



Albany Housing Data Analytics & Visualization Initiative

Georgia Smart Communities Challenge 2018

Proposal ID: YKHSQY



Proposal Lead

Albany, GA

A Georgia Community

In Collaboration With

The Department of Community & Economic Development (DCED)

Dougherty County, GA

Albany Georgia Initiative for Community Housing (GICH)

Fight Albany Blight (FAB)

Dr. Omar Asensio (GT)

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Albany, GA Emerging Technology Team

PROJECT ROLE	NAME
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Team Member & Project Documentation	Shuronda Hawkins*
Team Member & Data Analysis	Darrius Hughley
Team Member & Technical Advisor	Rodrick Smith*
Team Member & Technical Advisor	Dave Walton
Team Member & GIS Subject Matter Expert (SME)	Justin Kendall*
Team Member & Data/Crime Analyst Subject Matter Expert (SME)	William Sparks

*Present Today

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- Project Framework
 - Project Plan
- GA Tech Research

Project Overview

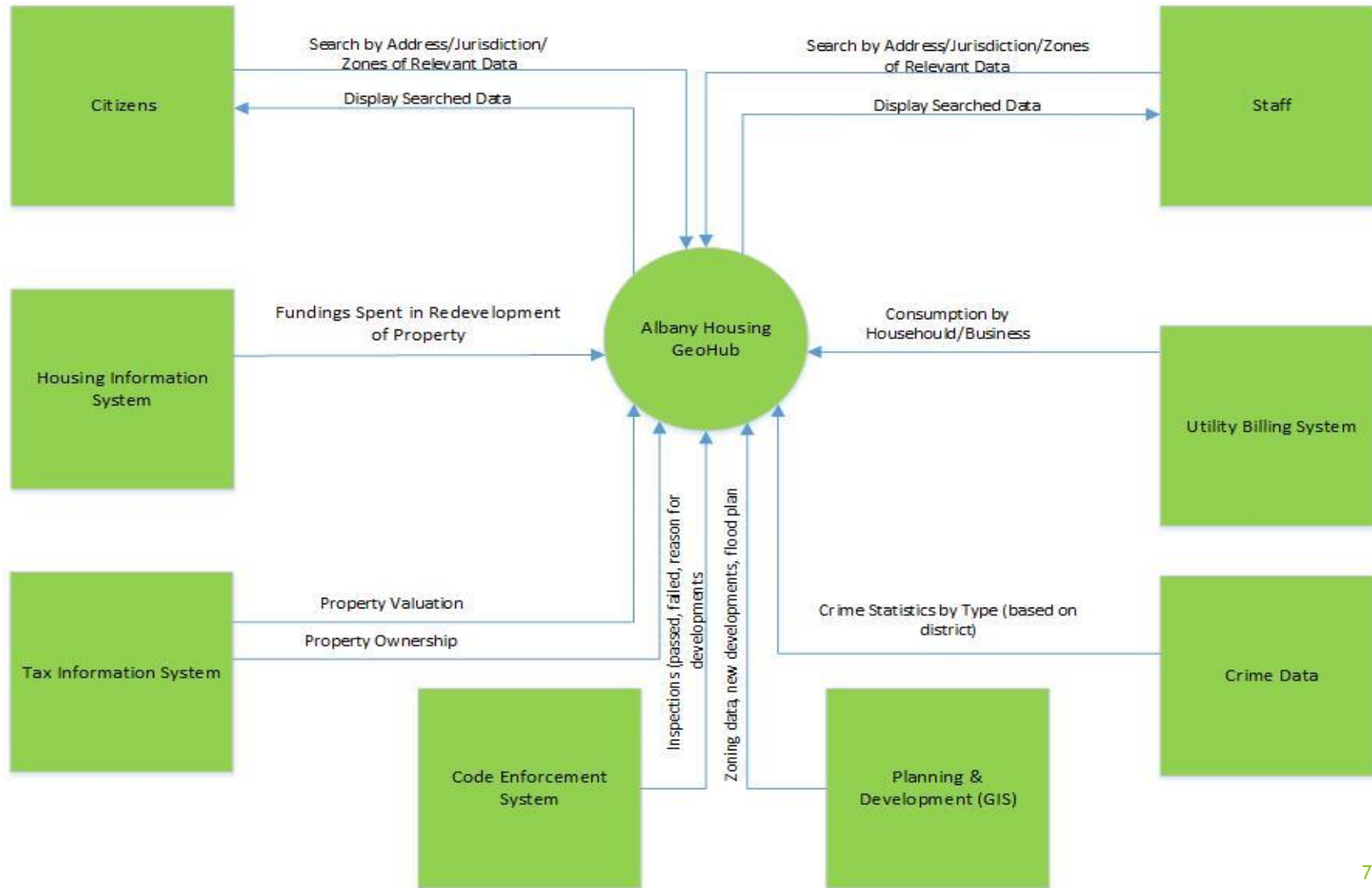
The Albany Housing Data Analytics & Visualization Initiative is a neighborhood-based housing model that enables the City and other collaboratives to re-engage with citizens and become a part of the solution to address many of the housing issues within our community.

- ▶ The Albany team expects to facilitate this through a series of community education seminars to train a team of assessors that will assist in delivering the data necessary to create and maintain the Albany Housing Inventory Assessment and Attribute Database.
- ▶ The research component is designed to ensure the Albany Team is using a scientific, peer reviewed methodology for data collection, data analysis, and data presentation.

Project Vision

The Albany Housing Data Analytics & Visualization Initiative seeks to deliver on the following objectives:

- ▶ Fulfill the current Priorities of the Mayor and Board of City Commissioners.
- ▶ Enable the City to be responsive to community housing needs as it utilizes technology and innovation for continued growth and development.
- ▶ Coordinate this initiative with the Albany Georgia Initiative for Community Housing (GICH) and Fight Albany Blight (FAB).
- ▶ Become more knowledgeable of the City's current housing conditions for long-term strategic planning.





Project Framework

- ▶ The Albany Housing Data Analytics & Visualization Initiative is a neighborhood-based housing model that enables the City and other collaboratives to re-engage with citizens and become a part of the solution to address many of the housing issues within our community.
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Project Framework

- Better performance of assets and people
- Improved efficiencies
- Community engaged more efficiently
- Optimal use of resources
- End-to-end solutions
- Economies of costs and time
- Smarter services
- Resilience to man-made and natural events



Project Plan

The Albany Housing Data Analytics & Visualization project plan includes following deliverables:

- ▶ Build a collaborative team to collect and geocode the following data; the state of the infrastructure in the vicinity of each housing unit to include roads, available public utilities, previous utility consumption, planning and zoning, condition of property, tax records, parcel improvements, police or crime data, etc.
- ▶ Categorize each housing unit (Existing housing condition; Occupancy status; and Planned Use/Reuse)
 - ▶ • Property categorization based on repair needs
 - ▶ • Establish annual goals of the total inventory to assess in percentages
 - ▶ • Determine existing resources and potential partnerships
 - ▶ • Train volunteers to assess the housing inventory (Code Enforcement, Construction Students: ATC Students, and Volunteers)
 - ▶ • Bring Health and Wellness to the neighborhood through partnerships (Phoebe, Albany Area Primary Healthcare, etc.)
 - ▶ • Identify and utilize local, state, and federal assistance/resources in the area

GA Tech Research

Records linkage offers unprecedented ability to analyze housing dynamics with a comprehensive city data including tax information, transit, utilities & other smart cities data.

1. Matching algorithms for policy and program evaluation
2. Predictive data analytics and machine learning to evaluate strategies to address Neighborhood Blight.

Dr. Omar Asensio + research team
(Catharina Hollauer, Kyle Milligan)

Q & A