# GEORGIA SMART COMMUNITIES CHALLENGE

Enabling Resiliency and Sustainability through
Academic Research and Public Sector Collaboration

## Informational Session #2
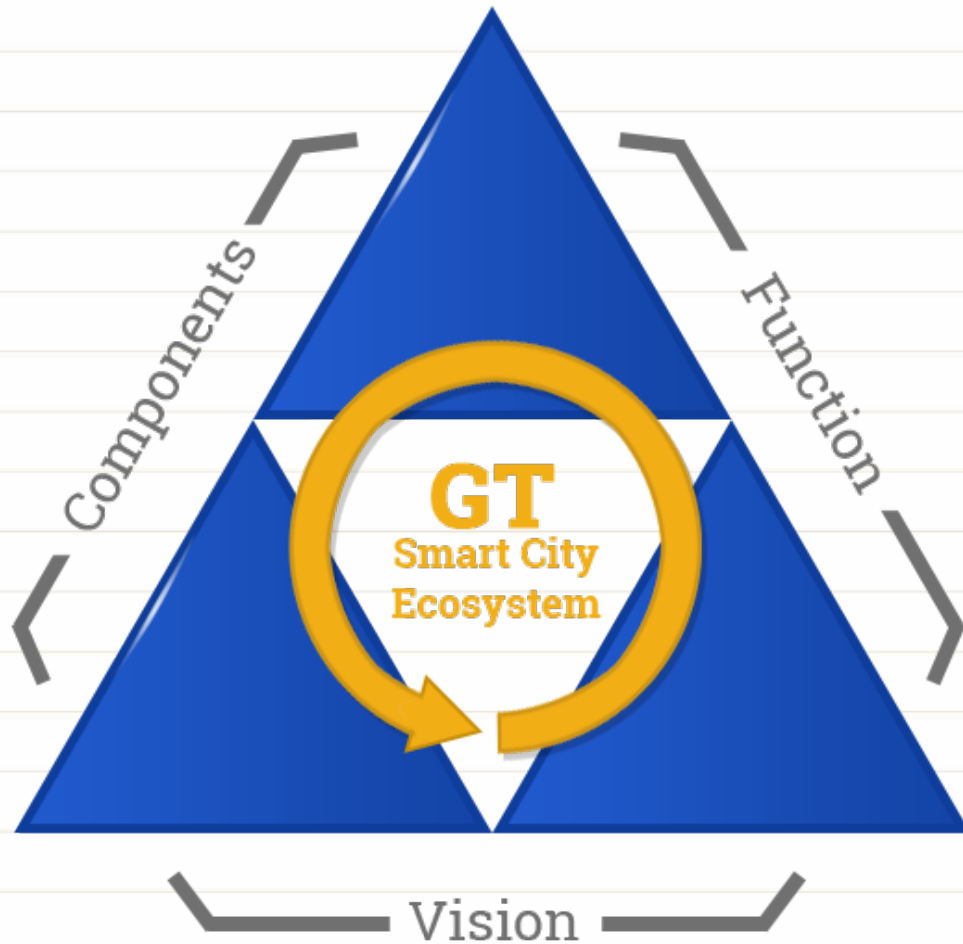


28 APRIL 2020
12-1pm

*Social Media Tag*
**#GeorgiaSmart**

**Georgia Tech**

# Webinar Overview

- Georgia Smart

- Application Process

- Q&A

Georgia Tech

# Smart Cities Framework



Components

Function

GT
Smart City
Ecosystem

Vision

Individual

Building

Community

City, Campus,
Enterprise,
Military Base

Region

Georgia
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# Mission

The **Georgia Smart Communities Challenge** is a grant challenge for communities of any size in the state of Georgia to:

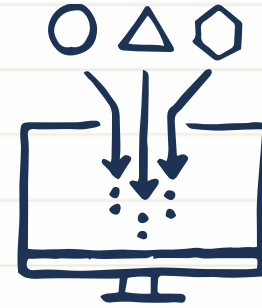**Empower communities to envision and plan for their Smart and Connected Future**

To spur smart community development throughout GA
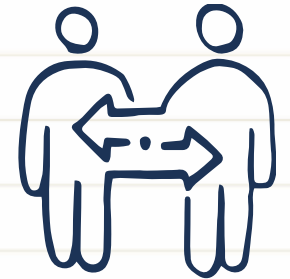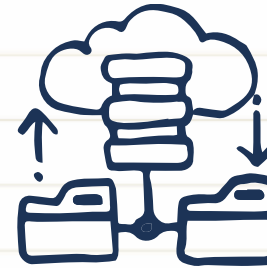To position GA as a smart community leader
Build a workforce that can lead in technological advance and data-driven decision-making

# What is Georgia Smart?

Smart and connected communities rely on **people** and **data** to enable informed decisions **and create a sustainable smart process**.

This starts with a **research-led process** that builds on the fundamental scientific and technical expertise of academics and researchers.

**Georgia Tech** acts to **empower** communities in their journey becoming a smart community and while **building resilience for when the expected and unexpected occurs.**

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# GA Smart Communities

**City of Milton**
Creating Stronger Communication
for Sustainable Results
MILTON

**City of Woodstock**
Partnering with Autonomous
Vehicles for a Smart Corridor

**City of Chamblee**
Joining Together for a
Strategic SAV Program

**Gwinnett County**
Connecting Tech for
Optimal Performance
Gwinnett

**Columbus Consolidated Government**
Using Data Sharing
to Improve Infrastructure
Columbus GEORGIA
We do amazing.

**City of Albany**
Employing Data Analytics
for a Better Housing System
CITY OF Albany GEORGIA

**Chatham County**
Piloting Tools to Help Stakeholders
During Natural Disasters

**Macon-Bibb Consolidated County**
Giving the People Better Access
to Local Government

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# GA Smart Communities 2018 and 2019 Teams

# GA Smart Value

1. Up to **$100k** in grant funds
2. Up to **$50k** in Georgia Tech research support
3. Cohort of fellow Georgia communities
4. Expert led workshops on smart cities topics
5. Smart Community Corps summer support
6. Marketing-communications outreach
7. GA Smart partners support and connections
8. Smart development network and journey......

**GEORGIA SMART COMMUNITIES CHALLENGE**

ENABLING RESILIENCY AND SUSTAINABILITY THROUGH
ACADEMIC RESEARCH AND PUBLIC SECTOR COLLABORATION

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# Smart Ecosystem

## Communities representing 2/3 of Georgia population engaged

**1,100 Livestream views of the 2019 GA Smart Winners Announcement**

**500+ Attendees at GA Smart Workshops**

**5,000 Newsletter Subscribers**

**1000+ Webinar Views**

**50+ GT Researchers and professors profiled**

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# Data

## Diversity of Data Collected & Leveraged

**10 years of utility and housing data in Albany**

**44 smart sea level sensors in Chatham Co.**

**15 Fire & EMS vehicles tracked in Gwinnett Co.**

**2 Multisensor Array of Things installed in Columbus**

**Hundreds of survey responses from citizens**

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# GT Researchers

## Diversity of Disciplines

**School of Architecture**
**School of City and Regional Planning**
**School of Computer Science**
**School of Civil & Environmental Engineering**
**School of Earth & Atmospheric Science**
**School of Public Policy**

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# Workforce Development
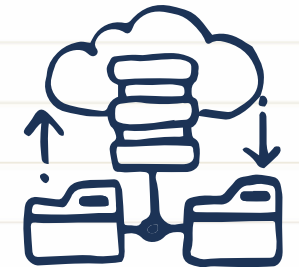
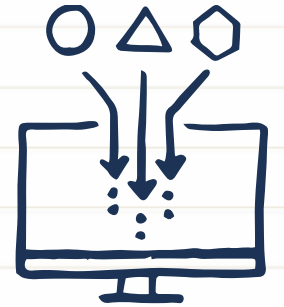## Smart Community Corps Dataworks

**Summer funding**

**Student work on smart community projects**

**GT researcher mentorship**

Microsoft| EPA | Community Foundation of Central Georgia

Center for Serve-Learn-Sustain |Center for Career Discovery & Development| Student Government Association

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# Onward and Upward

## Driven by People

**30+ Community Stakeholder Engagement Meetings**
**$2M+ in Project Continuation Funds**
**Education outreach with curriculum**

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# GEORGIA SMART COMMUNITIES CHALLENGE

Enabling Resiliency and
Sustainability through Academic Research and
Public Sector Collaboration

FIELD GUIDE

http://gatech.bccdev.com/

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**Making it Happe...**
...develop a smart process
...ps that focuses on a present
...problem while looking for a
...stainable process that grows
and adapts over time.

**Create Partnerships.**
Partnerships are built on a united vision and strong understanding of the roles and responsibilities of the respective parties. They are cemented on trust and knowing the parties are committed to the long run.

**Understand Your People.**
Building a smart and connected community starts with the people and understanding their goals for their community.

**Identify the Data.**
Data are central to the smart and connected community. A smart process relies on knowing what data you need, you have, what data you have, and how to connect the right people to the right data.

Throu...
stage...
research...
make th...
and g...
tech...

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**Macon-Bibb**
**Giving the People**
**Better Access to**
**Local Government**

Macon-Bibb County has several existing mobile applications and browser-based smart solutions, but these services are currently out of reach of economically disadvantaged neighbors who lack access to high-speed internet or smartphone devices. SmartNeighborhoodsMBC promotes equity in economically stressed neighborhoods by placing Smart Kiosks in strategic locations such as community centers, libraries, recreation centers, pedestrian areas, and public buildings to help under-privileged citizens better access and engage local government departments.

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**Partnerships**
...working with partners
...s a process to figure
...re and when to make
...As a project matures
...sfers to different
...sustain in the long
...agement needs to
...ceful transition.

**Involving**
Work direct... throughout t... ensure every... concerns and s...

**Collaborating**
Partner with and a... seek advice from partners at each ste... the project.

**Empowering**
Place final decision-maki... in the hands of partners. Each partner will bring their own strengths to the project. A smart and connected community works toward developing and connecting those strengths.

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**Chatha...**
**Piloting To...**
**Help Stakehol...**
**During Natural**
**Disasters**

Chatham County will design, develop, and test a pilot sensor network for measuring sea level flood risk in order to inform government officials and other key stakeholders in real time during natural disasters and storms. This project depends on the partnership between different people: community groups, local and county government officials, and those helping with K-12 education initiatives. The team is conducting research with help from Georgia Tech's Earth and Atmospheric Sciences department as well as the Computing department. The pilot network will help to improve flood warnings, emergency response action plans, and

# Georgia Smart Request for Proposals

**Website:**

https://smartcities.ipat.gatech.edu/2020-georgia-smart-communities-challenge

**Official RFP is the Georgia Smart Program Guide**

- Available on the website listed above in the *Important Information* section

# Important Information

- Interested communities should review the **Georgia Smart Program Guide** and check our **Frequently Asked Questions** page for details about the 2020 challenge.

- Georgia Smart will sponsor a cohort of between 2 and 4 teams this year from the state of Georgia, each executing on their own project plan.

- Grant funding has been increased to up to $100,000.

- Georgia Tech researcher funding has also been increased to up to $50,000.

- Applicants must partner with a Georgia Tech researcher. Access a list of **GT researchers** available to partner with your community. Add your profile to our list of GT research partners by emailing us at **sci2@gatech.edu**.

- Applicants should use the Application Template to complete their application: **View** | **Download**

- Georgia Smart is accepting Pre-proposals this year in an effort to assist communities in connecting with Georgia Tech researchers. Applicants should use the Pre-proposal template available here: **View** | **Download**

# Important Information

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- **Challenge Key Dates**

  - ◆ **Challenge Launch: March 17th, 2020**

  - ◆ ~~Informational Webinar (1st chance): April 6th, 2020 | 12pm-1pm~~

  - ◆ ~~Optional Pre-proposals Due: April 24th, 2020~~

  - ◆ **Informational Webinar (2nd chance): April 28th, 2020 | 12pm-1pm**

  - ◆ **Applications Due: June 12th, 2020**

  - ◆ **Winning Projects Announced: Summer, 2020**

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# RFP key requirements

- Led by **local government entity** in the state of Georgia and have a letter of support from a community leader.

- Include a **Georgia Tech researcher** with a related research project outlined

- Verify **documentation of source of funds** for the community match and provide the expected method for the in-kind match.

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# GT Research Partner Requirement

**Connect with a GT researcher**

- Part of the Proposal team

- ~~**Submit a Pre-proposal by April 24th**~~

  - Pre-proposal submission details are outlined in the Program Guide

- **Review the research faculty list:**
  https://smartcities.ipat.gatech.edu/research-faculty

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# RFP Recommendations

- Represent **community partnerships** and include letters of support or letters of understanding

- Address a **community need**, be inclusive, and think long term.

- <u>NOT</u> solely purchase technology/ hardware/capital assets, but can use funds to purchase such devices for the purposes of completing pilot studies of relevant technology.
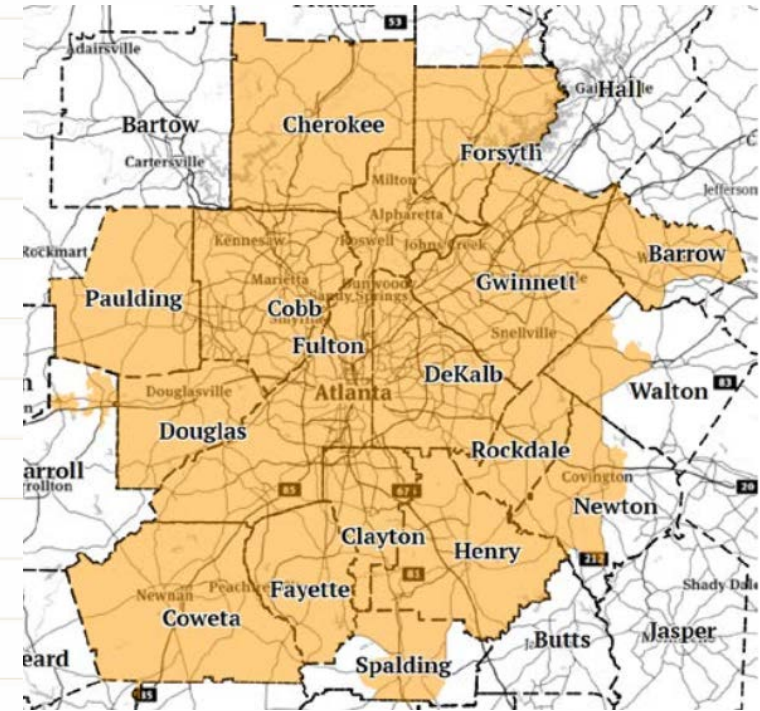
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# Regions

## Region 1:  Georgia Communities outside metro-Atlanta

- Grant Funder: Georgia Power
- **Smart Resilience:** Data, Energy, Equity,  Sustainability

## Region 2:  Metro-Atlanta Communities

- Grant Funder: Atlanta Regional Commission Livable Centers Initiative, US Federal Surface Transportation Block Grant
- **Mobility and Equity:** Transportation planning



Region 2 Metro-Atlanta as defined by ARC

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# Funding

## Region 1:  Georgia Communities outside metro-Atlanta

- Grant:  80% of your total project up to $100,000
- Community Cash Match: Minimum 20% of your total project
- Community In-Kind Match: Minimum 20% of your total project

## Region 2:  Metro-Atlanta Communities

- Grant:  80% of your total project up to $100,000
- Community Cash Match: Minimum 20% of your total project
- Community In-Kind Match: Voluntary. Recommended 20% of your total project

**GT researcher funding supplied by Georgia Tech directly to your research partner up to $50,000.**

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# Funding Example

- Grant:  80% of your total project up to $100,000
- Community Cash Match: Minimum 20% of your total project
- Community In-Kind Match: Minimum 20% of your total project

**Grant:**  $100,000
**Community Cash Match:**  $25,000
**Total Project Cost:** $125,000

**Community In-Kind Match:** $25,000

**Georgia Tech Research Support:** $50,000

**Key by Color**
**External Funds**
**Community Funds**

# Region 2 – Additional Considerations

- ✓ Projects must be studies or non-capital investments (e.g. development of an app)
- ✓ Projects must tie to transportation in some way
- ✓ Invoices are paid by ARC on a reimbursement basis
- ✓ Grantees will enter into an agreement with Georgia Tech AND a contract with ARC
- ✓ Project sponsor will work with ARC on scope of work and contract
- ✓ ARC must review and approve RFPs and consultant contracts before they are released or executed
- ✓ Per federal requirements, project sponsors/grantees must use competitive procurement procedures to secure a consultant
- ✓ ARC must be included on project team communications and meetings, along with your Georgia Tech research team

ARC Contact for Region 2 Questions:
Elizabeth Sandlin, ESandlin@AtlantaRegional.org

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# Template

**Application** **template is viewable and downloadable from the** *Important Information* **section of our website as a Microsoft Word Document.**

**Please use the template provided**

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# Application Submission

**Application** submission:

- 12-page limit
- Due June 12th, 2020, 5pm EDT
- Submission Portal:
  **https://gatech.co1.qualtrics.com/jfe/form/SV_eya4DEGkYSJ5ZNH**

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# Questions?

## Ask a question from our website:

Send us an email:
## sci2@gatech.edu



2020 Georgia Smart Communities Challenge

GEORGIA SMART COMMUNITIES CHALLENGE

ENABLING RESILIENCY AND SUSTAINABILITY THROUGH ACADEMIC RESEARCH AND PUBLIC SECTOR COLLABORATION

**The 2020 Georgia Smart Communities Challenge is now open to applicants.**

Read more about previous winning projects from the 2018 and 2019 Georgia Smart communities.

**Challenge Highlights**
Georgia Smart is a competitive one year program that supports local governments of any size within the State of Georgia by providing grant funding and access to technical

**ASK A QUESTION**

Name *

Email Address *

Community/Organization *

Title

Question *

SUBMIT

## Read our FAQ:
https://smartcities.ipat.gatech.edu/frequently-asked-questions

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# Events

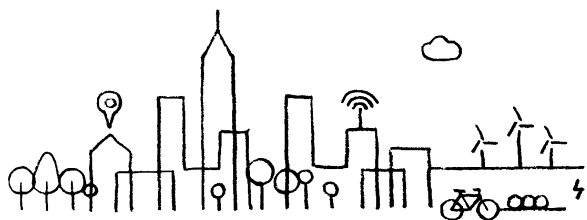| | |
|---|---|
| **MAY 7** | **#SMARTer Together Webinar Series - Webinar #1**<br>Join us for Dr. Yeo's webinar entitled "Soft Wearable Bioelectronics for Smart and Connected First Responders" |
| **MAY 14** | **#SMARTer Together Webinar Series - Webinar #2**<br>Join us for Dr. Garrow and Dr. Dhongde's webinar entitled "Importance of Investing in Rural Transit in Georgia." |
| **MAY 21** | **#SMARTer Together Webinar Series - Webinar #3**<br>Join us for Dr. Clifford A. Lipscomb's webinar entitled "Post COVID-19 Expectations in Economic Development and Real Estate." |
| **MAY 28** | **#SMARTer Together Webinar Series - Webinar #4**<br>Join Dr. Montreuil for his webinar entitled "Toward Efficient Pandemic Supply Chain Readiness and Response" |
| **SEP 10** | **GA Smart Fall Workshop**<br>Join us on September 10th for the GA Smart Fall Workshop. |

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