

An aerial photograph of a city, likely Los Angeles, showing a complex network of highways and buildings. A semi-transparent network of white lines and dots is overlaid on the image, connecting various points across the city. The text is centered and rendered in a bold, white, sans-serif font.

IBTTA

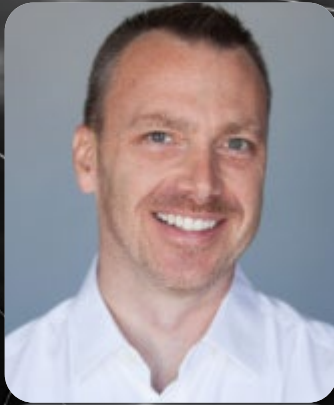
**EMERGING TECHNOLOGIES
CALL FOR VOLUNTEERS WEBINAR**

March 26, 2020

2020 WORKING GROUPS



James Hofmann
North Texas Tollway Authority
Chair of the Emerging Technologies Committee



Matt Milligan
Milligan Partners LLC



Shannon Swank
BancPass



Marwan Madi
CDM Smith



Jeff Dailey
CTRMA



Lev Pinelis
Transurban



TODAY'S LOGISTICS

- During today's webinar, participants are muted.
- Questions throughout the webinar are encouraged – use your questions box!
 - *If you are on mobile, your questions icon is on the bottom; on tablet, it's on the top*
- Questions will be addressed after all the presenters are finished.
- Please look out for a volunteer form sent to the email that you used to register for this webinar.



BLOCKCHAIN





BLOCKCHAIN

Engaging and educating the IBTTA membership by fostering a creative community of practice





2020 OBJECTIVES

- **Meet Biweekly**
- **Stay in Touch with Slack**
- **Develop Educational Content**
- **Engage the Community**
- **Virtual Meet-Ups**
- **Lab Projects**





BIG DATA



BIG DATA

- **2019 Objectives and Recap**
 - Establishing a Roadmap for Big Data Strategies
 - Recommending Processes for Assessing



2020 OBJECTIVES

- **Build Big Data Capabilities within Tolling Agencies**
 - Organization and Resource
 - Best Practices
 - Pilot
- **Further Elaborate Big Data Roadmap**
 - Data Platform Strategies
 - Cybersecurity, Privacy, Interoperability, and Standards
 - Data Analytics Tools



2020 WORK PLAN

- **Identify and assess use cases and readiness**
- **Involve Big Data and Telecommunications vendors**
- **Engage and Communicate**



CASE





CASE

- **Activity Highlights**
 - Have Expanded From CAV to CASE
 - Speaker Examples
 - Overall Status
- **Next Steps**
 - Continue Webinars
 - Pilot/Support Programs
 - White Paper





IMPACTS ON TOLLING SYSTEM

- **Task:** Identify how growing use and integration of CASE vehicles will impact tolling systems
- **Where We Started**
- **Goals**
 - Prepare for increased use of CASE vehicles
 - Understand how the tolling system will need to change
 - Give CASE vehicle owners and users value added
 - Identify potential future roadblocks and solutions





IDEAS TO CONSIDER

- Changing Vehicle Ownership
- In-Vehicle Services
- Adjusting Current Legal Agreements and Policy
- Real Time Toll Processing
- Accurate use of Big Data
- Emerging Technology





TOLLING AND CUSTOMER MANAGEMENT



TOLLING AND CUSTOMER MANAGEMENT

**Develop a roadmap for Toll
Operators and third-party
providers to engage**



CONSIDERATIONS

- **Why Third-Parties?**
- **Legal**
- **Technical**
- **Customer Service**



2020 OBJECTIVES

- **Standardized ICD**
- **Standard Legal Agreement**
- **Baseline Customer Service Requirements**



INNOVATION





INNOVATION

- **2019 Objectives and Recap**
 - Building innovation capacity
 - Advancing regional collaboration and interoperability
 - Technology and Innovation Matrix





2020 OBJECTIVES

- **Build innovation capacity within an agency**
 - Innovation best practices
 - Organization and resources
- **Further develop the Innovation and Technology Matrix**
 - Use case
 - Prioritize
 - Innovations
 - Other disciplines





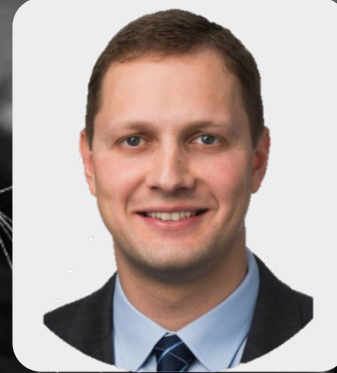
2020 WORK PLAN

- **Identify and assess use cases and readiness**
- **Engage**
- Surveys and structured interviews
- **Communicate**
- Innovation and technology briefs

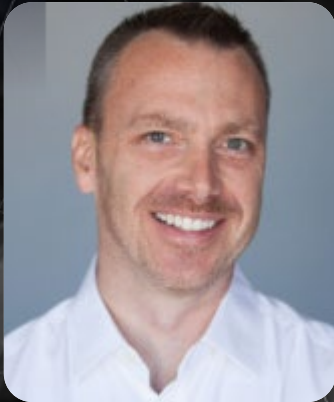




James Hofmann
North Texas Tollway Authority
Chair of the Emerging
Technologies Committee



Lev Pinelis
Transurban



Matt Milligan
Milligan Partners LLC



Shannon Swank
BancPass



Marwan Madi
CDM Smith



Jeff Dailey
CTRMA



SEND ADDITIONAL QUESTIONS TO:

Frank Velez

FVELEZ@NTTA.org

SURVEY COMING SOON TO YOUR INBOX