

ITS: The Game Changer

22-24 May 2023

Website: www.itseuropeancongress.com

Twitter: @ITS_Congress @ERTICO #ITSLisbon2023



EUROPEAN CONGRESS

LISBON, PORTUGAL 22-24 MAY 2023

ITS: The Game Changer.



Webinar Series



#	Date	Congress topic
1	26 Jan	Cooperative, Connected and Automated Mobility
2	23 Feb	New Mobility Services
3	06 Apr	Future Traffic management
4	11 May	Digitalisation and Freight & Logistics





Agenda

Webinar #2	New Mobility Services								
Date and Time	23 February, Thursday, 2:00 - 3:15pm CET								
Host & Chair	Lisa Boch-Andersen - Director of Communications, Congresses & Events, ERTICO-ITS Europe								
	 Joost Vantomme - CEO, ERTICO-ITS Europe ERTICO's Congress mission & welcome Lisa Boch-Andersen - Director of Communications, Congresses & Events, ERTICO-ITS Europe Birds-eye view of the Lisbon Congress 								
	 John Paddington - Senior Manager, Innovation & Deployment, ERTICO-ITS Europe - panel moderation Petra Soderqvist - Policy Officer, European Commission, DG MOVE 								
Speakers	- Multimodal transport - what's in the Commission pipeline 2023								
	 Oihana Otaegui - Head of ITS and Engineering, Vicomtech New mobility and skills developments - changes, challenges and opportunities: A CCAM perspective 								
	 Oscar Mellegers - Director Product Management, Verra Mobility The price of shared mobility 								
	 Franco Rosso - International Sales & Business Development Manager, ioki - a DB company How DRT services can strengthen public transport systems 								



Webinar 2:New Mobility Services

#ITSLisbon2023





House Rules

- ☐ All attendees will be muted 'in listen only mode'
- ☐ The webinar will be recorded & shared through ERTICO's communication channels
- □ Please type in your questions in the Q&A window of Teams or email congresspr@mail.ertico.com











Making mobility smarter, safer & more sustainable

Joost Vantomme, CEO ERTICO-ITS Europe 23rd February 2023



ERTICO: a unique public private partnership

Bringing together
120 Partners from 8 sectors since 1991
to make mobility smarter, cleaner, safer
and more efficient.

Geographical scope: EMEA

www.ertico.com





















Automated driving



Drones



Data exchange



Traffic management



Artificial Intelligence



Mobility as a Service



Transport and Logistics



Intelligent Transport Systems



Navigation



Intelligent Infrastructure



Safety



Multimodality



Payment Systems



V2X Communication



eMobility



2023: gearing up for increased traction

Digital

Green

Urban

People & freight/logistics

Inclusion

Increased dialogue & partnerships









Innovation

Technology

Policy



Exhibition/ demonstrations

Conference sessions

Networking



Lisbon hosting the game

- Lisbon is committed to being carbon neutral by 2030 and set an example of how cities can address the global challenge of climate change.
- The strategy is focused on **promoting renewable energy** and enhancing the **resilience of its infrastructure**.
- Achieving carbon neutrality includes developing a sustainable mobility plan that promotes walking, cycling and public transportation.

Lisbon has

a modern and efficient transportation system; state-of-the-art infrastructure; vibrant cultural and economic environment; Making it

an ideal location for hosting an international conference on ITS

Source: ITS Portugal







The 15th ITS European Congress

#ITSLisbon2023



High Level Programme

Smart Mobility
Summit of Cities &
Regions,
Plenaries, Opening
& Closing
Ceremonies



Technical Programme

Sessions and presentations on the latest developments in ITS



Exhibition

Booths and dedicated events



Demonstrations

Showcases of current ITS technology being developed and deployed throughout Europe Social Events

Associated Events

CONNECTING THE DOTS....



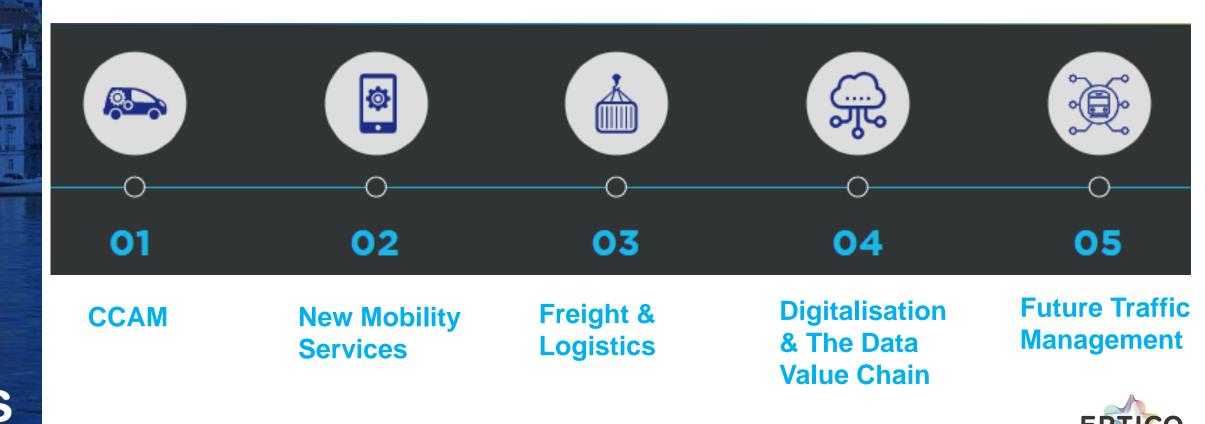
		Pi	rogramme at a (Slanc	e	of the ITS European C	ong	ress	2023				
		Monday 22 May				Tuesday 23 May	Wednesday 24 May						
	08:00 08:15 08:30	Breakfast sessions 8:00-9:00				Breakfast sessions 8:00-9:00			Breakfast sessions 8:00-9:00				08:00 08:15 08:30
Ф	08:45 09:00 09:15 09:30 09:45					Plenary 2: 9:00-10:00			Specialist sessions 9:00-10:00				08:45 09:00 09:15 09:30 09:45
	10:00 10:15					Coffee break			Coffee break	<mark>-</mark>	00	F	10:00 10:15
an	10:30 10:45 11:00 11:15	Specialist sessions 10:30-11:30	Smart Mobility Summit of CITIES & REGIONS 9:30-13:30	of 18:00		Specialist sessions 10:30-11:30		0-18:00	Specialist sessions 10:30-11:30		Demonstrations & Technical Visits 8:30 – 17:00	00	10:30 10:45 11:00 11:15
S	11:30 11:45 12:00 12:15 12:30 12:45	Specialist sessions 11:45-12:45		Technical Visits 08:30		Specialist sessions 11:45-12:45	-18:30	08:30 – 18:30	Specialist sessions 11:45-12:45	.18:30		Public Day 08:30 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1	11:30 11:45 12:00 12:15 12:30 12:45
at a	13:00 13:15 13:30 13:45	Lunch break 12:45-14:00	Summit Lunch	& Technica		Lunch break 12:45-14:00	on 08:30		Lunch break 12:45-14:00	Exhibition 08:30 –			13:00 13:15 13:30 13:45
е В	14:00 14:15 14:30 14:45 15:00	Specialist sessions 14:00-15:00		12:00 – 19:00 Demonstrations &		Plenary 3: 14:00-15:00	Exhibition	Demonstrations &	Specialist sessions 14:00-15:00		Demonstra		14:00 14:15 14:30 14:45 15:00
E L	15:15 15:30 15:45 16:00 16:15	Plenary 1: 15:15-16:15	Exhibition 12:00			Specialist sessions 15:15-16:15		Demo	Plenary 4: 15:15-16:15				15:15 15:30 15:45 16:00 16:15
	16:30 16:45	Opening Ceremony & Ribbon	X hib			Coffee break			Closing Ceremony 16:15-17:00			-	16:30 16:45
<u>g</u>	17:00 17:15	Cutting 16:30-17:45				Specialist sessions 16:45-17:45			Exhibition closing / farewell reception				17:00 17:15
5	17:30 17:45 18:00								17:00-18:00				17:30 17:45 18:00
0	18:15 18:30	Exhibition Welcome reception 17:45-19:00		3 E									18:15 18:30
	18:45 19:00				╡.						\Box	ightharpoons	18:45 19:00
	19:15 19:30								Dismantling exhibition				19:15 19:30
	19:45 20:00 20:15 20:30	45 00 15 VIP Dinner				Gala Dinner			Dismanting exhibition				19:45 20:00 20:15 20:30
	22:00												22:00

EUROPEAN CONGRESS



Congress Topics

ITS: The Game Changer



Congress Plenary



1. Digitalisation - What can we expect?

22 May 2023, Monday, 15:15-16:15

SPEAKERS: SWARCO, DG-CONNECT, ERTICO, HUAWEI



2. CCAM - How green can we go?

23 May 2023, Tuesday, 09:00-10:00

SPEAKERS: QUALCOMM, DG-RTD, INFRASTRUCTUREUS PT





3. Integrating Road, Rail, Air, Waterborne - Multimodality, by any means?

23 May 2023, Tuesday, 14:00-15:00

SPEAKERS: EUROPE'S RAIL JOINT UNDERTAKING, IMT



4. Managing Urban Mobility Space – What can we expect from the cities in the future?

24 May, Wednesday, 15:15 - 16:15

SPEAKERS: TRANSPORT FOR LONDON, CTAG, CITY OF HAMBURG



High Level Speakers (1)



Pearse O'Donohue
Director, Future Networks
Directorate, DG CNECT
European Commission



Prof João Caetano
Chairperson of the Board at IMT
IMT (Instituto da Mobilidade
e dos Transportes)



Jan Ellsberger
Vice President Industry
Development
Huawei



Jenny Simonsen
Chief Operating Officer
(Moderator)
ITS Norway



Miroslav Haltuf
Acting Chair of the States
Representatives Group
Europe's Rail Joint

Undertaking



Stephanie Leonard

Head of Government and

Regulatory Affairs (Moderator)

TomTom



High Level Speakers (2)



Torsten Klimke
Head of the Innovation and
Research Unit, DG MOVE
European Commission



Rosalinde van der Viles
Director of Clean Planet, DG RTD
European Commission



Martin Huber

Head of Traffic & Roads

BVM (Authority for Mobility

Transition), Free and

Hanseatic City of Hamburg



Francisco Sánchez Pons
Electronics, ITS & Smart Mobility
Director
CTAG



Joost Vantomme
Chief Executive Officer
ERTICO



Michael Schuch
Chief Executive Officer
SWARCO AG





22nd May Keynote Speaker Torsten Klimke, DG MOVE, European Commission

- A forum to support the smart mobility agenda of local authorities
 - city and regional authority decision makers meet to share best practices and success stories, identify gaps and seek Smart Mobility Solutions that best meet their citizens' needs
- 4 Thematic table discussions
 - allocating city road space
 - setting and using smart mobility indicators
 - collecting and using mobility data
 - transitioning to sustainable mobility









Technical Programme

The Technical Programme will include a range of specialist sessions that offer expert from the ITS community an opportunity to address the status of mobility from a technical perspective, focusing on research and innovation, and the impact related to the deployment of new technologies

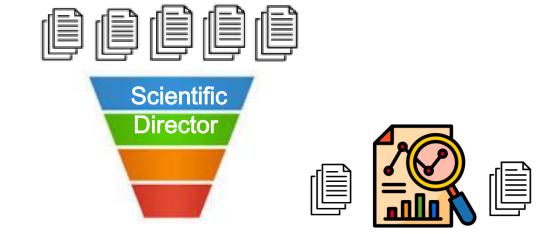
- ✓ Specialist Interest Sessions | SIS
- ✓ Strategic Future Sessions | SFS
- ✓ Technical | Research Paper Sessions
- ✓ Start-up Presentation Sessions







Technical Programme - Selection Process











8 March Validation of provisional status of all contributions

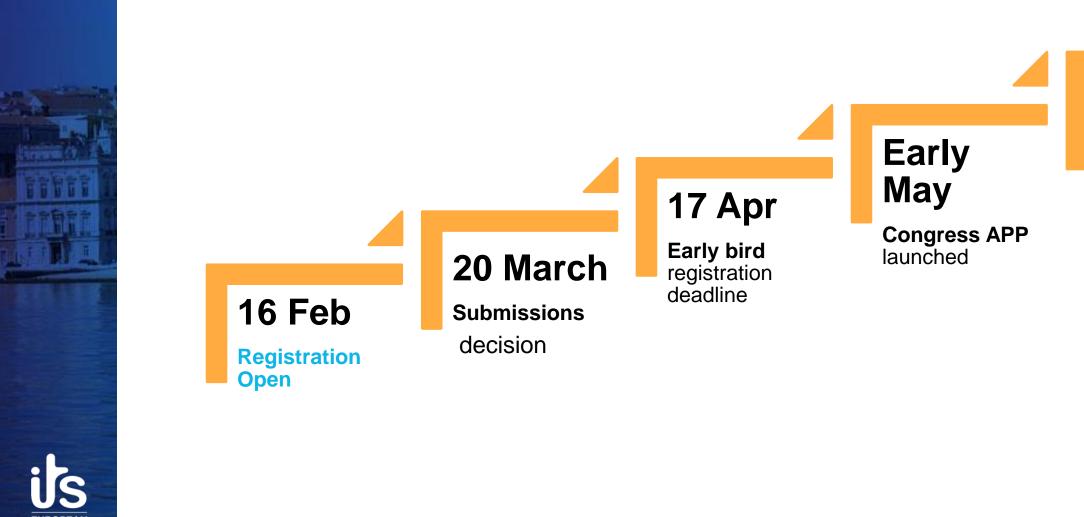
European Programme Committee Members



From 20 March Decisions sent to submitters



Time Line



22 May

Congress opens

Registrations

16 Feb | Opening of registration

17 April | Early bird Rates

18 April to 8 May | Standard Rates

As of 9 may | Full Rates





Delegate tickets



Exhibitor tickets



Visitor tickets:

Full access - Access to Exhibition, Demonstration, High level programme, technical sessions, catering included

Access to Exhibition, Demonstrations & High Level Programme !! For confirmed exhibitors - reduced delegate tickets available

Access to Exhibition, Demonstrations & High Level Programme



ITS Lisbon Sponsors

Showcase Partners





Carrier Partner



Engagement Partners









General Partners



























































ITS Lisbon Exhibitors 2

#ITSLisbon2023







































Social Events

Join us!

22nd May | Welcome Reception

23rd May | Gala Dinner

24th May | Farewell Reception







Communication Channels

#ITSLisbon2023



Website

itseuropeancongress.com ertico.com

Newsletter

erticonetwork.com

LinkedIn

ERTICO - ITS Europe

Twitter

#ITSLisbon2023







































Be part of the ITS European Congress 2023

ITS: The Game Changer.

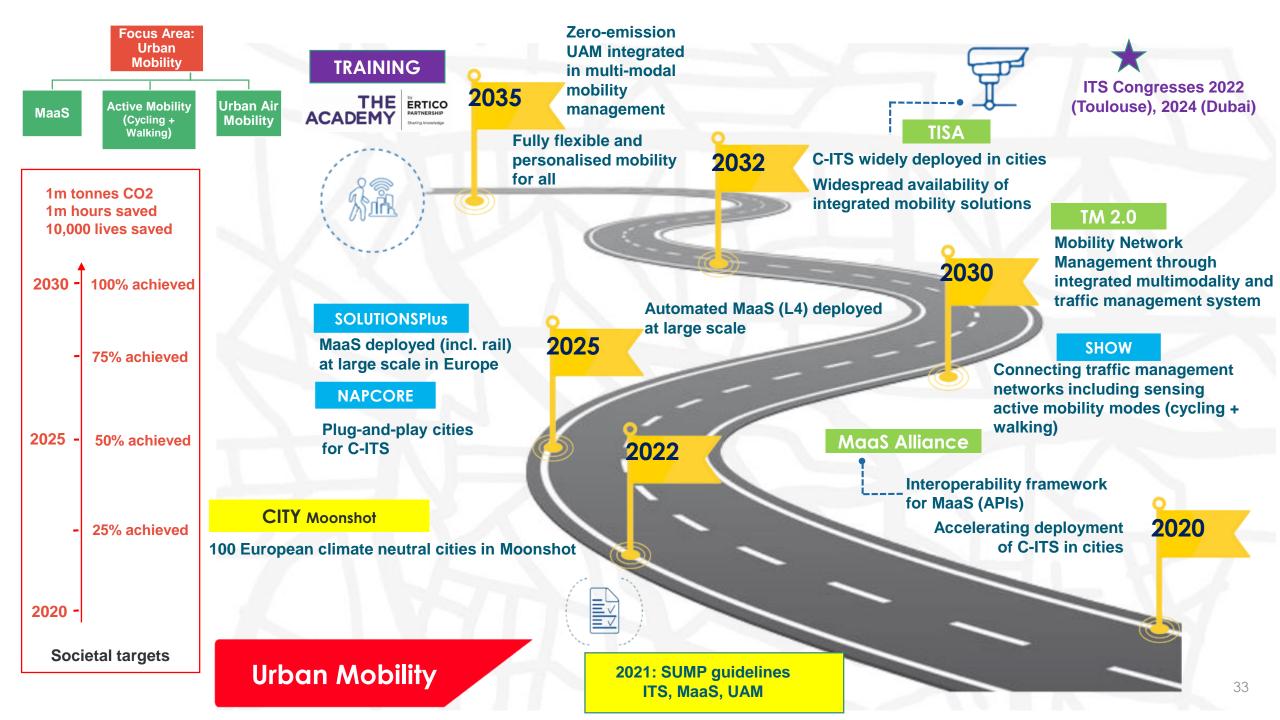
www.itseuropeancongress.com

Follow us: #ITSLisbon2023









Real world urban mobility demonstrations

And knowledge sharing / capacity building





















Speakers



Petra Söderqvist
Policy Officer
European
Commission



Dr Oihana Otaegui
Head of ITS and
Engineering
Vicomtech



Franco Rosso
International Sales &
Business Development
Manager
Ioki



Oscar Mellegers
Director of Product
Management Europe
Verra Mobility





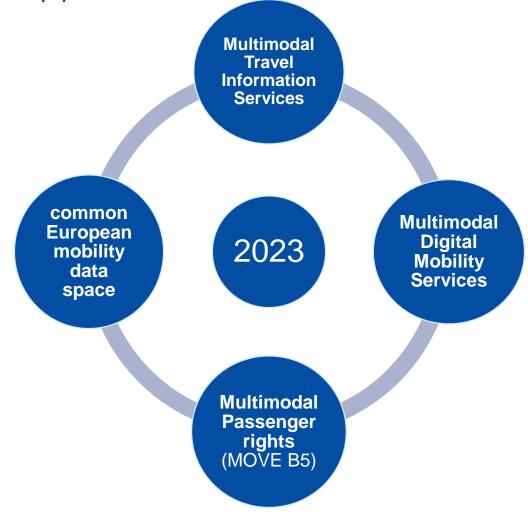
- what's in the Commission pipeline 2023

Petra Soderqvist

DG MOVE, Unit B4 Sustainable and Intelligent Transport

Brussels, 23 February 2023

- what's in the Commission pipeline 2023?





- what's in the Commission pipeline 2023?

Multimodal
Travel
Information
Services
(MMTIS)

- European Green Deal
 - Multimodal transport needs a strong boost
 - Automated and connected multimodal mobility will play an increasing role
- Sustainable and Smart Mobility Strategy
 - Flagship 6: 'Making connected and automated multimodal mobility a reality' (action 36)
- Revision of Delegated Regulation 2017/1926, priority (a) under the ITS Directive
- Main change mandatory accessibility of dynamic data
- Planned date for adoption Q2 2023 (tbc)



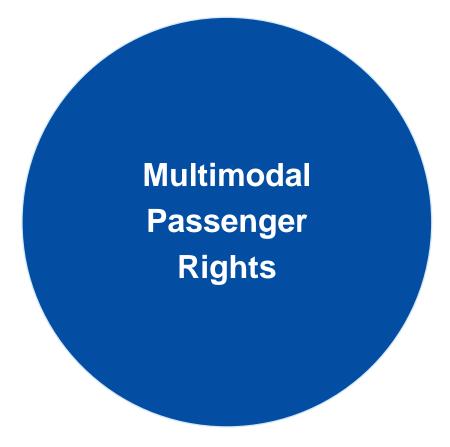
- what's in the Commission pipeline 2023?

Multimodal
Digital
Mobility
Services
(MDMS)

- New legislative initiative
- Sustainable and Smart Mobility Strategy
 - Flagship 6: 'Making connected and automated multimodal mobility a reality' (action 37)
- EU framework to increase the deployment of digital mobility services within and across modes
 - To improve multimodality and sustainability
 - Addresses market challenges for MDMS
 - Information, booking, payment
- Planned date for adoption Q2 2023 (tbc)



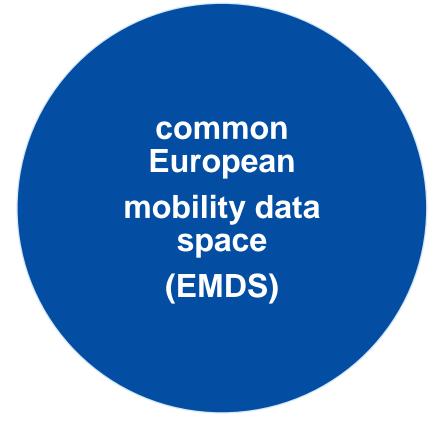
- what's in the Commission pipeline 2023?



- Sustainable and Smart Mobility Strategy
 - Boost multimodal transport
- Review of the passenger rights regulatory framework
 - Options for multimodal ticketing
- Coherence with other multimodal initiatives (MDMS)
- Planned during 2023 (tbc)
- (DG MOVE Unit B5 in charge)



- what's in the Commission pipeline 2023?



- Communication
- Announced in the European strategy for data
 - To facilitate access, pooling and sharing of data from existing and future transport and mobility data sources
- Main objectives
 - Identify crucial data and increase their availability to support services considered essential across the EU's territory, covering themes from sustainability to multimodality
 - Help users in the discovery of available data sources
- Reference to MMTIS and MDMS
- Planned date for adoption Q2 2023 (tbc)

Thank you!



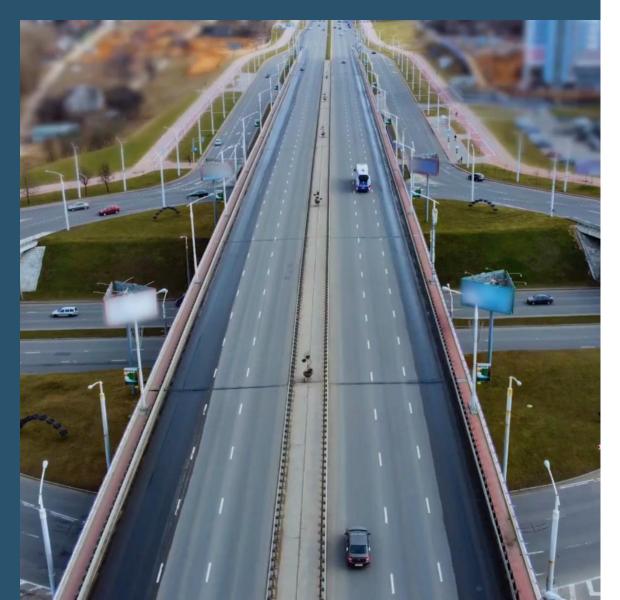
© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.









New mobility and skills developments changes, challenges and opportunities

A CCAM perspective

Dr. Oihana Otaegui

ITS and Engineering Director ootaegui@vicomtech.org

A revolution in the automotive industry is taking place ...

In the past

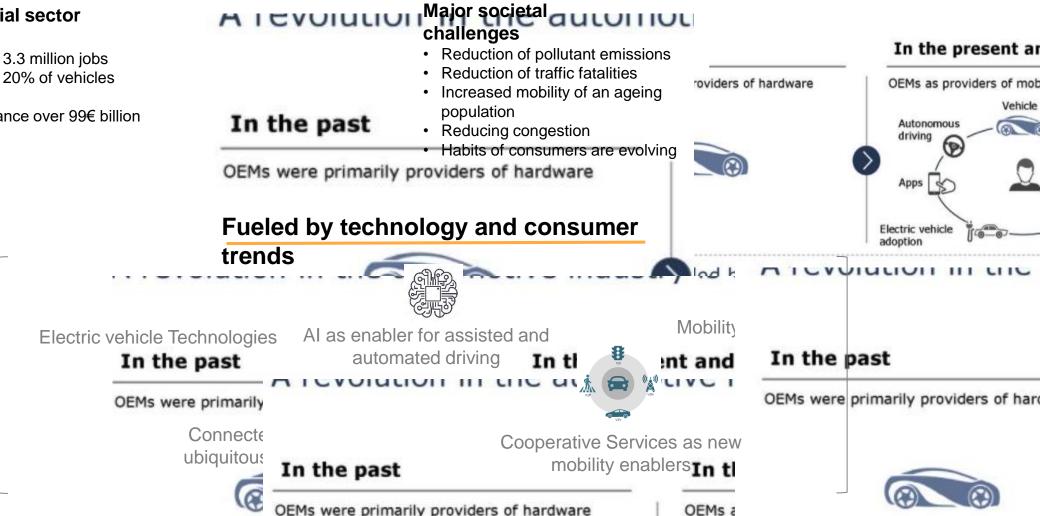
OEMs were primary providers of hardware

In the present and future

OEMs as providers of mobility solutions

Key industrial sector in Europe

- Securing 13.3 million jobs
- Producing 20% of vehicles worldwide
- Trade-balance over 99€ billion



02- MONITORING & PREDICTIONS

Infrastructure

On-board

01- INTELLIGENT SENSORS

BackOffice applications Traffic Analysis & Simulation Event prediction



Mono & Stereo vision, multicamera analysis, Detection, tracking and identification, Behavior analysis, Event detection



03- EMBEDDED SENSORS

Smart Vehicle

(((o)))





V2X, 5G, C-ITS, Cooperative Systems



Lane Departure, Forward Collision, Pedestrian detection, Traffic Sign recognition, Simultaneous localization and mapping Odometry, Slippery detection

Floating Car Data

06- DATA

MANAGEMENT

Data Analysis & Exploitation

05- DATA ACQUISITION



Track data generation, real time data management, Cartography, GIS

Cartography, GIS management, Custom Tile Services, Distributed Processing Data Analytics

> Advance Algorithms

07- PLANING & OPTIMIZATION

Smart Road Infrastructure

08- VISUALIZATION

Dashboards, Indicators, etc. Track data generation, real time data management, Cartography, GIS



Protect data, and other assets Anomaly Discovery Attack detection and contemeasures



Backend Services: Continuous Improvement







ADAS & Automatisation

Connectivity

Smart Infrastructures













Electric Powertrain



Battery Systen



BHDC





Maps

Energy generation



SmartGrids

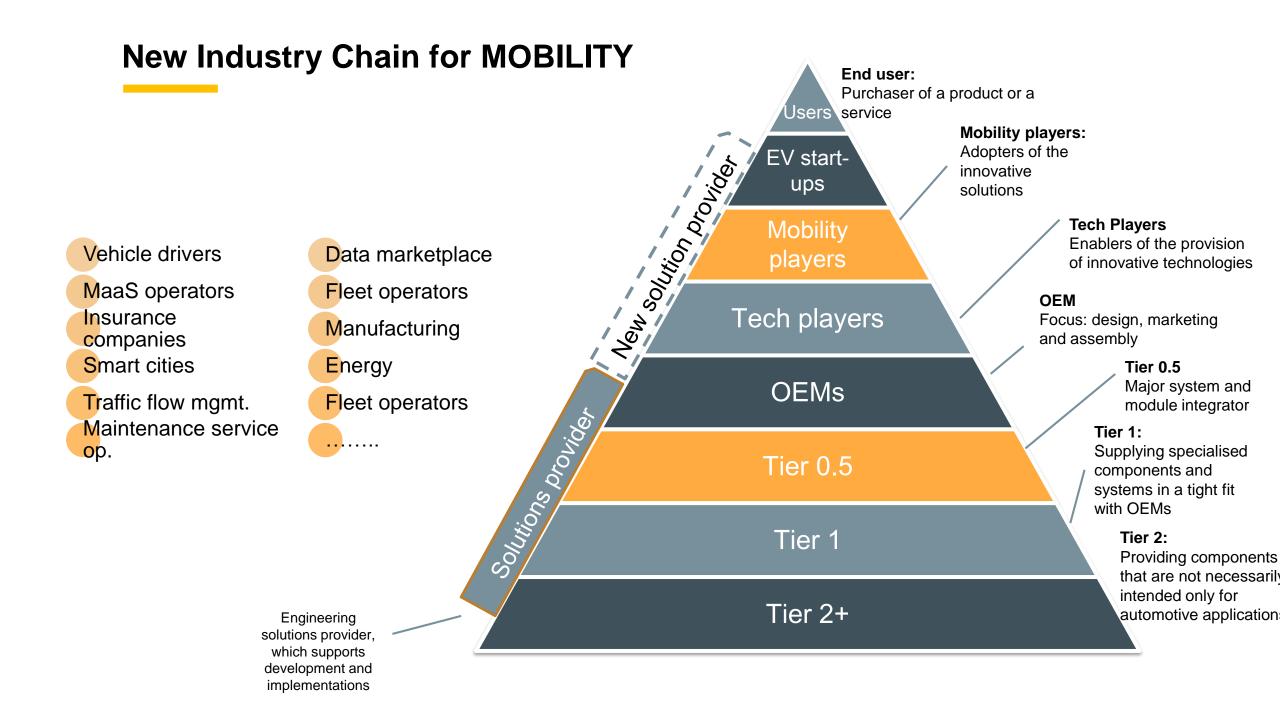


Charging stations



Storage



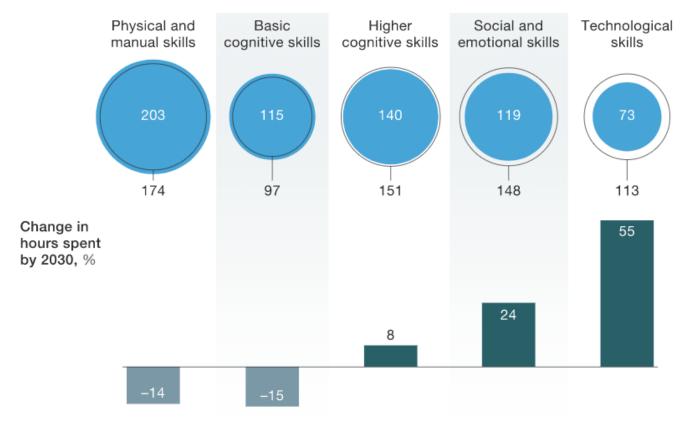


The shift towards automation in transportation and mobility is expected to eliminate jobs ... but it also creates a lot of new opportunities

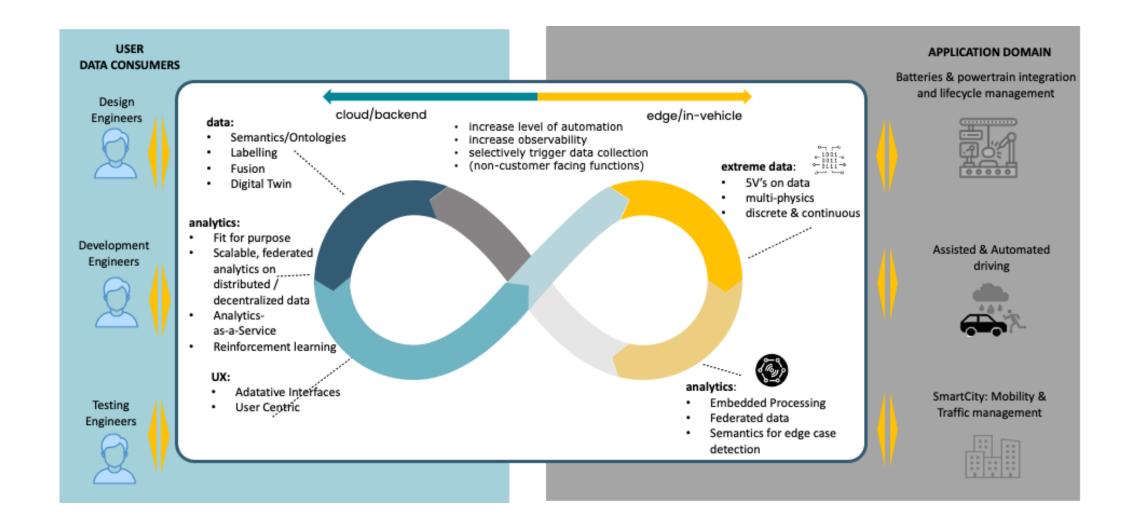
PEOPLE: Evolve/develop new technological as well as social and emotional skills - Members of the workforce who will be impacted need to be trained in the new key areas and

COMPANIES: rethink how work is organized within their organizations.

The shift towards automation in transportation and mobility is expected to eliminate jobs ... but it also creates a lot of new opportunities



Skills & Technology





Thank you!

DIRECCIÓN Paseo Mikeletegui 57 San Sebastián



→ ootaegui@vicomtech.org







VERRA MOBILITY EUROPE

Making mobility safer and easier

We solve complex payment challenges for shared vehicles.

We enable authorities to manage and enforce traffic management programs.

Local presence

- > Amsterdam, Netherlands (Europe HQ)
- > London, England
- > Paris, France

- > Budapest, Hungary
- > Madrid, Spain
- > Lisbon, Portugal
- > Dublin, Ireland





Increasing complexity of RUC

- > EETS Directive
- > Environmental concerns, congestion
- > Shift to distance-based toll pricing
- > Shared mobility challenges







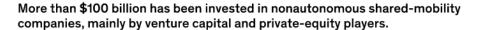
Shared mobility is here



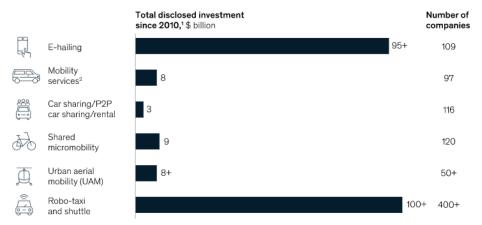




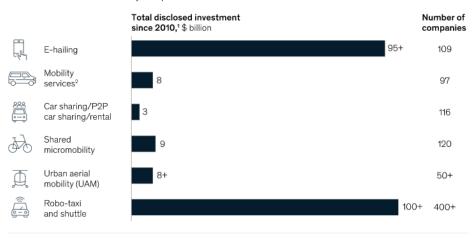




Investments in shared-mobility companies since 20101



Investments in shared-mobility companies since 2010



Total disclosed investment amount since 2010 by investor type, percent of total3

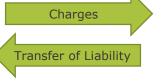
72







Road User Charger



Vehicle Owner

Charges

Driver 1 Driver 2

Driver 3







Environmental conservation

Public safety

Interoperability

Collections





See you in Lisbon!



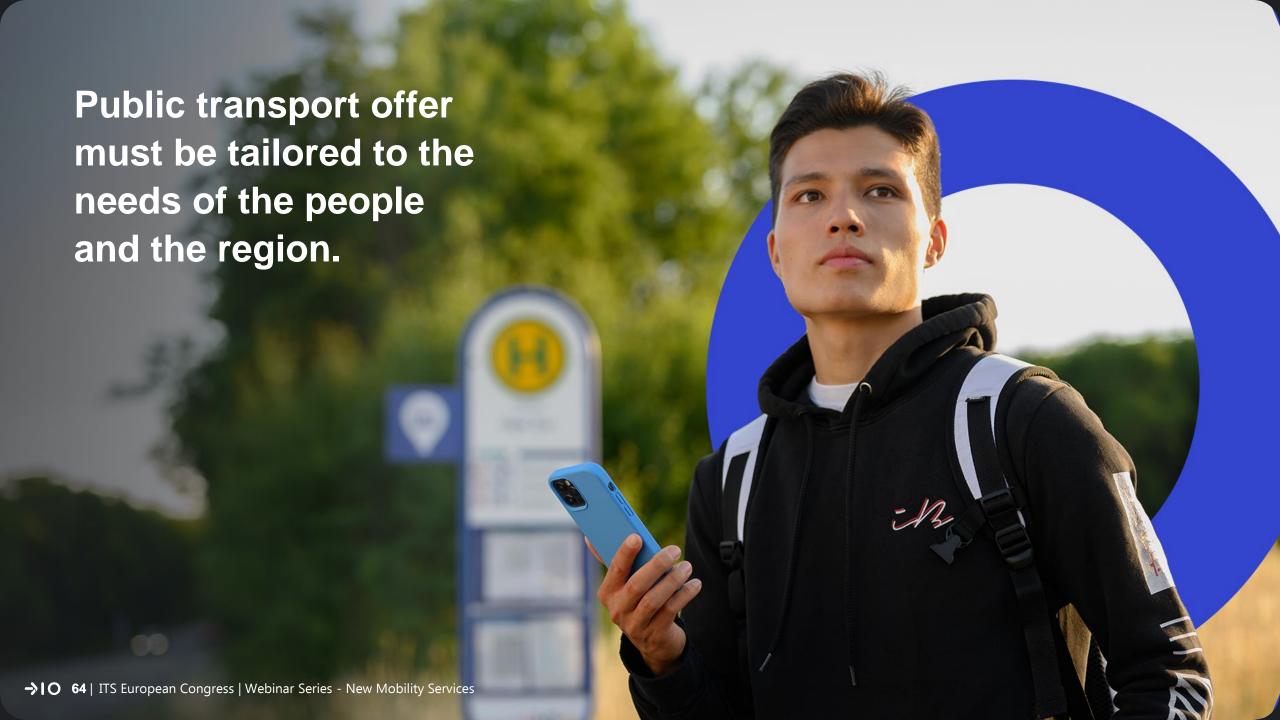




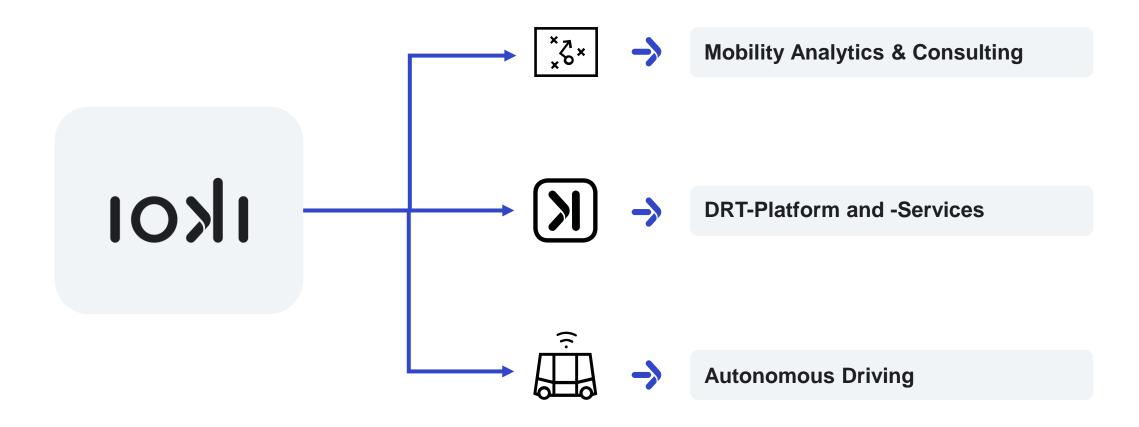


How DRT can strengthen public transport services

Franco Rosso | ioki

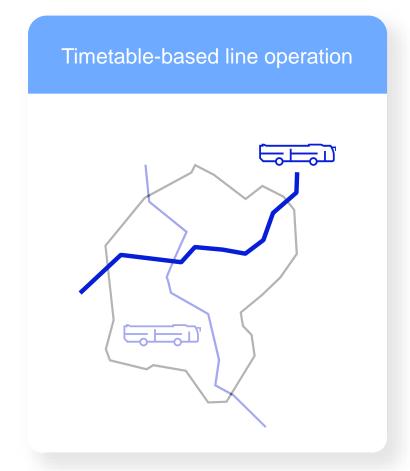


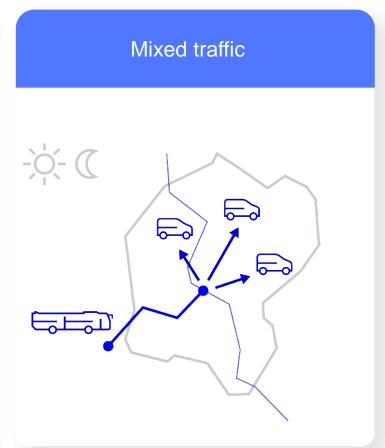
ioki supports local authorities and transport companies to build sustainable public transport solutions

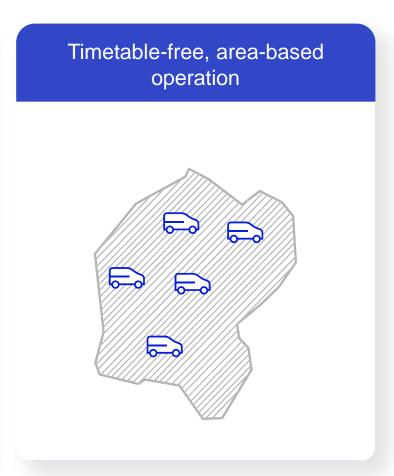


Timetable-based scheduled and timetable-free area transport

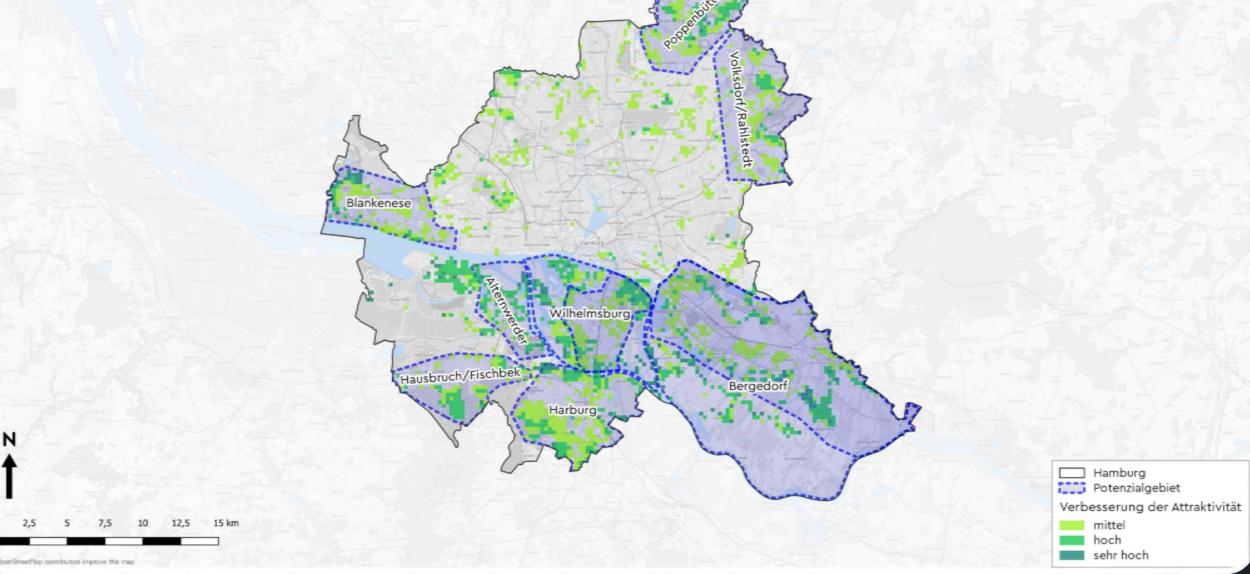
Mixture in one area







DRT Feeder Service Areas can strengthen the PT network by reducing door-to-door travel times



DRT Shuttles improving Hamburg's mobility offer



Verkehrswendepreis & German Mobility Award

Key facts

- Services areas: 5
- Emission free vehicles: approx. 20
- Passenger km: +2,6 Mio. (End October 2022)
- Passengers: > 820.000 (End October 2022)
- Average waiting time: < 5 min

Usage Behaviour

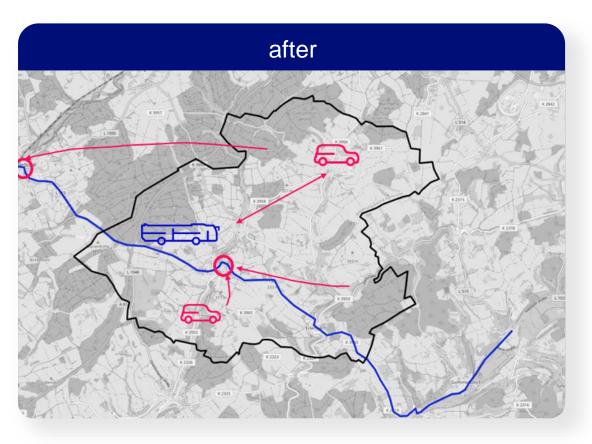
- 72% of passengers let themselves be transported to the next public transport stop
- 88% of passengers use an VHH season ticket
- every fourth passenger replaces the journey by car with the shuttle service
- 50% of passengers use the service daily



Substitution of existing lines is another way to strengthen public transport with DRT

Partial replacement of bus lines by integrated DRT





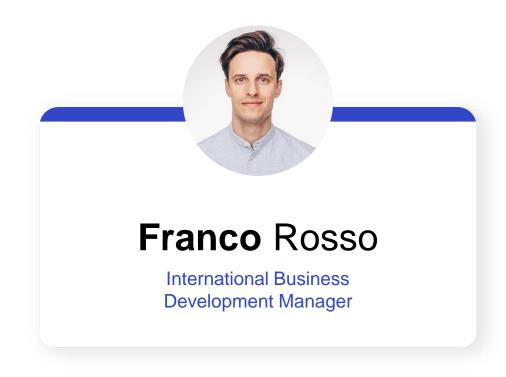
DRT services improving regional mobility offer

- Rural transport in Castilla-La Mancha region
- 11 vehicles
- The service connect 112 Municipalities with Cuenca
- Stop-to-stop service
- The service works as line-based and on-demand depending on the moment of the day
- On-demand service with the largest operational area in Spain



Flexible, customised and integrated solutions are the key to success – What is important to you?

We look forward to discussing our findings at the ITS European Congress



Questions & Answers

#ITSLisbon2023



ANY QUESTIONS?

Q&A window of Teams OR

email congresspr@mail.ertico.com





