

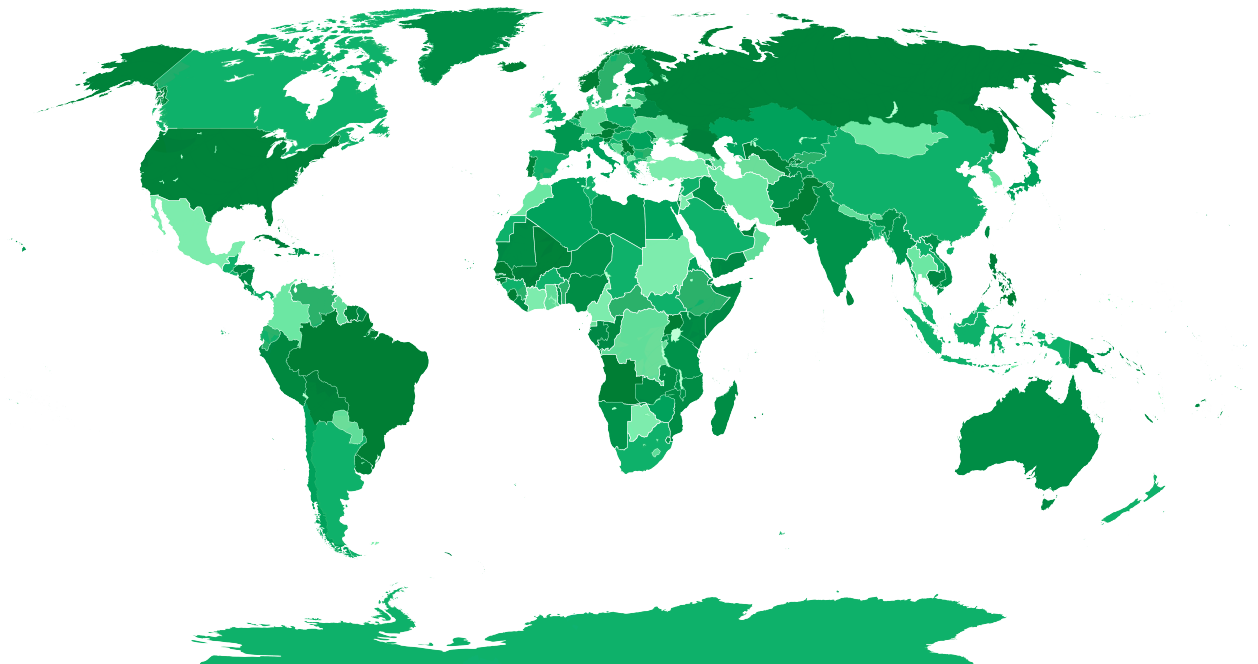


TOLLING. MOVING SMARTER.

GLOBAL TOLLING & MOBILITY NEWSLETTER

A SCAN OF TOLLING & MOBILITY DEVELOPMENT AROUND THE GLOBE

SPRING 2019



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Main Sources: IBTTA and IBTTA SmartBrief, ASECAP, World Highways, Traffic Technology Today, ITS America, Ertico – ITS Europe, Handelsblatt.com.

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 26 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.

ASIA

CONSTRUCTION STARTS ON SEGMENT OF TOLL ROAD IN PHILIPPINES

Metro Pacific Tollways Corp. and the Philippines' Department of Public Works and Highways have begun construction on a nearly 17-mile section of the Cavite-Laguna Expressway. The goal is to have the entire toll road finished by 2020.

INDIA CONSIDERS REBIDDING TOLL-OPERATE-TRANSFER PACKAGE

The National Highways Authority of India said it did not receive the level of bids it expected for a package of toll-operate-transfer assets and it is now considering a rebid. The highest bid for the package, which involves 364 miles of road, was below the base level set by the authority.

AFRICA

POSSIBLE TOLL ROAD IN ALGERIA

In recent months, the Minister of Public Works and Transportation, Abdelghani Zalene, said in many statements that the East-West highway will soon be tolled. This motorway should be completed in November. They should be operational from that date.

This motorway will be built with international standards. This toll motorway project on the East-West Highway includes nearly 50 toll stations on interchanges, seven toll stations in full lanes, 22 maintenance centers and 35 rest areas. It should also be noted that 146 traffic data collection stations, plus 42 service areas and 42 variable message signs will be set up. Video surveillance, telephones and other equipment with a wide range of services will also be delivered. An operating aid system, which allows all equipment to be controlled and information to be broadcast through variable message panels or FM radio, is planned. According to a source from the public works department, toll rates may vary between 1 and 1.5 AD (Algerian Dinars) per kilometer.

EUROPE

EUROPEAN UNION

€ 12.8 BILLION INVESTMENT NEEDED FOR INFRASTRUCTURE IN EASTERN EUROPE

EU identifies € 12.8 billion investment needed for infrastructure in Eastern Europe - The European Commission and the World Bank published an investment "plan" on January 15 to achieve the extension of the trans-European transport network to the East, via projects considered as priorities in Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine, in the framework of the Eastern Partnership. "The projects require an investment estimated at nearly € 12.8 billion euros for a total of 4,800 kilometers of rail and road, 6 ports and 11 logistics centers. These projects can be financed by private and public funds.

MAKING ROADS SAFER – EU AGREES ON REFORMS TO STRENGTHEN ROAD INFRASTRUCTURE MANAGEMENT

The EU is working to improve road safety. Representatives of the Romanian presidency of the Council today reached a provisional agreement with the European Parliament on a proposal to strengthen road infrastructure management to reduce road fatalities and serious injuries. The reform will extend the scope of the current rules to motorways and other primary roads beyond the trans-European transport network (TEN-T). This will contribute significantly to the improvement of road infrastructure safety across the Union. The directive will also cover roads outside urban areas that are built using EU funding. The proposal introduces a network-wide road safety assessment, which is a snapshot of the

entire road network covered by the directive used to evaluate accident risk. Authorities will use the findings to carry out more targeted road safety inspections or take direct remedial action. It will become mandatory to take systematic account of pedestrians, cyclists and other vulnerable road users in road safety management procedures. These road users accounted for almost half of road fatalities in the EU in 2017.

AGREEMENT ON THE FIRST 'EUROPE ON THE MOVE' PROPOSAL: MODERNIZING THE EUROPEAN ELECTRONIC TOLL SERVICE DIRECTIVE

The EETS Directive has been revised and new text has been adopted. The European Parliament and the Council reached a political agreement during their third dialogue on the 'European Electronic toll service' (EETS) to enhance cross-border interoperability of electronic tolls, contribute to administrative simplification and reduce fraud.

INVESTEU TO BE VOTED BEFORE MAY?

On February 20th, the Committee of Permanent Representatives (Coreper, whose role is to prepare the Council meetings) agreed on a negotiating mandate given to the Romanian Presidency of the Council to start negotiations on InvestEU with the European Parliament. The Romanian presidency wishes an interinstitutional agreement (negotiated in order to accelerate the legislative process) be reached before the end of the current legislative term. The “InvestEU fund” is supposed to replace the “Juncker Fund” (EFSI) after 2020. One of the main changes is that it would move from a system composed of 15 EU financial instruments and one EU guarantee (EFSI) to a single EU investment support scheme (InvestEU fund), which would eliminate redundancies between instruments.

NEW TOLL ROAD PROJECT IN TURKMENISTAN

On January, Turkmenistan launched the construction of a \$2.3 billion tolled highway, with the goal of accelerating the transit of cargo through the territory of the Central Asian country to Europe. The 600-km-long highway is to connect the capital Ashgabat with the city of Tourkmenabat, near the border with Uzbekistan, and the town of Tedjen, near the border with Afghanistan and Iran. The project, entrusted to the private company Turkmen Awtoban, will be financed by a loan granted by the Turkmen Central Bank.

BOSNIA – CHINA GETS FIRST MOTORWAY CONCESSION

This is the first ever motorway concession in Bosnia and Herzegovina. Awarded, for a period of 33 years, to the only candidate for the project, China Shandong International Economy & Technical Cooperation Group, it includes the construction, maintenance and operation of the Banjaluka-Prijedor highway, in the northwest of the country.

SERBIA – TWO NEW CONTRACTS FOR MOTORWAY CONSTRUCTION

To connect its capital, Belgrade, to Sarajevo, in neighboring Bosnia and Herzegovina, Serbia has signed an agreement with the Turkish company Tasyap for the construction of two sections of the future Pozega-Uzice-Kotroman highway (61 km), valued at €830 million and Kuzmin-Sremska Raca (17.5 km), estimated at €210 million. The technical study is under development, expected to be finalized by mid-2019 for the end of work announced for 2020.

UNITED STATES OF AMERICA

WASHINGTON DEPARTMENT OF TRANSPORTATION GIVES AWAY TOLL-PAYING STICKERS

Drivers who use the new State Route 99 tunnel in Seattle can receive a free toll-paying sticker from the Washington State Department of Transportation. Residents just need to fill out a survey, and the sticker will be mailed to them.

COMMENTARY: NYC HAS MANY OPTIONS FOR FUNDING SUBWAY SYSTEM

New York City has numerous potential avenues for generating more revenue to improve its subway system, John Surico writes. Congestion pricing in the city's core is one option, while another is to land-value capture when property values rise as transit is upgraded, Surico writes.

TRUMP, CONGRESS EYE POSSIBILITY OF INFRASTRUCTURE BILL IN 2019

While the new Congress and the White House kick off 2019 in the midst of a partial government shutdown, President Donald Trump and the leadership of the U.S. House and Senate have acknowledged that authorizing funding for infrastructure projects will be their top legislative priorities.

After it abandoned its infrastructure agenda shortly after proposing a 10-year, \$1.5 trillion plan in February 2018, the White House appears ready to try pushing a plan again this year with a divided legislative branch.

Identifying a long-term source of funding for big-ticket construction and maintenance projects, however, remains elusive. Transportation policymakers rejected the president's plan due to its significant reliance on private sector backing. They continue to disagree on the best approach for securing dollars into a federal highway program headed toward insolvency in less than three years.

DRIVERLESS SHUTTLE PROGRAM MAKES DEBUT IN DENVER

A six-month pilot of a driverless shuttle project began in Denver on Tuesday, with the vehicles making four stops every 15 minutes along a route near Denver International Airport. The shuttles have someone on board to answer passengers' questions and monitor safety.

INTERNATIONAL INDUSTRY EVENTS CALENDAR

2019

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

AA	Automobile Association
ABB	Asea Brown Boveri
ADB	Asian Development Bank
AET	All-Electronic Toll
AfDB	African Development Bank
AAF	American Action Forum
AG	Stock company
AI	Artificial Intelligence
ALPR	Automatic License Plate Recognition
ALO	Avenida Longitudinal de Occidente
ANPR	Automated Number Plate Recognition
ARRB	Australian Road Research Group
ASECAP	Association euro penne des concessionnaires d'autoroutes et d'ouvrages à péage – European Association of Operators of Toll Road Infrastructures
AV	Autonomous Vehicle
AVI	Automatic Vehicle Identification
BOOT	Build-Own-Operate-Transfer
BOT	Build-Operate-Transfer
BPTJ	Greater Jakarta Transportation Management Authority
CABEI	Central American Bank for Economic Integration
CAGR	Compound Annual Growth Rate
CAV	Connected and Autonomous Vehicle
CCCC	China Communications Construction Company
CCR SA	Companhia de Concessões Rodoviárias
CCTV	Closed Circuit Control Center
CEO	Chief Executive Officer
C-ITS	Cooperative Intelligent Transportation Systems
CO2	Carbon Dioxide
COP	Climate Change Summit
CRBC	China Roads and Bridges Company
CRT	Concessionária Rio Teresópolis
CSIR	Council of Scientific and Industrial Research
CSS	Customer Service System

CTR	Austin's Center for Transportation Research
DC	District of Columbia
DDI	Diverging Diamond Interchange
DG Environment	Directorate-General for Environment
DG MOVE	European Commission's Directorate-General for Mobility and Transport
DOT	Department of Transportation
DPR	Detailed Project Report
DRC	Democratic Republic of Congo
DSRC	Dedicated Short-Range Communication
EBRD	European Bank for Reconstruction and Development
EC	European Commission
ECERDC	East Coast Economic Region Development Council
EETS	European Electronic Toll Service
EGNOS	European Geostationary Navigation Overlay System
EIB	European Investment Bank
EP	European Parliament
EPC	Engineering, Procurement and Construction
ERF	European Union Road Federation
ERP	Electronic Road Pricing
ETC	Electronic Toll Collection
EU	European Union
EV	Electronic Vehicles
FEMA	Federal Emergency Management Agency
FETC	Far East Electronic Toll Collection Company
FHWA	Federal Highway Administration
FIA	Federation Internationale de l'Automobile
GALILEO	European satellite navigation system
GDOT	Georgia Department of Transportation
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
HMI	Human Machine Interface
HOT	High Occupancy Toll
HOV lane	High Occupancy Vehicle lane
IADB	Inter-American Development Bank

IBTTA	International Bridge, Tunnel and Turnpike Association
IEC	International Electro Technical Commission
IIRSA	Initiative for the Integration of the Regional Infrastructure of South America
INEA	Innovation and Networks Executive Agency
IoT	Internet of Things
ISO	International Organization for Standardization
ITC	International Trade Commission
ITF	International Transport Forum
ITS	Intelligent Traffic System
ITSSA	Intelligent Transport Society of South Africa
JLR	Jaguar Land Rover
JORR	Jakarta Outer Ring Road
KFD	National Road Fund
KPC	Kuantan Port City
KURA	Kenya Urban Roads Authority
LAMBDA-V	Learning through AMBient Driving styles for Autonomous-Vehicles
LTA	Land and Transport Authority
LTA	La Trobe Autonobus
MaaS	Mobility-as-a-Service
MdTA	Maryland Transportation Authority
MENA	Middle East & Africa region
MOPC	Ministry of Public Works Commission
MOT	Ministry of Transport
MTA	Metropolitan Transportation Authority
MTM app	MyTransport.SG mobile application
NHAI	National Highways Authority of India
NPRA	Norwegian Public Roads Administration
NTE	North Tarrant Express
nVDC	Vehicle Detection and Classification Sensor
OBE/OBU	On Board Equipment/On Board Unit
OCTA	Orange County Transportation Authority
OECD	Organization for Economic Cooperation and Development
ORT	Open Road Tolling
OUTA	Organization Undoing Tax Abuse

PANYNJ	The Port Authority of New York & New Jersey
PIARC	Association Mondiale de la Route – World Road Association
PKM	Peshawar-Karachi Motorway
PPP	Public-Private Partnership
PT JLJ	PT Jalantol Lingkarluar Jakarta
QMB	Atténuateur d'impact, barrières automatisées et mobiles
RACV	Royal Automobile Club of Victoria
RFID	Radio Frequency Identification
RGV	Rio Grande Valley
RIA	Road Infrastructure Agency
RIDOT	Rhode Island Department of Transportation
RMS	Roads and Maritime Services
RSU	Road Site Units
RTA	Roads and Transport Authority
RUTA	Red Urbana de Transporte Articulado
SANRAL	South African National Roads Agency Ltd.
SCDOT	South Carolina Department of Transportation
SCT	Secretariat of Communications and Transport
SLEX-TR4	Southern Luzon Expressway-Toll Road
SRTA	State Road and Tollway Authority
SUMP	Sustainable Urban Mobility Planning
SwRI	Southwest Research Institute
TCC	Traffic Control Center
TEN-T	Trans-European Transport Network
TMETC	Tata Motors European Technical Center
TMT	Technology, Media and Telecommunications
TRA	Transport Research Arena
TRB	Transportation Research Board
TRY	Turkish Lira
TTI	Texas A&M Transportation Institute
TxDOT	Texas Department of Transportation
UAS	Unmanned Aerial Systems
UHF	Ultra-High-Frequency
UK	United Kingdom

UN	United Nations
UNECE	Economic Commission of the United Nations for Europe
US	United States of America
V2I	Vehicle-to-Infrastructure
V2V	Vehicle-to-Vehicle
V2X	Vehicle-to-Everything
VAT	Value Added Tax
VW	Volkswagen
WHSD	Western High-Speed Diameter
WIM	Weigh In Motion