Zero Emission Urban Freight

Community of Interest Workplan

November 2019

TRANSPORT DECARBONISATION ALLIANCE
Mission Statement

Urban freight matters

Cities are at the core of human life. Increasing urbanisation and high population growth, in combination with complex demand patterns, create continuous pressure on urban areas around the world. Although the topic is often overlooked, it is at the heart of numerous urban challenges, such as traffic safety, congestion, air pollution, noise and contribution to CO2 emissions. A realistic and impactful objective is to start by addressing freight-related challenges, with a focus on zero air pollution and significantly contributing to the greenhouse gas (GHG) goals set in the Paris Agreement. It calls for the development of alternative ways to deal with this topic and resolve to widely implement sustainable solutions.

Challenges identified

Transforming urban freight to zero emission faces several challenges: 
- Structural: high operational complexity in an urban context, high fragmentation of the freight sector and low margins 
- Ownership: the responsibilities of Countries, Cities/Regions and Companies (the “3Cs”) are often unclear with regard to who should take the lead in “cleaning” transport, combined with a reluctance to share data 
- Economical/technical: a lack of economically viable solutions and zero emission freight vehicles on the market; a lack of economic incentives to upgrade fleets and change to other green logistics solutions, such as rail, electric cargo bikes and autonomous vehicles

This Community of Interest aims to tackle those challenges that need cooperation from the 3Cs, through a collaborative rather than an individual approach.

Cooperation is key

Further cooperation between the 3Cs is required to transform urban freight. Not only is there a need for sustainable technical solutions (electric vehicles, shift to urban rail, boat, cargo bikes, etc.) but also for stakeholders to cooperate, creating new urban freight rules and business models for the sector. This might include sharing data to create transparency, enabling green decision-making and stimulating innovation. Solutions will always have to be tailored to individual urban areas and supply chains, but there are some common denominators.

To address this problem, countries, cities & companies have come together in a Community of Interest.
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Active members

The CoI physical meeting in Rotterdam, October 17th 2019
TDA is about action. The Cols are working groups where members can benefit from exchanging knowledge on best practices on transport decarbonisation, and the common challenges, bottlenecks and solutions to overcome such obstacles in implementation. Topics of the Cols are selected by TDA members.

Community of Interest on Urban Freight

The first and longest running Col of the TDA is on Urban Freight. It was launched in November 2018 and is led by Sita Holtslag from the Netherlands Enterprise Agency, supported by the Government of the Netherlands.

The general goal of the TDA, and therefore of the Col, is to accelerate decarbonization. The goal of this Col is to “reach zero emission urban freight by uniting countries, cities/regions and companies”. There are already a lot of networks, conferences, reports available on the topic, hence the need for the Col to add value through the unique involvement of frontrunners from the 3Cs and through a focus on practical and concrete results which makes use of the information and partnerships available. As a result, the Col has three main objectives:

1. **Share information**: Actively share information and lessons learnt between the members of the 3Cs to optimize the learning curve and contribute to the speed of decarbonization on Urban Freight worldwide, both for inter- and intra-country exchanges.

2. **Tangible action**: Create an active community of the 3Cs to support its members’ tangible actions in the short term with concrete steps towards decarbonization of Urban Freight.

3. **Effective promotion**: Contribute actively to the promotion and dissemination of the outcome and lessons learned of the Urban Freight Col, so as to become a visible and influential contributor to the long term decarbonization on Urban Freight worldwide, and to influence decision-makers in their agenda.
Achievements

Since November 2018, this CoI has made significant progress. With 6 new members since it started, over 21 conference calls, 4 physical meetings, 1 urban freight field visit by bike, 1 webinar and growing partnerships with other organizations, the CoI has been able to give birth to several products.

The White Paper on Zero Emission Urban Freight

Launched at the International Transport Forum in May 2019, the whitepaper aims at providing a common vision and showcases over 55 solutions for the 3Cs on the topic of zero emission urban freight. It introduces a transformation methodology to help Countries, Cities/Regions and Companies achieve local strategies for urban freight decarbonisation and shows the major challenges and existing solutions to overcome them, such as the structure of the urban logistics sector, the ownership issues, and the lack of efficient implemented solutions. Each challenge is fully documented with identified solutions and practical examples of real situations with implemented solutions. As well as proving their feasibility, this provides a wide array of knowledge and ideas for Countries, Cities/Regions and Companies.

The Call for Zero Emission Freight Vehicles

In May 2019 the CoI also launched an open Call to vehicle manufacturers to produce more zero emission freight vehicles, which has already been signed by over 70 organisations with aggregate demand for over 170,000 freight vehicles. The Call has also become a key part of the transport sectors contribution to the UNSG Climate Action Summit. the Action towards Climate friendly Transport (ACT) initiative brings together over 100 organisations in a bold commitment to decarbonise transport. It was on the main stage during the UNSG Climate Action Summit, 23 September 2019. Thanks to this Call the TDA is now leading the ACTion group Zero emission freight vehicles (ZEFV) providing a strong demand signal and a global commercialization strategy.

Spin-off city projects

Within the CoI new city projects have been born. Being in an active community of front runners and actively discussing challenges and opportunities seems to lead to inspiration for action. Some of the spin off projects until now include:

- Zero Emissions Last Mile Delivery in Portugal: a co-created project with the members Matosinhos, Porto, DPDHL, CEIIA
- Zero Emission Zone modelling system and data sharing in Rotterdam: a co-created project with the members Rotterdam, WBCSD, DPDHL.
- Rotterdam: considered Pilot project on ZE deliveries with Tevva trucks
Workplan

For 2020 the CoI aims to work on the following concrete results, all including the unique involvement of frontrunners of Countries, Cities/regions, Companies and partner organizations and which can be adapted during the year depending on what is needed most in the sector and on what opportunities arise. The results are categorized in line with the three main objectives: Share information, tangible action, effective promotion.

Share information

Actively share information and lessons learned between the members of the 3Cs to optimize the learning curve and contribute to the speed of decarbonization on Urban Freight worldwide, both for inter- and intra-country exchanges.

**Workplan 2020**

<table>
<thead>
<tr>
<th>Physical meetings</th>
<th>Next: Lisbon, Portugal – Early 2020</th>
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<tbody>
<tr>
<td>Movin’On Lab platform</td>
<td>Sharing Information, Studies, Best Practices, Updates and news</td>
</tr>
<tr>
<td>Tri-weekly calls</td>
<td>Long term planning designed by Sita</td>
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<tr>
<td>WhatsApp Group</td>
<td>Informal and instant communication</td>
</tr>
<tr>
<td>LinkedIn network</td>
<td>To release and share public articles</td>
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<tr>
<td>#TDAMobility</td>
<td>Promote work and good examples with this #</td>
</tr>
<tr>
<td>Webinars</td>
<td>#2 with POLIS, Alice, Tevva and Rotterdam on ZE-Zones</td>
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<tr>
<td>Ecosystem</td>
<td>Connected to Eltis, Alice, Polis, EV100, C40, Transport and Environment, CALSTART see list for updated Ecosystem</td>
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</table>

Tangible action

Create an active community of the 3Cs to support its members’ tangible actions in the short term with concrete steps towards decarbonization of Urban Freight.

<table>
<thead>
<tr>
<th>White Paper</th>
<th>Promote and disseminate</th>
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<tbody>
<tr>
<td>Call to freight vehicles manufacturers</td>
<td>Goal: 500k vehicles Promote – Ongoing</td>
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### White Paper

As a Spin-off of this action, the TDA is leading component 3 of the ACT initiative. The ZEFV ACTion Group a multi-stakeholder group of organizations with an existing track record in clean transport and which have specific and complementary contributions to make to creating a mass-market for ZEFVs. Their communal goal is to create a mass-market for zero-emission freight vehicles (ZEFVs) so that all road freight transport is zero emission by 2050.

The Call for zero emission freight vehicles will be one of the activities used in the overall commercialization strategy.

### ZE-Zone for freight project

The Community of Interest on Urban Freight will focus on the topic of Zero Emission zones for Freight in the next few months. Together with partner organisations such as POLIS and C40 we will work to demystify the topic AND the process of how to reach this goal.

The end result will be a process map on how cities can create a zero-emission zone for freight by:

- Collecting and analyzing existing efforts towards zero emission zones for freight.
- Define skeletal structure of the process map and key parameters that cities should be thinking about how to go about planning zero emission zone.
- Discuss the steps and necessary actions within the conference call of the CoI: planned on 29th Nov, 16th Dec, 10 Jan + a physical meeting in Lisbon in January.
- Define the form of the end result; an article and/or a presentation and/or webpage with contact details from best practices.
- It can inspire pilot projects and other spin-off projects that the CoI will support.

We will present this CoI outcome during in May during ITF in Leipzig, Germany.

The broad TDA membership is invited to join this project in the brainstorm on the process and share best practices.

### Procurement guide for zero emission freight vehicles and services project

Countries, Cities and Companies procure many vehicles AND services. This gives them a lot of influence as a customer. This influence is not always used yet. There are resources about how to use the procurement power available, but these are not always easily found and it is not clear what menu of help is available specifically for Countries, Cities and Companies. This is a new topic raised and it will be decided in the first part of 2020 if/what activities the CoI will engage in regarding this topic.

The CoI aims to make a Why to guide + How to guide.

The process will be as follows:

- Collect and analyse existing products on zero emission freight procurement (both vehicles and services) with a specific focus on
- Share knowledge
- Busting myths
Set up a structure of the end product:
Define the urgency and impact (Why)
Promote and link to (HOW) existing products from partner organisations. For example the BUYZET Handbook (Cities in Europe), Corporate EV Adoption Guide (goev.org) Global companies + India specific deep dive, Smart Freight Centre Guide.
Further disseminate on a global scale or partner with organisations that have expertise in this field.

This project will be started after we finalize the Zero emission zone for freight product.

A topic that has been raised several times in the last year, it will be decided in the first part of 2020 if/what activities the CoI will engage in regarding this topic.

In the current situation there are different standards implemented by different levels of government as to what is a ZE-vehicle. national, regional, city level standards and definitions. Getting commonality of what defines a ze-vehicles helps both the manufactures and the enforcement/cities. This is a new topic raised and it will be decided in the first part of 2020 if/what activities the CoI will engage in regarding this topic.

E.g. stakeholder forums on Urban Logistics. Answering questions like:

What are they;
What are the advantages;
Who should participate;
How to manage/boost and promote it.

This is a new topic raised and it will be decided in the first part of 2020 if/what activities the CoI will engage in regarding this topic.

These projects have started based on the interaction within the CoI. The workplan part of this is to inspire more of these projects in 2020. These projects are independent from TDA but will be tracked so all CoI members can learn from them. Below are some examples of project that have already started.

A project initiated in 2018 with 5 CoI members during the first meeting in Bonn. Active partners in this project are DPDHL, CEiiA, EDP, Porto and Matosinhos.
Zero Emission Zone modelling system and data sharing in Rotterdam

A project initiated in June 2019 during the 3rd meeting in Paris. Active partners in this project are Rotterdam and WBCSD.

Rotterdam: Pilot project on ZE deliveries with Tevva trucks

Feasibility still to be assessed, this came up during the meeting in Rotterdam end of 2019.

Other ongoing projects independent from TDA

Share relevant learning and updates from independent Projects such as those in Rotterdam (Pilot project on new energies) and Lisbon (Check-in/check-out app for loading and unloading bays, Last mile micro hubs, E-commerce, SUMP, Cargo bike project)

Effective promotion

Contribute actively to the promotion and dissemination of the outcome and lessons learned of the Urban Freight CoI, so as to become a visible and influential contributor to the long term decarbonization on Urban Freight worldwide, and possibly even more important to influence decision-makers in their agenda.

<table>
<thead>
<tr>
<th>New members</th>
<th>Ongoing, reach out to new members. All TDA members are invited to join the CoI to work on these mentioned topics or to propose a new topic related to Urban Freight.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main TDA events</td>
<td>Details of the main events TDA/CoI attends: This list can be modified during the course of the year depending on the opportunities that arise.</td>
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<table>
<thead>
<tr>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>CNT Green Freight Initiatives (18-20 Nov 2019) Brazil</td>
<td>Panel speakers, TDA/ CoI is represented by EDP. <a href="https://freteverde.sestsenat.org.br/?lng=en">https://freteverde.sestsenat.org.br/?lng=en</a></td>
</tr>
<tr>
<td>POLIS Annual meeting 27 and 28 November in Brussels</td>
<td>TDA will be promoted by Rotterdam during their presentation <a href="https://www.polisnetwork.eu/2019-annual-polis-conference/">https://www.polisnetwork.eu/2019-annual-polis-conference/</a></td>
</tr>
<tr>
<td>COP 25 Madrid, Spain December 2 to 13 2020</td>
<td>TDA and the CoI will be presented during many events (TDA side event, Transport day etc.) <a href="http://www.ppmc-transport.org/cop25/">http://www.ppmc-transport.org/cop25/</a></td>
</tr>
<tr>
<td>Transportation Research Board Annual Event- 12-16 Jan</td>
<td>TDA/ CoI will be promoted by France/ ifsttar during their presentation. <a href="http://www.trb.org/AnnualMeeting/Program.aspx">http://www.trb.org/AnnualMeeting/Program.aspx</a></td>
</tr>
<tr>
<td>ITF - 27 – 29 May in Leipzig, Germany</td>
<td>TDA Side event- CoI launch of ZE-Zone for freight product by the 3 C’s</td>
</tr>
<tr>
<td>Transport Research Arena 27-30 April Helsinki, Finland</td>
<td>The largest European research and technology conference on transport and mobility. <a href="https://traconference.eu/">https://traconference.eu/</a></td>
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<tr>
<td>EVS33 14-17 June, Portland, USA</td>
<td>Benelux Pavilion. TDA event TBC. <a href="https://evs33portland.org/about/">https://evs33portland.org/about/</a></td>
</tr>
<tr>
<td>Event</td>
<td>Details</td>
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<tr>
<td>Movin’On Summit 2020 Edition – Montreal, Canada - June 3 to 5</td>
<td>TDA event TBC. <a href="https://summit.movinonconnect.com/en/#/">https://summit.movinonconnect.com/en/#/</a></td>
</tr>
<tr>
<td>POLIS Annual meeting NOV</td>
<td>TBC Workshop or presentation TDA/POLIS for example on ze-zones for freight</td>
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