GLOBAL TOLLING & MOBILITY NEWSLETTER

A SCAN OF TOLLING & MOBILITY DEVELOPMENT AROUND THE GLOBE

AUTUMN 2018/WINTER 2019

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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. Our mission is to advance toll financed transportation. Each year the association engages thousands of transportation professionals from toll agencies, concessionaires and allied businesses through educational meetings, knowledge sharing and advocacy. Founded in 1932, IBTTA has members in more than 20 countries on six continents.
INTRODUCTION / EXECUTIVE SUMMARY

The autumn 2018 /winter 2019 edition of the Global Tolling & Mobility Newsletter covers a wide range of interesting topics in the field of “Moving Smarter,” “Tolling and Interoperability,” “Technology,” “Finance and Funding” and “Policy and Legislation.” The following summary gives an insight of those mentioned topics in Africa, Asia and Oceania, Europe and North as well as South America.

Moving Smarter: In Africa, Volkswagen has launched its mobility solution in Rwanda to expand its reach in Africa’s automotive industry. Also, EkoRent is launching an electric mobility service. Transportation in Asia and Oceania is improving by testing driverless shuttles and launching a new and refreshed version of a mobility app. The United Kingdom is focusing on driverless vehicles and on building a Smart City Mobility Center. In North America, Mercedes-Benz and Bosch are offering self-driving cars. In South America, a large number of electronic vehicles have been purchased and electric scooters will offer a more sustainable mobility option.

Tolling and Interoperability: Africa is celebrating a three-year anniversary of road tolling but continues to struggle with the non-payment of the fees. In Oceania, more off-peak tolls are proposed and in Asia contraflow test have been made to ease traffic. In Europe, contactless payment is coming to Croatian road toll booth and Kapsch TrafficCom and Axxés will launch a sustainable and wide coverage technology platform for EETS (European Electronic Toll Collection Services). In North America, the IBTTA Toll Excellence Awards are celebrating the industry as an “incubator” for cutting-edge solutions. A new tolling system has been implemented to boost trade and security on the bridge between Texas and Mexico. In South America, a tolling specialist, Q-Free, has been selected for a tolling contract valued at NOK30 million (£2.7 million).

Technology: In Africa, hundreds of speed enforcement systems are being deployed before year end as well as electric vehicle chargers. In Asia, there will be the first automated vehicle trials in real-world conditions next year and two of Australia’s leading ITS organizations launched a new office of future transport technologies. In Europe, Austria will be the first to tender for C-ITS (Cooperative Intelligent Transport Systems) data collection on roads and the UK is working on a study to improve connected and automated vehicles by using real-life driving data. In North America, autonomous vehicles of Waymo are driving 25,000 miles every day. In Mexico, contactless payment systems have been extended. Three new contracts of Kapsch TrafficCom have strengthened its position in South America.

Finance and Funding: In Africa, a new highway project is attracting strong bidder interest and the budget for the Zimbabwe highway deal is set. In Asia and Oceania, a new link for Australia’s Victoria State and a new expressway project for the Philippines are planned. In Europe, a highway project in Bosnia Herzegovina received an EBRD (European Bank for Reconstruction and Development) loan and biddings for Slovakian road projects are underway. In North America, the New York MTA is still considering raising fares and tolls and there is still no consensus on how to fund transportation in the area of Vancouver. In South America, the financing of a road project is secured, and a road widening project is planned.

Policy and Legislation: In Africa, a new highway from Mombasa to Lagos has been put forward by a special envoy and a bridge deal in South Africa has been awarded. In Asia, the Malaysian government is pushing forward several infrastructure projects and the Indian government is looking to rebid or acquire incomplete road projects. In Europe, the Bulgarian Parliament is going to introduce a new e-toll system and Spain is going to revamp the contract for long-term road development. Mexico is on track with its infrastructure development program and US transportation advocates are looking to increase transportation funding in 2019. In South America, the Panama road project is proving controversial and two road contracts in Argentina have been awarded.
MOVING SMARTER

AFRICA

VOLKSWAGEN LAUNCHES MOBILITY SOLUTION IN RWANDA

Volkswagen has launched its mobility solution in Rwanda in a bid to expand its reach in Africa’s automotive industry. The package includes a car-sharing service, ride hailing service and a local vehicle assembly plant. The car-sharing service will mainly be aimed at companies in the capital Kigali, while the ride hailing service will follow later this year. Meanwhile, the assembly plant will be used to develop the latest Polo and Passat vehicles. Volkswagen says it intends to build up to 1,000 vehicles per year depending on demand and the success of the mobility fleet, with an annual production capacity of up to 5,000 units.

EKORENT DEPLOYS ELECTRIC MOBILITY SERVICE IN NAIROBI, KENYA

[...] EkoRent is launching its Nopia Ride electric mobility service in Nairobi, Kenya, in a bid to reduce emissions and solve the capital’s transportation challenges. The company, operating under the name EkoRent Africa, says it intends to increase the number of electric vehicles operating in the area to several hundred by the end of the year. [...] These vehicles will be recharged at Nopia charging bays in the city.

ASIA AND OCEANIA

RTA TRIALS DRIVERLESS SHUTTLE ACROSS 1250M TRACK IN DUBAI

Dubai’s Roads and Transport Authority (RTA) is trialling a driverless shuttle across a 1250m track at entertainment complex Dubailand, on Al-Qudra Road. The initiative is intended to support the government’s plans to convert up to 25 percent of the country’s transport to autonomous by 2030.

SINGAPORE’S LAND TRANSPORT AUTHORITY LAUNCHES REVAMPED MULTIMODAL TRANSPORT APP

Singapore’s Land Transport Authority (LTA) has launched a new beta version of the MyTransport.SG mobile application (MTM app) that has been refreshed as part of the agency’s efforts to better use data sources and technology for smarter transport solutions. [...] The refreshed MTM app will provide commuters with more real-time information to help them plan their journeys better, which is in line with the Singapore government’s ‘Smart Nation’ vision of harnessing digital technology to improve quality of life for its citizens.

EUROPE

AT THE CENTRE OF IT ALL: UK’S WEST MIDLANDS TO BUILD SMART CITY MOBILITY CENTRE

A new multi-million-pound Smart City Mobility Centre, to be established in Warwickshire and the West Midlands in the UK was announced last night (Monday 12 November 2018) at the Coventry and Warwickshire Automotive Dinner in Warwickshire. [...] Jaguar Land Rover engineers and WMG researchers will work together at Wellesbourne to design
and engineer connected, driverless capable, prototype electric modular architectures. These will be tested in real world conditions alongside a specially designed 5G communications network on the University of Warwick’s main campus. As the center develops, it is expected to play a significant role in transforming the future of UK transport.

**DRIVEN CONSORTIUM AIMS TO TRIAL AVS IN LONDON BEFORE CHRISTMAS**


The Driven consortium, led by software provider Oxbotica, hopes to trial a fleet of autonomous vehicles (AV) in London before Christmas following successful ongoing tests in Oxford. The vehicles will map streets in the London Borough of Hounslow as part of the consortium’s plans to run a fully autonomous fleet between both cities in 2019. Oxbotica has equipped the vehicles with its autonomous software, radar, lidar sensors and onboard computers and cameras.

**NORTH AMERICA**

**MERCEDES-BENZ, BOSCH TO OFFER SELF-DRIVING CAR RIDES IN SAN JOSE, CALIFORNIA**


Mercedes-Benz parent company Daimler and auto supplier Bosch plan to launch a self-driving car pilot for the public in San Jose, California, in the second half of 2019. The two German auto companies have been quietly collaborating to deliver advancements in an increasingly competitive global race to make autonomous cars a reality. The pilot puts Daimler and Bosch on roughly the same pace as General Motors and slightly behind former Google car company Waymo.

**SOUTH AMERICA**

**BYD DELIVERS 30 EVS TO GOVERNMENT AND POLICE**


[...] BYD has leased 30 electric vehicles (EVs) to authorities in São José dos Campos in Brazil. They will be used by police and government as part of a policy to help encourage electric and hybrid car use. The contract will last for 36 months and comprises 29 BYD e5 electric cars and one e6 vehicle.

**SCOOT NETWORKS TO DEPLOY ELECTRIC SCOOTERS IN CHILE**


Scoot Networks will gradually deploy 500 electric scooters in Santiago, Chile, to offer citizens a more sustainable mobility option. The pilot program will take place in Las Condes’ business district as part of an agreement with mayor Joaquin Lavin. Gonzalo Cortez, general manager for Santiago, says the scooters reduce air pollution, make streets safer, keep money in the local economy and makes mobility more affordable.

**TOLLING AND INTEROPERABILITY**

**AFRICA**

**SANRAL REDUCES LOSSES, BUT WARNS OF MAJOR FUNDING CHALLENGE**

Non-payment of toll fees still weighed heavily, but the agency posted a considerably reduced loss of R260.4m for the year to end-March from R4.96bn. State-owned national road agency Sanral says it has become clear that without commensurate funding it cannot continue the growth trajectory and network expansion of the previous two decades.

**THREE YEARS ANNIVERSARY OF ROAD TOLLING**
[www.daily-mail.co.zm/three-years-anniversary-of-road-tolling/](http://www.daily-mail.co.zm/three-years-anniversary-of-road-tolling/)

Zambia shifted oversight of tolling more than three years ago, and tolling in the country has grown since. The move also brought electronic toll collection and the use of public-private partnerships.

**ASIA AND OCEANIA**

**COALITION PROPOSES MORE OFF-PEAK TOLL DISCOUNTS FOR TRUCKS**

Trucks could get off-peak discounted tolls on EastLink and further discounts on CityLink, under a Victorian Coalition plan to ease Melbourne's congestion. New figures show the daily number of trucks on the West Gate Freeway, Melbourne’s busiest freight route, grew by 5000 over the past five years, rising to 23,000 in 2018. Motorists using the tollway travel as slow as 22km/h on average during the morning peak.

**CONTRAFLOW TEST ON JORR TO EASE TRAFFIC**

Toll operator PT Jalantol Lingkarluar Jakarta (PT JLJ) started [...] a contraflow traffic test at the Kalimalang-Cikunir section of the Jakarta Outer Ring Road (JORR), which will be conducted every morning on weekdays until Oct. 3, 2018. The test is being conducted to ease toll users’ commute on JORR, especially those heading from Bintara in Bekasi, West Java, to Pondok Indah in South Jakarta.

**EUROPE**

**CONTACTLESS PAYMENTS COMING TO CROATIAN ROAD TOLL BOOTHs**

Croatian Motorways and Rijeka-Zagreb Motorway reported that traffic on their roads was up 4.6 percent for the first eight months of 2018. A study of a new toll collection and maintenance system is expected to be completed in early 2019, when the system’s implementation date will be announced.

**UBER EETS**
[www.h3bconnected.com/uber-eets/](http://www.h3bconnected.com/uber-eets/)

Kapsch TrafficCom and Axxès have formed a joint venture that will bring a sustainable and wide coverage technology platform for EETS (European Electronic Toll Collection Services) to the market. The joint venture company MoKA SAS is registered in France with equal shares (50/50) held by Kapsch TrafficCom AG and Axxès SAS. The purpose of the joint venture is to design, build and operate a sustainable technology platform serving the EETS activities of both shareholders.
NORTH AMERICA

IBTTA TOLL EXCELLENCE AWARDS CELEBRATE INDUSTRY AS “INCUBATOR” FOR CUTTING-EDGE SOLUTIONS
www.ibtta.org/blog/ibtta-toll-excellence-awards-celebrate-industry-incubator-cutting-edge-solutions

The International Bridge, Tunnel and Turnpike Association has named six winners of its Toll Excellence Awards. Winning entries included a tri-protocol transponder reader and a bridge replacement project.

LEADING TRADE BRIDGE IN RGV (RIO GRANDE VALLEY) ADDS NEW TOLL SYSTEM TO BOOST TRADE AND SECURITY

More than 2,500 trucks per day cross the Pharr International Bridge between Texas and Mexico, and a new tolling system has been added to make the border-crossing process more efficient. The system also enhances security by collecting data on trucks, a US lawmaker said.

SOUTH AMERICA

Q-FREE WINS NOK30 MILLION TOLLING CONTRACT IN CHILE

Tolling specialist Q-Free has been selected by road infrastructure operator Sociedad Concesionaria Vespucio Norte Express to service and maintain roadside equipment in Chile. The seven-year contract is approximately valued NOK30 million (£2.7 million).

TECHNOLOGY

AFRICA

JENOPTIK TO DEPLOY HUNDREDS OF SPEED ENFORCEMENT SYSTEMS IN MIDDLE EAST

Jenoptik is to deliver hundreds of systems for speed enforcement to two clients in the Middle East & Africa (MENA) region. Before the end of the year, Jenoptik will deploy 600 of its radar-based TraffIStar S390 measurement systems as well as 300 TraffITower 2.0 housings for stationary speed enforcement to an unnamed client in the Middle East.

PSC SOLAR TO IMPLEMENT EV CHARGERS IN AFRICA

PSC Solar, the research and development subsidiary of PSC Industries, will deploy electric vehicle (EV) chargers across four African nations, according to media reports. Chargers will be installed in Nigeria, Ghana, Niger and Benin in preparation for the arrival of EVs. Patrick Owelle, CEO of the PSC Solar, says governments all over the world are starting to ban diesel and petrol engines due to climate change and pollution and that Africa must also take a position on the issue. He says PSC’s chargers can fully recharge EVs in around five to ten minutes.
ASIA AND OCEANIA

FOUR PARTNERS TO LAUNCH SINGAPORE’S FIRST AV TRIALS IN REAL-WORLD TRAFFIC CONDITIONS NEXT YEAR

As one of the world’s largest land transport operators, ComfortDelGro will lead the year-long autonomous shuttle bus operational trial, which will also involve Inchcape Singapore, NUS and French automated vehicle manufacturer EasyMile, and will commence in March 2019. The pilot will be carried out using the EasyMile EZ10 autonomous shuttle which will be funded by Inchcape Singapore and operated by ComfortDelGro. The EZ10 shuttle, which has a total carrying capacity of 15 passengers, will run along a mile-long route at NUS between Heng Mui Keng Terrace and Business Link.

AUSTRALIAN ITS ORGANIZATIONS WELCOME LAUNCH OF NEW OFFICE OF FUTURE TRANSPORT TECHNOLOGIES

Two of Australia’s leading ITS organizations have welcomed the Federal government’s establishment of a new Office for Future Transport Technologies, which was announced by the country’s Deputy Prime Minister […]. Michael McCormack, who is also Australia’s Minister for Infrastructure, Transport and Regional Development, launched the foundation of a new Office for Future Transport Technologies, which will support the successful introduction of new transport technologies across the country and develop cohesion with other governments and agencies worldwide.

EUROPE

AUSTRIA IS FIRST TO TENDER FOR C-ITS DATA COLLECTION ON ROADS

This time next year Austria will be the first European country to have vehicles that collect safety-relevant traffic information in real-time. “We’re going for it,” Marko Jandrisits, the telematics services program manager for Austria’s publicly owned road and toll company ASFINAG, said the tender for equipping the Austrian motorway network with the hardware and software for C-ITS – cooperative ITS – had just been launched.

UK’S LAMBDA-V PROJECT TO USE REAL-LIFE DRIVING DATA TO IMPROVE CAVS

A new multi-partner UK project has started a year-long feasibility study that will take anonymized human/driver telematics data to help improve the performance and acceptability of connected and autonomous vehicles (CAVs). The ‘Learning through AMBient Driving styles for Autonomous-Vehicles’ (LAMBDA-V) project, is a one-year feasibility study into how human driver behavior can be analyzed and used to accelerate the adoption of CAVs.

NORTH AMERICA

WAYMO’S AUTONOMOUS VEHICLES ARE DRIVING 25,000 MILES EVERY DAY
https://techcrunch.com/2018/07/20/waymos-autonomous-vehicles-are-driving-25000-miles-every-day/?guccounter=1

Waymo, the former Google self-driving project that spun out to become a business under Alphabet, has driven 8 million miles on public roads using its autonomous vehicles. […] Waymo’s fleet of self-driving vehicles are now logging 25,000
miles every day on public roads, Krafcik said. He later tweeted out the stats along with a graphic. Waymo has 600 self-driving Chrysler Pacifica Hybrid minivans on the road.

**CONDUENT EXTENDS CONTACTLESS PAYMENT SYSTEM IN MEXICO**


Conduent is extending its contactless card payment system to Line 3 of on Puebla’s Red Urbana de Transporte Articulado (RUTA) bus rapid transit system in Mexico. The upgrade is being carried out over the summer and will replace all free-standing ticket machines. Conduent’s system will allow riders to tap their phone or Puebla contactless card at validators. The solution will also replace inspector terminals, validators and access control gates.

**SOUTH AMERICA**

**KAPSC H TRAFFICCOM STRENGTHENS FOOTPRINT IN LATIN AMERICA WITH THREE NEW CONTRACTS**


The new contracts strengthen Kapsch’s position in the Central and South American market, where the company’s urban traffic management systems are already being used in many major or capital cities, including Rio de Janeiro (Brazil), Santo Domingo (Dominican Republic), Quito (Ecuador), […]. Kapsch has now been awarded three more major contracts in the region to provide advanced traffic management systems to Buenos Aires (Argentina), Lima (Peru), and Panama City (Panama). The new contracts add up to an accumulated value of approximately €15m (US$17.3m). The Vienna-based ITS technology supplier is expanding both its local footprint in the Latin American region, as well as its expertise in managing dense traffic environments in major cities around the globe.

**FINANCE AND FUNDING**

**AFRICA**

**UGANDA HIGHWAY PROJECT ATTRACTING STRONG BIDDER INTEREST**


Strong interest is being seen for the project to build Uganda’s new Kampala-Jinja Expressway. So far eight bids have been submitted for the project, which is expected to cost around US$985 million to build. The tender for the project should be awarded in December 2019. […] Building the expressway will help boost traffic capacity on the route and will also help to reduce the rate of road crashes.

**BUDGET SET FOR ZIMBABWE HIGHWAY DEAL**


The budget has been set at US$693 million for the Zimbabwe’s highway running between Harare, Masvingo and Beibridge. The Zimbabwe Government is overseeing the project, which involves widening the existing route so that it will have two lanes in either direction, instead of one lane in either direction at present. The work is expected to take three years to carry out.
ASIA AND OCEANIA

NEW LINK PLANNED FOR AUSTRALIA’S VICTORIA STATE

A major new project is being planned for Australia’s Victoria State. The 26km North East Link is intended to connect Melbourne’s Metropolitan Ring Road at Greensborough with the Eastern Freeway at Bulleen. If the project is to go ahead it is likely to cost in the region of US$11.23 billion, making it the single largest transport infrastructure project in the history of Victoria State.

NEW EXPRESSWAY PROJECT FOR THE PHILIPPINES

Work on a US$245.6 million expressway project is now underway in the Philippines. The 58km-long expressway will improve transport between the Southern Tagalog and Bicol Regions, reducing journey times for drivers while also improving safety. The first section of the Southern Luzon Expressway-Toll Road 4 (SLEX-TR4) to be built will be between Star Toll and Lucena, lying to the south of Manila.

EUROPE

BOSNIA HERZOGOVINA HIGHWAY PROJECT RECEIVING EBRD LOAN

A loan from the European Bank for Reconstruction and Development (EBRD) worth €180 million will help to pay for the construction of the Corridor Vc highway project. This highway is of key importance for the economic development of Bosnia and Herzegovina as it will provide and improved transport connection with Europe.

SLOVAKIA ROAD PROJECTS – BIDDING OPENS, FUNDING FOUND

Bidding is underway in Slovakia for the R2 Krivan-Mytna expressway project, which is being handled by the local highway firm NDS. […] The project for the 9.1km route is expected to cost €280 million to build and should take 48 months to complete. In addition, Slovakia’s Transport and Construction Ministry is boosting its budget for road repairs. The next 48 months will see a series of trunk road repair projects, with an extra €200 million having been added to the transport budget to pay for this work.

NORTH AMERICA

MTA STILL CONSIDERING FARE, TOLL HIKES TO CLOSE BUDGET

The Metropolitan Transportation Authority is still considering raising fares and tolls by an average of 4 percent in 2019 and 2021 to address financial deficits. Finance Committee Chairman Larry Schwartz said the MTA should try to save money by concentrating on fixing known problems such as procurement issues and fare evasion.
NO CONSENSUS ON HOW TO FUND TRANSPORTATION IN VANCOUVER AREA

www.vancourier.com/when-it-comes-to-transit-funding-all-roads-lead-to-disagreement-1.23489041

A recent poll on funding transportation in the Vancouver, Canada, area found no consensus among residents. The survey found that the most popular option was bringing back bridge tolls, supported by 44 percent of respondents, while 26 percent supported tolling roads.

SOUTH AMERICA

PARAGUAY ROAD PROJECT SECURING FINANCING


Financing has yet to be finalized for a series of road construction works in Paraguay. Loans are expected to pay for upgrade works to major road links. A loan of US$142.8 million is being sought from the Development Bank of Latin America (CAF) and South American development fund Fonplata. Meanwhile a $90 million loan is being sought from the Inter-American Development Bank (IDB). And a further $200 million loan would also be sought from the IDB.

ECUADOR ROAD WIDENING PROJECT PLANNED


A road widening project worth US$134.3 million is now going ahead in Ecuador. The road connecting Aloag with Santo Domingo is being improved along a 100km stretch, widening the route so that it will feature two lanes in either direction instead of the single lane in either direction at present. This will boost the transport connection between Pichincha Province and Santo Domingo de los Tsachilas Province.

POLICY AND LEGISLATION

AFRICA

MOMBASA TO LAGOS HIGHWAY PROPOSED BY AFRICAN UNION SPECIAL ENVOY


A new highway connecting Kenya’s port of Mombasa with Nigeria’s commercial center and main port of Lagos has been put forward by a special envoy to the African Union. The Kenyan opposition leader, Raila Odinga, was recently appointed to the post of special envoy to the African Union and announced the plan for a new transport connection between Mombasa and Lagos. This 6,000km route would provide an important economic link between two of Africa’s main ports.

SOUTH AFRICA BRIDGE DEAL FOR JOINT VENTURE


The contract has been awarded for the construction of a bridge spanning South Africa’s Msikaba Gorge. The project is expected to cost US$110.5 million and the package of works was awarded by the South African National Roads Agency (SANRAL). A Portuguese and South African joint venture partnership, Concor Mota-Engil, will carry out the work, which
will commence in February 2019 and is expected to take 33 months to complete. The bridge will feature a main span of some 580m, making it the longest cable-stayed type in Africa. The bridge is located near to Lusikisiki.

**ASIA AND OCEANIA**

**MALAYSIA PROJECTS MOVING FORWARD**


The Malaysian Government is pushing ahead with five key infrastructure projects in Sarawak state during 2019. These will be worth over US$115 million. A new access road will be built to Kuching Airport, while Kota Samarahan’s route 8101 will be upgraded.

**GOVERNMENT MAY REBID OR BUY IL&FS’ ROAD PROJECTS**


The Indian road transport and highways authority is looking to either rebid for or acquire incomplete national highway projects being undertaken by the debt-ridden Infrastructure Leasing and Finance Corporation (IL&FS). These projects may be acquired or rebid by the National Highways Authority of India and National Highways and Infrastructure Development Corporation.

**EUROPE**

**BULGARIAN PARLIAMENT GIVES GREEN LIGHT TO INTRODUCTION OF E-TOLL SYSTEM**


Bulgaria’s parliament adopted changes to the Roads Act that pave the way for the introduction of an electronic tolling system […]. The e-toll collection system will cover 16,317 km of motorways and major roads. Vehicles heavier than 3.5 tons will pay toll charges based on distance travelled, while charges for lighter vehicles will be based on periods of time.

**SPAIN EYES NEW STANDARD CONTRACT FOR LONG-TERM ROAD DEVELOPMENT**


Spain is looking to revamp its contractual formulae for large infrastructure work following moves to limit profits from long-term concession deals. The Ministry of Works is putting together a hybrid contract template for use with the Extraordinary Investment Plan for Roads. The previous government had tried to launch the investment plan on the back of around 20 concession contracts of over 20 years.

**NORTH AMERICA**

**MEXICO’S PROGRAM OF INFRASTRUCTURE DEVELOPMENT**


The Mexican Government is on track with its program of infrastructure development for the time period from 2012 and 2018. Work completed includes the construction of 38 highways and 33,000km of rural roads. In addition, 77 federal
roads have also been widened and rebuilt. The country’s Secretariat of Communications and Transport (SCT) says that much of this work has been carried out under the PPP model […]

WITH U.S. ELECTIONS OVER, TRANSPORTATION ADVOCATES EYE 2019 BATTLES

Transportation advocates were encouraged by voting outcomes across the country and are looking to push for increased transportation funding in 2019. Several governors campaigned on improving infrastructure, but still must get funding measures through legislatures.

SOUTH AMERICA

PANAMA ROAD PROJECT PROVES CONTROVERSIAL

Controversy surrounds proposals to improve a key road link in Panama. The plan is to widen and improve the Pan American highway stretch in the country’s Panama Oeste Province, between Las Americas bridge and Arraijan. The work is expected to cost in the region of US$335.5 million. However, there is concern over the 91 hectares of forest that will have to be cut down, of which 50 hectares lie in a national park. Various groups have criticized the Ministry of Public Works for choosing a road alignment that requires forest to be cut down, saying that other routes could have been considered instead as being more suitable.

TWO ARGENTINA ROAD CONTRACTS AWARDED

The contracts for two major road projects have been awarded in Argentina. Both of the road contracts will be handled under the PPP model, having been awarded by the Argentine Government. Jose Cartellone Construcciones Civiles will handle the contract for a 780km stretch of the C road corridor, connecting capital Buenos Aires with Mendoza, close to the Chilean border. Meanwhile a consortium comprising Paolini, Vial Agro and INC will handle the contract for 706km of road for the A road corridor, which is located in Buenos Aires Province.
INTERNATIONAL INDUSTRY EVENTS CALENDAR

2019

IBTTA Board of Directors & Committee Meetings
Coral Gables, Florida, USA, January 9-11, 2019
www.IBTTA.org/events/2019-winter-board-directors-committee-meetings

Transportation Research Board (TRB) Annual Meeting
Washington, D.C., USA, January 13-17, 2019
www.trb.org/AnnualMeeting/Blurbs/177818.aspx

IBTTA Annual Technology Summit
Orlando, Florida, USA, March 31 – April 2, 2019
www.IBTTA.org/orlando

IBTTA Spring Board of Directors & Committee Meetings
Philadelphia, Pennsylvania, USA, May 18-19, 2019
www.IBTTA.org/events/spring-board-directors-committee-meetings-0

IBTTA Summit on Finance & Policy
Philadelphia, Pennsylvania, USA, May 19-21, 2019
www.IBTTA.org/philadelphia

47th ASECAP Study & Information Days
Costa Navarino, Greece, May 29-31, 2019
www.asecap.com/asecap-days.html

13th ITS European Congress
Brainport Eindhoven, Netherlands, June 3-6, 2019
https://2019.itsineurope.com/

IBTTA Conference Planning Meeting for 2020 Meetings
Norfolk, Virginia, USA, June 22, 2019
www.IBTTA.org/events/2018-conference-planning

IBTTA Maintenance & Roadway Operations Workshop
Norfolk, Virginia, USA, June 23-25, 2019
www.IBTTA.org/norfolk

IBTTA Communications Summit
Seattle, Washington, USA, July 28-30, 2019
www.IBTTA.org/seattle

IBTTA Board of Directors & Committee Meetings
Halifax, Nova Scotia, Canada, September 13-14, 2019
www.IBTTA.org/events/fall-board-directors-committee-meetings

IBTTA 87th Annual Meeting & Exhibition
Halifax, Nova Scotia, Canada, September 15-17, 2019
www.IBTTA.org/halifax
XXVIth World Road Congress – PIARC
Abu Dhabi, United Arab Emirates, October 6-10, 2019
www.piarc.org/en/calendar/World-Road-Congresses-World-Road-Association/

26th ITS World Congress
Singapore, October 21-25, 2019
https://itsworldcongress2019.com/

IBTTA Global Tolling Summit
Lisbon, Portugal, October 27-29, 2019
www.IBTTA.org/lisbon
## GLOSSARY

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AA</td>
<td>Automobile Association</td>
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<tr>
<td>ABB</td>
<td>Asea Brown Boveri</td>
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<tr>
<td>ADB</td>
<td>Asian Development Bank</td>
</tr>
<tr>
<td>AET</td>
<td>All-Electronic Toll</td>
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<tr>
<td>AfDB</td>
<td>African Development Bank</td>
</tr>
<tr>
<td>AAF</td>
<td>American Action Forum</td>
</tr>
<tr>
<td>AG</td>
<td>Stock company</td>
</tr>
<tr>
<td>AI</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>ALPR</td>
<td>Automatic License Plate Recognition</td>
</tr>
<tr>
<td>ALO</td>
<td>Avenida Longitudinal de Occidente</td>
</tr>
<tr>
<td>ANPR</td>
<td>Automated Number Plate Recognition</td>
</tr>
<tr>
<td>ARRB</td>
<td>Australian Road Research Group</td>
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<tr>
<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>AVI</td>
<td>Automatic Vehicle Identification</td>
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<tr>
<td>BOOT</td>
<td>Build-Own-Operate-Transfer</td>
</tr>
<tr>
<td>BOT</td>
<td>Build-Operate-Transfer</td>
</tr>
<tr>
<td>BPTJ</td>
<td>Greater Jakarta Transportation Management Authority</td>
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<tr>
<td>CABELI</td>
<td>Central American Bank for Economic Integration</td>
</tr>
<tr>
<td>CAGR</td>
<td>Compound Annual Growth Rate</td>
</tr>
<tr>
<td>CAV</td>
<td>Connected and Autonomous Vehicle</td>
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<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>
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<tr>
<td>CCTV</td>
<td>Closed Circuit Control Center</td>
</tr>
<tr>
<td>CEO</td>
<td>Chief Executive Officer</td>
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<tr>
<td>C-ITS</td>
<td>Cooperative Intelligent Transportation Systems</td>
</tr>
<tr>
<td>CO2</td>
<td>Carbon Dioxide</td>
</tr>
<tr>
<td>COP</td>
<td>Climate Change Summit</td>
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<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>CSS</td>
<td>Customer Service System</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>CTR</td>
<td>Austin’s Center for Transportation Research</td>
</tr>
<tr>
<td>DC</td>
<td>District of Columbia</td>
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<tr>
<td>DDI</td>
<td>Diverging Diamond Interchange</td>
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<tr>
<td>DG Environment</td>
<td>Directorate-General for Environment</td>
</tr>
<tr>
<td>DG MOVE</td>
<td>European Commission’s Directorate-General for Mobility and Transport</td>
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<tr>
<td>DOT</td>
<td>Department of Transportation</td>
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<tr>
<td>DPR</td>
<td>Detailed Project Report</td>
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<tr>
<td>DRC</td>
<td>Democratic Republic of Congo</td>
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<tr>
<td>DSRMC</td>
<td>Dedicated Short-Range Communication</td>
</tr>
<tr>
<td>EBRD</td>
<td>European Bank for Reconstruction and Development</td>
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<tr>
<td>EC</td>
<td>European Commission</td>
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<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>
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<tr>
<td>EGNOS</td>
<td>European Geostationary Navigation Overlay System</td>
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<tr>
<td>EIB</td>
<td>European Investment Bank</td>
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<tr>
<td>EP</td>
<td>European Parliament</td>
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<tr>
<td>EPC</td>
<td>Engineering, Procurement and Construction</td>
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<tr>
<td>ERF</td>
<td>European Union Road Federation</td>
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<tr>
<td>ERP</td>
<td>Electronic Road Pricing</td>
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<tr>
<td>ETC</td>
<td>Electronic Toll Collection</td>
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<tr>
<td>EU</td>
<td>European Union</td>
</tr>
<tr>
<td>EV</td>
<td>Electronic Vehicles</td>
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<tr>
<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
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<tr>
<td>FETC</td>
<td>Far East Electronic Toll Collection Company</td>
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<tr>
<td>FHWA</td>
<td>Federal Highway Administration</td>
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<tr>
<td>FIA</td>
<td>Federation Internationale de l’Automobile</td>
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<tr>
<td>GALILEO</td>
<td>European satellite navigation system</td>
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<tr>
<td>GDOT</td>
<td>Georgia Department of Transportation</td>
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<tr>
<td>GNSS</td>
<td>Global Navigation Satellite System</td>
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<tr>
<td>GPS</td>
<td>Global Positioning System</td>
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<tr>
<td>HMI</td>
<td>Human Machine Interface</td>
</tr>
<tr>
<td>HOT</td>
<td>High Occupancy Toll</td>
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<tr>
<td>HOV lane</td>
<td>High Occupancy Vehicle lane</td>
</tr>
<tr>
<td>IADB</td>
<td>Inter-American Development Bank</td>
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<tr>
<td>UN</td>
<td>United Nations</td>
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<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>
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<tr>
<td>V2I</td>
<td>Vehicle-to-Infrastructure</td>
</tr>
<tr>
<td>V2V</td>
<td>Vehicle-to-Vehicle</td>
</tr>
<tr>
<td>V2X</td>
<td>Vehicle-to-Everything</td>
</tr>
<tr>
<td>VAT</td>
<td>Value Added Tax</td>
</tr>
<tr>
<td>VW</td>
<td>Volkswagen</td>
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<tr>
<td>WHSD</td>
<td>Western High-Speed Diameter</td>
</tr>
<tr>
<td>WIM</td>
<td>Weigh In Motion</td>
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</tbody>
</table>