Urban Neighborhood Analysis & Planning: University Collaboration

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About Us

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The “Neighborhood Studio”

Photo: L. Dunaway
To be considered immersive, a project must:

• engage participants in an active learning process that is student-driven but guided by a faculty mentor

• produce a tangible outcome or product, such as a business plan, policy recommendation, book, play, or DVD

• involve at least one team of students

• include community partners and create an impact on the larger community as well as on the student participants

• help students define a career path or make connections to a profession or industry
Neighborhood Action Plans

- Whitely
- South-Central
- Old West End
- Blaine/Southeast

Photo: L. Dunaway
GIS Application

- ArcGIS Online, ArcGIS App for iOS/Android
- Feature Services Initially hosted using Delaware County’s ArcGIS Server, main ArcSDE-SQL geodatabase
- First application had all layers published as one feature service and resulted in performance issues

Source: Delaware County GIS Dept.
App Features

• Included existing local data to update, new data as determined by students necessary for their plan.

• Separate ArcSDE Database, Split each map layer into separate feature service - Increased performance

• ArcGIS Online for Organizations released
  • Moved feature services to hosted on ArcGIS Online - even faster!

Source: Delaware County GIS Dept.
Final Action Plan

OWENAP
Old West End Neighborhood Action Plan
Fall 2013

Table of Contents

Executive Summary 1
Planning Process 3
OWENAP Profile 4
Components of this Plan 5
History 7
Demographics 11
Existing Conditions 16
Goals & Initiatives 43
Economy 45
Business Varies 46
Chamber of Commerce 51
Employment Opportunities 53
Local Grocery Store 55
Land Use Initiatives 65
Increasing the Number of Live-Work Units 66
Strengthening Code Enforcement 69
Vacant Property Rehabilitation 71
Utilizing Non-Traditional Markets 73
Quality of Life 83
Affordability and Cost of Living 84
After School Programs, Community Center & Job/Skill Programs 87
Community Strength & Relationships 90
Front Yard Activities 94
Taking Control of the Stray Cat Population 97
Trees, Beautification & Connections to the River 101
Infrastructure 115
Bike Lanes 116
Green Infrastructure 118
Parking 121
Public Art 124
Sidewalks and Curb 127
Street Conditions 130
Street Lighting 132
Wayfinding and Signage 135
Housing & Living 153
Blight Removal and Historic Preservation 154
Bringing Razing Properties Up to Code 156
Trash In Alleys 161
Safety 169
Blight and Crime 170
Increase Police Presence 173
Speed Enforcement 177
Next Steps 189
Meeting Activities 191
Appendices 193
Federal Funding Sources 194
State Funding Sources 201
Local Funding Sources 204
Glossary 209
Goals & Initiatives

Goals
At the first neighborhood meeting, residents voiced the improvements they would like to see in the OWE, which the students later grouped into different “goal” groups of related improvements. The six goal groups include: Housing and Living, Land Use, Infrastructure, Safety, Economy, and Quality of Life. The improvements requested by the residents became the initiatives under each goal.

Initiatives By Priority
Initiatives were put into priority groups based on resident’s preferences of needs in the Old West End. Residents had the option to prioritize the initiatives based on what they believed needed addressed first using an online survey. Each position that the residents voted on was then assigned a point value. The values were added up and averaged in order to find out the priority level. In total there are three priority levels: those that are top priority, intermediate priority, and low priority.

The five top priority initiatives can be seen in green in the graphic to the right. The top initiative that residents proposed was parking. Right
Inventory & Analysis Maps

Area Two Land Use

Legend:
- Streets
- Railroads
- Recreation Trails
- Major Waterbodies
- Building Footprints

Land Use:
- Community Business Zone
- Flood Area Zone
- Limited Business Zone
- Major Trading Zone
- Residence Zone 4
- Residence Zone 5

Scale: 1 inch = 300 feet
Suitability Maps

Live-Work Suitability
Priority Maps

White River Connection Priorities
Blight & Crime Map

Legend
- Vacant and Dangerous Structures
- Recreation Trails
- Streets
- Railroads
- Major Waterbodies
- Vacant Lots

Reported Crimes 2010-2012
1. All Other Offenses
2. Arson
3. Assaults
4. Assault-Simple/Not Aggravated
5. Burglary
6. Robbery
7. Disorderly Conduct
8. Driving Under the Influence: Drunkenness
9. Drug Abuse Violations
10. Forgery and Counterfeiting
11. Fraud
12. Larceny-Theft (except motor vehicle): Motor Vehicle Theft
13. Liquor Laws
14. NON UCR
15. Offenses Against the Family and Children
16. Rape by Force
17. Runaways (persons under 18)
18. Sex Offenses
19. Stolen Property: Buying, Receiving, Possessing
20. Vandalism
21. Weapons: Carrying, Possessing, etc.

Blight and Crime

EAST

OLD WEST END

1 inch = 600 feet
Lessons Learned

- Understand multi-user editing of feature services and what affects performance.
- Split map layers into separate services.
- Separate web-editing geodatabase from main database.
- Utilize ArcGIS Online hosting, if possible.
Thank you!

QUESTIONS?