



TRANSPORT
DECARBONISATION
ALLIANCE

Transport Decarbonisation Alliance ANNUAL REPORT 2018



Executive Summary

The 2015 Paris Agreement on Climate Change requires ambitious action in all economic sectors, including transport, and for enhanced co-operation between state and non-state actors to achieve its objectives.

In response to the call for action by the Paris Agreement, the Transport Decarbonisation Alliance (TDA) was established at the Bonn Climate Conference (UNFCCC COP23) in November 2017 by Alstom, Costa Rica, France, ITAIPU, Michelin, the Netherlands, and Portugal, and was included as one of the global commitments made at the One Planet Summit in Paris in December 2017. The TDA was officially launched on 24 May 2018 at the International Transport Forum (ITF) in Leipzig, Germany.

The TDA brings together Countries, Cities/Regions and Companies, to form a 'coalition of the willing' to accelerate the worldwide transformation of the transport sector towards net zero emission mobility systems before 2050.

The TDA builds on the commitments and the stated ambition of Heads of States, Mayors and Chief Executive Officers (CEOs) to decarbonise transport before 2050 by targeting emissions

from all modes of passenger mobility and freight transport. Building on the specific momentum and action generated by the '3Cs' for accelerating transformation of the sector, of the TDA :

- 1 Accelerates and scales up ambition for the transport sector** by outlining a shared vision for front-runners in transport decarbonisation.
- 2 Enables action through joint 'Communities of Interest' (Cols)** that tackle critical drivers and disruptors to low carbon mobility from the perspectives of Countries, Cities/Regions and Companies.
- 3 Provides an advocacy platform to influence political decision-making** in international fora on climate change and sustainable development, as well as in other multilateral and bilateral processes, and gatherings of the private sector and local and regional governments.

During the first year of existence, the TDA set strategic priorities to incorporate the Alliance, advocated for transport decarbonisation at international fora, initiated action through Cols and attracted more members with global impact.

By the end of 2018, the TDA consisted of 20 members:

6

Countries

Costa Rica, Finland, France, Luxembourg, the Netherlands and Portugal

6

Cities/Regions

California, Gaia, Lisbon, Matosinhos, Porto, and Rotterdam

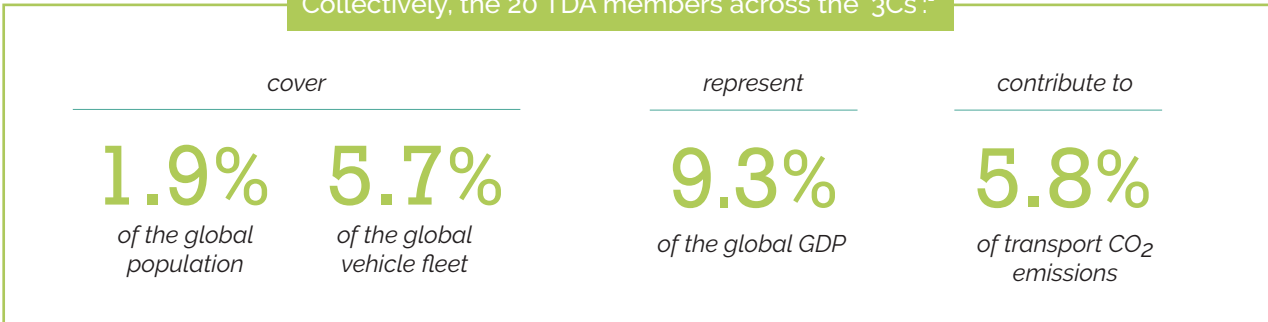
8

Companies

Alstom, Brisa, CEiA, Deutsche Post DHL Group, EDP, Itaipu Binacional, Michelin and PTV Group



Collectively, the 20 TDA members across the '3Cs':¹



During 2018, the TDA launched two Cols, platforms in which members exchange information on best practices on specific aspects of transport decarbonisation.

The Col on Urban Freight was formed in July 2018 and is led by the Netherlands Enterprise Agency, supported by the Government of the Netherlands. A concept note was developed and the first in-person meeting of the Col was held in December 2018 in Bonn, Germany.

Another Col on Fast Track Transport Decarbonisation was launched in August 2018 and is led by Patrick Oliva (Paris Process on Mobility and Climate 'PPMC') with the support of the Portuguese Environmental Fund (Fundo Ambiental). At the 24th UN Framework Convention on Climate Change Conference of Parties (UNFCCC COP24) in Katowice, Poland in December 2018, the Col presented a TDA 'manifesto' on how to reach net zero emission mobility through uniting the 3Cs. This manifesto is intended to serve as a call to action for the 3Cs to join hands and kickstart the decarbonisation of the transport sector.

In 2018, the TDA participated in a number of key international events and processes as to raise the profile of transport decarbonisation, introduce the alliance and showcase the commitment of TDA members. These key events included the International Transport Forum ITF, UNFCCC Talanoa Dialogues, Movin' On Summit, Asia-Pacific Climate Week, Global Climate Action Summit, Lisbon Mobi Summit, and COP24. In addition, the TDA is actively promoting its activities and those of its members through its website and social media networks.

This report is the First Annual Report of the TDA and it presents an overview of the establishment, advocacy, outreach, and coalition-building activities undertaken by the alliance in 2018.

The report was developed by the TDA Secretariat, which is hosted by the Partnership on Sustainable, Low Carbon Transport (SLoCaT) and the TDA Steering Committee members, including Portugal (Chair), Michelin (Vice-Chair), France, The Netherlands, Rotterdam, Lisbon, Alstom and PTV Group, as well as PPMC.

1. SLoCaT calculations based on World Bank, EDGAR 4.3.2 and OICA.

List of abbreviations

3Cs	Countries, Cities/Regions and Companies	ITF	International Transport Forum
CEO	Chief Executive Officer	PPMC	Paris Process on Mobility and Climates
CoI	Communities of Interest	SLoCaT	Partnership on Sustainable, Low Carbon Transport
COP	Conference of the Parties to the United Nations Framework Convention on Climate Change	SuM4ALL	Sustainable Mobility for All
COP23	Bonn Climate Conference 2017	TDA	Transport Decarbonisation Alliance
GCAS	Global Climate Action Summit	UN	United Nations
		UNFCCC	United Nations Framework Convention on Climate Change



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Background

The 2015 Paris Agreement on Climate Change requires ambitious action in all economic sectors, including transport, and for enhanced co-operation between state and non-state actors to achieve its objectives.

In response to the call for action by the Paris Agreement, the Transport Decarbonisation Alliance (TDA) was established at 23rd Conference of the Parties (COP23) of the United Nations Framework Convention on Climate Change (UNFCCC) in November 2017 and was included as one of the global commitments made at the One Planet Summit in Paris in December 2017. The TDA was officially launched on 24 May 2018 at the International Transport Forum (ITF) in Leipzig, Germany.

The TDA brings together Countries, Cities/Regions and Companies (the 3Cs) to form a 'coalition of the willing' to accelerate the worldwide transformation of the transport sector towards net zero emission mobility systems before 2050. These 3Cs - as major drivers toward sustainable, low carbon mobility - are intrinsic to the action-oriented nature of the TDA. The TDA seeks to become the most visible and influential forum for public and private cooperation and to be the game changer that will ensure the transport sector's contribution to the objectives of the Paris Agreement.

The TDA builds on the commitments and the stated ambition of Heads of States, Mayors and Chief Executive Officers (CEOs) to decarbonise transport before 2050 by targeting emissions from all modes of passenger mobility and freight transport, including land, aviation and maritime transport. Building on the specific momentum and action generated by the '3Cs' for accelerating transformation of the sector, the value of the TDA includes:

- 1 Substantiated, scaled-up ambition for the transport sector: designing a shared vision for 'front-runners'** to decarbonise transport by crafting a realistic 'fast track' pathway towards an accelerated transformation. This implies identifying the building blocks, the technical, policy and financial bottlenecks, as well as the required policy and investment frameworks.
- 2 Tangible action: setting up '3Cs Communities of Interest'** in order to facilitate action by members on specific topics, by sharing experiences and best practices, identifying actionable solutions and working together on innovative pilot projects.
- 3 Effective advocacy: influencing political decision makers** in key international fora on climate change and sustainable development (e.g. UNFCCC, High-Level Political Forum); political processes (e.g. European Union, G7, G20, B20) and transport policy making organisations and initiatives (e.g. ITF, Sustainable Mobility for All; as well as **demonstrating, on the basis of concrete examples and solutions**, that decarbonisation is technically feasible, economically attractive, and brings broad social and environmental benefits.

Development of the TDA

Initial establishment at UNFCCC COP23 in Bonn, Germany

The TDA was initially established at COP23 on 11 November 2017 by Costa Rica, France, the Netherlands, Portugal and together with Alstom, Itaipu Binacional, and Michelin. Elisabeth Borne, Minister of Transport of France, and José Mendes, First Secretary of State for Mobility of Portugal, and Marcel Beukeboom, the Climate Envoy of the Netherlands, launched a call to action and advocated for the establishment of the TDA.



Figure 1. TDA members at the initial establishment event at UNFCCC COP23 in November 2017
(Photo credits: SLoCaT)

TDA at the One Planet Summit 2017 in Paris, France

On 12 December 2017, the One Planet Summit, convened by the United Nations (UN) and the World Bank at the initiative of the French Government, brought together over 60 world leaders to underscore how financial flows are shifting billions and trillions towards a low carbon future that will benefit people and livelihoods.²

The President of the Republic of France, Emmanuel Macron, fully included the TDA in the One Planet Summit Commitment No.7: Zero pollution transport by 2050. The summit concluded that decarbonisation of all modes of transport by 2050 is in line with the well below 2°C target set by the 2015 Paris Agreement on Climate Change. Reaching the target in the transport sector is possible but will require action now to enable a comprehensive transformation of this key sector in the decades to come.

2. United Nations Framework Convention on Climate Change. 2017. One Planet Summit: Finance Commitments Fire-Up Higher Momentum for Paris Climate Change Agreement - <https://unfccc.int/news/one-planet-summit-finance-commitments-fire-up-higher-momentum-for-paris-climate-change-agreement>

First TDA Working Meeting in Porto, Portugal

A TDA working meeting was hosted by CEiiA and the Porto Atlantic Front Cities on 27-28 February 2018 in Porto, Portugal to discuss the strategic direction, governance, and initial workprogram of the TDA. The outcomes of the meeting were recorded in a TDA concept note, draft budget, governance paper and work plan. The meeting welcomed more than 50 participants representing 6 countries, 6 cities, 12 companies and 7 organisations. The meeting was successful in building a common understanding of the TDA and developing consensus on the value added of the TDA.



Figure 2. Participants at the first TDA Working Meeting in Porto, Portugal (Photo Credits: SLoCaT)

During the Porto meeting, a number of important decisions were agreed regarding the governance and structure of the TDA for 2018, including:³

- An Interim Steering Committee of seven members was established to serve until the end of 2018. José Mendes, First Secretary of State for Mobility of Portugal, was appointed as the Chair of the Interim Steering Committee.
- The Secretariat of the SLoCaT Partnership was appointed to serve as Interim Secretariat of the TDA until the end of 2018.

TDA Membership criteria were agreed and an annual membership fee of Euro 10,000 was established as a prerequisite to join the TDA.

After the Porto meeting, a number of countries, cities, and companies have joined the TDA, including Finland, Luxembourg, Lisbon, the Porto Atlantic Front (Gaia, Matosinhos, and Porto), Rotterdam, CEiiA, and PVT Group.

Official launch at the ITF Summit in Leipzig, Germany



Figure 3. Speakers and TDA members at the official launch at the ITF summit in Leipzig, Germany (Photo credits: ITF)

³ The full list of agreements and details of the discussions at the first TDA Working Meeting in Porto are presented in the Porto Outcome Document.

The TDA was officially launched on 24 May 2018 at the ITF Summit in Leipzig, Germany. The launch featured a number of key speakers, including Manuel Pulgar Vidal, Host and Chair of UNFCCC COP20 and former Peruvian Minister; José Mendes, TDA Chair and First Secretary of State for Mobility of Portugal; Willem Sulsters, Director for Sustainability and City Development of Rotterdam; and Nicolas Beaumont, Senior Vice President for Sustainable Development and Mobility of Michelin. A panel discussion was moderated by Holger Dalkmann, Interim Secretary General of the SLoCaT Partnership, to discuss the role of the TDA in accelerating transport decarbonisation before 2050.



Figure 4. António Guterres, UN Secretary-General, expressing his support of the TDA

The official launch also featured a video message by UN Secretary-General António Guterres, who applauded the creation of the TDA and indicated that it was 'welcome news' for climate action. He emphasised that transport is 'an important part of the solution' for climate change and that national governments alone cannot achieve the goals of the Paris Agreement – cities, companies and citizens need to play their roles to meet the goals collectively.

A webinar was organised by the TDA Secretariat on 28 June 2018 to update members and supporters on the TDA launch in Leipzig, TDA representation at the Movin' On Summit, and outreach strategy to recruit to new members. Individuals representing 12 TDA members and supporting organisations joined the webinar. The webinar also presented opportunities in which members and supporters can be more actively engaged in the TDA and provided a channel for participants to make suggestions and contribute ideas to enhance the activities of the alliance.

TDA Annual Meeting 2018 in Rotterdam, The Netherlands

The First TDA Annual Meeting was hosted by the City of Rotterdam, with the support of the Ministry of Infrastructure and Water Management of the Netherlands, on 15-16 November 2018. The meeting provided an opportunity for TDA members to assess the activities and achievements accomplished over the first months of life of the TDA, as well as to strategically review the opportunities ahead in 2019 for increasing impact and maximising collaboration among members and with supporting entities.

Organisation and Governance Structure

In October 2018, the TDA Steering Committee recommended to appoint the SLoCaT Secretariat to continue serving as the TDA Secretariat in 2019. It also recommended to extend the term of the Interim Steering Committee until June 2019. The recommendation was ratified and approved at the Annual Meeting in November 2018.

As of December 2018, the TDA Steering Committee has been chaired by José Mendes, First Secretary of State for Mobility of Portugal. Members of the TDA Steering Committee include:

- **José Mendes**, First Secretary of State for Mobility, Portugal (Chair)
- **Jean-Dominique Senard**, CEO, Michelin (Vice-Chair)
- **Elisabeth Borne**, Minister for Transport, France
- **Stientje van Veldhoven**, State Secretary for Infrastructure and Water Management, the Netherlands
- **Ahmed Aboutaleb**, Mayor, Rotterdam
- **Miguel Feliciano Gaspar**, Councilman of the City of Lisbon
- **Henri Poupart-Lafarge**, CEO, Alstom
- **Vincent Kobesen**, CEO, PTV Group
- **Patrick Oliva**, Co-founder, Paris Process on Mobility and Climate (PPMC)
- **Maruxa Cardama**, Secretary-General, SLoCaT Partnership

The Secretariat handles the day-to-day operations of the TDA including: supporting the strategic development of the TDA, providing services to TDA Members, supporting the governance mechanisms, financial management and coordination of communication and outreach activities.

A TDA Work Plan for 2018 was developed to lay out the detailed objectives, ambitions, priorities and activities of the TDA. It consisted of a menu of action, which described the mechanism for TDA Members to agree on their engagement in a number of prioritised TDA Working Groups. The working groups are Communities of Interest (Cols) where members can benefit from exchanging knowledge, information on best practices on transport decarbonisation, common challenges, bottlenecks and solutions to overcome such obstacles in implementation.

The Work Plan 2018 lays out the 3As dynamic approach:

- Enhancing **Ambition** (number of entities joining + greater effort of emissions reduction);
- **Advocacy** (promotion of the necessity and the feasibility of transport decarbonisation-leading by action and example);
- **Acceleration** (speeding up the transformation of the sector from the second highest emitting sector to a net zero emissions sector).

The TDA Secretariat worked with the Steering Committee to develop the Briefing Paper and Concept Note which outline the objectives of the alliance and its critical role in transport decarbonisation.

TDA Members and Engagement Activities



Figure 5. Overview of TDA members



Collectively, the 20 TDA members across the '3Cs' cover 1.9% of the global population, representing 9.1% of GDP of the world, contributing to 5.8% of transport CO₂ emission and covering 5.7% of the global vehicle fleet.

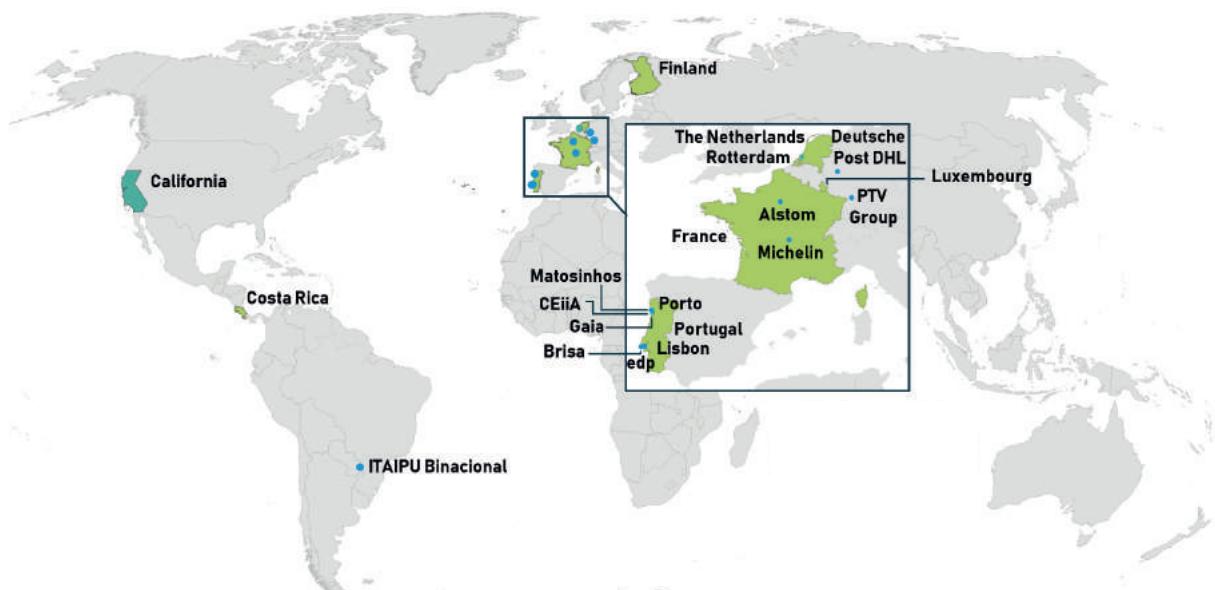


Figure 6. Map of TDA members

TDA members have signed the TDA Charter and committed to:

- Make a public commitment to accelerate action to decarbonise transport to meet a 'net zero emissions' sector as soon as possible;
- Share regular up-to-date information about their objectives, actions, progress and experiences in decarbonising transport;
- Promote strategic direction, action guidelines and tools provided by the TDA ecosystem;
- Contribute actively to the promotion of the TDA objectives (as TDA Ambassadors).

Overview of TDA Members (as of December 2018)

Costa Rica	Costa Rica's President Carlos Alvarado Quesada announced a plan in May 2018 to end the use of fossil fuels in transport by 2050. Costa Rica's Nationally Determined Contribution included plans to increase electric mobility for both public and private transport, develop an integrated public transport system, strengthen train services and availability of non-motorised transport.
Finland	Finland has set a target to halve transport emissions by 2030 compared to 2005 levels. It aims to achieve carbon neutrality by 2045 and has set a target to increase the share of biofuel energy in all fuels sold for road transport to 30 % by 2030. It also set a goal that 10 % of the total car fleet will consist of electric vehicles by 2030.
France	France aims to achieve carbon neutrality by 2050 and has set a goal to end the sales of GHG-emitting passenger cars in 2040. France has set green ambitious targets for developing urban public transport, introducing low emission zones in French cities and installing 7 million charging points for electric vehicles by 2030.
Luxembourg	Luxembourg is preparing a climate change policy that addresses the transition to a climate neutral transport sector. A new mobility strategy (MoDu2) was adopted in May 2018 and it sets a number of short-term targets for 2025, such as increasing average occupancy rate in private cars from 1,2 up to 1,5 passengers during the peak hours, higher modal splits for public transport and active mobility.
The Netherlands	The Netherlands has set a target to reduce 6,9 Mton of GHG emission by 2030 in the transport sector. It also set goal to have all new sales in 2030 to be zero emission vehicles. Its Car Sharing Green Deal aims to have 100,000 shared cars in 2018.
Portugal	Portugal has set a goal for the transport sector to reduce GHG emission by 14% by 2020 and 26% by 2030 (both 2005 baseline). It also aims to reduce conventional vehicles in cities by 50% by 2030. The government has been introducing low (and zero) emission vehicles for public transport fleets and have contributed to the development of MOBI.E – a nationwide program on charging network and interface system.
California	California has set a goal to have 1,5 million zero emission vehicles by 2025 and 5 million by 2030. The state is building America's first 100% electric high-speed rail system, linking major metro areas powered 100% by renewable energy. It has further directed over \$10 billion in cap-and-trade and funding for clean transport and sustainable communities since 2013.
Lisbon	Lisbon aims to reduce the modal share of private vehicles significantly by restricting private car use, expanding public transport and promoting active modes and mobility services. It also set goals to introduce a zero-emission urban bus fleet by 2040, build 200km of cycling infrastructure by 2021, design new urban logistics regulation by 2018, install 25 fast public EV chargers by 2018 and develop an Integrated Operation Centre and a Mobility Operational Control Centre.

Porto Atlantic Front	The Porto Atlantic Front is a regional alliance of three Portuguese cities: Gaia, Matosinhos, and Porto. Gaia is replacing old vehicles with cleaner ones to prepare for the future orientation on mobility and accelerate the sector's transition to a low carbon pathway. Matosinhos is emphasising the expansion of efficient and electric vehicles, fleet renovation, transport network improvement, and soft mobility to achieve its target to reduce CO ₂ emission by 21% by 2020. Porto is promoting public transport, intermobility options, cycling and walking to achieve the 45% CO ₂ emission reduction target of its Sustainable Energy Action Plan.
Rotterdam	The City of Rotterdam has set a target to reduce CO ₂ emission by 50% in the transport sector by 2030 (1990 baseline). The government plans to introduce 200 electric buses by 2030 and double the amount of charging points to more than 4000 by 2022. It will continue to introduce low (and zero) emission vehicles for municipal fleets and encourage the development of zero emission delivery and electric car sharing.
Alstom	The company has set targets to reduce 10% carbon footprint intensity by 2020 (2014 baseline) and reduce energy consumption of solutions by 20% by 2020 (2014 baseline). It has developed a methodology assessment tool on down-stream emissions from Alstom's product/solutions.
Brisa	Brisa Auto-Estradas de Portugal is the largest private transport infrastructure company in Portugal and operates over 1600 km of roads. It has the goal to achieve a 50% reduction of fleet related CO ₂ emissions by 2025 (compared to 2009 levels) and to have a 50% increase of CO ₂ efficiency by 2025 (compared to 2007 levels).
CEiiA	CEiiA is a Centre of Engineering and Product Development that designs, implements and operates innovative products and systems. It is promoting internal initiatives related with sharing and zero emission vehicles and also integrated mobility solutions, including EV charging, car/ bike/ scooter-sharing, bus and public transport, taxi and transport on demand, urban logistics, traffic, parking, and fleet monitoring.
Deutsche Post DHL Group	Deutsche Post DHL Group was the first major logistics company to make a voluntary commitment in 2008 to improving carbon efficiency by 30% over the 2007 baseline by the year 2020 (the goal was already achieved in 2016). The company announced a new climate protection target in 2017 to reduce all logistic-related emissions to zero by the year 2050.
EDP	EDP – Energias de Portugal ranks among Europe's major electricity operators, as well as being one of Portugal's largest business groups. The company has set targets to reduce specific emissions of GHG by 75% by 2030 (2005 levels) and exceed 75% renewable installed capacity by 2020. It also aims to reach 100% of electric light vehicles in its fleet by 2030 (estimated CO ₂ emissions reduction of 70%).
ITAIPU	Itaipu Binacional is the world's largest generator of renewable clean energy. It plans to reduce 50% of its CO ₂ emissions by the end of 2020 and introduce viable sources of energy for the fleet: electricity generated by the hydroelectric plant itself; biomethane generated from organic matter available in the company's territories; ethanol for sale at filling stations in the company's territories.
Michelin	Michelin is a French tyre manufacturer based in France. It is the second largest tyre manufacturer in the world. The company has set targets to reduce carbon footprint of each tyres by 20% between 2010 and 2030 and reduce production-related GHG emissions by 50% by 2050 compared to 2010 level.
PTV Group	PTV Planung Transport Verkehr AG is a German company specialising in software solutions and consulting services for traffic and transportation, mobility, and logistics. The company has developed software for mobility evaluation which enables the visualization of emissions based on emissions and noise impacts.

TDA Member Updates

Since April 2018, the TDA Secretariat has been issuing updates to TDA members and partners to provide an overview of activities, convey decisions from the Steering Committee, inform members on upcoming events and feature publications on transport, decarbonisation and climate change.

3Cs Communities of Interest

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 Col on Urban Freight was launched in July 2018 and was led by Taco Meijer from the Netherlands Enterprise Agency, supported by the Government of the Netherlands.

Although the topic of urban freight 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. The Col aims to address freight-related challenges, with a focus on zero air pollution and significantly contributing to the GHG goals set in the Paris Agreement.

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.



Figure 7. Participants at the first meeting of the Col on Urban Freight, December 2018
(Photo credits: TDA)

In 2018, this Col has developed a concept note to form a basis for discussions, outlining what urban freight entails, the most relevant aspects, issues, case studies by TDA members, stakeholders and main literature. On 18 December 2018, the Col held its first in-person meeting, hosted by the Deutsche Post DHL Group in Bonn, Germany. The meeting sought to discuss concrete actions on urban freight emissions and share solutions that can accelerate urban freight decarbonisation. The group successfully agreed on a course of action for 2019 and the next steps to deliver concrete outputs, including a Webinar on CO₂ Measurements, a Call for Zero Emission Freight Vehicles, and a white paper on how to reach zero emission urban freight by uniting Countries, Cities/Regions, and Companies

Community of Interest on Fast Track Decarbonisation

The second TDA Col on Fast Track Decarbonisation was launched in August 2018 and was led by Patrick Oliva (PPMC) with the support of the Portuguese Environmental Fund (Fundo Ambiental). TDA members exchanged information on how Countries, Cities/Regions, and Companies can move towards a fast track to transport decarbonisation.

Achieving a resilient 'net-zero-emission economy' by 2050 requires the world to collectively and successfully transform global mobility in a systemic manner over the next decades. With transport emissions set to possibly increase by around 50% between now and 2050,⁴ while they should decrease by over two thirds in a below 2°C scenario, rapid and transformational action is needed, as well as strong coordination.

The Col released the TDA Manifesto on Decarbonising Transport by 2050, a document intended to serve as a call to action for the 3Cs to join hands and kickstart the decarbonisation of the transport sector. The manifesto proposes a framework of feasible solutions and levers to reach net zero emission-mobility by 2050, and showcases best practices that can foster the adoption of the right combinations of solutions through collaborative approaches. The document will be enriched further, progressively, in the months and years to come.

Strengthened collaboration between the 3Cs must rely on more effective, innovative processes

Lever	Indicative GHG impact	Indicative cost	Involvement of the 3Cs		
			Country involvement	City/region involvement	Company involvement
Avoid, reduce or substitute with low impact or unconfirmed GHG impact other benefits	Green	Grey	Blue	Blue	Blue
Shift to radically lower emitting energies	Green	Grey	Blue	Blue	Blue
Shift to radically lower emitting energies	Green	Grey	Blue	Blue	Blue
Shift to radically lower emitting energies	Green	Grey	Blue	Blue	Blue
Shift to radically lower emitting energies	Green	Grey	Blue	Blue	Blue
Shift to radically lower emitting energies	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Improve modal energy efficiency	Green	Grey	Blue	Blue	Blue
Develop adequate physical and IT infrastructure	Green	Grey	Blue	Blue	Blue
Develop adequate physical and IT infrastructure	Green	Grey	Blue	Blue	Blue
Develop adequate physical and IT infrastructure	Green	Grey	Blue	Blue	Blue
Develop adequate physical and IT infrastructure	Green	Grey	Blue	Blue	Blue
Inform decision, comparison, choice and adoption of the need and possibilities of net-zero-emission transport	Green	Grey	Blue	Blue	Blue
Enable to create the build of the net-zero-emission future	Green	Grey	Blue	Blue	Blue
Train current services to adapt to changes in the short-to-medium term	Green	Grey	Blue	Blue	Blue

4. Based on the Reference Technology Scenario of the International Energy Agency: <https://www.iea.org/etp2017/>

Advocacy for Transport Decarbonisation in Key International Events and Processes

In 2018, the TDA participated in a number of key international events and processes to introduce the alliance and showcase the commitment of TDA members in accelerating the worldwide transformation of the transport sector towards a net zero emission mobility system before 2050.

Key International Events and Processes

Talanoa Dialogues, Bonn, Germany - May 2018

TDA Members engaged in the day-long Talanoa Dialogues held on 6 May 2018 during the Bonn Climate Change Conference in Germany. Holger Dalkmann, Interim Secretary General of the SLoCaT Partnership, spoke on behalf of the TDA. Other TDA Members such as Luxembourg and the Netherlands also addressed transport in their interventions.



Figure 8. Participants at the Talanoa Dialogues
(Photo credits: UNFCCC)

Movin' On, Montreal, Canada - May 2018

The TDA organised a press conference at the Movin'On Summit by Michelin on 31 May 2018 to present the objectives and mission of the alliance to stakeholders in the business sector. The video of support by the UN Secretary-General was also presented. In addition, the TDA organised a side event on 'Ambitious visions of transformational change from countries, cities, and companies.' The TDA participation was made possible with the Michelin sponsorship. The event provided opportunities to amplify TDA outreach to the global business community, cities and regions around the world.



Figure 9. TDA members at a press conference at the
Movin'On Summit (Photo credits: SLoCaT)

Asia-Pacific Climate Week, Singapore - July 2018

The TDA contributed to a High-Level Event on Transport in Cities during the Asia-Pacific Climate Week organised by the UNFCCC on 11 July 2018 in Singapore. At the event, the TDA was represented by Eric Grab, Vice President of Strategic Anticipation, Innovation & Sustainable Development of Michelin. In his presentation, Mr. Grab highlighted how TDA members can and should play a vital role in decarbonising the transport sector and contribute to the fight against climate change.



Figure 10. Talya Enriquez Romano, SLoCaT Secretariat, presented at the Asia-Pacific Climate Week 2018

(Photo credits: YOUNGO)

Global Climate Action Summit, San Francisco, USA - September 2018

The TDA organised an event with the Netherlands at the Global Climate Action Summit (GCAS) on 12 September 2018 in San Francisco, United States. Stientje van Veldhoven, State Secretary for Infrastructure and Water Management of the Netherlands presented the objectives, members' activities, and 2018 work program of the TDA. California also announced to become the first North American member of the alliance.

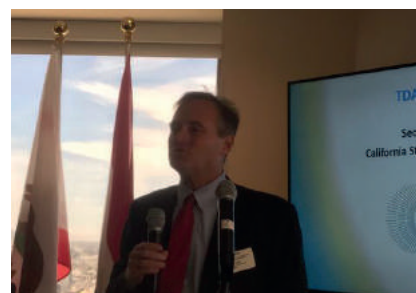


Figure 11. Brian Annis, Secretary, California State Transportation Agency, presented at the GCAS event

(Photo credits: SLoCaT)

Lisbon Mobi Summit, Lisbon, Portugal - September 2018

TDA organised an event at the Lisbon Mobi Summit on 14 September 2018 in which José Mendes, First Secretary of State for Mobility of Portugal and Chair of TDA Steering Committee, and Patrick Oliva, Co-Founder of PPMC, introduced the alliance. Bjoern Hannapel, Head of Go Green, Deutsche Post DHL Group, also spoke at a plenary session on the future of urban logistics.



Figure 12. José Mendes, and Patrick Oliva representing the TDA at the Lisbon Mobi Summit

(Photo Credits: MOBI Summit)

Active engagement at UNFCCC COP24, Katowice, Poland - December 2018

Many TDA Members were active at the UNFCCC COP24 in Katowice, Poland from 2 to 14 December 2018. The TDA contributed to shaping the discussions on low carbon transport through a coordinated series of events and interventions.⁵



Figure 13: José Mendes greets António Guterres at COP24 (Photo credits: Fundo Ambiental, Government of the Republic of Portugal)

TDA Chair José Mendes moderated panel on the Driving Change Together Katowice Electromobility Partnership

The Polish COP24 Presidency made electromobility one of the leading topics of the conference. The Driving Change Together - Katowice Partnership for Electromobility was initiated by Poland and the United Kingdom. Signatories to the agreement have declared their willingness to support the development of the e-mobility sector and the exchange of experience and scientific cooperation at the global and local levels. The Katowice Electromobility Partnership has already been endorsed by 38 countries from 5 continents by the end of 2018.

The TDA endorsed the partnership and José Mendes, First Secretary of State for Mobility of Portugal and Chair of the TDA Steering Committee, moderated the plenary session panel on the partnership with UN Secretary-General António Guterres, Minister Michał Kurtyka (COP24 President and Secretary of State in the Ministry of Environment of Poland), Mateusz Morawiecki (Prime Minister of Poland), Grand Duke Henri of Luxembourg (and a member of the TDA), Alexander Van der Bellen (President of Austria) and H.E. Mr. Regis Immongault (Minister of Foreign Affairs of Gabon). This plenary session pointed out the importance of transport emissions mitigation and introduced the partnership.⁶

5. A list of all the organised events can be found here - <http://tda-mobility.org/tda-cop24/>

6. The recording is available here - <https://unfccc-cop24.streamworld.de/webcast/partnership-for-electromobility-declaration>

Joint Press Conference: European Commissioner for Transport and the TDA

José Mendes, First Secretary of State for Mobility of Portugal, and Violeta Bulc, European Commissioner for Transport, emphasised that all modes of transport should contribute to the decarbonisation of mobility systems at a joint press conference held on 6 December during the Transport Day 2018 at COP24. They underlined that this can only be achieved by working together and engaging different levels of government, as well as businesses and civil society.

The EC's proposal for an EU 2050 climate strategy, 'A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy - puts a strong emphasis on the decarbonisation of transport by mid-century.

TDA Action Hub event

On 7 December, the TDA held an Action Hub event entitled, 'Countries, Cities and Companies working together to decarbonise transport'. José Mendes, First Secretary of State for Mobility of Portugal, discussed with Andrea Meza, Director of the Climate Change Directorate in the Ministry of Environment and Energy of Costa Rica, and Barry Howe, Director of Sustainability at Alstom, on how the TDA works towards the decarbonisation of transport and the benefits Costa Rica and Alstom receive from working with peer countries, cities and companies in this alliance.⁷



Figure 14: Joint European Commission and TDA press conference, Katowice, 6 December 2018 (Photo credits: SLoCaT)



Figure 15. (Left to right) Barry Howe, José Mendes, and Andrea Meza at the Action Hub Event at COP24 (Photo credits: SLoCaT)

⁷ The recording of the event can be accessed here on the UNFCCC website - <https://unfccc-cop24.streamworld.de/webcast/action-hub-morning-session-7th-decembre8>

French Pavilion Event 'Transport Decarbonisation – How to make it happen!'

The TDA Manifesto was presented for the first time by Patrick Oliva, Co-Founder of PPMC during an event organised by the TDA in the French Pavilion on 8 December 2018. The Manifesto was presented along with the Transport Decarbonisation Toolbox developed by the Institute for Sustainable Development and International Relations.

Climate actions by the 3Cs were showcased by Paulina Potemski, Deputy to the Head of Climate and Energy Office and Coordinator for Climate Action for France at the French Ministry for an Ecological and Solidary Transition. Actions in urban transport and a wider corporate perspective were presented respectively by Maruxa Cardama, SLoCaT's Secretary General, and Nicolas Beaumont, Michelin's Vice President for Sustainable Development and Mobility.



*Figure 16. TDA members at the French Pavilion event on 8 December 2018
(Photo credits: SLoCaT)*

Benelux Pavilion Event 'Getting the Transport Sector on the Fast Track'

An event was jointly organised by the Netherlands and Luxembourg in the Benelux Pavilion on 11 December 2018. The event was kicked off by Stientje van Veldhoven, State Secretary for Infrastructure and Water Management, emphasising the need to implement low carbon transport and outlining the measures being rolled out in the Netherlands. TDA members Rotterdam and EDP contributed with the city and corporate perspectives. On behalf of the TDA Secretariat, Maruxa Cardama and Karl Peet from the SLoCaT Secretariat, presented the TDA manifesto and provided an analysis on the status of transport in COP24 negotiations.

Other Advocacy Activities

Open letter to the European Commission

An open letter was sent to the European Commission in July 2018 to convey the TDA's position on the new European CO₂ emission standards for cars and vans. In the letter, the TDA welcomed the 'Clean Mobility Package' proposed by the European Commission in November 2017. As the key legislative proposal is the post-2021 CO₂ emission performance standards for new passenger cars and new light commercial vehicles, the open letter offered a number of recommendations for the decision process on the post-2021 CO₂ emission standards.

TDA Chair in interview with UN News

UN News spoke to José Mendes, First Secretary of State for Mobility of Portugal and Chair of TDA Steering Committee, in which he commented on the COP24 negotiations, highlighted the progress Portugal has made in transport and described how Portuguese-speaking countries can collaborate to reduce transport emissions in order to contribute to the Paris Agreement and keep global warming to below 1.5°C.

In 2018, the TDA Secretariat developed a website for the alliance (www.tda-mobility.org) as an online platform to present the background, objectives and governance structure of the TDA. The website presents individual profiles of each 3C member and shows the latest news and updates on TDA activities.

Outreach and Communication Activities

TDA social media accounts on Facebook, LinkedIn and Twitter were launched at the Annual Meeting in November 2018. In the weeks before COP24, social media pages allowed the Secretariat to introduce the TDA and its members to new audiences. Activities and major achievements were showcased during COP and have reached over 40,000 people. By the end of 2018, the TDA Facebook page had 400 followers, Twitter over 270 followers and LinkedIn 47 followers.



fb.me/TDAmobility



Transport Decarbonisation Alliance



[@TDAmobility](https://twitter.com/TDAmobility)

The Way Forward

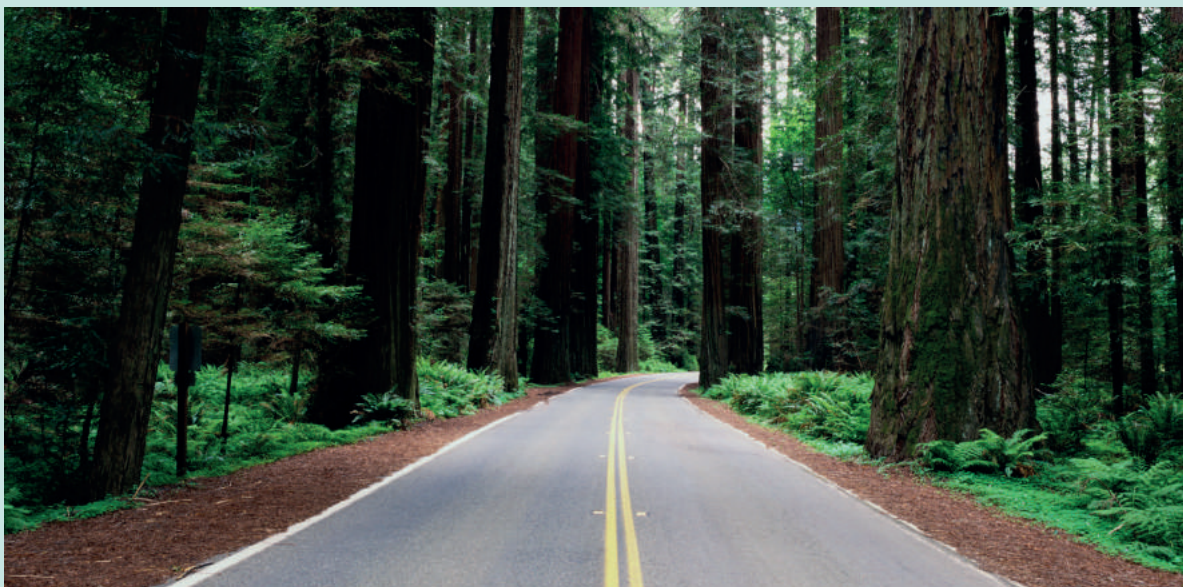
The TDA is a unique alliance uniting Countries, Cities/Regions and Companies, which facilitates action among members and supporters to accelerate the worldwide transformation of the transport sector towards a net zero emission mobility system before 2050. In less than one year, the alliance has recruited frontrunners from around the world on the national, city, and state levels and from the business sector to join forces for transport decarbonisation.

Following the success of the first year of its establishment, the TDA will continue to pursue its goal to become the most visible and influential forum for public and private cooperation on transport decarbonisation and be the game-changer that ensures all the transport sub-sectors contribute to the Paris Agreement's objectives.

In 2019, new TDA CoIs will be incorporated and existing ones will be expanded to tackle specific transport decarbonisation challenges and explore the required conditions to accelerate decarbonisation, including issues on urban freight, transport decarbonisation policy (TDA Manifesto), education, transport energy and regulation.

A significant objective of the TDA for 2019 is to expand its membership into Asia-Pacific and Africa, starting with key outreach to African countries, cities/regions and companies at Africa Climate Week in March 2019. By bringing the perspectives of African and Asian 3Cs into the fold and with more resources and members onboard, the effectiveness and actions of the TDA can be greatly increased, ensuring its place as the world's premiere platform for transport decarbonisation frontrunners.

The TDA Members advocate the importance of accelerating transport decarbonisation and that it is technologically feasible and economically viable while bringing wide social and environmental benefits to the world. In 2019, TDA will take action and advocate for increased ambition in the transport sector and look forward to welcoming new Members, Countries, Cities/Regions and Companies acting together to accelerate transport decarbonisation.





*The Transport Decarbonisation Alliance
a "coalition of the willing" to decarbonise transport*

*TDA brings together Countries, Cities/Regions and Companies, the "3Cs",
as the major drivers in sustainable, low carbon mobility.*

TDA members as of May 2019:



Cabo Verde



Costa Rica



Finland



France



Luxembourg



Netherlands



Portugal



California



Gaia



Lisbon



Matosinhos



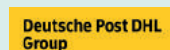
Porto



Rotterdam



PUSHING MOBILITY.



tdasecretariat@tda-mobility.org

www.tda-mobility.org



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