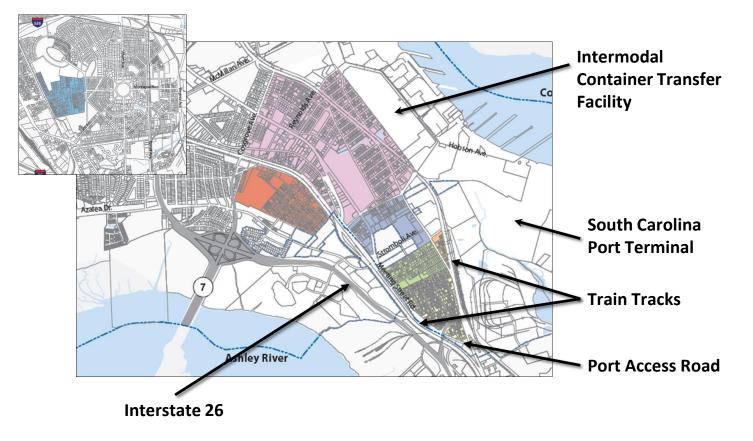
### Citizen Science and Community Monitoring: Tools for Community Revitalization



**Omar Muhammad (LAMC and CCRAB)** 



#### Community Environmental Challenges



LAMC Organization's Purpose and Work

**Our purpose:** is to build healthy families by creating pathways to equal opportunities

Our work: is intentional and transformative

### **Our focus:** is **7 : 4**

	7 Communit	ties : <b>4</b> Core Areas of Focus	
Housing	Accabee		Affordable
	Chicora/Cherol	ee	Economic Development
	Five Mile		Education
	Liberty Hill		Environmental Justice
	Union Heights		
	Howard Height	s	
	Windsor Place		

### **Built Environment**









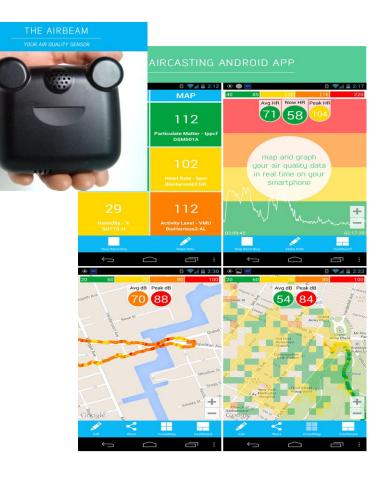


#### Air Monitoring









# PURPOSE

Examine how land use policy and practices in North Charleston are contributing to or relieving community's risk of exposure to environmental hazards associated with land use types that are incompatible with residential such as industrial and heavy commercial.

### METHODS

 Analysis of zoning policy and classification of current zoning types and land use categories by "impact factor," (impact defined as adverse environmental effects)

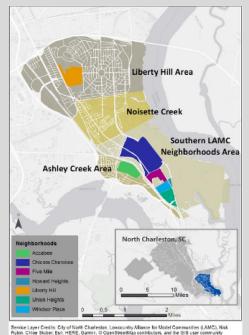
- 2) Spatial analysis using ArcMap v10.4 to assess:
  - Distribution of land use types
  - Patterns in land use decisions over time
  - Areas of heightened risk of exposure

### **KEY FINDINGS**

- The neighborhoods at highest risk of exposure to adverse environmental effects are at the Southern end of the study area and include: Accabee, Five Mile, Howard Heights, Windsor Place and Union Heights.
  - Contemporary land use practices and decisions are exacerbating pre-existing disparities evidenced by:
    - Amount of land use types incompatible with residential are increasing within and surrounding the subject neighborhoods and heightening their vulnerability to effects of environmental hazards, air pollution, urban decay, man-made and natural disasters.
    - Neighborhoods in the northeast corner of the study area that skew more white and affluent are seeing a reduction in impact as a result of the effects of protective overlay districts and down-zoning.

### STUDY AREA

Seven focus neighborhoods of the Charleston Community Research to Action Board (CCRAB) in North Charleston, SC.



To view results in map viewer, visit:

https://arcq.is/1Gfj4q

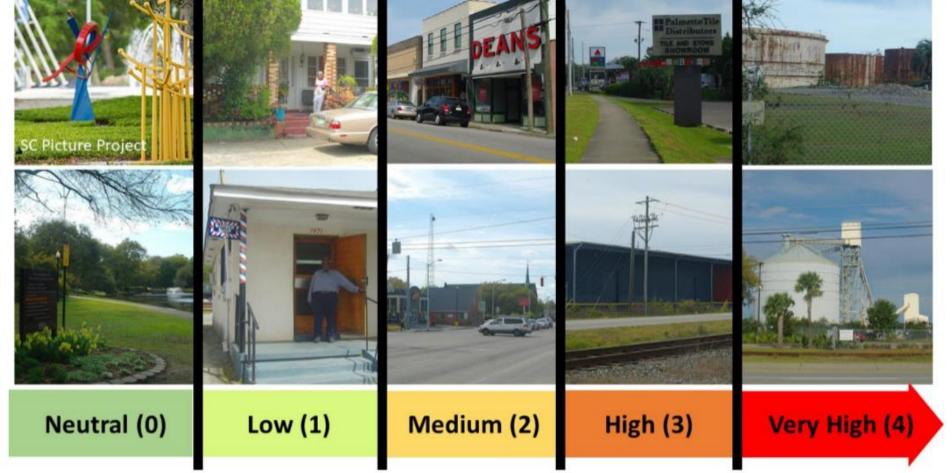


Figure 2. Scale of impact classification system with images of corresponding land uses in North Charleston, SC.

Contact

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