

# ITS World Congress 2018

25th ITS World Congress in Copenhagen –  
the world's leading event in Intelligent  
Transport Systems (ITS)

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25<sup>TH</sup> ITS WORLD CONGRESS  
**COPENHAGEN**  
17 – 21 SEPTEMBER 2018

*Quality of life*



## ITS World Congress 2018 Facts

**Date:** Monday 17 – Friday 21 September 2018

**Location:** Bella Center, Copenhagen, Denmark

**Number of expected attendees:** 4,000 delegates and 10,000 visitors from over 100 countries

**Who will attend?** EU-commissioners, ministers, mayors, city officials, industrial leaders, researchers, engineers, developers, students etc.

**Bodies involved:** The Congress is organised by ERTICO – ITS Europe, ITS America, ITS Asia-Pacific and the European Commission, hosted by the City of Copenhagen and supported by Greater Copenhagen, ITS Denmark and the Danish Industry Foundation.

**Theme:** 'ITS – Quality of Life'

**Exhibition space:** 25,000 sqm

**Sessions:** 150+

**Demonstrations:** 12

**Technical Visits:** 17

## About the ITS World Congress

The ITS World Congress is an annual international congress focused on Intelligent Transport Systems. Each year, the World Congress is hosted in one of three regions; Europe, Asia-Pacific or the Americas. The regional ITS associations, ERTICO – ITS Europe, ITS Asia-Pacific and ITS America, each host the World Congress when it falls in their respective region every three years.

This year, over 10,000 international ITS experts, professionals, public and private sector leaders, researchers, engineers and students, representing all corners of the ITS industry, will gather at the 25th ITS World Congress in Copenhagen, Denmark on Monday 17 – Friday 21 September.

With over 150 programme sessions, 400 exhibiting companies spread across 25,000 sqm of exhibition space, 12 live demonstrations, 17 technical visits and a multitude of social and networking events, the ITS World Congress 2018 will offer unique and valuable opportunities and learning experiences for every ITS professional.

His Royal Highness the Crown Prince of Denmark is the patron of the ITS World Congress 2018 in Copenhagen and will officially open the ITS World Congress at the Opening Ceremony on Monday 17 September from 16.00-17.30.

## About ITS (Intelligent Transport Systems)

ITS - Intelligent Transport Systems - is the integration of information and communications technology with transport infrastructure, vehicles and users. By sharing vital information, ITS allows people to get more from transport networks, in greater safety and with less impact on the environment.

### ITS helps:

- detect hazards on the road ahead and inform drivers of them even before they are visible;

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- keep vehicles at a safe distance from one another;
- allow vehicles to communicate directly with the infrastructure around them and with one another - enabling drivers to make better decisions about their route and respond to warnings of congestion and accidents;
- keep drivers informed of the local speed limit;
- monitor drivers for signs of fatigue and inform them when it's time to take a break;
- give public transport users real time service information as well as smart and seamless ticketing solutions;
- integrate public transport into traffic management systems, giving priority to buses and trams;
- enable freight operators and customs authorities to share information about consignments and keep track of their position and status, as well as providing information on the most efficient, economical and secure routes for freight;
- improve the efficiency of passenger and goods transport and ease congestion on the network - with obvious benefits for the environment, and;
- provide reliable real-time travel and traffic information, anywhere, anytime!

## Organiser: ERTICO – ITS Europe

ERTICO – ITS Europe is a public-private partnership of 120 companies and organisations representing service providers, suppliers, traffic and transport industry, research, public authorities, user organisations, mobile network operators, and vehicle manufactures. ERTICO embodies thought leadership and fosters stakeholder engagement. Together with partners, ERTICO develops, promotes and deploys Intelligent Transport Systems and Services (ITS) through a variety of activities including European co-funded projects, innovation platforms, international cooperation, advocacy and events. ERTICO is the organiser of the annual ITS regional and global Congress in Europe, and ERTICO's work focuses on Connected & Automated Driving, Urban Mobility, Clean Mobility, and Transport & Logistics.

Since 1994, ERTICO has organised the World Congresses in Europe in cooperation with the European Commission, the local Host, ITS America and ITS Asia-Pacific. The Congress will be in Singapore in 2019, Los Angeles in 2020, and in Hamburg in 2021.

Find out more on [www.ertico.com](http://www.ertico.com)

## Host: The City of Copenhagen

The City of Copenhagen will be hosting the 25th ITS World Congress in Copenhagen. The congress secretariat is in the City's Technical and Environmental Administration who is responsible for the City's environmental and climate activities, development of the traffic area, development of new urban areas and for a number of authoritative functions.

Find out more on <https://international.kk.dk/>

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## Copenhagen

Copenhagen is one of the world's most liveable cities. The city fuses quality of life at local level with a global outlook. It is internationally renowned for its innovative approach to the climate and the environment and it has a reputation as the world's best city for cyclists.

The Congress theme "ITS – Quality of Life" supports the Copenhagen belief that intelligent transport systems are an important means to enhance people's daily lives through seamless, smart and sustainable mobility solutions. The Congress will focus on how ITS solutions can contribute to liveability, greener environment and lower congestion, thereby creating a higher quality of life.

## Why Copenhagen?

Copenhagen has shown remarkable results working with urban development challenges in relation to the environment, traffic safety and congestion. The driving ambition is to become the first carbon-neutral capital city by 2025. To achieve this, Copenhagen wants to be the European leader within green technology and innovation. The City of Copenhagen has embraced ITS and green mobility and is active in a number of innovation projects. This includes making public transport more attractive and less polluting as well as raising the average speed of cyclists by using ITS solutions to prolong green lights. It is about finding solutions that are smarter, greener and healthier. The green agenda goes hand in hand with the needs of the citizens. A green city is a precondition for a liveable and healthy city. ITS can help to improve traffic flow and road safety, and promote cycling and public transport.

As the first city in the world, Copenhagen has developed variable message signs exclusively for cyclists to improve traffic information, travel time and suggest alternative routes to popular destinations. Copenhagen is also testing intelligent street lighting. To reduce energy consumption, the lights are lowered to 50% at night. Through smart technology, the lights turn back to 100% when a cyclist approaches.

Another way that Copenhagen is furthering its green agenda is through the facilitation of eco-driving. Using a combination of an onboard unit and a multimodal app, it gives driver guidance for green light which improves fuel efficiency and reduces carbon emissions.

For more information about the ITS programme in Copenhagen, please see the ITS Action Plan:  
<https://www.kk.dk/sites/default/files/uploaded-files/ITS%20-%20Action%20Plan%202015-2016.pdf>

## Tourist information

For more information about visiting Copenhagen, please visit <https://www.visitcopenhagen.com/copenhagen-tourist>

## Congress venue

The Congress will be held at Bella Center in Copenhagen – Scandinavia's largest congress-, conference- and exhibition center. Bella Center features a central location in the heart of Ørestad with its own Metro station named Bella Center. Ørestad is a new part of Copenhagen and the neighbourhood around is developing rapidly into a modern and active

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part of Copenhagen. Bella Center is just a 10 minute taxi drive from Copenhagen Airport and only a few kilometres away from Copenhagen city centre.

### Address

Bella Center Copenhagen  
Center Boulevard 5  
DK - 2300 Copenhagen

Find out more on <http://www.bellacentercopenhagen.dk/en-GB/Home.aspx>

## What will we see at the Congress?

The Congress will provide over 200 sessions and workshops where attendees will be able to attend a variety of discussions by high-level officials, as well as hear industry and academic leaders speak, a multitude of opportunities to experience outstanding demonstrations with cutting edge solutions, an extensive list of technical visits and tours, over 400 exhibiting companies showcasing the latest and greatest solutions and innovations in ITS, the first ever startup area with 32 creative innovators, a Nordic Pavilion with a special Nordic Stream of sessions, as well as an extensive networking and social programme.

## Highlights

### The Official Opening Ceremony

His Royal Highness the Crown Prince of Denmark is appointed Patron of the ITS World Congress 2018. The Crown Prince will officially open the Congress on Monday 17 September at 16:00 – 17:30 in Bella Center.

Please see the press programme of Monday 17 September for information about press and photo opportunities, including press pools in relation to the attendance of His Royal Highness.

### Startup area

The Congress will unveil a unique special exhibition space exclusively dedicated to start-ups called AREA C – Startup Connector. AREA C will be the first-ever exhibition space dedicated to young ventures in the history of the ITS World Congresses. It is a unique opportunity for startups to access and connect with leading experts in the fields of future mobility, logistics and smart city. The exclusive benefits for young ventures are only available to the top 32 most promising startups.

For more information about AREA C, including the programme and a list of participating startups, please visit: <https://itsworldcongress.com/startups/area-c-startup-connector/>

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## Nordic Stream

There is a strong involvement from the Nordic ITS organizations in Denmark, Finland, Norway and Sweden. Together they have planned a Nordic Pavilion and a special Nordic Stream of sessions with the purpose to strengthen the relations between the Nordic countries, build a long-term concept for joint Nordic activities and promote Nordic businesses.

The Nordic Pavilion will be part of the exhibition area in Bella Center and is a unique opportunity to showcase and promote Nordic ITS solutions to both local and international audience and press. The Nordic Stream of sessions will address different topics such as Sea Traffic Management, Automation of Transport Systems, Mobility as a Service (MaaS), the Role of Authorities in Transformation of Transportation, Better mobility with Public Transport, etc. Each Nordic country is responsible for one day of sessions during the Congress.

Please see the Congress programme for more information about the activities and sessions in Nordic Stream:  
<https://itsworldcongress.com/programme/online-programme/>

## High Level Round Table

On Tuesday 18 September at 12:00 – 16:00, the High Level Round Table gathers Ministers, Mayors, City Officials and Industry Leaders to review how intelligent and green mobility can contribute to sustainable growth and to a better environment for all citizens. The High Level Round Table will be a valuable opportunity for decision makers to exchange experiences and strategies related to the application of transport technology that enhances people's daily lives through seamless, smart and sustainable mobility solutions. The High Level Round Table will start with a plenary session followed by break-out sessions and finally a summarizing plenary on conclusions and follow-up actions.

A press release summing up on the outcome of the High Level Round Table will be released soon after to all registered press.

## MinRejseplan

MinRejseplan (MyJourneyPlanner) is a new generation of the app known as Rejseplanen (JourneyPlanner). The new app extends the current version of Rejseplanen's systems and functionality and allows the traveller to select from many more means of transportation. MinRejseplan is much more than a simple journey planner that maps out which busses, harbour busses, subway line or train to take, but now also includes journeys by taxi, car pooling, shared cars and city bikes.

As a first round, the app is tested by the Congress delegates during the Congress week. Delegates can use the app to find journey suggestions incorporating more means of transportation than previously, and can - as something completely new - sort the journeys by price, travel time and departure time. In addition, purchasing and booking a ticket is easily done through the app.

As host, The City of Copenhagen is responsible for offering transportation to delegates during the Congress. All delegates will get access to a digital ticket solution, included in MinRejseplan, which is valid for public transport in Copenhagen during the congress week.

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## Public Day

On Thursday 20 September, the citizens of Copenhagen and anyone interested are invited to visit the ITS World Congress free of charge. Visitors get to experience the 25,000 sqm exhibition, listen to innovative talks at the congress' open stages, discover the latest technology and test some of the future's ITS solutions in the demo area. They can also join one of the guided tours (in Danish) and learn how ITS can improve the quality of life in cities. Visitors should go to the registration counter upon arrival and get a visitor day pass.

## Exhibition area

The Congress will have a large exhibition area of 25,000 sqm, showcasing 400 exhibiting companies and their products at display.

For a list of exhibitors, please see: <https://itsworldcongress.com/exhibition/exhibitor-list/>

## Feature Area: Research That Defines the Future of Mobility

For the first time at a ITS World Congress, three prestigious Nordic Universities including Aalborg University (AAU), Technical University of Denmark (DTU) and Lund University (LU) will jointly present their research activities towards future of safe, smart, and sustainable mobility at booth E-030 in the exhibition area. New ground-breaking research and development projects over the topics of applications of Big Data in transport modelling, application of machine learning and artificial intelligence in transport demand and supply optimization, and advanced technologies for improving road safety, future of Mobility as a Service and autonomous mobility etc. will be presented.

## Other social events

- Welcome reception on Monday 17 September from 17:30-19:00
- ITS Business Summit on Tuesday 18 September from 16:00-17:30
- VIP dinner on Tuesday 18 September from 19:00-22:00
- Gala dinner on Wednesday 19 September from 19:00-01:00
- Closing ceremony on Friday 21 September from 12:15-13:00

## Show cases

### Demonstrations

The demonstrator area will showcase the latest solutions in the Intelligent Transport field. 12 demonstration projects will be tested and showcased during the congress week at the parking area in front of Bella Center.

The 12 demonstration projects are:

- Aurigo – self-driving pod shuttle service

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- Avanti – Traffic Monitoring System for Bicyclists
- C-Mobile – C-ITS inter-operability deployment
- Ibeo, Bestmile, Paravan and Hanseatische Fahrzeug Manufaktur – “Urban Jungle”, an on-demand driverless shuttle
- KEOLIS – Autonomous taxi
- Local Motors by LMI and Autonomous Mobility – A demonstration of the new Olli, a driverless shuttle
- NordicWay 2 – C-ITS Services in real life
- Q-free – C-ITS for Cyclists
- Rejseplanen – MinRejseplan (MyJourneyPlanner), a MaaS solution
- SWARCO – Micro Mobility
- SWARCO – Autonomous Valet parking
- VTT – Living Lab Bus

Please see appendix for a fact sheet on each demonstration project, providing information on the demonstrations.

On Monday 17 September at 14.45-15.30 there will be a First Look Press Visit to the demonstration projects. Please see the programme of the press day on 17 September for more details.

### Copenhagen 1:1

Experience the smart city of Copenhagen and learn about what the City has done to improve the quality of life for its citizens. The Copenhagen 1:1's is a unique opportunity for a one-on-one meeting with the professionals from the City of Copenhagen, who have implemented the solutions and experienced the results. Join the experts on a guided tour and experience what has made Copenhagen one of the most livable cities in the world.

Participation only upon ticket.

For further information, please see: <https://itsworldcongress.com/programme/technical-visits-in-copenhagen/>

### Technical visits

There will be various opportunities to go on technical visits during the congress. The technical visits include:

- Traffic Management Center East (Trafiktårnet)
- The Oresund Bridge – connecting Denmark and Sweden
- Malmö Stad og Region Skåne, Sweden
- Ideon Science Park, Lund, Sweden
- Aalborg University, Copenhagen Campus
- Copenhagen harbour tour
- DTU – Denmark's Technical University
- DOLL – Living Lab
- Metro management center
- Metro construction site

Participation only upon ticket.

For further information, please see: <https://itsworldcongress.com/programme/technical-visits-in-copenhagen/>

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## World Congress Topics

Sessions are a vital part of the ITS World Congress 2018. Under the theme “ITS - Quality of Life”, experts will have the opportunity to present the latest ITS solutions and mobility technologies. The Congress will be a momentum to show results on how ITS solutions have created a positive impact for the citizens.

The International Programme Committee is pleased to present six topics running through the three Congress pillars – Programme, Exhibition and Demonstrations – and a seventh host topic.

The seven technical topics are:

- Mobility Services – from transport to mobility to liveability
- ITS and the environment
- Connected, cooperative and automated transport
- Next generation goods delivery
- Satellite technology applied to mobility
- Transport networks evolution.
- Cross Border Solutions - “Host Topic”

## Congress Programme

- 3 plenary sessions
- 12 executive sessions
- 90+ special interest sessions
- 80+ technical/scientific and commercial sessions
- 50+ workshops, side events and special features
- Many associated events and multiple networking opportunities

Link to the full programme: <https://itsworldcongress.com/programme/online-programme/>

## Plenary Sessions

All attendees are welcome to join the Opening and Closing Ceremonies and Plenary Sessions dedicated key ITS issues addressed by major personalities from the ITS world and beyond.

The three plenary sessions are:

- ‘Achieving higher quality of life in our cities’ (*Focus on public authorities, citizens & planning*) on Tuesday 18 September at 11:00–12:30
- ‘Ensuring integrated mobility services’ (*Focus on service providers and public transport operators*) on Wednesday 19 September at 11:00–12:30
- ‘What’s next for automated mobility?’ (*Focus on transport modes, telecommunications and infrastructure*) on Friday 21 September at 11:00–12:15

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## Executive Sessions

In these sessions high level industry executives, public officials and academics will draw from their experiences to discuss key topical policies, opportunities and challenges.

The 12 executive sessions are:

- ‘Healthy and liveable cities’ on Tuesday 18 September at 13:30–15:00
- ‘Putting citizens first in mobility design’ on Tuesday 18 September at 13:30–15:00
- ‘Essentials for developing a smart city’ on Tuesday 18 September at 15:30–17:00
- ‘Managing the ebbs and flows of travel’ on Tuesday 18 September at 15:30–17:00
- ‘MaaS: Seamless and effortless mobility’ on Wednesday 19 September at 13:30–15:00
- ‘Institutional and legal challenges of cooperative, connected and automated mobility (CCAM)’ on Wednesday 19 September at 13:30–15:00
- ‘The role of open data in the digital infrastructure’ on Wednesday 19 September at 15:30–17:00
- ‘Efficiency in freight transport’ on Wednesday 19 September at 15:30–17:00
- ‘Delivering effective cooperative, connected and automated mobility (CCAM)’ on Thursday 20 September at 09:00–10:30
- ‘The real impacts of cooperative, connected and automated mobility (CCAM)’ on Thursday 20 September at 11:00–12:30
- ‘Enhancing cybersecurity and resilience of transport infrastructure’ on Thursday 20 September at 13:30–15:00
- ‘Upping the game in safety’ on Thursday 20 September at 15:30–17:00

## Special Interest Sessions

Organised at the request of groups of experts developing and deploying ITS, these sessions provide the opportunity to focus on specific topics of interest.

Please see the programme for more details about the different sessions:

<https://itsworldcongress.com/programme/online-programme/>

## Technical/Scientific Sessions

These sessions are composed of presentations by international experts and will include topics encompassing all technical, scientific, economic, organisational and societal aspects of ITS.

## Commercial Paper Sessions

Commercial Papers describe an activity aimed at generating or improving a specific product, device or idea for the market. Papers will be presented in groups with a moderator in the Exhibition area.

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## Commercial Theatre Sessions

The Commercial Theatre, located in the Exhibition area, will house 2 different types of activity: Commercial Paper Sessions and Commercial Presentation Sessions. Sessions present near-market material activity aimed at generating or improving a specific product, device or idea for the market, with a particularly strong commercial or deployment flavour. All Sessions are presented to a more commercial audience than usual, specifically targeted to exhibition participants and visitors, in an interactive format.

## “Out of the Box” Sessions

These sessions taking place in the ITS Forum in the Exhibition, will feature different type of formats designed to encourage more interaction between the speaker and the audience.

## Official language

The official language of the Congress is English, and all speeches will be delivered in English.

## Media Registration

All press must be registered. Please register at the Congress’ website by filling out the following formular: <https://b-com.mci-group.com/CommunityPortal/Registration/ITS2018.aspx>

You will have to upload documentation, such as Press ID. When you arrive at the Congress, please register at the registration desk in the lobby of Bella Center in order to get access to the Congress. Remember to bring your Press ID/documentation. The Registration Opening Hours are:

- Sunday 16 September from 14.00 – 18.00
- Monday 17 September from 8.00 – 20.30
- Tuesday 18 September from 8.00 – 18.00
- Wednesday 19 September from 8.00 – 18.00
- Thursday 20 September from 8.00 – 18.00
- Friday 21 September from 8.00 – 15.00

## Press lounge

There will be a press lounge at Bella Center, exclusively for Press and Media.

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## Congress App

The Congress App will keep you up to date on all Congress activities and events and gives you access to the interactive programme in your pocket. Find your way around the congress centre, the exhibition hall and the demonstration area with all the necessary information at your fingertips.

To download the Congress app, simply search for “ITS 2018 Copenhagen” on App Store or Google Play Store.

## Sponsors

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## Social Media

Please follow us on Social Media:

- Twitter ITS Congresses: [https://twitter.com/ITS\\_Congresses](https://twitter.com/ITS_Congresses)
- Youtube: <https://www.youtube.com/user/Intelligenttransport>
- Flickr: <https://www.flickr.com/photos/itscongresses/>
- Facebook ITS Congresses: <https://www.facebook.com/ITSCongresses/>
- LinkedIn City of Copenhagen: <https://www.linkedin.com/company/kobenhavns-kommune/>
- Twitter City of Copenhagen: <https://twitter.com/koebenhavnner>

Download the Social Media Kit here: <https://itsworldcongress.com/media/promotional-tools/>

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## Download photos from the Congress

Every day the Congress photographer will upload a broad range of photos which you are welcome to download for free. Download here: <https://www.flickr.com/photos/itscongresses/>

## More information

For more information on sessions, exhibition opening hours, demonstration reservations, and social programme, please visit the Congress website: [www.itsworldcongress.com](http://www.itsworldcongress.com)

## List of experts

**Steffen Rasmussen**, Head of Projects, City of Copenhagen: [steras@kk.dk](mailto:steras@kk.dk)

**Svend Tøfting**, Chairman of Board, ITS Denmark: [svto@rn.dk](mailto:svto@rn.dk)

**François Fischer**, Expert on Connected & Automated Driving, ERTICO – ITS Europe: [f.fischer@mail.ertico.com](mailto:f.fischer@mail.ertico.com)

**Piia Karjalainen**, Expert on Clean & Urban Mobility and MaaS, ERTICO – ITS Europe: [p.karjalainen@mail.ertico.com](mailto:p.karjalainen@mail.ertico.com)

**Thomas Desseilles**, Expert on Transport and Logistics, ERTICO – ITS Europe: [t.desseilles@mail.ertico.com](mailto:t.desseilles@mail.ertico.com)

**Monica Giannini**, Expert on C-ITS, ERTICO – ITS Europe: [m.giannini@mail.ertico.com](mailto:m.giannini@mail.ertico.com)

## Contact Information

### **Anette Amalie Juhl Lindschouw**

Host Communication  
City of Copenhagen  
Email: [he6b@tmf.kk.dk](mailto:he6b@tmf.kk.dk)

### **Danielle McDonald**

Congress & Events Coordinator  
ERTICO – ITS Europe  
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## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Ibeo, Bestmile, Paravan, Hanseatische Fahrzeug Manufaktur
<b>CONTACT PERSON</b>	Katharina Krimmer Katharina.krimmer@ibeo-as.com +49 (0) 160 2598 796
<b>STAND NUMBER</b>	Ibeo: C1 -075 Bestmile: C1 -125 Paravan: C1- 104, HFM: C1 - 104
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:20 Friday 21 September: 8:30 - 10:30
<b>DURATION</b>	20 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

Bestmile, Ibeo Automotive Systems, PARAVAN and Hanseatische Fahrzeug Manufaktur (HFM) are joining forces to show the possibilities of driverless vehicles in the urban environment at the ITS World Congress 2018. At the demonstration area an autonomous shuttle will carry you through the wild, encountering tigers, elephants and gorillas.

The participants can experience how the vehicle interacts with its environment and brings them safe through the Urban Jungle. Each demo participant will be able to hail the vehicle in real time and experience a true on-demand autonomous shuttle service.

### COMPANY PROFILE:

#### **Ibeo:**

Ibeo Automotive Systems GmbH is the German specialist for automotive LiDAR sensor technology located in Hamburg. In addition to the state-of-the-art automotive LiDAR sensors, Ibeo develops software for environmental detection, referencing tools for Highly Automated Driving and Autonomous Driving (HAD/AD) systems as well as Highly Automated Driving and Mapping & Localisation applications.

#### **Bestmile:**

Bestmile's Mobility Service Platform gives mobility providers everything they need to configure, manage and optimize autonomous and human-driven vehicle fleets, including a complete set of operator and traveler software and mobile apps.

#### **Paravan:**

PARAVAN GmbH manufactures passenger automobiles. The Company provides vehicle adaptation systems, power wheelchair, seat solutions, assisted driving systems, and leg trainers. PARAVAN serves customers worldwide.

#### **Hanseatische Fahrzeug Manufaktur:**

Hanseatische Fahrzeug Manufaktur GmbH (HFM) is a passionate and result-orientated creator of adaptable vehicle platform solutions, ranging from conventional to fully autonomous steering scenarios. At the heart of HFM's competences is a combination of a highly dynamic product development process and the management of complex customer requirements.



## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	KEOLIS – Autonomous taxi
<b>CONTACT PERSON</b>	Anne Sophie Jacques Anne-sophie.JACQUES@keolis.com +33 613460722
<b>STAND NUMBER</b>	C4 -025 (inside) & car park (outside)
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>DURATION</b>	10 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

#### Discover the first autonomous shared cab on the market at the ITS World Congress 2018

By presenting Navya Autonom Cab, Keolis reinforces its role as a pioneer in all forms of everyday shared transport by promoting its vision of more connected, autonomous, shared and electric mobility solutions. In the future, autonomous shared vehicles will smoothly integrate the existing multimodal transport networks and enhance mass transit modes. Transit modes are critically needed in order to build sustainable and efficient mobility in the cities of tomorrow.

The autonomous shared cab is a complementary solution to mass transit modes.

### COMPANY PROFILE:

The Keolis Group is a world leader in public transport operations. Present in 16 countries, Keolis operates urban, suburban, and regional networks on behalf of 300 local authorities. The Group carries over 3 billion passengers every year.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Q-Free - The Connected Urban Bike Route
<b>CONTACT PERSON</b>	Ola Martin Lykkja Ola.lykkja@q-free.com +47 99545465
<b>STAND NUMBER</b>	C2 - 065
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 10:00 - 16:00 Friday 21 September: 10:00 - 13:30
<b>DURATION</b>	15 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

Copenhagen has earned its reputation as one of the best cities in the world for cyclists. Q-Free wants to take the positive biking experience one step further and invites visitors to become urban cyclists in a Cooperative Intelligent Transport System. By the help of innovative technology, the live demonstration allows participants to experience a range of practical Urban ITS scenarios.

Visitors will use electric bikes and be guided through a city environment with the help of audio and visual information from tablets and wireless earbuds. The tablets and headsets will provide interactive information of the traffic situations. Several simulated situations will show how to achieve safety and efficiency in an urban ITS mobility setting.

Participants can choose between a short route (100 meters) or a long route (2 km) and will score points depending on their traffic behaviour.

A prize will be awarded each day to an urban cyclist. Wireless earbuds and helmets are provided free of charge. Participating the bicycle tour is a great way to energise your day at the ITS World Congress.

### COMPANY PROFILE:

Q-Free is a leading global supplier of class-leading Tolling, Parking, Traffic Management and Connected ITS (C-ITS)/ Connected Vehicle solutions. To Q-Free, a society with less congestion, pollution and accidents is achievable through smart and innovative transportation solutions.

Founded in 1984, Q-Free is head quartered in Trondheim, Norway and has approximately 400 employees with 18 offices around the world. With an annual revenue around 1 billion NOK/13 million USD, the company is listed on Oslo Stock Exchange and certificated in accordance with ISO-9001 and ISO 14001.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Rejseplanen – MaaS-app
<b>CONTACT PERSON</b>	Christina Hvid chv@rejseplanen.dk +45 2043 1803
<b>STAND NUMBER</b>	C3-016
<b>PROJECT PARTNERS</b>	The North Denmark Region The Capital Region of Denmark NT (Nordjyllands Trafik) Ministry of Transport, Building and Housing Movia DSB Metroselskabet
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30

### DEMONSTRATION DESCRIPTION:

MinRejseplan – A Huge Step towards Mobility as a Service-App.

MinRejseplan app (MyJourneyPlanner) includes all sorts of transport and mobility modes including; trains, buses, the Metro, carpooling, harbour-ferries, taxis, car sharing, bicycle sharing, and city bikes.

MinRejseplan app is the future nationwide mobility app in Denmark, and at the ITS World Congress it is made available for all delegates to try.

During the ITS World Congress, delegates will get access to a digital ticket solution, included in MinRejseplan, which is valid for public transport in the city of Copenhagen.

<https://itsworldcongress.com/media/news/world-premiere-of-multimodal-journey-planner-at-the-itswc18/>

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	NordicWay 2
<b>CONTACT PERSON</b>	Ørjan Tveit orjan.tveit@vegvesen.no +47 930 58 631
<b>STAND NUMBER</b>	C3 -020 Part of Nordic Pavillion
<b>NORDICWAY 2 DEMONSTRATION PARTNERS</b>	Norwegian Public Roads Administration Danish Road Directorate Swedish Transport Administration Finnish Transport Agency Finnish Transport Safety Agency SWARCO Volvo
<b>NORDICWAY 2 PROJECT PARTNERS</b>	Norwegian Public Roads Administration, Danish Road Directorate Swedish Transport Administration, Finnish Transport Agency Finnish Transport Safety Agency, Telefonaktiebolaget LM Ericsson Scania CV AB, Volvo Car Corporation, City of Gothenburg, City of Stockholm, VOLVO AB, Kapsch TrafficCom AB, Myndigheten för samhällsskydd och beredskap, Uppsala kommun, Södertälje kommun, Zenuity AB, IBM Svenska AB, Swarco Sverige AB, Technolution AB, Springworks AB, Carmenta AB, DB Schenker, Veridict AB, Statens Väg och Transportforskningsinstitut Mindconnect AB, Chalmers University of Technology, KTH - Integrated Transport Research Lab (ITRL), Combitech AB, Triona AB, RISE Interactive Institute AB
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Friday 21 September: 10:00 - 14:00
<b>DURATION</b>	20 min.
<b>BOOKING A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app

### DEMONSTRATION DESCRIPTION:

#### NordicWay 2

NordicWay 2 shows how public authorities can use C-ITS for Traffic Management. A Volvo XC90 will show how a car – without driver intervention – can react to traffic management decisions provided by “the sky” from the Nordic road authorities.

The car will react automatically to traffic signal information by stopping the engine when appropriate and starting it again when you have green light. In dedicated geofence zones (i.e. a virtual geographic boundary, defined by location technology) we can force a hybrid car to drive by electricity.

### PROJECT DESCRIPTION:

The Nordic countries Denmark, Finland, Norway and Sweden are committed to further develop their C-ITS cooperation that started with the NordicWay project through extended joint pilot activities within the NordicWay2 project.

The project is an alliance between public and private partners in the four countries and is co-financed by the European Union within the Connecting Europe Facility programme 2017-2020.

- NordicWay2 services aim to enhance traffic safety and fluency as well as environmental benefits by reducing CO2 emissions

- NordicWay2 focuses on solutions and services that are suitable for Nordic conditions, e.g. how roads, cellular coverage and traffic problems look like in the Nordic countries
  - Services and choice of technical solutions aim at covering the whole Nordic network and have a potential to reach high penetration without further infrastructure investments
  - NordicWay2 will demonstrate and highlight future services and challenges connected to vehicles with higher SAE levels (i.e. the level of automation of the vehicle)
  - NordicWay2 will continue to explore the use of existing mobile communication for C-ITS services, so that rural routes with poor cellular connectivity can be included too
  - The interoperability of several C-ITS services will be tested throughout the NordicWay2 network
  - NordicWay2 will contribute to European CCAM (i.e. Cooperative, Connected and Automated Mobility) harmonisation through C-ROADS Platform
  - NordicWay2 will map and assess the infrastructure readiness for connected and automated driving on major freight routes
  - NordicWay2 aims to scale up existing C-ITS services by supporting cloud to cloud hybrid communication
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## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	VTT – Living Lab Bus
<b>CONTACT PERSON</b>	Juho Kostiainen Juho.Kostiainen@vtt.fi +358 40 674 6737
<b>STAND NUMBER</b>	C3 -020 Part of Nordic Pavillion
<b>PROJECT PARTNERS</b>	Linkker, EEE Innovations, Foreca, University of Tampere, VTT Technical Research Centre of Finland, Vaisala
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30 Tours at 09:30 and 16:00 each day.
<b>DURATION</b>	60 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app.

### DEMONSTRATION DESCRIPTION:

Creating electric mobility passenger experience with an open public transport innovation platform: How real-life buses can support innovation.

The demonstration showcases Linkker's sustainable electric buses and quick charging with further efficiency and driving optimization solutions from EEE Innovations. The use of buses as a mobile sensor platform are shown through Foreca's enhanced weather forecast solutions as well as LiDARs for automated driving by VTT, and more. In addition, UTA's co-creation tools for service delivery and passenger feedback will be presented.

### COMPANY PROFILE:

VTT Technical Research Centre of Finland Ltd., the coordinator of this innovation platform, is one of the leading research and technology organisations in Europe. VTT has a national mandate in Finland. VTT uses their research and knowledge to provide expert services for domestic and international customers and partners. The Centre serves both private and public sectors.

VTT has 75 years of experience supporting clients' growth with research and science-based results. VTT develops new smart technologies, profitable solutions and innovation services.



## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	C-Mobile – C-ITS inter-operability deployment
<b>CONTACT PERSON</b>	André Perpey andre.perpey@neogls.com +33 (0)6 64 54 70 45
<b>STAND NUMBER</b>	C3 -025 part of the ERTICO stand
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>DURATION</b>	15-30 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

The C-Mobile demonstration will showcase interoperability between services deployed in eight European cities. The innovative architecture of C-Mobile will allow service providers to receive data seamlessly via short-range radio (ITS-G5) and cellular (3G/4G) communication in a standardized way. The City of Copenhagen and its service providers will deploy a hybrid architecture on this model, allowing the bundling of a coherent set of C-ITS services within an integrated suite of applications.

To demonstrate interoperability, service providers from other cities will come to Copenhagen and use vehicles equipped with radio and cellular connectivity to demonstrate that their apps work natively in another city. Interoperability will be proven both on radio and cellular and for services like GLOSA for vehicles, Road Works Warning, Road Hazard Warning and Vulnerable road users' security.

### PROJECT DESCRIPTION:

C-Mobile (Accelerating C-ITS Mobility Innovation and deployment in Europe) is developing co-operative intelligent transport systems (C-ITS) and services designed to deal with specific mobility and transportation challenges across Europe. The project also aims to help local authorities integrate suitable C-ITS services and to raise awareness of the potential benefits for all road-users.

A total of eight C-ITS equipped cities and regions are involved in the project, all of which have been research pilot sites for large-scale integration of sustainable services in the past. This common approach ensures that inter-operability and seamless service availability are prioritised and at an acceptable cost for end-users.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Aurrigo – self-driving pod shuttle service
<b>CONTACT PERSON</b>	Miles Garner mgarner@aurrigo.com +44 7989 995168
<b>STAND NUMBER</b>	C3 - 050 – UK Pavilion
<b>POD SHUTTLE OPERATING TIMES</b>	Tuesday 18 September – Thursday 20 September: 8:30 – 10.00 12.00 – 14.00 16.30 – 17.30
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Friday 21 September: 10:00 - 14:00
<b>DURATION</b>	10 min.
<b>BOOK A DEMONSTRATION</b>	To take a ride in a pod, you must first be registered for the Congress. Pods are available on a first come first served basis as you exit the metro station.

### DEMONSTRATION DESCRIPTIONS:

Come and experience Aurrigo's latest 4 seater self-driving pods. Take a test ride from the metro station to the exhibition hall and hear firsthand how we can help you join the autonomous transport revolution.

Self-driving pods are set to change the way we transport people and cargo efficiently on the last stage of their journey from transport hubs to and from a wide range of destinations. Shopping centers, airports, campuses, sporting venues, aged care centers and eco towns are just some of the many sectors actively moving forward with self-driving trials.

### COMPANY DESCRIPTION:

Aurrigo provides a complete turnkey solution for autonomous Pods together with a Pod operating company. Aurrigo manufactures a range of driverless Pods and provides services for managing the application of Pods in public spaces including all customer facing booking functions, monitoring, staffing and training.

The Aurrigo turnkey solution is currently being deployed in real world applications in Milton Keynes in the UK, Adelaide, Australia and Singapore. Experience gained from this deployment is enabling Aurrigo to continuously improve their offering and to provide valuable real world experience to land owners or local authorities wishing to deploy their own trials.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	SWARCO – Autonomous Valet parking
<b>CONTACT PERSON</b>	Tom Buck tom.buck@swarco.com +44 7974 950778
<b>STAND NUMBER</b>	C3 -030
<b>PROJECT PARTNERS</b>	AUDI
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>DURATION</b>	15 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly on the Congress website or through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

#### **Automated Valet Parking - Making your car park ready for the driverless car of tomorrow, today**

Jointly with premium carmaker Audi, SWARCO will introduce the visitors to the customer journey of Automated Valet Parking.

By means of an “AVP walk”, visitors will get insight into a showcase of modern, stress-free automated parking, moderated by experts from Audi and SWARCO.

An Audi Q7 prototype will mark the “Check-in Zone” of a simulated car park where the car is dropped off by the future driver. Using an app the customer then hands over responsibility for the coordination of the vehicle to the parking infrastructure. High quality 3D visualizations will illustrate the virtual navigation of the car inside the car park. Guidance by the infrastructure is visible on the screen like the assignment of a bay, the currently assigned road segments and a simulated intervention because of other traffic. Another Audi vehicle will then mark the “Check-out Zone” where the visitors are invited to chat with the moderators, ask questions and get detailed answers about the AVP experience.

### COMPANY PROFILE:

SWARCO's leading idea is to improve quality of life by making the travel experience safer, quicker, more convenient and environmentally sound. For this purpose, the Austrian traffic technology corporation produces and provides a large range of products, systems, services, and turnkey solutions in road marking, urban and interurban traffic control, parking, public transport, and street lighting. Cooperative systems, infrastructure-to-vehicle communication, electromobility, and integrated software solutions for the Liveable City are latest fields in the group's portfolio. Swarco's 3700 traffic experts are keen to shape together with you the transition from conventional traffic management to value-added services fit for the traveller in the digital age.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	SWARCO – Micro Mobility
<b>CONTACT PERSON</b>	Morten Søndergaard morten.sondergaard@swarco.com +45 63152201
<b>STAND NUMBER</b>	C3 -030
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>DURATION</b>	15 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered, you can book the demonstrations directly on the Congress website or through the Congress app. Alternatively, you can contact the above mentioned contact person and arrange a suitable time.

### DEMONSTRATION DESCRIPTION:

#### The future of Micro Mobility in urban transportation

Jointly with ITS partners, SWARCO will introduce the visitors to a variety of highly innovative safety use cases focusing on the interaction of vehicles, bicycles and pedestrians. Among others, a collision warning system between pedestrians and cyclists and the Bike Lane Assistant will be demonstrated. SWARCO will also showcase an innovative way to cover the “last mile” mobility by means of the MoonStart e-scooters from Simob. Additionally, the BreezoMeter heatmap will inform about the air quality in urban environments around the globe.

### COMPANY PROFILE:

SWARCO's leading idea is to improve quality of life by making the travel experience safer, quicker, more convenient and environmentally sound. For this purpose, the Austrian traffic technology corporation produces and provides a large range of products, systems, services, and turnkey solutions in road marking, urban and interurban traffic control, parking, public transport, and street lighting. Cooperative systems, infrastructure-to-vehicle communication, electromobility, and integrated software solutions for the Liveable City are latest fields in the group's portfolio. Our 3700 traffic experts are keen to shape together with you the transition from conventional traffic management to value-added services fit for the traveller in the digital age.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Avanti – Traffic Monitoring System for Bicyclists
<b>CONTACT PERSON</b>	Mike Ramirez mike@avantirnd.com +1-424-337-0703
<b>STAND NUMBER</b>	E-0109
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>DURATION</b>	5 min.
<b>BOOK A DEMONSTRATION</b>	To book a demonstration you must be registered for the Congress. Once registered you can book the demonstrations through the Congress app. Alternatively, you can contact the above mentioned contact person and agree a suitable time.

### DEMONSTRATION DESCRIPTION:

The Avanti R&D, Inc. demonstration, in cooperation with Murata Manufacturing Co., Ltd., will showcase a bicycle monitoring system. The system, originally designed for vehicles, is an edge computing architecture which utilizes computer vision to provide non-identifying, aggregated information on count, speed, class, and type, and transmit it to the cloud via a self-healing wireless mesh network. By employing such an architecture, the amount of data output by the system is drastically reduced compared with traditional hard-wired camera-based systems. This minimizes the amount of infrastructure needed, thereby reducing the installation and maintenance costs.

The Avanti team will be exploring extension of its edge computing architecture for the anonymous re-identification of cyclists between adjacent nodes without sending data to the cloud. By outputting this information, calculation of travel times along specific paths could be combined, giving a picture of overall flow.

### COMPANY DESCRIPTION:

Avanti R&D is a creative technology house focused on the "Power of Ideas." They explore creative new ideas by implementing the latest technologies into unique, valuable solutions.

Avanti's OEM background and extensive network in the automotive industry allow them to deliver unique opportunities and innovative product concepts. Avanti prides themselves on quality and creativity achieved through their speed, flexibility, and high motivation.

## DEMONSTRATION PROJECT AT THE ITS WORLD CONGRESS 2018

<b>DEMONSTRATOR</b>	Local Motors by LMI and Autonomous Mobility
<b>CONTACT PERSON</b>	Brittany Stotler bstotler@localmotors.com +1-480-498-0334
<b>DURATION</b>	10 min.
<b>OPENING HOURS FOR SHOWCASE</b>	Tuesday 18 September - Thursday 20 September: 8:30 - 17:30 Friday 21 September: 8:30 - 13:30
<b>BOOK A DEMONSTRATION</b>	To book a demonstration, you must be registered for the Congress. Once registered, you can book demonstrations directly through the Congress app. Alternatively, you can stop by the demonstration area and sign-up.

### DEMONSTRATION DESCRIPTION:

#### #MeetOlli - A Dynamic Demonstration

A joint demonstration between US-based Local Motors by LMI and Danish firm, Autonomous Mobility; the Olli demonstration will allow attendees to experience autonomous technology firsthand while exploring related topics such as autonomous system safety and sustainability.

The demonstration will also include a ride experience highlighted by the dynamic avoidance station. Watch Olli avoid obstacles and adjust its path in real time. You can even move objects around yourself to see how Olli easily reroutes a journey around any obstruction.

In the mood to take things slowly? We'll have another Olli on display for attendees to spend more quality time in, and we'll have subject experts on-hand that will be available to answer your questions about Olli, 3D-Printing and autonomous technology.

### COMPANY PROFILE:

Local Motors by LMI is a ground mobility company focused on shaping the future for the better. Founded in 2007 with a belief in open collaboration and co-creation, Local Motors by LMI began low volume vehicle manufacturing of open-source designs using multiple microfactories.

Autonomous Mobility - As the leading provider of autonomous solutions in the Nordics and the Baltic, they are changing transportation as we know it. Autonomous Mobility believe that tomorrow's mobility solutions should be helpful, simple and seamless.