



Smart Cities/Communities  
Intermodal  
MicroTraX

# Smart Cities/Communities Intermodal MicroTraX



Estimated Hours

8



Number of Courses

14



Learning Type

Video-based instruction, learning is self-paced and allows you to have access to professionals in the industry.



Need Help?

Contact us at [support@thenexted.com](mailto:support@thenexted.com) to discuss this MicroTraX with an advisor.

# Smart Cities/Communities Intermodal MicroTraX

This MicroTraX is designed for industry professionals who have an interest in, or an active project underway, deploying interconnected Intelligent Transportation and new mobility technology and services. The program provides an understanding of the framework necessary to structure RFPs, making informed technology purchasing decisions. These methods keep all parties on the same page to ensure more successful deployments and outcomes.

## COURSE OBJECTIVES

- What are the different concepts within Intermodal transportation systems?
- What are the key policies?
- How do Intermodal transportation systems operate?
- What is the framework for structuring a typical Request For Proposal (RFP)?
- What are the key drivers in making informed technology decisions?
- How do OEMs, suppliers and communications contribute?

## COURSE OUTLINE

- Structure of Transit and Infrastructure Ecosystems and Funding
  - City/Local
  - Regional
  - State
  - National
- Trends in New Approaches for Passenger Mobility
  - The Concept of Friction
    - Multiple System Apps
    - Cashless Payment
- New Mobility and Increasing Modal Options
- Promoting Active Modes of Transportation
- Tolling
  - What is a Traditional Toll Road?
  - Express Toll Roads
  - Tolling Technology
- Trends in Freight and Commercial Transportation
  - Long Haul
  - Campus
  - First Mile/Last Mile
- UAVs

- Trends in Infrastructure
  - Defining Infrastructure
- Learnings from a Pandemic
  - Protecting Workers
  - Micromobility and the Pandemic
  - Considerations for What's Next
  - Importance of Appropriately Designed Public Spaces
- Successful Procurement of new Technologies
  - Procurement from the Outside Looking In
  - Procurement from the Inside Looking Out

## Prerequisites

There are no prerequisites for this MicroTraX.

## Are there discounts or payment plans? What if my employer is paying?

The NEXT Education does provide a government employee discount. Please contact us to receive a link to use with your registration to receive that discount. We do not present payment plans, however, we do accept most major credit cards. Should an employer be paying for the registration, please contact us.

## Learn From The Best In The Field



### Alisyn Malek

Executive Director, Commission on the Future of Mobility  
CEO, Middle Third  
Co-Founder, May Mobility

Alisyn Malek is the Executive Director for the Commission on the Future of Mobility. She is also the founder and CEO of Middle Third, a boutique mobility consultancy helping clients to unlock the potential of technology and transportation. Prior to these roles, she co-founded May Mobility building autonomous vehicle transportation solutions. She grew the company from laboratory concept to operations in three states and a strong pipeline for growth in less than three years. Alisyn started her career as an engineer working on electric vehicle charging technology at General Motors before moving to their corporate venture arm, leading investments across electrification, connected vehicles, mobility and autonomy. Alisyn was recognized as an Automotive News All Star in 2019, a top ten female innovator to watch by Smithsonian in 2018 and a top automotive professional under 35 to watch by LinkedIn in 2015.

## Learn From The Best In The Field



### David Zipper

Visiting Fellow, Harvard Kennedy School

David examines the interplay between urban policy and new mobility technologies. With articles published in *The Atlantic*, *WIRED*, *Slate*, and *Car and Driver*, David's 2018 article in *Fast Company* was the first to apply the "walled garden" framework to urban mobility platforms. David's work focuses on Mobility-as-a-Service (MaaS), the uses of transportation data, the future of micromobility, and linkages between public transit, city regulations, and private shared vehicles. From 2013 to 2017, David was the Managing Director for Smart Cities and Mobility at 1776, a global entrepreneurial hub with over 1,300 member startups. He previously served as the Director of Business Development and Strategy under two mayors in Washington DC, where he led support to Washington's first startup incubators and guided the city's response to the emergence of ride hail services. Before moving to Washington, David served as Executive Director of NYC Business Solutions in New York City under Mayor Bloomberg. David holds an MBA with Highest Honors from Harvard Business School, an M.Phil in Land Economy (Urban Planning) from Cambridge University, and a BA with High Honors from Swarthmore College.

## Learn From The Best In The Field



### Kelley Coyner

Senior Fellow, Center for Regional Analysis & Schar School of Policy & Government  
George Mason University

Kelley's focus is on what makes regions smart and sustainable and on the partnerships and products needed to launch new smart mobility strategies, programs, and deployments. She brings a wide range of experience deploying innovative policies and programs that make communities thrive. A three-time CEO as Executive Director of the Northern Virginia Transportation Commission, a Senate-confirmed CEO for Research and Special Programs Administration at the US Department of Transportation and founder of Mobility3 and Mobility Innovation Lead for Stantec, Kelley understands how to harness technology to make mobility safer. Her technical and policy expertise has been honed and applied through her work at MIT, Harvard, the Coast Guard Academy, the National Academy of Sciences, and the Volpe Transportation Center. Kelley recently completed an assessment of Low Speed Autonomous Vehicles in Public Transportation and authored a Framework Accessible, Automated, Connected, Electric and Shared Mobility for the state of Hawaii.

## Learn From The Best In The Field



### Lev Pinelis

Toll Industry Expert, Toll Insight

Lev Pinelis has over fifteen years of comprehensive experience in the tolling and transportation systems industries working in strategic planning, technology development, operations and innovation with emerging solutions. He currently serves as the Director of Innovation for Transurban North America, where he oversees the strategy and implementation of emerging technology programs, including new Intelligent Transportation System (ITS) and Smart Mobility solutions on Transurban's North American toll road facilities. Prior to joining Transurban in 2010, Lev helped pioneer Express Lanes projects in the Washington, DC region, leading engineering and management for the development, delivery and operations of the dynamically priced tolling system. He began his career as a Transportation Systems Engineer and consultant with IBI group, where he focused on tolling systems design, testing, operations, and analysis. He also developed USDOT sponsored Connected Vehicle prototype projects while with Battelle. Lev holds a Bachelor of Science in Civil Engineering from Carnegie Mellon University and a Master of Science in Transportation from Massachusetts Institute of Technology. He is a licensed Professional Engineer in Virginia and a founding member and chairperson of the IBTTA Connected, Automated, Shared and Electric (CASE) Vehicle working group. Lev is based in Northern Virginia USA, just outside of Washington DC.



## Learn From The Best In The Field



### Matt Quinn

Owner & Flight Director, Great Lakes Drone Company

Matt Quinn has been responsible for major breakthroughs in the drone industry. As a driver of technology and innovation across a variety of commercial and public applications, he provides regulatory consulting for the ever expanding field of drone technology for several public and private UAS operations. Matt's primary focus has been unmanned aerial system integration into the commercial market. These accomplishments include one of the first ten FAA commercial night waivers and the 3rd Multiple Unmanned Waiver by the FAA. He holds several authorizations within the US, Canada, Sri Lanka, and Morocco markets for UAS operations on multiple platforms. These operations include aerial cinematography, aerial and underwater search and rescue, SWARM technology and aerial crop spraying with agricultural data management. Working with companies like SeaWorld, EAA, AOPA, Universal Studios, the Sri Lanka Navy and Haileys Group, Matt is an industry leader in proof of concept aerial UAS operations. He has expanded educational services to Part 141 compliant UAS education. His recent partnership with Fortem Technologies secured further technology, knowledge and demonstration capabilities of anti-UAS program management.

## Our Approach

The NEXT Education's platforms provide you and your teams with the knowledge and power to innovate and advance the development and deployment of the intelligent transportation and new mobility industries. We have partnered with organizations working in industries developing and advancing intelligent transportation and new mobility systems to offer credentials, certifications and CEU/PDH credits.

### MicrotraX Platform

Through a series of video-based and online live instruction, learning is delivered in a flexible, convenient and entertaining format. With knowledge check throughout the process, these self-paced programs allow you to advance your career whenever and wherever you are ready to learn.

### Video & Online Seminar Based Programs

The video and online learning model is both collaborative and flexible combining the best of self-paced and instructor-led learning.

### Real-World Projects

Real world projects and problems, proposed by subject matter experts in the field, give you the opportunities for hands-on, up-to-date skills by putting them into practice and creating a portfolio of work.

### Certification & Credentialing Programs

Our innovative certification and credentialing partnerships allow you to stay up to date but, more importantly, to gain valuable recognition to advance your interests and your career.



# The NEXT Education

## For the Change Agents. For the Curious. For the Innovators.

Intelligent transportation and new mobility systems are built on critical knowledge and deep problem-solving skills combined with a passion for creating a safer, accessible, equitable, sustainable and connected transportation infrastructure.

As connected and autonomous mobility and smart cities rapidly increase, so does the demand for knowledgeable leaders, certified and credentialed employees, and skilled workers. This requires consistent up-to-date information on new technologies and real-world experience to stay relevant in an increasing number of fields.

Subject matter experts in the field offers opportunities for hands-on, up-to-date skills by proposing field-inspired problems to solve as part of a course project. This puts their learning into practice and builds experience and a meaningful portfolio.

As part of The NEXT Education's educational offerings, our innovative certification and credentialing programs help students gain valuable recognition necessary to upskill and succeed in their careers. With credentialing and certification curriculum developed in strategic partnerships with industry leaders and insights for what's next weaved into our own instructor base you will be well-positioned to provide impactful insights in the workforce of today and tomorrow.

### Installers & Technicians

For installers and technicians who are seeking ways to upskill and equip themselves with the knowledge and expertise of today's advanced technology systems, The NEXT Education offers various tracks in autonomous and connected vehicles, and more.

### Engineers

Smart infrastructure, intelligent transportation and mobility communication advancements are becoming more and more of a reality in the mobility landscape. We have those offerings to help engineers get ahead of the curve.

### Leaders & Planners

For the next-generation mobility leaders and visionaries, The NEXT Education provides unique dialogue from industry experts in the public policy, transportation, automotive and emerging technology fields.

### Policy Makers

Understanding legislation, regulation, the administration of both and communicating the intersection of data, technology and transportation to the public is imperative.

If you have specific areas of interest, please contact us and we can guide you to other programs that suit your needs.

## Want to Help Others Be Agents of Change? Partner With Us!

We know that building and refining quality education programs starts with strong partnerships. THE NEXT Education is always looking for strategic partners to support and grow the potential for new immersive educational offerings. Together, The NEXT Education and our strategic partners map out the learning path and delivery options through highly customizable approaches. This nimble and agile approach allows educational opportunities for ever evolving skills and needs.