Summary of previous phases

Update on Focus Areas:
Brightmoor
Dequindre Cut

Next Steps on Visualization Platform

Detroit Sustainability Indicators Project: Liquid Planning Detroit

Jen Maigret
Maria Arquero de Alarcon

Taubman College of Urban Planning and Architecture  University of Michigan
CONVERSIONS:

DSWD
Surface Area

770,316 acres

= 4,831,914,954,240 square inches

= 1.203.6 square miles

= 870,372,213,386 gallons

Rainfall

41.61 cubic inches

x 0.00432900433 gallons

= 99,840,454,945 gallons

DETROIT
Surface Area

88,363 acres

= 554,269,288,320 square inches

= 138 square miles

Rainfall

41.61 cubic inches

x 0.00432900433 gallons

= 99,840,454,945 gallons

Rain Volume
**Layers of Information**

Topography / Slope Analysis
Historical Hydrology Layers, subwatersheds

Existing Land Cover (runoff calculations)

Existing Water Infrastructure, sewersheds
Transportation Infrastructure

Parks and other Public Space with water presence (cultural imagination)

Zoning / Land Use (transitions)
Urban Farming

Census Information

Land Ownership / Vacancies

Economic Incentives
Federal, State, NGOs, Foundations

Local Tax Structure (incentives, storm water utility fee)

Climate Change Patterns (Precipitation: intensity and frequency)
Brightmoor, annexed to Detroit in 1925
Urban services and streets soon thereafter
Area: 4 square mile
Average lot: 30 x 120 and 35 x 125 square feet
Initially Developed in 1920
Developer: B E Taylor, more than 15,000 lots
Population:
11,000 in 1925
35,000 in 1970
25,000 in 2000
De facto use of adjacent lots: adjacent properties being maintained and used.

Vacancy

Non-Profit developers’ ownership
Habitat for humanity, Northwest Detroit Neighborhood Development, Motor City Blightbusters

Religious Properties
Illegal Dumping

Publicly owned property:
- State
- County
- City
- Federal
- Banks

Real Estate Owned by Department of Housing and Urban Development, Veteran’s Administration, Fannie Mae, Federal Housing Administration

Data:Dewar
De facto use of adjacent lots: adjacent properties being maintained and used

Vacancy

Non-Profit developers’ ownership
Habitat for humanity, Northwest Detroit Neighborhood Development, Motor City Blightbusters

Religious Properties
Illegal Dumping

Publicly owned property:
- State
- County
- City
- Federal
- Banks

Real Estate Owned by Department of Housing and Urban Development, Veteran’s Administration, Fannie Mae, Federal Housing Administration

Data: Dewar,
Annual Outfall Discharge Volume:
164,460,000 gallons
[63 failures]

Largest Individual Outfall Discharges:
23,920,000 gallons
15,710,000 gallons
8,870,000 gallons
Dequindre Cut
1830s Detroit and Pontiac Railroad built and operated the line
1920s construction under joint endeavor between the city and the rail company.
1930 the Cut enters in operation
1982 passenger service discontinued
1998 National Canadian sold the line
2003 Greenways Initiative granted $98,750 to plan the greenway
2004 funding of $3.4 million in grants
2009 1.2 mile section of greenway opened
"Scalar approach towards pervious Design"