The New Mobility Path
9-10 December, Atlanta, Georgia
Podcar city 2021

PODCAR CITY DECEMBER 9-10
PROGRAM & SPEAKER UPDATE

New planning tools, products and services are available to the growing mobility ecosystem, one which promises to meet the challenges of urban congestion, provide mobility for all and address environmental concerns.

Come to Atlanta to learn about, hear and discuss planning and deployment opportunities incorporating automated, connected, electric, and shared transportation technologies. The 2021 PodCar City conference focuses on cities and airports and their urgent need on making a reality of new modes of public, automated transportation through technology, planning & business opportunities.

Through discussion and information exchange we'll separate hype from reality and uncover practical solutions which are being investigated today to address real problems.

"We are proud to serve as the host city for the 2021 Podcar City Conference. The ATL Airport Community Improvement Districts (AACIDs) have a vision for technological innovation that will improve the quality of life and mobility for property owners in and around one of the world's busiest airport, Hartsfield-Jackson Atlanta International Airport (HJAIA). Our AACIDs PRT Advisory Group with representatives from key transit nfluencers such as MARTA, GDOT, and HJAIA are excited to support cost effective modes of transportation, such as Personal Rapid Transit (PRT), throughout South Metro."   Gerald McDowell, Executive Director, AACIDS

Workshop Wednesday Dec 8 at 1pm for those of you who want to start planning a network. We will use Podaris & 4Dialog technology. Email us at info@podcarcity.org to participate The workshop is available for all who have registered.

4Dialog · ATL AIRPORT COMMUNITY IMPROVEMENT DISTRICTS Growing Together. Raising Value. · ANDREW YOUNG FOUNDATION

atra Advanced Transit Association · OCEANEERING · podaris

Program – Overview (Preliminary)

(VR) indicates sessions which are accessible to remote (virtual) participants (Zoom).
Moderated by Aurora Lindstrom, 4Dialog

Wednesday December 8 – Pre conference activities

1 pm- **A workshop will be hosted on Wednesday Dec 8 at 1pm for those of you who want to start planning a network.** Please send email to info@podcarcity.org before this day so we can prepare for your ideas and questions
7 pm – **Cocktail reception** at the conference hotel

Thursday December 9 – Main conference day

8.30 AM – Breakfast coffee/tea & Registration
9.00 – **Introductions & Welcome** – Gerald McDowell,
      ATL Airport Community Improvement Districts, Host (VR)

9.10 – **Keynotes**
      Andrew Young, former US Ambassador to the United Nations
      Robb Pitts, Chairman Fulton County Board of Commissioners
      Jeffrey E. Turner, Chairman Clayton Board of Commissioners
      Ellen Dunham-Jones, Architect, Georgia Tech
      "Retrofitting Suburbia: Urban Design Solutions for Redesigning Suburbs"

MAIN PANELS AND DEMONSTRATIONS

10.10 – **Setting the stage** – Peter Muller, President ATRA & PRT Consulting (VR)

10.35 – **New and emerging projects** – Moderator Steve Hamilton, ATRA (VR)
      Ultra PRT Ltd, Microtransit (Ultra) , 2getthere, Modutram, Glydways, skyTran.
      Kigali, Supraways - *Note: List to be confirmed and might change*

11.50 – **Demonstration at site**, exhibitors and box lunch, Introduced by Matthew Lesh
      Oceaneering, Beep, more TBA

1.10 PM – **Technology, Transit and Infrastructure** – Moderated by
      Krystal Harris, ATL Airport Community Improvement Districts (VR)
      MARTA, CobbLinc, Georgia Department of Transportation,
      Atlanta-Region Transit Link Authority,
      and Professor Ingmar Andreasson

2.30 – **Financing and Making Sense** – Moderated by Magnus Hunhammar, ISTCAB (VR)
      The Uppsala case, Financing studies, speakers TBA

3.45 – Coffee, exhibitors

4.00 – **New industry emerging and global effects** – Moderated by Christer Lindstrom, 4Dialog
      Speakers TBA

5.00 – Adjourn

7.00 – Conference Dinner at the Kimpton Hotel

Friday December 10 – Universities, Students and planned research and projects

9.00 AM **Georgia Tech Airport Systems Design Research Group** (VR)

School of City and Regional Planning, School of Aerospace Engineering, School of Architecture and Smart Cities & Inclusive Innovation, in collaboration with ATL Airport Community Improvement Districts (AACIDs)

Airport cities are emerging as a global city landscape. Many global cities are turning their "city airport" to "airport city", in which city centers are built around globally significant airports (Kasarda, 2013). Hartsfield-Jackson Atlanta International Airport as the largest hub of the U.S. and as an "urban center" has 110-million passengers in 2019, a daily average of 300,000 people flowing in/out. The future airport city hub is a transportation interchange, a complex urban system that contains flows of people, goods, energy, water and information. Airports and airline operations have been significantly affected due to Covid-19. How will the future airport city system be redesigned to become safer, cleaner, nimbler and more resilient to mitigate the impact, while being able to adapt to future disruptions? The panel will discuss how we envision the post Covid-19 future airport city as smart systems design. It covers the following topics:

    1. Post Covid-19 airport city environment to be safer, resilient and socially inclusive.
    2. Airport city hub planning and design
    3. Smart mobility technologies and integration
    4. Near-zero energy and carbon neutrality

9:00 – 10:15am: Panel of Future Airport City (VR)
Moderated by Ms. Debra Lam, Georgia Tech

Panelists: (Participants to be confirmed)
  • Georgia Tech Airport City Systems Design Research group
  • Prof. Dimitri Mavris, Aerospace Systems Design Laboratory (ASDL), School of Aerospace Engineering, Georgia Tech
  • Prof. Perry Yang, Eco Urban Lab, School of City and Regional Planning and School of Architecture/ Prof. Nancey
    Green Leigh, College of Design, Georgia Tech
  • ATL Airport Community Improvement Districts (AACIDs)
  • Mr. Gerald McDowell, Executive Director of AACIDs
  • Hartsfield-Jackson Atlanta International Airport (HJAIA)
  • Ms. Jaimi Tapp, Director of Strategic Planning of HJAIA
  • Metropolitan Atlanta Rapid Transit Authority (MARTA)
  • Mr. Kirk Talbott, CIO of MARTA

10:30 – 11:30am: Future Airport City Systems Design Concepts (Students' presentation)
Moderated by Dr. Michael Balchanos, Georgia Tech

  • Airport City Hub Design
  • Carbon Neutral Design Strategy
  • Future Mobility by PRT and Autonomous Vehicles
  • Urban Air Mobility and Vertiport
  • Airport City Digital Systems Platform

11.30 - 12.35am: Innovative Transit Network Project - A three year multi city project (VR)
Moderated by Magnus Hunhammar, ISTCAB

  * Four cities, four airports, What are the common challenges?
  * Planning Cities Mobility - Lisbon Case, Rita Castelbranco
  * City Information Modelling (CIM) and Urban Design - Todor Stojanovski
  * Planning Cities Mobility using Podaris, Nathan Koren
  * Public outreach using Gaming Technology, Christer Lindstrom

12.40 - Adjourn

Georgia Tech

Speakers (to be extended)

Gerald McDowell, Executive Director, ATL Airport Community Improvement Districts

With over 30 years of professional experience, McDowell is humbled by his experiences and remains diligent in his commitment to provide a strong, safe, attractive, and vibrant community for South Metro Atlanta

Krystal Harris, Program Director, ATL Airport Community Improvement Districts

Krystal Harris, brings a wealth of strategic planning and high level project management skills to our team. She worked at GDOT for 12 years in various roles in Planning and Asset Management. While at GDOT, she focused on working in the most feasible way while meeting the goals and objectives of the Department. Understanding projects from conception to construction gives Krystal a unique perspective as a Program Director and enables her to look at challenges from various perspectives while keeping the company's mission and vision top of mind.

Ellen Dunham-Jones, Architect & Director Urban Design Program, Georgia Tech

Ellen is Director of the Master of Science in Urban Design degree, an authority on sustainable suburban redevelopment, and a leading urbanist. Author of over 100 articles, she is co-author with June Williamson of the retrofitting suburbia book series documenting successful retrofits of aging big box stores, malls, and office parks into healthier and more sustainable places. Retrofitting Suburbia: Urban Design Solutions for Redesigning Suburbs,

Peter Muller, President, Advanced Transit Association (ATRA)

Imagine public transit where all trips are express, premium trips are nonstop and economy trips cost the same as bus fare. Imagine public transit that takes traffic off the roads, uses ¼ the normal energy per passenger mile and is renewably powered. Imagine public transit where everyone lives and works within 5 minutes' walk of a station. This is the dream I am working to realize through ATRA and my work with companies including PRT Consulting and Vuba.

Andrew Young, Andrew Young Foundation

The Andrew J. Young Foundation is an extension of Ambassador Young's vision, values and virtues that continue to inspire leaders around the world to work toward a global community of peace, prosperity and inclusion. The Foundation embodies his philosophy of creative nonviolence, exemplary of his work as pastor, civil rights leader, diplomat, politician and humanitarian — establishing a model and legacy of effective servant leadership for current and future leaders in Atlanta, America and the world.

Robb Pitts, Fulton County board of Commissioners

Before being elected Chairman in 2017, Robb Pitts served on the Fulton County Board of Commissioners for twelve years. As a commissioner, he advocated to relieve the tax burden on Fulton property owners, supported the library system, protected animal rights, and helped encourage economic development in South Fulton County.

As chairman, Robb has worked to defend Fulton County's elections system and voters, navigate the COVID-19 crisis, and bolster minority-owned financial institutions.

Jeffrey E. Turner, Chairman Clayton Board of Commissioners

Jeff Turner's belief is that we all play a vital role in building a better future and quality of life for every citizen in every community. As Chairman of the Board of Commissioners, he provides dependable leadership in the development of a progressive vision for Clayton County. Since taking office, Chairman Turner has been appointed to numerous committees which include the Governor's Funding Committee on Juvenile Justice, the Executive Board of the Atlanta Regional Commission (ARC), and the Metro Urban Chairs Committee, just to name a few.

Rita Castelbranco, Architect and researcher at CITUA/IST, Lisbon Portugal

Architect. Urban planner and mobility expert, from strategy to project development. Researcher at CiTUA/IST. Currently doing a PhD in Architecture on the topic Reshaping the City: new parameters for a better urban environment.

Speakers (to be extended)

Christer Lindstrom, CEO 4Dialog / ITN

My interest is focused on sustainability, democracy and the processes that supports these important parts of life. At 4Dialog I work with immersive visualization and simulation technology for better communication between key stakeholders in developing cities.

Matthew Lesh, Director TESIAC

I am passionate about mobility for all. My diverse background spans government, non-profit, bioscience, and transportation. I spent roughly 13 years in the federal ecosystem developing, supporting, and executing policy and programs for the United States Department of Transportation and have worked across the industry from research to deployment.

Magnus Hunhammar, CEO IST, Sweden

ISTCAB is a partner for integrated urban and traffic planning for more sustainable cities. ISTCAB does Consultancy, research & conferences. Founder of the International Podcar City Conference. Magnus is the former executive Director of the City Network KOMPASS, an organisation focused on researhing possibilities for new modes of urban mobility

Dr Michael Balchanos, Georgia Tech

Michael Balchanos is research faculty with the School of Aerospace Engineering, where he serves as the Resilient Systems Branch lead at the Aerospace Systems Design Laboratory. He is also leading ASDL's Automotive Systems Research Initiative with applications in electric vehicle energy-based sizing and optimization (EVs) as well as the development of SoS-level frameworks for the connected autonomous mobility ecosystem of the future.

Aurora Lindstrom, CMO 4Dialog

Aurora is responsible for project coordination at 4Dialog and works part time for supporting youth projects in the UIDC project. Aurora is currently Project coordinator at the Stockholm County Administrative board and holds a master degree in Environmental sciences at Lund University.

Todor Stojanovski, Royal Institute of Technology, Stockholm Sweden

Todor hold a PhD in Urban and Regional Studies at the KTH Royal Institute of Technology in Stockholm. His research focuses on urban form and mobility, urban design and transportation infrastructures, habitation and mobility (sub)cultures.

Ms. Debra Lam, Georgia Tech

Debra Lam is the Founding Executive Director for Partnership for Inclusive Innovation. This is a statewide public-private partnership committed to investing in innovative pilot projects. She also continues to lead smart communities and urban innovation work at Georgia Tech. She founded the Georgia Smart Community Challenge, the first state-wide effort in the nation that empowers communities of all sizes to become smarter

Steve Hamilton, ATRA & CityTram

I am spending my time in a philanthropic effort to improve mass transit (working mostly in the Miami area). This involved self-directed study in Civil and Mechanical engineering (enough to be dangerous) sufficient to do realistic first pass design of a Personal Rapid Transit system, for the primary purpose of cost estimation.

Nathan Koren, CEO Podaris, UK

Infrastructure projects are becoming ever-more sophisticated, requiring the integration of more and more technologies and disciplines. At the same time, they are also becoming more democratic, with the input of increasingly diverse stakeholder groups. Podaris is a platform for real-time interdisciplinary planning and design of infrastructure projects, putting collaboration and transparency front and centre.

Ingmar Andreasson, Certified Research Associate at Mineta Transportation Institute

Ingmar specializes in planning, design and evaluation of generic (vendor-independent) Personal Rapid Transit systems, operating strategies and interplay with other transit modes. Ingmar previously was a professor at the Swedish Royal Institute of Technology, Stockholm

Dimitri Mavris

Dr. Dimitri Mavris is a Regents' Professor, Boeing Professor of Advanced Aerospace Systems Analysis, and an S.P. Langley Distinguished Professor. He also serves as the director of the Aerospace Systems Design Laboratory (ASDL) and executive director of the Professional Master's in Applied Systems Engineering (PMASE).

Nancy Green Leigh

Nancey Green Leigh is a Professor in the School of City and Regional Planning and adviser for the economic development planning, working with masters and doctoral students.

Maintaining an active research program, Leigh is currently leading a project entitled "Workers, Firms and Industries in Robotic Regions," funded by the National Science Foundation's Robotics Initiative. She previously led a large scale research effort by three universities focused on sustainable industrial systems for urban regions. Both of these efforts as well as other funded research (brownfields, urban land and manufacturing, resilient infrastructure) contribute to Leigh's long term focus on advancing sustainable development for local and regional economies.

Perry P Yang

Perry Yang is a an Associate Professor at Georgia Institute of Technology at the Eco Urban Lab.

Jaimi Tapp

Jaimi Tapp is the director of strategic planning, overseeing the strategic plan development and implementation for Hartsfield-Jackson Atlanta International Airport. Mrs. Tapp has 25 years of airport management experience. She began her career at focusing on airport master planning, aviation systems planning and airport noise issues. She has worked ATL since 1991 as an airport employee or consultant.

Kirk Talbott, MARTA

Kirk Talbott has more than 26 years of experience in Information Technology spanning the entire gamut of IT functions across multiple industries in the private and public sectors. As the CIO for MARTA, Kirk is responsible for the technology portfolio of the 9th largest Public Transit agency in the United States and is passionately focused on improving mobility through innovation.

Friday December 10 - Presentation of current and planned student projects all over the world - San Jose State University, NC State, Georgia Tech, ITRL Sweden, The UIDC Project and the upcoming ITN Project - and more!

Existing and Emerging Technologies

There is a plenthora of both existing and emerging technologies for Podcars - small, slower mini buses, medium sized self driving buses, systems operating on their own tracks or shared with regular traffic and more. We list here some of the systems available to use today and some emerging. some conceptual. We have filtered out systems without funding.

Oceaneering/2Getthere - Existing (Masdar, Rotterdam)
The REVO-GT™ is a unique vehicle system that uses self-guided, driverless group transit vehicles, each capable of transporting up to 24 passengers on a dedicated guideway allowing passengers to select from pre-programmed routes connecting different origins to one or more specific destinations.

Modutram/Autotren - Emerging, run on its own track, test track available
Autotrén is a rapid transit system based on GRT (Group Rapid Transit) technology that offers agile and sustainable mobility, particularly for congested urban corridors and medium sized cities.

Morgantown - Worlds oldest operational system
Morgantown Personal Rapid Transit (WVU PRT) is a personal rapid transit (PRT) system in Morgantown, West Virginia, United States. The system connects the three Morgantown campuses of West Virginia University (WVU) and the city's downtown area.

Supraways - Conceptual, test track underway
Spacious and comfortable 7 to 9 seated cars (belts) . Supras Transport on demand, no timetable, direct trips from origin to destination, 24 / 7 service availability. Supras High speed, 50 km/h on average. Supras Solar canopies, CO_2 -neutral.

Vuba - Conceptual
Vuba is a USA and Rwandan Smart City mobility company that provides an ICT solution for public transport. We focus on driverless electric vehicles that are powered by solar energy for zero emission transportation.

Beep - Operational vehicles in several places
Beep is Autonomous Mobility as a Service provider offering fully managed mobility solutions to both public and private communities. Beep's fully managed autonomous mobility, turn-key mobility offering delivers a safe, reliable, stress-free transportation service.

Easymile - Oerational vehicles in several places
EasyMile's unique technology allows autonomous vehicles to drive safely with cars, bikes, pedestrians and so on. They understand the environment as it is. No need to build or make anything extra!

Skytran - Maglev based hanging PRT
vehicle only stops at your chosen destination. Bypassing stations along the way, you travel at high-speed for the duration of your trip. This is the very definition of seamless point-to-point travel. The maglev technology allows vehicles to move along the track on a cushion of air. This means that your ride is always fast, smooth, and quiet.

ULtra - The London Heathrow System
Ultra pods are a new type of transportation technology, which consists of small, lightweight, driverless electric vehicles running on special-purpose guideways. Ultra pod provides on-demand, non-stop transportation in your own personal vehicle.

Glydways - California emerging system with test track
Glydways is currently helping cities and communities supplement existing public transportation networks with faster, more efficient, more sustainable self-driving shuttles.

GENERAL INFORMATION

The conference takes place at the Kimpton Overland Hotel December 9-10 2021. You are invited to attend either in person or by internet connection (Zoom, limited number of participants). For booking rooms, please use the link here or call 1-800-KIMPTON and mention the group "Podcar City" for the conference group rate ($139+Tax). The Hotel is a fully accessible. Please call the Reservation Specialist at (470) 466-3300 or email accessible@kimptonoverlandhotel.com. The conference homepage with full program, prices, speakers and other information is available at https://podcarcity.org/podcar-city-conference-2021/

Pricing

All prices include Wednesday Happy Hour and Thursday Evening Dinner. Note: Workshop included if you are registered.

Full	$ 695	
Thursday only	$ 595	
ATRA + new membership	$ 495	REGISTER NOW!
Student	$ 195	
Academic/Government	$ 495	
Exhibit Space without ticket)	$ 595	
Exhibit Space with 1 ticket	$ 995	
Virtual Attendees (limited, no dinner)	$ 195	
Virtual Attendees - Student (ltd. sessions)	$ 25	

Welcome! Aurora, Christer, Matt, Gerald, Charlie, Krystal and Kyana