - City shout-outs highlighting best practice
 - Match-making for cities tackling similar issues
 - External news and reports
 - Industry updates



Coming Soon: Freight Case Studies

- Detail how different cities are addressing freight challenges
 - London
 - Rotterdam
 - Seattle
 - Paris
 - Others

City support: Partnerships and Research



City support: Zero Emission Freight Academy

Help cities advance their zero emission area plans and accelerate the deployment and uptake of zero emission freight vehicles

Key topics

- Accommodating freight within zero emission areas - pilots and sectoral opportunities
- Accelerating deployment and uptake of zero emission freight vehicles
- Deploying charging infrastructure effectively
- Engaging businesses and forming effective coalitions



1ST ZERO EMISSION FREIGHT ACADEMY

10 CITIES FROM 3 C40 REGIONS

VANCOUVER – HOST
AMSTERDAM
BARCELONA
LONDON
LOS ANGELES
OSLO
PARIS
RIO DE JANEIRO,
SAN FRANCISCO
SEATTLE

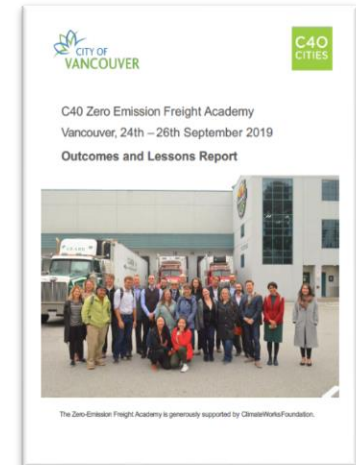
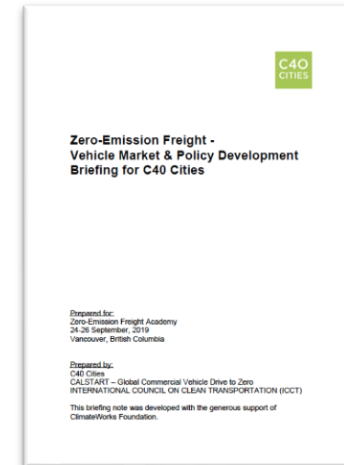
9 EXPERTS & PARTNER ORGANISATIONS

ICCT
CALSTART
ROCKY MOUNTAIN INST.
URBAN FREIGHT LAB
SMART FREIGHT CENTRE
CANADA POST
USDN
TRANSLINK
ICLEI/BUYZET

City support: Zero Emission Freight Academy Year II

Further exchanges on:

- Zero emission area planning for freight and freight pilots
- ZEFV deployment and uptake:
 - Effective policies and incentives for accelerating the uptake of ZEFVs
 - Engaging and pushing manufacturers to accelerate ZEFV deployment
- Charging infrastructure: working proactively with electric utilities, discussing city needs for freight electrification and identifying best practices



C40 & TDA - Zero Emission Zones for Freight How To Guide

The screenshot shows the top navigation bar of the C40 Knowledge Hub. On the left is the C40 KNOWLEDGE logo. In the center is a search bar with the text "Search the Knowledge Hub". To the right of the search bar are two dropdown menus labeled "Knowledge" and "Forums". Further right is a "LOGIN / SIGN UP" link. Below the navigation bar is a large hero image of a city skyline at sunset. Overlaid on the image is the text "The C40 Knowledge Hub" and "Cutting-edge insights and practical resources from leading climate cities." A "LOGIN / SIGN UP" button is also present on the hero image.

This screenshot shows a video player interface. The video title is "Zero Emission Freight Webinar: Zero Emission Zones for Freight - Lessons from the Netherlands". The video is dated "4 February 2020". The video player includes a play button, a progress bar showing 1:02:54, and a settings icon. A thumbnail image of a port with a large ship is visible on the left side of the video player.

This screenshot shows a video player interface. The video title is "Zero Emission Zones for Freight - Transitioning to zero emission zones and zero emission freight in London". The video is dated "1:01:07". The video player includes a play button, a progress bar showing 1:01:07, and a settings icon. A thumbnail image of a city skyline with a river is visible on the left side of the video player.

From Low Emission Zones to Zero Emission Zones



Low/Zero Emission Zones

- Existing LEZ
- Existing LEZ + ZEZ commitment
- ⊙ ZEZ commitment
- More than 15 existing LEZs
- 5-15 existing LEZs
- Less than 5 existing LEZs
- ▨ ZEZ commitment

Note: All ZEZ cities are labeled. ~75 of the major LEZ cities mapped. Of the 300 cities with LEZs, 200 of the smaller ones in Germany and Italy are not mapped and rather shown through the dark country colors.

Map created by Hovland Consulting
Funded by the ClimateWorks Foundation

ZEZs already having an impact & set to become new norm

Zero-emission vehicles 2020



Main drivers in 2020

Public procurement
Zero-emission zones

- BEV buses
- Hybrid trucks
- Prototypes E-highway, Fuel cell

Several certification discussions (safety, endurance brakes, emission certificates)

2

Source: Scania presentation at ITF Workshop:

<https://www.itf-oecd.org/mapping-standards-low-and-zero-emission-electric-heavy-duty-vehicle-expert-workshop>



Ikea Sets Goal for Zero Emissions Delivery in 5 Cities by 2020

RETAIL • IKEA

By Emma Hinchliffe September 16, 2018



“By switching to EVs for home deliveries at this pace, IKEA is setting a strong example for clean transport in city centers, where zero emissions zones will one day become the norm. They are enabling their customers to play a key part in accelerating the roll out of electric vehicles overall”.

Source: <https://fortune.com/2018/09/16/ikea-zero-emissions-delivery-2020/>

Partnerships with the private sector are critical – a high level of ambition has resulted in a deeper level of engagement with the private sector in cities like Amsterdam, London, Oslo, Paris, Rotterdam.

C40
CITIES