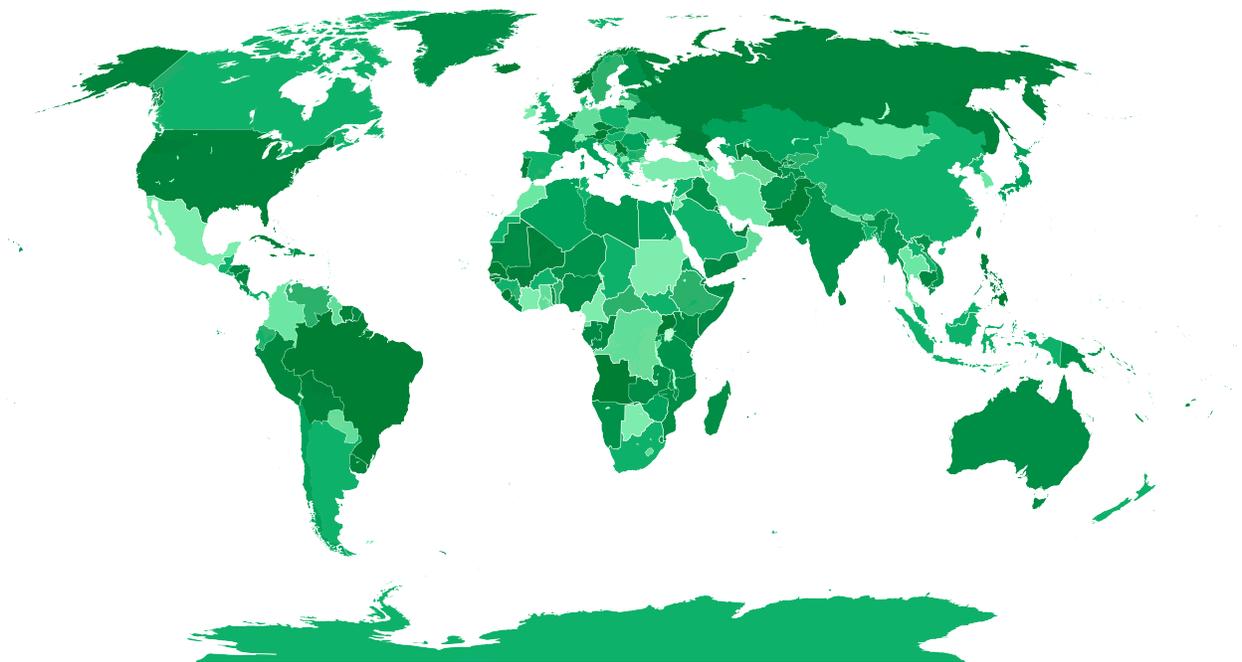




GLOBAL TOLLING NEWSLETTER

A SCAN OF TOLL ROAD DEVELOPMENT AROUND THE GLOBE

SUMMER 2016



Prepared by:

Malika Seddi, IBTTA International Vice President

Director of International Affairs, ASFA, Paris, France

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Sources: information collected from articles in IBTTA SmartBrief, ASECAP, World Highways, TOLLROADSnews, Reuters, ITS America, Ertico – ITS Europe.

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 20 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

The 2016 summer issue of the global newsletter focuses on the push forward for infrastructure development in all continents. Funding still remains a critical issue, policy makers are showing greater interest in initiatives to attract private sector investment.

In Africa, the development of road infrastructure is increasingly a policy priority that recognizes the linkage between a robust infrastructure network and increased economic development Morocco is continuing its important motorway program construction. The Zambian National Road Fund Agency (NRFA) plans to open four new toll gates by the end of this year. And the construction of Kenya's first double deck highway will begin by year end to connect the International Airport and the Nairobi-Nakuru highway.

In Asia, Impressive infrastructures have been built and the most emblematic one is the suspension bridge over the Bosphorus linking Asia and Europe. Iran will launch the construction of 745 miles of toll road. Albania will open its first toll road segment. Nevertheless, it remains important to advocate on the utility of toll financing as a powerful tool to hopefully head off unfortunate decisions as occurred in India recently where the Gujarat toll exemption policy will negatively impact nine existing PPP road projects.

In South America, important infrastructure programs have been announced in Chile, Argentina and Peru.

In North America, there are many states considering tolling to solve congestion and mobility challenges. More cashless tolling booths are deployed.

In Europe, the Commission's low-emission mobility strategy sets clear and fair guiding principles to Member States to prepare for the future reductions in CO2 emissions. Mobility projects are being deployed with number of important structures constructed to connect people and goods. European interoperability is also making huge progress.

AFRICA

DELAY FOR KEY SECTION OF ALGERIA HIGHWAY

Delays are afflicting the official opening of a stretch of the East-West highway in Algeria. This 84km section of the highway connects Dréan in the east of Algerian to the border with neighbouring Tunisia. A Japanese contractor was in charge of the project to construct the 400km eastern stretch of the East-West highway. However financial problems associated with needed additional work led to construction of the final stretch being curtailed. There is concern that should the work be left unfinished it will cost significantly more to complete the stretch of highway. The East-West highway forms a key section of the North African highway route connecting Morocco with Egypt.

INDRA ENTERS JOINT VENTURE TO DEVELOP SMART URBAN TRAFFIC MANAGEMENT PROJECTS IN ALGERIA

Indra has become a member of Mobeal, an Algerian public-private joint venture, alongside Algerian public companies EGCTU and ERMA and Spanish company Sice, with the objective of modernising the country's traffic management and urban lighting systems.

The joint venture partners will install, operate and maintain traffic control systems and remote management of lighting, initially in Algiers and in other large Algerian cities in subsequent phases.

Indra already has a presence in Algeria and was recently awarded a contract by L'Algérienne de Gestion des Autoroutes (AGA), the organisation in charge of managing, operating and maintaining the Algerian national highway network and its ancillary areas. Indra will develop intelligent traffic systems and toll systems for 380 km of the east-west highway and the control centre for the entire highway.

KENYA'S ELEVATED HIGHWAY GETS A GREEN LIGHT FROM THE WORLD BANK

The World Bank agreed to finance construction of Kenya's first double deck highway, according to media reports. Construction is set to begin by the end of this year on the toll road to link Jomo Kenyatta International Airport and the Nairobi-Nakuru highway.

Peter Mundinia, the director-general of the Kenya National Highways Authority, explained that construction of the elevated dual carriageway will occur in three phases. The first will begin with 6.5km running from the airport to Likoni Road and the Southern bypass interchange. The second stretch, 12 km, will connect Likoni Road to James Gichuru



Road junction on Waiyaki Way in Westlands, while the last section will run from James Gichuru Road to Rironi, on the Nairobi Nakuru highway. The authority announced in July that the Chinese firm Wu Yi won the project tender.

MOROCCO'S ROAD DEVELOPMENT PROGRAMME CONTINUING

Morocco's road network development programme is continuing, with new local roads, trunk roads and motorways being planned. Morocco's Ministry of Equipment, Transport and Logistics has said a budget of US\$9.84 billion is being set to construct 5,500 km of roads in the country. The plans call for the building of 3,400 km of motorways and a further 2,100 km of trunk roads. In addition, a separate plan has been set out for building new rural roads, connecting every village and town in the country to the motorway network. The rural road programme has called for the construction of some 30,000 km of roads, as well as upgrades to 24,000 km of existing links with the plans including widening and surfacing works.

At present time, Société Nationale des Autoroutes du Maroc ADM is operating a motorway network of some 1,588 km, with a further 184 km under construction.

FOUR MORE TOLL GATES COMING IN ZAMBIA

The National Road Fund Agency (NRFA) plans to open four new toll gates by the end of this year to maximize revenue collection. The agency has collected over K1 billion (\$104.7 million USD) in tolls since the program started and that K2 million (\$209 thousand USD) has been spent on maintaining the Kapiri Mposhi - Ndola road. NRFA plans to open four additional toll gates in Chongwe, Mumbwa, Shimabala and Katuba/Chisamba, and other plans are underway to construct new modern toll plazas.

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ASIA AND OCEANIA

PHILIPPINES TO AWARD HIGHWAY PPP

July 2016 The government of the Philippines is to award the contract for the development of the North Luzon Expressway – South Luzon Expressway (NLEX – SLEX) connector road PPP. An internal administrative disagreement has delayed announcement of the final award.

OVER EIGHT TRILLION VND TO BUILD DAU GIAY – TAN PHU EXPRESSWAY

Hanoi (VNA) – More than eight trillion VND (\$360 million USD) will be invested to build the initial phase of the Dau Giay – Tan Phu Expressway in a southern range of Dong Nai.



Deputy Minister of Transport Nguyen Ngoc Dong has approved the proposal on the first phase of the project under the build-operate-transfer (BOT) model as part of the 200 km Dau Giay – Lien Khuong Highways. The Dau Giay-Tan Phu route will be 59.6 km long and 17m wide running through Thong Nhat, Dinh Quan, Xuan Loc and Tan Phu districts in Dong Nai. It is designed with four lanes and allows vehicles to run during a limit speed of 80 km per hour.

It will be expanded to 24.7 m wide in the second phase, when the allowed speeds will go up to 100-120 km per hour, with a total investment of over 6.88 trillion VND (\$309.6 million USD).

After being approved by the Ministry of Transport, the project will start construction in the first quarter of 2017 and be completed in about three years.

The building of a Dau Giay – Tan Phu expressway is significant as it will connect the Ho Chi Minh City – Long Thanh – Dau Giay and Bien Hoa – Ba Ria-Vung Tau highways, facilitating ride connectivity between Lam Dong and Dong Nai provinces and HCM City and Ba Ria-Vung Tau province.

It will also help to boost socio-economic development in key economic zones in the South and Central Highlands as well as in economic, social and industrial hubs along National Highway 20 linking Lam Dong to HCM City and southeastern provinces.

ALBANIAN AUTHORITIES HAVE SELECTED A TURKISH COMPANY FOR A 30-YEAR TOLL CONCESSION

Albanian authorities have selected a Turkish company to rehabilitate and maintain the 180-kilometer (112-mile) highway linking Milot and Morin, which also will be the first toll road in the country.

The Transport Ministry said that Ankara-based Vendeka Bilgi Teknolojileri Ltd was the best offer for a 30-year concession. The Turkish company offered to invest €50.6 million (\$56 million) to complete the segment link to neighboring Kosovo and to undertake €320.6 million of maintenance during the concession period.

THE IRANIAN GOVERNMENT HAS SIGNED A DEAL WITH ITALY'S HIGHWAY AGENCY ANAS

The Iranian government has signed a deal with Italy's highway agency ANAS for the construction and management of a 1,200 km (745 miles) road project that will cost €3.6 billion (\$4 billion). The first stretch of highway covering 350 km will be completed by 2022 at a cost of €600 million.

The project is to build a road linking the Gulf port of Bandar Imam Khomeini to Bazargah on Iran's border with Turkey. Italy has worked hard to secure opportunities in Iran following international agreements last year to lift crippling sanctions on Tehran in exchange for limiting its nuclear activities.

INDONESIA'S GOVERNMENT WILL PREPARE SEVERAL POLICIES TO CREATE AN ATTRACTIVE INVESTMENT CLIMATE

Indonesia will encourage the private sector to participate in infrastructure projects. The government will prepare several policies to create an attractive investment climate.

During a limited meeting on investment in Jakarta, the president noted the necessity to ask for private sector contribution to infrastructure projects and to consider "PPPs [public-private partnership] schemes also. They can be used for public infrastructure projects. But due to the tariff burden, support is needed in the form of incentives to ensure its feasibility".

GUJARAT TOLL EXEMPTION POLICY TO IMPACT NINE PPP ROAD PROJECTS IN INDIA

Nine toll road projects, awarded as public private partnerships (PPP) in Gujarat, will be impacted by implementation of new toll exemption policy for passenger vehicles and state transport buses, rating agency IcrA reported.

The Government of Gujarat exempted car/jeep/van category along with state transport buses from toll on state highways starting August 15, 2016, and plans to compensate the revenue loss incurred by way of monthly reimbursements for exempted vehicles.

Gujarat's toll exemption policy for passenger vehicles will "affect nine PPP road projects" and "pose a risk to state-led BOT model," IcrA said in a statement. Toll exemption for private vehicles and state transport buses will be an additional burden on the cash flow and would affect the debt-servicing capability further."

The toll exemption is likely to result in disputes as the quantum of compensation in such cases is always not agreeable to all parties as seen in Maharashtra, IcrA said and added at a time when participation from private sector is already low and lenders are cautious on lending for new infrastructure projects, the move could further dent lenders' confidence.

GOVERNMENT OPENS TENDER FOR STUDY ON HONG KONG TUNNEL TOLLS

The government has kicked off a tender process for an overall toll adjustment study of the city's three harbor crossings and another three tunnels amid growing concern over congestion at the main crossing. The move came amid calls for lower tolls at the Eastern Harbour Tunnel which was taken over by the government early this month. A government

adviser on transport matters also jumped into the fray, calling for the fees of the three crossings to be aligned to ease traffic congestion at the overcrowded Hung Hom Tunnel.

On August 1st the Transport Department called for expressions of interest from consultancy firms to submit tenders before August 26 for the toll rationalization study scheduled to commence next January. The study is expected to be completed within the 2017/18 legislative year, and a government proposal for the tunnels' overall toll adjustments will be submitted to the Legislative Council's transport panel for discussions.

A department spokeswoman added that three tunnels linking Kowloon and Sha Tin such as the Lion Rock Tunnel, Tate's Cairn Tunnel, and the Eagle's Nest and Sha Tin Heights Tunnel will also be included in the study. She said: "The study will examine how to effectively rationalize the traffic flow at the tunnels concerned."

SINGAPORE STEPS UP MEASURES AGAINST TOLL, FEE EVASION AT LAND CHECKPOINTS

More measures have been introduced against the evasion of payment of fees and toll charges at Singapore's Tuas and Woodlands Checkpoints, the Land Transport Authority (LTA) reported on July 25th.

From March to May of this year, revenue loss from motorists who did not pay Vehicle Entry Permit (VEP) fees, fixed Electronic Road Pricing (ERP) fees and toll charges at the checkpoints amounted to about eight percent of total revenue – or about \$12 million – according to LTA estimates.

It is looking into strengthening controls over the collection of fees and tolls. The authority is also studying the possibility of amending the Road Traffic Act to prohibit the entry and exit of foreign vehicles with unpaid tolls, fees, taxes, or penalties.

LTA announced that starting Aug 1st, motorists who evade tolls and fees at the checkpoints will be fined a sum of \$50, while repeat offenders will have to pay \$100, up from the \$10 administrative fee currently imposed. Motorists who do not pay the fine and who are then charged for tolls and fees evasion face a further penalty of up to \$1,000 or up to three months' jail for their first offence.

KOREA TO BUILD NETWORK OF SMART EXPRESSWAYS BY 2020

South Korea has unveiled an ambitious plan to build a network of smart expressways that will include road sections that charge (provides power to) electric vehicles as they go. One thousand kilometers of expressway will be built, extending the national network to 5,131 kilometers by 2020. The new expressways will create a network of roads accessible to nearly 96 percent of the country's population within 30 minutes from their homes.

To help lessen traffic, the government will develop a so-called smart tolling system that, unlike the existing Hi-pass system, does not require toll booths or reduced driving speed. South Korean roads will also feature various functions for smart, environmentally friendly vehicles as the country moves to commercialize autonomous or self-driving cars by 2020.

By 2018, all major rest areas on expressways will be equipped with electric vehicle charging stations, while the country will install the Cooperative Intelligent Transport System that is a prerequisite to the operation of self-driving cars on all expressways by 2020. To this end, the government will spend 37 trillion won (\$33.1 billion) over the next five years, while also seeking an additional 35 trillion won in private investment.

TOLL BRIDGE OVER BOSPORUS OPENS

The \$3 billion Yavuz Sultan Selim Bridge, which joins the Asian and European sides of Istanbul has opened to traffic on 26 August 2016. The toll bridge, which has eight vehicle lanes and two rail lanes, is part of the larger North Marmara Highway project.

The bridge measures 2,164 m (7,100 ft) in length with a main span of 1,408 meters (4,619 ft). With 322 meter (1,056 ft) towers, the bridge is the tallest suspension bridge in the world. It is, after the Millau Viaduct, the second-tallest bridge in the world of any type. The bridge is also one of the world's widest suspension bridges, at 58.5 meters (192 ft) wide. It will be a first in the world as it includes a rail system on the same level.

The bridge is expected to alleviate traffic in Istanbul and eliminate air pollution and environmental problems arising from urban traffic. Thus, it will help save nearly \$1.45 billion for energy and \$335 million in labor force loss a year, an annual economic loss of \$1.785 billion. The bridge is the third to connect the Asian and European sides of Istanbul over the Bosphorus strait.

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EUROPE

A EUROPEAN STRATEGY FOR LOW-EMISSION MOBILITY

The global shift towards low-carbon economy has started and its pace is accelerating. To ensure Europe stays competitive and will be able to respond to the increasing mobility needs of people and goods, the Commission's low-emission mobility strategy sets clear and fair guiding principles to Member States to prepare for the future. The Energy Union strategy contributes to this goal. The main elements of the Strategy: Increasing the efficiency of the transport system; Speeding up the deployment of low-emission alternative energy for transport; Moving towards zero-emission vehicles.

The Strategy draws on existing mechanisms and funds. President Juncker's Investment Plan for Europe plays a very important role, with significant progress already made with projects that are in the pipeline for funding under the European Fund for Strategic Investment. In addition, €70 billion is available for transport under the European Structural and Investment Fund, including €39 billion for supporting the move towards low-emission mobility, of which €12 billion for low-carbon and sustainable urban mobility alone. Under the research program, €6.4 billion are available for low-carbon mobility projects.



ARDIAN BUYS OUT ASCENDI'S PORTUGUESE TOLL ROAD OPERATIONS

French infrastructure fund Ardian has acquired all the shares of Ascendi PT II which operates seven Portuguese motorway concessions. Ardian, an independent private investment company, is buying the shares from its joint venture partner Ascendi Group. Ascendi PT II was formed in June 2015 as a partnership between Ardian Infrastructure and Ascendi and owns and operates five motorways in northern Portugal and the Lisbon area.

Ardian Infrastructure will pay €600 million for control of the five jointly held assets, as well as two additional toll roads from Ascendi. Ardian will also acquire the operational and maintenance companies associated with the motorways. The Ascendi network is the second largest motorway network in Portugal, stretching more than 850 km across the seven toll roads, which employ 500 people. The agreement is subject to some operations of corporate reorganization at Ascendi Group level, as well as regulatory and contractual approvals.

SPANISH INFRASTRUCTURE GROUP SACYR HAS BEEN AWARDED A PUBLIC-PRIVATE PARTNERSHIP (PPP) CONTRACT FOR A TOLL ROAD BETWEEN ROME AND THE TOWN OF LATINA, 73KM TO THE SOUTH OF IT

The group will be expected to provide \$3.1 billion to finance the construction of the road, in return for which it will be able to collect income for 43 years. The group estimates that the income over that period will be about \$13.5 billion.

The project requires the construction of about 100 km of autostrade and 86 km of secondary roads. It also involves the building of 78 viaducts and overpasses, two tunnels with a total length of 2.3 km, five cut-and-fill tunnels and 17 link roads. The road is the final element of the Lazio bypass, which is being managed by Italian client Autostrade del Lazio.

Sacyr Concessions is already involved in the 145km Pedemontana-Veneta highway, where it is investing \$2.8 billion. Once built, the Rome-Latina road is expected to be used by 32,000 vehicles a day. Sacyr's revenue will come from direct tolls. Its return from this source will be adjusted by periodic tariff review.

SIGNATURE OF THE CONTRACTS COVERING THE WORLD'S LONGEST IMMERSSED ROAD AND RAIL TUNNEL

The Femern Link Contractors joint venture has signed contracts with the Danish government for the design and construction of the world's longest immersed road and rail tunnel, the Fehmarnbelt link between Denmark and Germany.

The joint venture has won three contracts, two contracts covering construction of the immersed tunnel and the tunnel element factory that will manufacture the precast tunnel elements and a contract covering the building of the portal structures, toll buildings, bridges and ramps. The three contracts have a combined value of €3.4 billion.

The joint venture is comprised of VINCI Construction Grands Projects (lead company for the two tunnel contracts), Per Aarsleff Holding (lead company for the portal contract), Solétanche-Bachy International, CFE., Wayss & Freytag Ingenieurbau, Max Bögl Stiftung & Co, BAM Infra and BAM International.

The 18 km immersed tunnel connecting Denmark's Lolland Falster region with Germany's Schleswig Holstein region will be the world's longest immersed road and rail tunnel. It will shorten the journey between the German and Danish coasts to just 10 minutes by car and seven minutes by train compared to the current travel time of one hour by ferry or a 160 km detour via the Danish region of Jutland by car. The Fehmarnbelt tunnel project is one of Europe's largest infrastructure projects to date.

AUSTRIA OPENS ITS LOCAL TOLLING MARKET FOR EXTERNAL SERVICE PROVIDERS

ASFINAG, as the Austrian Toll Charger, is currently in acceptance procedure with six new Service Providers in the framework of REETS (Regional European Electronic Toll Services). Pilot operations with those Providers have already started and it is expected that all six will be in real operation in Austria by the end of this year. Besides three French Service Providers, there are three others coming from Czech Republic, Germany and Italy.

Those Providers will offer an On Board Unit to their customers, which is working in several European countries. This will allow the customer to travel through several European Toll Domains with only one On Board Unit, having one contract with a selected Service Provider and receiving only one invoice. With this effort Austria is one of the first countries in Europe opening the local tolling market to external Service Providers. This is a further major step towards interoperability in Europe.

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NORTH AMERICA



PENNSYLVANIA TURNPIKE COMMISSION IS PREPARING FOR ANOTHER YEAR OF MANAGING THE STATE'S 75-YEAR-OLD HIGHWAY SYSTEM

Leaders of the Pennsylvania Turnpike Commission are preparing for another year of managing the state's 75-year-old highway system. Discussions hinge largely on tolls and collection methods.

In an address at the annual state transportation briefing, Commission CEO Mark Compton told that the plans underway for toll roads all lead up to 2022. The commission is working to put in more cashless tolling booths, where drivers either use an E-ZPass or have the bill delivered later. According to Compton, the no-cash tolls actually make roads safer.

"At a lot of our interchanges, we have 80 percent of our traffic using E-ZPass, 20 percent that still has to stop," he said. "So there's a real weave that happens at all of our interchanges ... [and] when you have that weave effect, accidents are occurring every day."

The state's first no-cash toll installation opened in January on the turnpike bridge over the Delaware River in Bucks County.

DRAGADOS WINS CONTRACT TO ADD SECOND TUNNEL IN CHESAPEAKE BAY

The Chesapeake Bay Bridge and Tunnel (CBBT) Commission awarded the Dragados Team a \$755 million contract. The project, set to begin in October of 2017, will create a parallel tunnel alongside the first tunnel that drivers travel through when heading towards the Eastern Shore.

The project is expected to take five years to complete. When finished the new tunnel will carry two lanes of southbound traffic and the existing tunnel will carry two lanes of northbound traffic. The project will be funded through toll revenues, bonds, and a federal loan. As a governmental entity, they operate like a business, so the project is not funded through any taxpayer money.

2040 PLAN OF THE CENTRAL FLORIDA EXPRESSWAY AUTHORITY

In the year 2042, something potentially significant to Central Florida motorists could happen. The Central Florida Expressway Authority, which operates 109 miles of toll roads in Orange County, will have paid off its \$4.3 billion in bonds. But when the roads are paid for, what happens to the tolls? Many drivers would love to see them disappear.

"That would be a big break for a lot of people," said Steven Dewdney, an Orlando resident. But because Central Florida has growing transportation needs and will need to build more roads and support commuter rail, removing tolls are unlikely, experts say. The authority's 2040 preliminary plan is looking at building another 80 miles of roadways with a

projected cost of \$3.2 to \$4.5 billion. Many details are not yet available, but it may widen the Beach Line Expressway and parts of State Road 429 as well as build roads in East Orange and Osceola counties.

ARKANSAS CONSIDERING HOV TOLL LANES

Metroplan and the Arkansas Highway and Transportation Department (AHTD) are conducting a study to see whether or not tolls will be a solution to congestion in certain areas. Metroplan and AHTD will look into high-occupancy toll lanes for certain corridors in Central Arkansas. The study will only look into areas known to have congestion issues and will not be statewide. Single-lane tolls for high-occupancy vehicles will be considered for several corridors leading into Little Rock, including: Interstate 30, Saline and Pulaski County residents commuting downtown Interstate 40 near Little Rock U.S. Highway 67 near Little Rock in all the above areas, congestion from commuters travelling to downtown Arkansas has been identified as a problem. The preliminary study, expected to be completed in approximately one year, will assess the feasibility of HOV toll lanes, including which corridors to use, whether or not people will pay to use the extra lanes and whether revenue generated from interested parties will be enough to pay for the lanes. Metroplan and AHTD are looking into all options. Adding non-toll lanes, widening lanes, alternate routes and encouraging carpooling are all being considered along with HOV toll lanes. "It's something we're looking at as another tool in the toolbox when it comes to reducing congestion, improving safety and promoting faster commute times."

More information about U.S. tolling development are available on the IBTTA SmartBrief and at www.IBTTA.org.

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SOUTH AMERICA

ARGENTINIAN GOVERNMENT TO TENDER UP TO US\$7 BILLION OF WORK

Argentina's Transport Minister Guillermo Dietrich has revealed that the government will tender road projects worth nearly US\$7 billion in the second half of this year. Work will start for some of the contracts by the end of this year and up to 2019. Contracts will cover 12,800 km of motorways, 4,000 km of safe roads and 11,400 km of improved roads.

The first of the contracts to be tendered shortly, for two sections of Route 7 and works along Route 40.

NEW CHILE ROAD PROJECT TENDERS DUE

Chile is pushing ahead with infrastructure development. The Ministry of Public Works intends to award five to seven projects during 2016. He has also set a target of having 12-13 major infrastructure projects being awarded and worth a total of US\$6 billion by the time the current administration comes to the end of its term.



One road project due to be awarded shortly is for the phase two of the Vespucio Oriente link. The tender is expected to open in July 2016. The projects for the Ruta de la Fruta, El Loa link and the road from Los Vilos to La Serena will also be put to tender in 2016. Meanwhile the tender process for the \$1 billion Costanera Central project will be put out to tender in 2017.

VINCI TO ACQUIRE LIMA TOLL ROAD IN PERU IN \$1.7 BILLION DEAL

Vinci SA plans to acquire a toll road concession in Lima in a deal valued at about €1.5 billion (\$1.7 billion USD). The deal is expected to close in the second half of this year.

The purchase comes as part of Vinci's strategy to expand in Latin America including in energy services in Brazil and real-estate development in Colombia. Vinci's moves into emerging markets are aimed at capturing spending on infrastructure like highways and airports. An overall rise in revenue from roads helped increase first-half profit by 12 percent, with Chief Executive Officer Xavier Huillard saying last month concession work performed better than expected.

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INTERNATIONAL INDUSTRY EVENTS CALENDAR

2016

IBTTA 84th Annual Meeting & Exhibition

Denver, Colorado, USA, September 11-14, 2016

www.IBTTA.org/denver

23rd World Congress on Intelligent Transport Systems

Melbourne, Australia, October 14-16, 2016

IBTTA Summit of the Americas

Mexico City, Mexico, October 16-18, 2016

www.IBTTA.org/mexicocity

2017

TRB Annual Meeting and Transportation Research Board

Washington, DC, USA, January 8-12, 2017

www.trb.org

IBTTA Winter Board & Committee Meetings

Washington, DC, USA, January 19-21, 2017

www.IBTTA.org

IBTTA Leadership Academy

Washington, DC, USA, February 12-17, 2017

www.IBTTA.org/leadershipacademy

IBTTA Communications & Administration Workshop

Tampa, Florida, USA, March 12-14, 2017

www.IBTTA.org/tampa

11th ASECAP Safety Days

Brussels, Belgium, March 14, 2017

www.asecap.com

IBTTA Spring Board & Committee Meetings

Jersey City, New Jersey, USA, April 21-22, 2017

www.IBTTA.org

IBTTA Summit on Finance, Policy, VMT

Jersey City, New Jersey, USA, April 23-25, 2017

www.IBTTA.org/jerseycity

IBTTA Foundation Annual Service Project

New Orleans, Louisiana, USA, May 21, 2017

www.IBTTA.org

IBTTA Maintenance & Roadway Operations Workshop

New Orleans, Louisiana, USA, May 22-23, 2017

www.IBTTA.org/neworleans

Intertraffic

Istanbul, Turkey, May 24-26, 2017

www.intertraffic.com

45th ASECAP Study and Information Days

Paris, France, May 29-31, 2017

www.asecap.com

12th ITS European Congress

Strasbourg, France, June 19-22, 2017

www.itsineurope.com

IBTTA 2018 Conference Planning Ideas Roundtable

Dallas, Texas, USA, July 15, 2017

www.IBTTA.org

IBTTA/TRB Joint Symposium on Managed Lanes & AET

Dallas, Texas, USA, July 16-18, 2017

www.IBTTA.org/dallas

IBTTA Fall Board & Committee Meetings

Atlanta, Georgia, USA, September 8-9, 2017

www.IBTTA.org

IBTTA 85th Annual Meeting & Exhibition

Atlanta, Georgia, USA, September 10-13, 2017

www.IBTTA.org/atlanta

IBTTA International Summit of Rome

Rome, Italy, October 15-17, 2017

www.IBTTA.org/rome

23rd World Congress on Intelligent Transport Systems

Quebec, Canada, October 29 – November 2, 2017

<http://itsworldcongress.org>

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ACRONYMS

| | |
|-----------------|---|
| AET | All-Electronic Toll Collection |
| ASECAP | Association euro penne des concessionnaires d'autoroutes et d'ouvrages à péage – European Association of Operators of Toll Road Infrastructures |
| DOT | Department of Transportation |
| C-ITS | Cooperative Intelligent Transportation Systems |
| EBRD | European Bank for Reconstruction and Development |
| EC | European Commission |
| EIB | European Investment Bank |
| EGNOS | European Geostationary Navigation Overlay System |
| ERF | European Union Road Federation |
| EP | European Parliament |
| EU | European Union |
| GALILEO | European satellite navigation system |
| GNSS | Global Navigation Satellite System |
| HOV lane | High Occupancy Vehicle lane |
| IBTTA | International Bridge, Tunnel and Turnpike Association |
| ITF | International Transport Forum |
| ITS | Intelligent Transportation Systems |
| OBE/OBU | On Board Equipment/On Board Unit |
| OECD | Organization for Economic Cooperation and Development |
| ORT | Open Road Tolling |
| PIARC | Association Mondiale de la Route – World Road Association |
| PPP | Public-Private Partnership |
| TEN-T | Trans-European Transport Network |
| UNECE | Economic Commission of the United Nations for Europe |

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