THE NEW DREAMLAND ESTATES: A SUSTAINABLE NEIGHBORHOOD THROUGH TRANSFORMATION COMMUNITY MODELING

OUTCOME: To have a community development plan for the Dreamland Park neighborhood that will be a guide in making the neighborhood a vibrant, safe, attractive place to live.

OBJECTIVES:

a. Enable current residents with technology to engage each other through a community driven revitalization effort that includes housing, sustainability and greening.
b. Develop a neighborhood transformational model using Building Information Modeling (BIM) with Geographic Information System (GIS) technologies to assist in decision making for the Dreamland neighborhood.
c. Gather SEEED (Social, economic, environmental, educational, and demographic) data in determining transformational modeling approaches in re-building healthy, safe, and green housing developments for fair- market residents and commercial/retail business investment.
d. Use visualization emerging technologies, such as immersive virtual environments to develop models that would advance housing ownership, neighborhood revitalization, and neighborhood re-branding and neighborhood sustainability.
e. Develop environmental imperatives, economic imperatives and social imperatives i.e. The Triple Bottom Line (TBL) for the neighborhood

INVESTIGATORS AND MODEL DEVELOPERS:

- NC A&T State University, Department of Built Environment, Construction Management Program, Environmental, Health and Safety Program and Geomatics Program
    - Principal Investigator   Dr. Tony E. Graham, Associate Professor Department of Built Environment
    - Graduate Students in the various departments

PARTICIPANTS:

- Current residents of Dreamland Park…adults, children
- Potential residents, young adults
- Representatives of non-profits, law enforcement, FTCC, WSSU, WFU, SALEM, NCSA, architects, landscape architects, contractors philanthropic organizations

MANAGEMENT TEAM: Habitat for Humanity

TIMETABLE: One academic year.