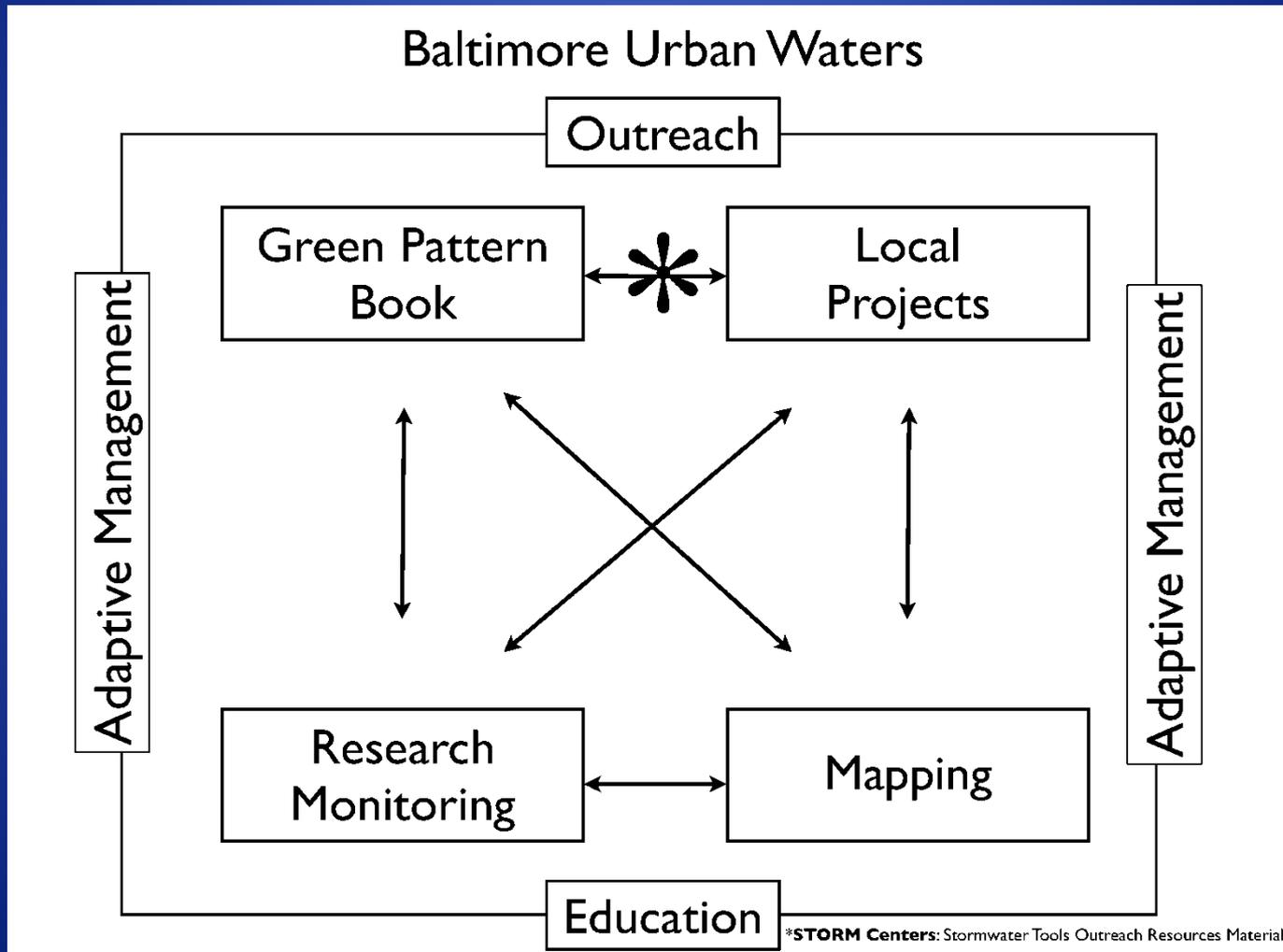


Baltimore Urban Waters Partnership

Workplan
2014-2015

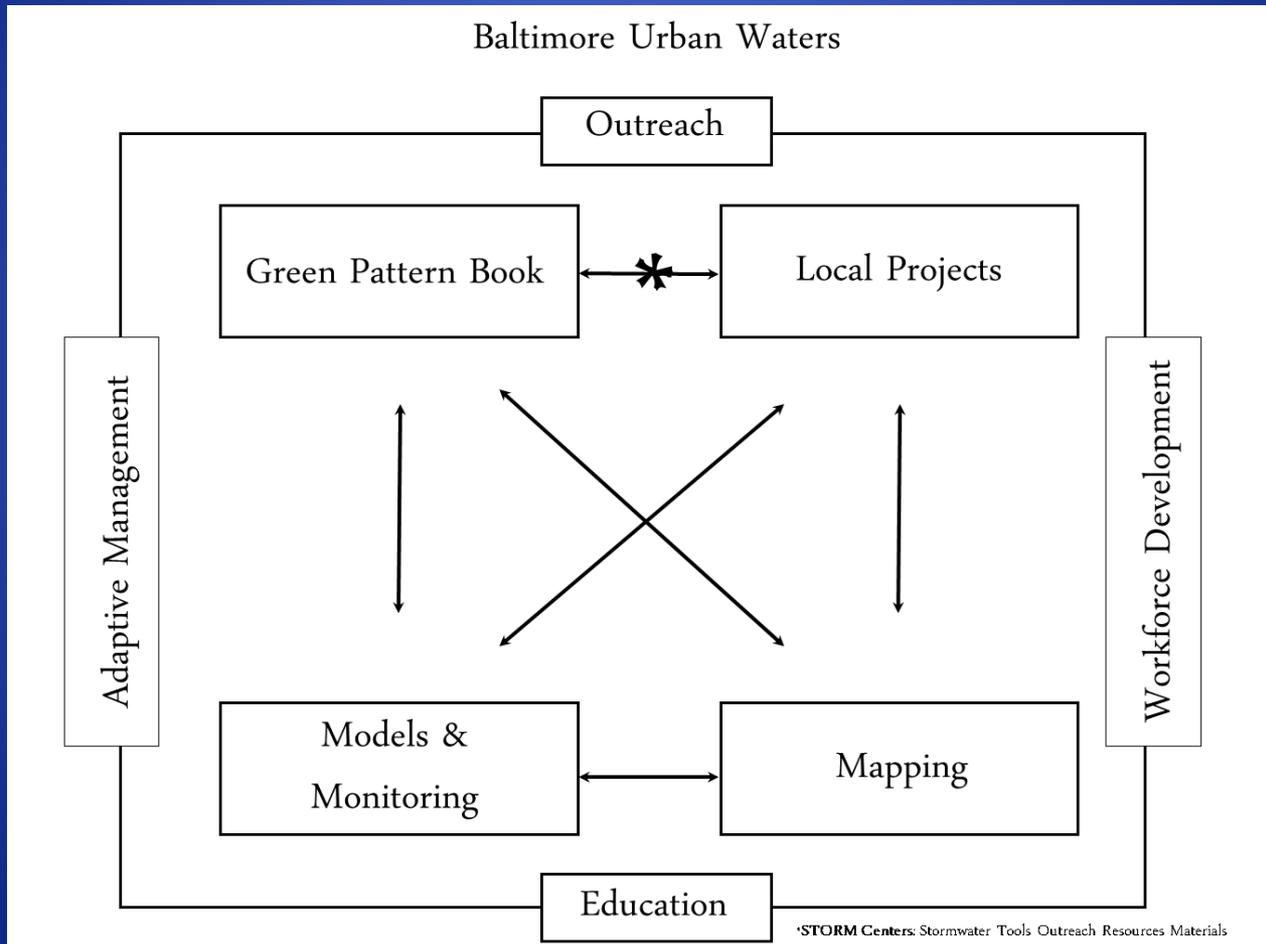
Workplan 1.0 (2011-2014)



Key Principles

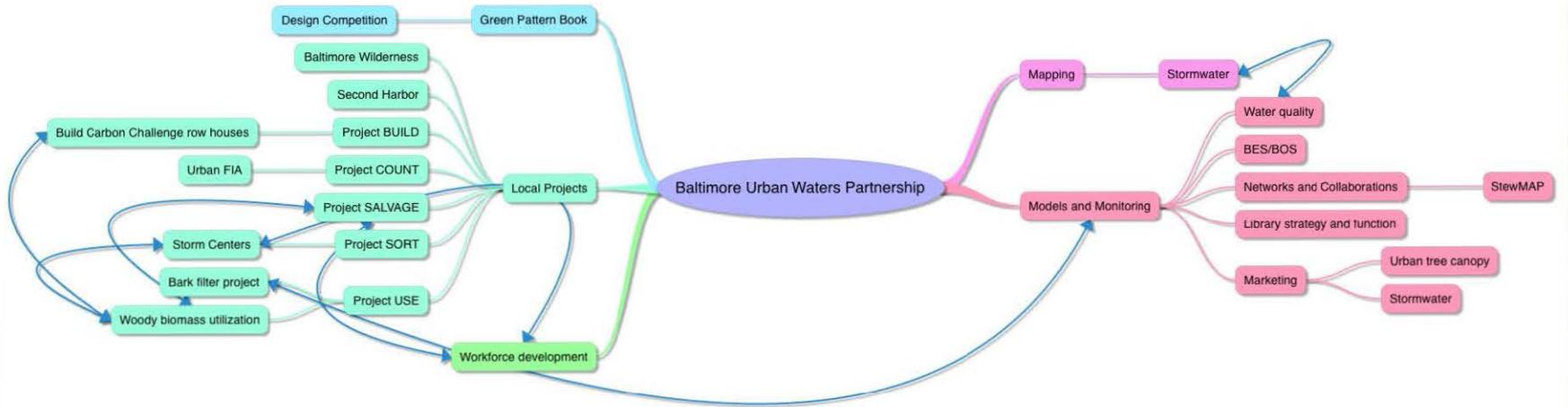
- Reciprocity
 - Linking needs with resources to offer.
- Resources are not the same as funds
 - Labor, land, data, knowledge, legitimacy, networks
- Synergy and cohesion
 - The whole is the result of the productivity AND interactions among the parts.
- Interactive
 - Parts and their interactions promote the exchange of resources.
- Dynamic
 - Flexible, opportunistic, adaptive, timely to changes in needs and flows of resources.

Workplan 2.0 (2014-15)



Integration

- This workplan will enhance integration between:
 - The Baltimore Urban Waters Partnership
 - The Baltimore Ecosystem Study
 - The Baltimore Wood Project



Green Pattern Book

- Aug 2014: LID Design competition based on GPB closes
- Sept 2014: Winning designs awarded
- Fall 2014: Final USDA version of GPB published
- Dec 2014: Funding to take winning designs from 30% conceptual to complete
- May 2015: Winning projects constructed

NEXT STEPS

- Mapping the winning designs
- Monitoring the winning designs



City of Baltimore

GREEN PATTERN BOOK

USING VACANT LAND TO CREATE GREENER
NEIGHBORHOODS



Green Pattern Book update

- Awards ceremony held 9.16.2104
 - Seven finalists selected
 - Press release:
<http://www.cbtrust.org/atf/cf/%7BEB2A714E-8219-45E8-8C3D-50EBE1847CB8%7D/LID%20Competition%20Winners%20Announced.docx>

Mapping

- Stormwater greening typology added to CMOS map
- Timeline to be built fall 2014

BALTIMORE CITY
WATER QUALITY DATA

INTERACTIVE MAP OF COMMUNITY MANAGED OPEN SPACE
CONTACT US
ADD A NEW SITE

Search Garden Name

Find sites near address

PIGTOWN HORSESHOE PIT
1217 BAYARD STREET

HOMESTEAD HARVEST COMMUNITY GARDEN
623 HOMESTEAD ST

Select Uses

- All Uses
- Adopt a Lot
- Active Recreational
- Art Inc.
- Children's Activities.
- Flower Beds
- Trees
- Connected to Schools
- Beauty
- Income-Generating
- Food Growing-Organic
- Memorial
- Food Grown-Individual Plots
- Food Grown-Co-op
- Container Gardening
- Wildlife Habitat/Animals Kept

Select Organizations

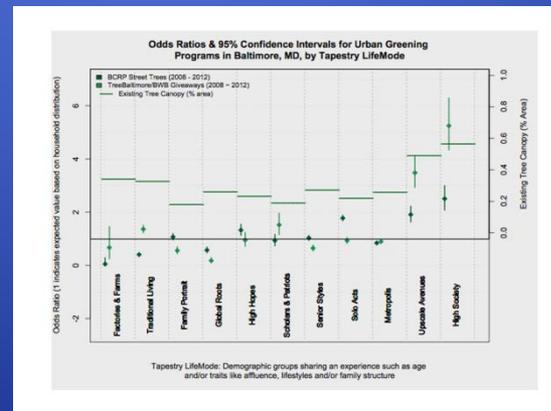
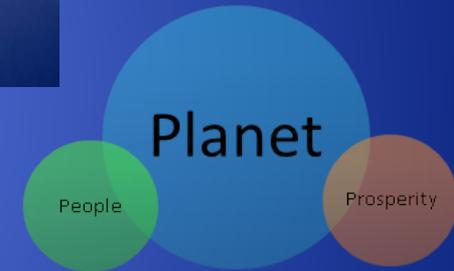
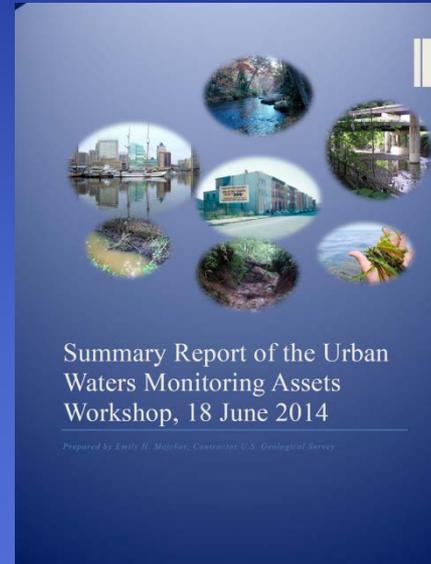
Select Community

Choose Indicator

VITA, Esri, HERE, DeLorme, Intermap, iPC, TomTom, USGS, NGA, USDA, esri

Models and Monitoring

- Water Quality Monitoring:
 - Continue subgroup meetings
 - Dec 2014: Session at MWQMC
 - Jun 2015: Annual meeting
- BRASS
 - BES/BOS technical committee
 - Sept 2014
 - Jan 2015
 - Jun 2015
 - Library strategy and function
- Networks and Collaborations
 - stewMAP 2.0
 - Jan 2015
- Marketing research
 - Urban Tree Canopy
 - Stormwater
- Collecting and reporting data related to the tree bark stormwater filter project

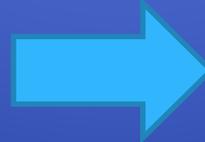


Models and Monitoring update

- Baltimore Ecosystem Study – Baltimore Office of Sustainability technical committee
 - First meeting held 9.23.2014
 - Focus: Planet
 - Topics: Mosquitoes as vectors, Urban Heat Island
 - Source materials:
<https://www.dropbox.com/sh/w7pj85hc8o3qi1u/AAAhXUQ9vE7l6cXCkfBezUa0a?dl=0>

Local Projects: Second Harbor

- Parks and People (through fall 2014) and Wildlife Habitat Council (through fall 2015)
 - Habitat restoration on industrial properties around the Middle Branch



Local Projects: Data Fusion

- Partnership between USFS and NASA
- Use G-LiHT platform to collect LiDAR, thermal, and hyperspectral data
- Mash up data results in an effort to detect tree species and tree health

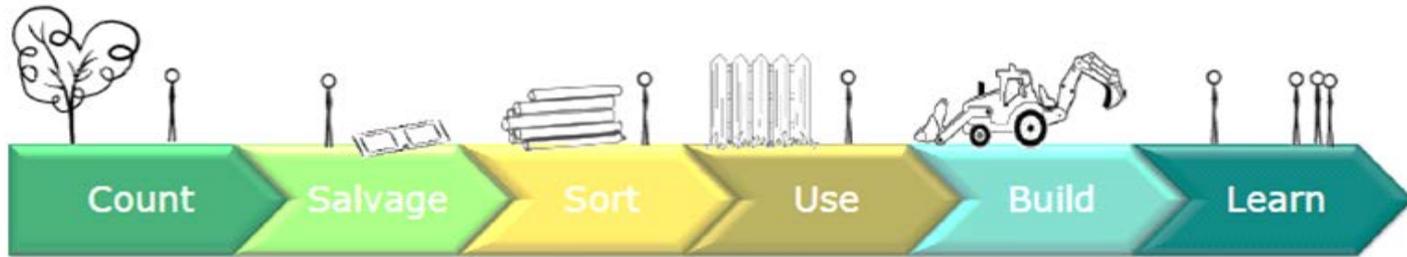
Local Projects: Reducing Residential Water Pollution

- Civic Works
 - Partner Blue Water Baltimore
 - Encourage homeowner investment in water retrofits that reduce stormwater runoff and conserve water.
 - Create a competitive water retrofit service marketplace
 - Train underserved workers to reduce a home's water consumption and stormwater runoff
 - Urban Waters Small Grant
 - Scheduled completion: Sept 2015

Local Projects: Jones Falls water quality

- EPA Urban Waters Small Grant
- The University of Baltimore will use DNA-based microbial source tracking to estimate the relative contribution of human and dog fecal bacteria to outfalls from the Mill Corridor, which is a stretch of the lower Jones Falls stream that runs through two historically blue collar neighborhoods. The data from the effort will be provided to the City of Baltimore and the community for prioritizing infrastructure repairs to reduce pet waste. The project team will train community volunteers to monitor water pollution, and educate middle and high school students about their local stream ecosystems. A long-term outcome of the project is expected to be lower bacteria loads in the lower Jones Falls stream and the Inner Harbor.
- Award Amount: \$59,827

Local Projects: the Baltimore Wood Project



Project BUILD

- Acquire property for and begin construction on the Carbon Design Challenge rowhouse in Reservoir Hill



Project COUNT

- Urban Forest Inventory and Analysis program
 - Will collect data on 1/7th of plots in the Baltimore region annually
 - 2014 data collection is completed

Project SALVAGE

- Led by Humanim's DETAILS program, project SALVAGE will provide Workforce Development and implement a Woody Biomass Utilization grant from the USFS Forest Products Lab. It will focus on:
 - Deconstruction of abandoned structures
 - Intake of downed woody debris from urban tree care operations
 - Sorting, processing, repurpose and resale of recovered materials

Project SORT

- Will support project SALVAGE and the STORM (Stormwater Tools Outreach Resources Materials) Centers.
- Sort yards will be locations where salvaged materials can be brought for sorting for processing, redistribution and resale purpose

Project USE

- Tree bark filter project
 - Monitor water quality results at Mount St
 - Install new filter Gwynn Ave site
 - Site and design based on Green Pattern Book
 - Monitor in conjunction with Green Street Academy public charter school students
 - Test Eastern hardwoods as bark filter medium