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METRO ATLANTA CHAMBER
#GrowAtlanta
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METRO ATLANTA CHAMBER

IoT.ATL

Becomming a

GLOBAL LEADER IN IoT INNOVATION

and a

SMART CITY OF THE FUTURE

Promote metro Atlanta's strengths as an IoT powerhouse

Recruit talent and drive economic development in the region

Drive partnerships, collaboration and engagement in ATL IoT and smart cities community

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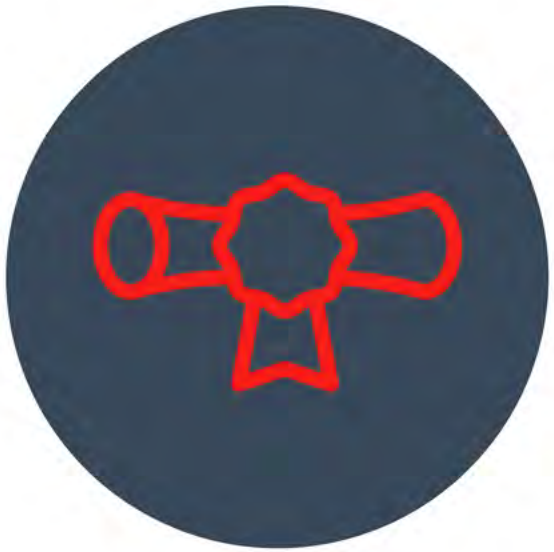
KEYS TO COLLABORATION



PARTNERSHIP WITH ACADEMIC COMMUNITY

PUBLIC & PRIVATE COLLABORATION

UNITE STARTUPS & INVESTMENT OPPORTUNITIES

OPEN ACCESS TO DATA & IOT TECH

KEY STAKEHOLDERS

BUSINESS LEADERS

CITY & STATE GOVERNMENT

HIGHER EDUCATION / RESEARCH

NON-PROFITS

ECONOMIC DEVELOPMENT ORGANIZATIONS

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What Does the Future Hold?

IoT will change the world as we know it

- IoT and IIoT will make the world a better place by bringing intelligence to things around us
- The value of IoT is in the insight it provides
- The mix and wealth of the data collected, the advancements in AI and Machine Learning, and the rise of Open Data Platforms has transformed our future

Transportation

Internet-connected cars will reduce traffic accident injuries by 350,000 every year by 2025, and save 11,000 lives each year (Bosch)

90% of cars are estimated to be connected to the Internet by 2020 (Link-Labs)

By 2020, 75 percent of new cars will come with built-in IoT connectivity

Atlanta is creating our Smart City of the Future

Focused on Four core pillars

- **Transportation / Mobility**
- **Public Safety**
- **Environmental Sustainability**
- **City Operational Efficiency**

Use the data in varied ways

Descriptive – to explain what happened

Diagnostic – explain why it happened

Predictive – explain what might happen

Prescriptive – recommend action based on predictive data

The Smart Corridor

Partnerships and Collaboration are Key

Smart Mobility

- North Ave Smart Corridor chosen as one of FIVE cities worldwide for "Together for Safer Roads Challenge" w/ video & acoustic sensors provide data to predict crashes and predict collision risk levels

ITS (Intelligent Traffic Signal)

- Cross-jurisdictional **traffic signal coordination**
- Adaptive traffic signal control system.
- "Smart" signal control uses real time vehicle counts obtained from sensors and determine the most appropriate cycle time and optimized splits

Autonomous Vehicles Test Bed

- Driverless and Driver Assisted (GA one of only states to allow fully autonomous vehicles)

The Smart Corridor Mobility Benefits

- Reduces energy use, increases sustainability, and lowers cost
- Reduced commute
- Emissions & fuel consumption reduction
- Millions of dollars saved
- Reduces traffic delays up to 25% during peak times
- Reduced the time to clear large event traffic by 50%
- Decrease carbon footprint
- Increases emergency services efficiency
- Road obstacle detection
- Increased parking efficiency and parking violation detection

Looking Forward

The Ray

- 26 miles of GA highway that serves as a proving ground for the evolving ideas and technologies that will transform the transportation infrastructure of the future
- Solar-powered vehicle charging, tire safety check station, solar-paved highways
- Leverage IoT tech to transform the role of highways to connect and restore leveraging traffic, weather, collision, and pollution data to inform smarter design
- By 2020: Zero Deaths, Zero Waste, Zero Impact

T4America Smart Cities Collaborative

- 22 communities in the 2nd cohort of the Smart Cities Collaborative program - exploring how emerging technologies and new mobility options can improve urban transportation
- Cities cooperatively tackle the challenges related to implementing smart mobility policies and projects.
- Focus on how emerging technologies and new mobility options are reshaping the right-of-way and curb space, and changing the way we move through our communities

Smart Campus

Urban AV Live-In Lab

- 1st US urban autonomous vehicle test area
- Launch spring/summer 2018
- Data collection for C2V, V2I, V2P
- Tied to City of Atlanta's AV pilot

"Innovation doesn't come just from giving people incentives; it comes from creating environments where their ideas can connect.

STEVEN JOHNSON

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GREATNESS LIES AHEAD

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