GIS at a Glance
Presented July 21, 2023
AGENCY OVERVIEW

Mission: DHCD leads City efforts to promote thriving neighborhoods through community revitalization investments; supporting homeowners; funding critical programs and neighborhood stakeholders; creating and preserving affordable housing; and ensuring safe conditions through code enforcement.

Framework for Community Development

RESEARCH & ANALYTICS TEAM

Kimberly Rubens - Chief of Policy & Research
Henry Waldron – Director of Research & Analytics
GIS Analyst – TBD
Research Analyst – TBD
GIS USAGE

Common Tools:
• ArcMap – Still holding on to 10.7
• ArcGIS Pro - Getting the hang of it
• ArcGIS Online - Apps galore
• Microsoft SQL Server – The backbone of all data work
• Power BI – Data Viz (can embed in ESRI apps)

Our Products (all publicly available):
• CoDeMap
• Investment Map
• Buy Into Bmore
• Impact Investment Area Project Tracker
• Housing Market Typology (2023 Update)
• App Gallery
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Decision Making:

1. Property-Level Planning
   • Reviewed and assigned strategies to all vacant buildings (VBNs) in Impact Investment Areas Zone 1s and Community Development Zones (3,200+ properties)
   • Assembled team from DHCD and Dept. of Planning (Neighborhood Development Officers, Neighborhood Planners, Lawyers, Development team, etc.)
   • Will continue to track the outcomes of the assigned strategies

2. Using AI to Identify Roof Problems
   • Partnered with Carnegie Mellon’s Data Science for Social Good program in 2022
   • Used aerial imagery to automatically detect roofs with highest likelihood of severe issues
   • Utilized data from 2018 project in which YouthWorks interns manually identified roof problems using an in-house GIS app
   • Generated list of 1,000 properties which helped identify dozens of properties for emergency demolition and stabilization
   • Plan to re-run model on annual basis when new imagery is released
   • Roof data available on CoDeMap

The degradation of a vacant building from 2005 to 2016
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Challenges:

• Aging data infrastructure
• Keeping up with latest tools
• Maintaining and documenting datasets/boundary layers
QUESTIONS