GLOBAL TOLLING & MOBILITY NEWSLETTER

A SCAN OF TOLLING & MOBILITY DEVELOPMENT AROUND THE GLOBE

SUMMER 2017

Prepared by:
Klaus Schierhackl, IBTTA International Vice President
CEO, ASFINAG, Vienna, Austria

Supported by: Pia Brandstetter, Nika Hayden and René Moser (all ASFINAG)
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ABOUT IBTTA
The International Bridge, Tunnel and Turnpike Association (IBTTA) is the worldwide association for the owners and operators of toll facilities and the businesses that serve them. Founded in 1932, IBTTA has members in 25 countries on six continents. Through advocacy, thought leadership and education, members are implementing state-of-the-art, innovative user-based transportation financing solutions to address the critical infrastructure challenges of the 21st Century.
INTRODUCTION / EXECUTIVE SUMMARY

The summer edition of the Global Tolling & Mobility Newsletter covers a wide range of exciting topics. The following summary gives an insight in the current intensely discussed highlights of Africa, Asia, Oceania, Europe and North as well as South America.

Moving Smarter: To increase the traffic flow at peak periods road improvements and road projects have been implemented in Africa and now been awarded. In South America, road congestion is a growing problem and a series of road projects are being planned to increase capacities. In North America Colorado is reducing traffic jams in mountainous regions by tolling express lanes and Virginia is testing driverless cars in HOT lanes. In Australia, driverless shuttle busses were tested and in New Zealand a smart transport project to investigate smarter transport pricing has been established. In Europe, more than 2,800 people attended the ITS European Congress held in Strasbourg, France in June. Finally, Ford Motor will launch a new “Smart Mobility” Office in London.

Tolling and Interoperability: These have become fundamental topics to road operators all around the globe. In Africa, the search for toll operators on Kenya’s busiest transport corridor that also serves neighboring countries has begun. Further, the concessionaire of the toll road linking Mozambique and South Africa recently announced that it would increase toll tariffs. To improve infrastructure a lot of road connecting projects are set up and a toll road is typically implemented to recoup the cost of road construction and maintenance – this is so in Asia, Oceania and Europe. In North America IBTTA is supporting Trump’s proposal to reduce restrictions on interstate tolling.

Technology: This sector is being dominated by the topic of autonomous driving. Furthermore, Volvo plans to launch its first electric passenger car in China in 2019 and a smartphone-based drowsy-driving detection system is being developed in Hong Kong. In Europe, the European Commission has adopted a long-term strategy to deliver smart, socially fair and competitive mobility by 2025. Further, a trial of “electronic road” technology has been conducted to demonstrate how vehicle batteries can be recharged while in motion. A research team at Stanford University is working on the same topic — recharging electric vehicles while driving. North America has drafted some bills regulating the development and testing of autonomous vehicles.

Finance and Funding: In Africa, projects on a new Cameroon highway and in Kenya a development project of the Mombasa Port Area Road are being planned. Looking closer to Oceania, in Australia, a road widening project is being planned and in Asia, the Indian State is profiting from highway developments. In Europe, the EIB lends Romania EUR 1BN to co-finance transport infrastructure projects with EU grants. Whereas in Ireland, the government is boosting the road and transport budget. In North America, a highway expansion project in the Los Angeles area is being planned and the Transportation Commission has decided to toll some parts of a road extension to Texas. In South America, Nicaragua route financing is secured and Paraguay’s new highway projects are being funded.

Policy and Legislation: In Africa, the focus is on new motorway construction. In Asia, two Thai highways are being approved and Vietnam’s road safety is improving steadily. In Europe, the European Commission is proposing new rules for road charging systems and Greek motorway operators want flexibility over the life of a concession. In North America, any actions on the Trump administration’s proposals for infrastructure investment will probably be pushed into year 2018. Moreover, a 10-year transport plan has been outlined in South Carolina to address inadequate bridges. In South America, a stalled Guatemalan highway project is causing serious problems whereas work on Bogota highways is commencing.
MOVING SMARTER

AFRICA

ANGOLA ROAD PROJECTS ARE BEING AWARDED

In Angola’s capital Luanda, three key road projects have now been awarded, with the work intended to help improve urban traffic flow and cut congestion at peak periods. One project will be carried out by the Chinese contractor “China Railway 20 Group International.” Contractor Tecnovia Angola will handle the work for the other two projects.

KENYA CONNECTION UNDER CONSTRUCTION

Construction work is underway on the road improvement project between Kenya’s premier port of Mombasa and the town of Mariakani. The project will see the A109 route being widened and upgraded and is costing nearly US$ 59 million.

ASIA AND OCEANIA

CONSORTIUM TO CONDUCT ‘PROOF OF CONCEPT’ AUTONOMOUS VEHICLES TRIALS AT AUSTRALIAN UNIVERSITY

A consortium of leading commercial partners and technical experts will conduct a trial of autonomous vehicles in the Australian State of Victoria to explore the use of driverless shuttles in the context of a university’s student mobility requirements.

Key industry partners, including RACV (Royal Automobile Club of Victoria), ARRB (Australian Road Research Group), Keolis Downer, and New Zealand Company HMI Technologies have launched the first ‘use case’ trial for autonomous vehicles (AVs) in Australia.

NEW ZEALAND GOVERNMENT LAUNCHES SMARTER TRANSPORT PRICING PROJECT

The New Zealand government and Auckland Council have agreed on Terms of Reference to establish a project to investigate smarter transport pricing in the country’s largest and most populous city. Auckland’s Smarter Transport Pricing Project will undertake a thorough investigation to support a decision on whether or not to proceed with introducing a pricing for demand management system in the city.

EUROPE

ITS EUROPEAN CONGRESS IN STRASBOURG EXCEEDS EXPECTATIONS

This year the ITS European Congress exceeded all expectations by reaching 2,826 registrations including 952 delegates and 27 media professionals and journalists. Over 100 companies and organizations from 50 countries showcased the latest developments in intelligent mobility in the 5000sqm exhibition space at the Strasbourg Convention and Exhibition
Centre. The delegates could choose from 100 sessions including Plenary, Executive, Technical, Scientific, Commercial and Projects sessions. Among the key topics, Connected and Automated Driving was the most popular followed by Mobility Services and Transport Network Evolution.

**FORD LAUNCHES A ‘SMART MOBILITY’ OFFICE IN LONDON**

Ford Motor is opening a new office in London focusing on future mobility solutions for Europe, as the city seeks to cement its place as a tech investment center one year after the Brexit vote.

Ford's new venture will hire around 40 specialists and open later this year, and is the automaker’s third such "smart mobility” office. The others are in Dearborn, Michigan, and Palo Alto, California. Ford is set to trial a plug-in hybrid transit fleet in the UK this year. "Basing our rapidly growing team here in the heart of mobility innovation in London is critical to accelerating our learning and development of new technologies,” said Steven Armstrong, Ford’s Europe chief, in a statement.

**NORTH AMERICA**

**TOLLED EXPRESS LANE REDUCES TRAFFIC IN THE MOUNTAINS OF COLORADO**

Traffic has increased on Colorado's Interstate 70, and use of the two-year-old, 13-mile-long Mountain Express Lane has doubled. About 8 percent of motorists traveling during peak times use the shoulder lane and cut up to 52 percent off their commuting time.

**VIRGINIA TO TEST DRIVERLESS CARS IN HOT LANES ON HIGHWAYS**

Virginia will soon test self-driving cars in high-occupancy toll lanes on interstates 495 and 95 to see if their use can reduce traffic accidents, says Cathy McGee of the state Department of Transportation. These tests will first be conducted on closed roads, and a driver will be behind the wheel, but the vehicle itself will take over some functions.

**SOUTH AMERICA**

**CHILE’S CROWDED ROADS FACE FURTHER CONGESTION**

Road congestion is a growing problem in Chile as the country’s vehicle fleet is fast outstripping road capacity. In 15 of the county’s major urban areas, the vehicle fleet is growing 10 times quicker than the rate of road construction. This finding is based on a study carried out between 2010 and 2015 by the Secretariat for Transportation Planning (SECTRA).
ARGENTINA ROAD PROJECTS BEING DEVELOPED AS PPPS

Argentina is planning a series of road projects stretching for a total of 5,500km and worth US$ 4.12 billion in all over four years. These will be PPP projects and include eight key road corridors, with 1,300km of the routes being multi-lane highways.

TOLLING AND INTEROPERABILITY

AFRICA

SEARCH FOR TOLL OPERATOR ON KEY KENYA ROADS BEGINS

The search for a private company that will manage the Mombasa-Nairobi and the Nairobi-Nakuru-Mau Summit highways once they are converted into pay-to-use roads has begun, bringing close the reality of tolling on Kenya’s busiest transport corridor that also serves neighboring countries. The Treasury has advertised for a consultant who will conduct feasibility studies on the tolling project and thereafter help recruit an operator. The consultant will offer the advisory services over a period of one year during which construction on the two key highways is expected to have started, according to the advert in the local dailies.

ROAD TOLL BETWEEN MOZAMBIQUE AND SOUTH AFRICA INCREASES

The concessionaire of the toll road linking Mozambique and South Africa announced that it would increase tolls to a minimum of 30 meticais (US$ 0.5) and a maximum of 1,500 meticais (US$ 24.6).

ASIA AND OCEANIA

NEW ZEALAND CITY TO STUDY CONGESTION TOLLING

Government agencies in Auckland, New Zealand, are expected to form a group that will look at the use of congestion tolling in the region. The city’s mayor has warned that the city faces a $5 billion shortfall in infrastructure funding and increased pressure from population growth.

COMPANIES VIE FOR TOLL ROAD IN THE PHILIPPINES
http://business.inquirer.net/230768/p27-b-manila-tagaytay-toll-road-eyed

San Miguel Corp. has submitted a proposal to the Philippine government to build a toll road that would connect Tagaytay to metro Manila. However, Metro Pacific Investments Corp. has said it will submit a plan for a similar road.

EUROPE

IFM PURCHASES M6 TOLL ROAD IN THE UK

The 27-mile route between Cannock and Coleshill in the West Midlands opened in 2003 has been sold. It was put up for sale for nearly £2bn (US$2.6 bn) last year after a consortium of 27 banks effectively took ownership from Midlands
Expressway Ltd. The road is now owned by IFM – owners of Manchester Airports Group, Anglian Water and Arqiva – which runs the transmitters used for BBC broadcasts.

**TURKEY EARN $124 MILLION IN BRIDGE, HIGHWAY TOLLS**
https://www.dailysabah.com/business/2017/05/24/turkey-earns-over-124-million-in-bridge-highway-tolls

Turkey earned over TRY 443 million (US$ 124 million) in tolls in the first four months of 2017, according to data released Tuesday by the Turkish Highways Directorate. The July 15 Martyrs Bridge and Fatih Sultan Mehmet Bridge, connecting Europe and Asia over the Bosporus, reaped around TRY 115.5 million, while highway tolls throughout Turkey yielded almost TRY 328 million from January to April, according to the data.

**NORTH AMERICA**

**IBTTA SUPPORTS TRUMP’S PLAN TO REDUCE RESTRICTIONS ON INTERSTATE TOLLING**

President Donald Trump’s outline of an infrastructure proposal gives states more flexibility to toll interstates, an idea that the International Bridge, Tunnel and Turnpike Association supports. "Toll financing may not be the answer for every highway, bridge, or tunnel project in the country, but the power of tolling is proven and effective," said Patrick Jones, the organization’s Executive Director and CEO.

**KAPSC TO OPERATE RHODE ISLAND’S NEW TRUCK-ONLY TOLLING SYSTEM**

Kapsch TrafficCom has been awarded a contract by the Rhode Island Department of Transportation (RIDOT) to design, install, operate and maintain its new state-wide truck-tolling system. The new system will be a truck-only tolling program, and is part of Rhode Island’s larger ‘RhodeWorks’ initiative, which aims to strengthen the state economy by investing in repairs and upgrades to its transportation infrastructure. The all-electronic tolling (AET) system will use a single-gantry setup at 13 bridge and ramp toll points to enable free-flowing traffic, meaning that trucks can pay cashless tolls while traveling at highway speeds.

**TECHNOLOGY**

**ASIA AND OCEANIA**

**VOLVO CHINA ENVISIONS FUTURE WITH ELECTRIC VEHICLES**
https://www.greenbiz.com/article/electric-city-volvo-unveils-vision-clean-cars-buses-and-more

Volvo plans to launch its first fully electric passenger car in China in 2019 and has developed an electric bus being used in Sweden. The company announced last week that it will soon stop making diesel cars.

**HONG KONG UNIVERSITY DEVELOPS SMARTPHONE-BASED DROWSY-DRIVING DETECTION SYSTEM**

To reduce accidents caused by fatigued driving, researchers at the Hong Kong Baptist University have developed a system that detects drowsy drivers and alerts them using a generic smartphone. Developed by computer science professor, Cheung Yiu-ming and his team, the system recently won two top prizes at the 45th International Exhibition of Inventions of Geneva, and research team has already submitted a US patent application for the technology system.
EUROPE

“ELECTRONIC ROAD” TEST TRACK CREATED FOR ELECTRIC VEHICLES

Renault, Qualcomm, Vedeecom and others are conducting a trial of “electronic road” technology on a test track in Versailles, France. The trial is meant to demonstrate how the batteries of electric vehicles could be recharged while the car is in motion.

EC LAUNCHES ‘EUROPE ON THE MOVE’ STRATEGY FOR CLEAN AND CONNECTED MOBILITY

The European Commission (EC) is taking action for a fundamental modernization of European mobility and transport, with the aim of helping the sector to stay competitive in a socially fair transition toward clean energy and digitalization. Mobility has a major influence on the daily lives of European citizens and directly employs more than 11 million people. Yet, the sector is undergoing a number of technological, economic and social transformations whose pace is accelerating. To harness these changes, the Commission has adopted a long-term strategy, ‘Europe on the Move,’ to deliver smart, socially fair and competitive mobility by 2025. The EU will drive this transition through targeted legislation and supporting measures, including infrastructure investment, research and innovation.

NORTH AMERICA

CONGRESS PRODUCES FLURRY OF DRAFT BILLS RELATED TO AUTONOMOUS VEHICLES
https://www.bna.com/house-selfdriving-car-n73014453513/

The House Digital Commerce and Consumer Protection Subcommittee has drafted 14 bills related to autonomous cars, some of which would regulate the development and testing of the vehicles. And three senators are developing their own bills, which would clarify the roles of the state and federal governments.

RESEARCHES LOOK FOR WAYS TO CHARGE ELECTRIC VEHICLES ON THE GO

Researchers at Stanford University are looking at embedding electric currents in roads that would wirelessly recharge electric vehicles as they are driven. The team has only been able to make the process work at a low level, and it is working to increase the amount of energy that can be transferred.

FINANCE AND FUNDING

AFRICA

NEW CAMEROON HIGHWAY PROJECT PLANNED

Plans are being drawn up in Cameroon for the construction of a new highway that will connect Douala with Limbé. The French contractor Egis is now commencing work on a feasibility study for the project. The 70km highway will present some challenges as the project will have to cope with local environmental issues in western Cameroon’s delta area, as well as being designed to handle the region’s heavy seasonal rainfall.
Japan’s port of Mombasa will benefit from transport link improvements through a loan facility provided by Japan. The US$ 114 million loan from Japan is for a 30-year period and will pay for phase two of the Mombasa Port Area Road Development Project. This will pay for the construction of two sections of road of 7km and 9km and running from Mteza to Kibundani and Mwache Junction to Mteza respectively.

Asia and Oceania

South Australia Road Widening Project Planned

The widening of a 10km stretch of road connecting Aldinga with Seaford in South Australia is being proposed. The project is expected to cost US$ 231 million and will see the Main South Road from Aldinga to Seaford being doubled. This work will help in increasing safety, boosting capacity and cutting congestion in the area to the south of Adelaide. The project is expected to commence in 2019 but will require the compulsory purchase of land to allow the route to be widened by the necessary 30m.

Indian State of Rajasthan Sees Highway Development

India’s Rajasthan State is benefiting from new financing for its Highways Investment Program. A loan facility will pay for highway development work in the state. Approval has been given from the Asian Development Bank (ADB). Earlier this year the ADB approved a loan of US$ 220 million for a 22-year period with the Indian Government. In all, the work will cost $1.42 billion. The Indian Government will invest $465 million for the program, while other sources will provide $450 million. In all the plan will see 2,000km of state highways and major roads in Rajasthan being upgraded.

Europe

Romania: EIB Lends EUR 1bn to Co-Finance Transport Infrastructure Projects with EU Grants

The European Investment Bank (EIB) is lending EUR 1bn to co-finance with European Structural and Investment Funds priority transport infrastructure projects totaling EUR 6.8bn to be implemented across Romania during the 2014-2020 EU programming period.

Ireland Boosts Road and Transport Budget

The Irish Government is boosting its budget for transport spending by a further €1 billion. Key projects include the development of the M20 motorway, which has been identified as being crucial to Ireland’s future economic development. The urban transport system in Dublin also looks set to benefit from additional spending.
NORTH AMERICA

CONSTRUCTION TO BEGIN SOON ON $561.8M TEXAS TOLL ROAD

The Texas Transportation Commission has decided to toll parts of an extension to Texas 249 in Texas’ Grimes and Montgomery counties. Williams Brothers Construction and its partners will soon begin work on the $561.8 million design-build project and will earn an additional $30.9 million to maintain the road for 15 years.

HIGHWAY EXPANSION PROJECT IN LOS ANGELES AREA

A loan worth US$ 629 million will help pay for a highway upgrade for the I-405 route in Orange County, California. The stretch of I-405 connects with Costa Mesa, on the southern side of Los Angeles. The federal loan is being provided by the US Department of Transportation to the Orange County Transportation Authority (OCTA).

SOUTH AMERICA

NICARAGUA CAPITAL HIGHWAY ROUTE FINANCING SECURED

The financing package for a key highway project in Nicaragua’s capital Managua has now been secured. The Nicaraguan Government has agreed terms for two loans for the project, which involves repairing, upgrading and widening the Pista Juan Pablo II highway. One loan is from the European Investment Bank (EIB) and is worth US$ 136 million while the other is from the Central American Bank for Economic Integration (CABEI) and worth $105.5 million. The remainder of the financing required will be supplied by Nicaraguan Government funds.

PARAGUAY’S NEW HIGHWAY PROJECT RECEIVING FUNDING

Funding for a major highway project in Paraguay will be provided by Japan’s International Co-operation Agency. The project will cost US$ 176 million and involves building a 147km connection between the town of Natalio and the Los Cedrales District. The bids for the contract were announced in April 2017.

POLICY AND LEGISLATION

AFRICA

SOUTH AFRICA’S NEW HIGHWAY

A new highway project is planned for Gauteng Province in South Africa. The highway will measure 35km long and is expected to cost close to US$ 520 million. Building the new highway will help reduce traffic congestion on the West side of Johannesburg as well as improving access to OR Tambo International Airport. This will be the first highway to be constructed in Gauteng Province for four decades.
IMPROVED MOROCCO MOTORWAYS CLOSE TO CASABLANCA

Highway widening projects will help cut congestion in and around Morocco’s key commercial city of Casablanca. A budget of US$ 158.2 million will be used to add additional lanes to the highway connecting Casablanca with the towns of Settat and Berrechid, which lie to the south of the city.

ASIA AND OCEANIA

TWO THAI HIGHWAYS APPROVED

Two major highway projects are getting the go ahead in Thailand. The two highways are expected to cost US$ 4.18 billion in all. These will be PPP projects and are being handled under a fast-track process that will shorten the time required for financing. One project is for the construction of the Bang Yai (Nonthaburi)-Kanchanaburi highway. The other project is to build the Bang Pa-in (Ayuttahya)-Nakhon Ratchasima highway. The civil work for both projects will be paid for by the Government of Thailand, while private funding will pay for maintenance and operation over the 30-year concessions.

VIETNAM’S ROAD SAFETY IS NOW IMPROVING STEADILY

Improvements in road safety continue to be seen in Vietnam. In the six months from January to June 2017, there were around 9,500 traffic crashes reported in Vietnam, a drop of 636 from the same period in 2017. Meanwhile deaths from road traffic crashes fell by 229 to around 4,100, when compared with the same period for 2016. Serious injuries were also reduced by 1,004 to around 7,900 when compared with the same period in 2016. The latest crash data was announced by Vietnam’s National Committee for Traffic Safety.

EUROPE

EU PROPOSES RULE TO LINK ROAD CHARGES TO CO2 EMISSIONS
http://www.reuters.com/article/us-eu-carbon-tolls-idUSKBN18R1T8

The European Commission proposed new rules for road charging systems across Europe, saying they must be based on distance to reflect the carbon footprint of cars and trucks. Countries would have to have a system based on the distance travelled, measured digitally on what the Commission hopes will be standardized on-board boxes. Road transport alone is responsible for almost a fifth of EU emissions. Charges should be based on the CO2 emissions of vehicles. Cars with zero emissions would get a mandatory 75 percent reduction.

TOLL ROAD OPERATOR WANTS FLEXIBILITY OVER LIFE OF A CONCESSION
http://thinkinghighways.com/kevin-borras-talks-to-bill-halkias-hellastron/

Bill Halkias, president of Hellastron and CEO of the Attica Tollway Operations Authority, said that concession contracts last for 30, 40 and even 50 years and that conditions can change drastically over that time. He challenged the European Investment Bank and the European Commission during a recent speech to change the rules and give the industry flexibility.
NORTH AMERICA

INFRASTRUCTURE LEGISLATION COULD GET PUSHED INTO 2018
http://www.smartbrief.com/branded/91F4B281-2E1D-4492-AC81-F51EDC8C14C3/742E152F-81B3-4D56-9E1A-9BD4E69F22EA

The Trump administration has yet to submit formal legislation for a proposed $1 trillion infrastructure investment, and Congress has other legislative priorities in the coming months. Sen. John Thune, R-S.D., said it looks as though Congress will push infrastructure legislation into next year, saying, "I look at the calendar and realize how hard it’s going to be to transact major legislation that requires a good amount of floor time.”

SOUTH CAROLINA SETS OUT 10-YEAR TRANSPORT PLAN

The problem of inadequate bridges is widespread across US states but South Carolina is devising a 10-year plan that will address the structures in most need of attention. The program of works will also tackle roads that have been identified as being in inadequate condition. The program of works is being set out by the South Carolina Department of Transportation (SCDOT), with the work being paid for by slight increases in the taxes for fuel and vehicle sales. The state commenced its bridge replacement program in 2013; however, the additional revenue from these further taxes will allow another 465 bridges to be repaired or replaced in the 10-year period.

SOUTH AMERICA

GUATEMALA HIGHWAY STALLED CAUSING PROBLEM

A stalled highway project in Guatemala is causing serious problems for the country. Construction work on the CA-2 Occidente highway project was halted following investigations into the practices of Brazilian contractor Norberto Odebrecht. The work is only partially complete, with just 30 percent of the construction having been carried out. However, the contractor has already been paid around 70 percent of the funds required to build the highway.

WORK ON BOGOTA HIGHWAY TO COMMENCE

Widening and upgrade work for the Autopista Norte motorway in Bogota is commencing in September 2017. The work will be carried out by the Accesos Norte de Bogota (Accenorte) consortium and forms part of Colombia’s 4G road development program. The project is costing more than US$ 429 million, with Accenorte sourcing the necessary financing for the project, which is being handled under the PPP model.
INTERNATIONAL INDUSTRY EVENTS CALENDAR

2017

IBTTA International Summit of Rome
Rome, Italy, October 15-17, 2017
www.IBTTA.org/rome

24th World Congress on Intelligent Transport Systems
Montréal, Québec, Canada, October 29 – November 2, 2017
www.itscanada.ca/events/wc_2017.html

Intertraffic
Mexico City, Mexico, November 15-17, 2017
www.intertraffic.com

2018

TRB Transportation Research Board Annual Meeting 2018
Washington, DC, USA, January 7-11, 2018
www.trb.org/AnnualMeeting/FutureDates.aspx

IBTTA Winter Board & Committee Meetings
Coral Gables, Florida, USA, January 18-20, 2018
www.IBTTA.org/events

IBTTA Leadership Academy
Washington, DC, USA, February 11-16, 2018
www.IBTTA.org/leadershipacademy

Intertraffic
Amsterdam, Netherlands, March 20-23, 2018
www.intertraffic.com

TRA Transport and Research Arena 2018
Vienna, Austria, April 16-19, 2018
www.smart-mobility.at/tra2018

IBTTA AET, Managed Lanes & Technology Summit
Charlotte, North Carolina, USA, April 22-24, 2018
www.IBTTA.org/charlotte

Intertraffic
Beijing, China, May 28-30, 2018
www.intertraffic.com

IBTTA Midyear Board & Committee Meetings
Harrisburg, Pennsylvania, USA, June 22-23, 2018
www.IBTTA.org/events
IBTTA Foundation Annual Service Project
Harrisburg, Pennsylvania, USA, June 24, 2018
www.IBTTA.org/events

IBTTA Maintenance & Roadway Operations Workshop
Harrisburg, Pennsylvania, USA, June 24-26, 2018
www.IBTTA.org/harrisburg

IBTTA 2019 Conference Planning Ideas Roundtable
Portland, Oregon, USA, July 22, 2018
www.IBTTA.org/events

IBTTA Summit on Finance & Policy
Portland, Oregon, USA, July 22-24, 2018
www.IBTTA.org/portland

IBTTA Global Tolling Summit
Europe, September 16-18, 2018
www.IBTTA.org/events

25th World Congress on Intelligent Transport Systems
Copenhagen, Denmark, September 17-21, 2018
http://itsworldcongress.com

IBTTA Fall Board & Committee Meetings
Baltimore, Maryland, USA, October 12-14, 2018
www.IBTTA.org/events

IBTTA 86th Annual Meeting & Exhibition
Baltimore, Maryland, USA, October 14-17, 2018
www.IBTTA.org/baltimore
**GLOSSARY**

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<td>AA</td>
<td>Automobile Association</td>
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<td>ADB</td>
<td>Asian Development Bank</td>
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<td>AET</td>
<td>All-Electronic Toll</td>
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<tr>
<td>ARRB</td>
<td>Australian Road Research Group</td>
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<td>ASECAP</td>
<td>Association euro penne des concessionnaires d’autoroutes et d’ouvrages à péage – European Association of Operators of Toll Road Infrastructures</td>
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<tr>
<td>AV</td>
<td>Autonomous Vehicle</td>
</tr>
<tr>
<td>BOOT</td>
<td>Build-Own-Operate-Transfer</td>
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<tr>
<td>BOT</td>
<td>Build-Operate-Transfer</td>
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<tr>
<td>CABEI</td>
<td>Central American Bank for Economic Integration</td>
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<tr>
<td>CAGR</td>
<td>Compound Annual Growth Rate</td>
</tr>
<tr>
<td>CAV</td>
<td>Connected and Autonomous Vehicle</td>
</tr>
<tr>
<td>CCCC</td>
<td>China Communications Construction Company</td>
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<tr>
<td>CCR SA</td>
<td>Companhia de Concessões Rodoviárias</td>
</tr>
<tr>
<td>CEO</td>
<td>Chief Executive Officer</td>
</tr>
<tr>
<td>C-ITS</td>
<td>Cooperative Intelligent Transportation Systems</td>
</tr>
<tr>
<td>CRBC</td>
<td>China Roads and Bridges Company</td>
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<tr>
<td>CRT</td>
<td>Concessionária Rio Teresópolis</td>
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<tr>
<td>CSIR</td>
<td>Council of Scientific and Industrial Research</td>
</tr>
<tr>
<td>CTR</td>
<td>Austin’s Center for Transportation Research</td>
</tr>
<tr>
<td>DDI</td>
<td>Diverging Diamond Interchange</td>
</tr>
<tr>
<td>DG Environment</td>
<td>Directorate-General for Environment</td>
</tr>
<tr>
<td>DPR</td>
<td>Detailed Project Report</td>
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<tr>
<td>DOT</td>
<td>Department of Transportation</td>
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<tr>
<td>DSRC</td>
<td>Dedicated Short Range Communication</td>
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<tr>
<td>EBRD</td>
<td>European Bank for Reconstruction and Development</td>
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<tr>
<td>EC</td>
<td>European Commission</td>
</tr>
<tr>
<td>ECERDC</td>
<td>East Coast Economic Region Development Council</td>
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<tr>
<td>EETS</td>
<td>European Electronic Toll Service</td>
</tr>
<tr>
<td>EGNOS</td>
<td>European Geostationary Navigation Overlay System</td>
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<tr>
<td>EIB</td>
<td>European Investment Bank</td>
</tr>
<tr>
<td>EPC</td>
<td>Engineering, Procurement and Construction</td>
</tr>
<tr>
<td>ERF</td>
<td>European Union Road Federation</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
<td>---------</td>
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<tr>
<td>RFID</td>
<td>Radio Frequency Identification</td>
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<tr>
<td>RIDOT</td>
<td>Rhode Island Department of Transportation</td>
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<td>RMS</td>
<td>Roads and Maritime Services</td>
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<td>SCDOT</td>
<td>South Carolina Department of Transportation</td>
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<tr>
<td>SRTA</td>
<td>State Road and Tollway Authority</td>
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<tr>
<td>SUMP</td>
<td>Sustainable Urban Mobility Planning</td>
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<td>SwRI</td>
<td>Southwest Research Institute</td>
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<tr>
<td>TEN-T</td>
<td>Trans-European Transport Network</td>
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<td>TMT</td>
<td>Technology, Media and Telecommunications</td>
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<td>Turkish Lira</td>
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<td>Texas A&amp;M Transportation Institute</td>
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<td>Texas Department of Transportation</td>
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<td>UK</td>
<td>United Kingdom</td>
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<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>UNECE</td>
<td>Economic Commission of the United Nations for Europe</td>
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<tr>
<td>US</td>
<td>United States of America</td>
</tr>
<tr>
<td>VAT</td>
<td>Value Added Tax</td>
</tr>
<tr>
<td>WHSD</td>
<td>Western High-Speed Diameter</td>
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