## urban acupuncture:

community revitalization through green infrastructure





the next three decades have over \$300 billion in committed construction projects across the us to make CITIES SEPARATE EXISTING combined sewer systems compliant with EPA standards.

## REGENERATIVE INFRASTRUCTURE SYSTEMS









## Kansas city, missouri







## Leverage GREEN INFRASTRUCTURE IS A CATALYST FOR URBAN REVITALIZATION.

## Leverage green infrastructure investments



#### **ECONOMIC REVITALIZATION**

- Workforce Development and Green Jobs
- · Increase Property Values
- Business opportunities and Economic Incubators
- Triple Bottom Line Values



#### COMMUNITY INVESTMENT

- Community Action
- Public/Private collaborations
- · Programs that Enrich Health, Education, Pride
- · Livable Streets Approach



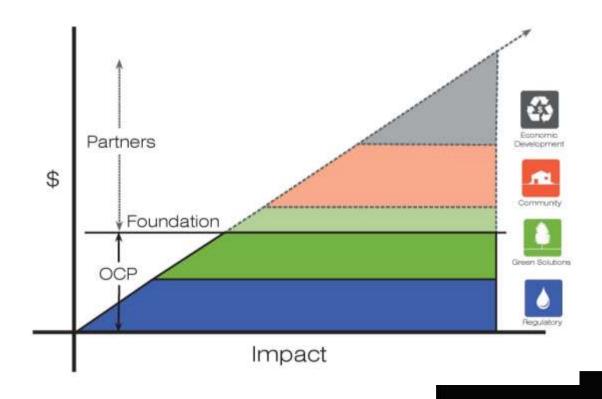
#### **GREEN SOLUTIONS**

- Sustainable Design
- Inform & Influence
- Regenerative Infrastructure
- Ecological Systems Thinking



#### TECHNICAL ACHIEVEMENT

- · Capture target volume within budget
- · Elevate use of green solutions
- · Intergovernmental collaboration
- · Find creative long-term maintenance solutions



## GREEN INFRASTRUCTURE = URBAN REVITALIZATION

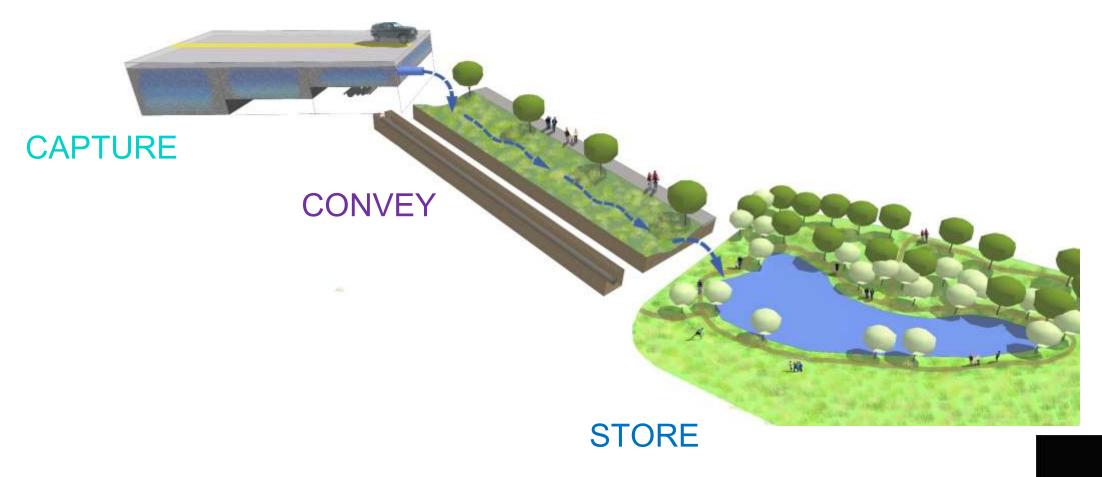
KANSAS CITY



collect + connect

## GREEN INFRASTRUCTURE = URBAN REVITALIZATION

KANSAS CITY



## URBAN ACUPUNCTURE

NODES, CORRIDORS & ASSETS









## Pittsburgh, pennsylvania

#### **GUIDING PRINCIPLES**

- > PUBLIC REALM INVESTMENTS = COST EFFECTIVE
- > WORKFORCE DEVELOPMENT OPPORTUNITIES
- > RE-ESTABLISH RIVERFRONT CONNECTIONS
- > COMPLETE STREETS APPROACH
- > FOCUS ON HEALTHY, WALKABLE COMMUNITIES
- > RESILIENT INFRASTRUCTURE

# GREEN INFRASTRUCTURE = URBAN REVITALIZATION pittsburgh

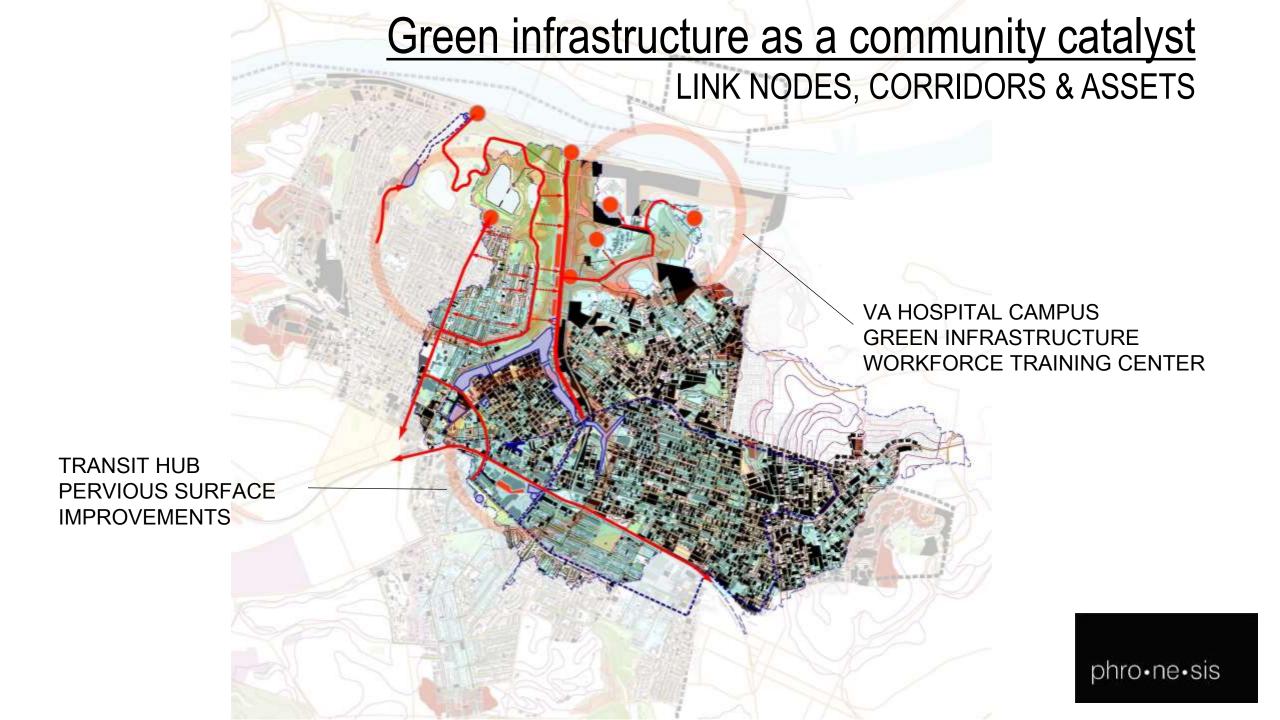


DEVELOP HOLISTIC "GREEN INFRASTRUCTURE-FIRST" URBAN PLANNING EFFORTS FOCUSED ON IDENTIFYING OPPORTUNITIES THAT SUPPORT REGENERATIVE AND RESILIENT STRATEGIES FOR CATALYTIC COMMUNITY REDEVELOPMENT.

#### GREEN INFRASTRUCTURE CITY WIDE ASSESSMENT



### **INNOVATION + REPLICATION**





## URBAN ACUPUNCTURE OPPORTUNITIES PLAN

#### WESTINGHOUSE ACADEMY

#### HOMEWOOD







- A WESTINGHOUSE IS A NUCLEUS FOR NEIGHBORHOOD
- 1 YMCA NEARBY ON FRANKSTOWN
- HERMITAGE SCHOOL COULD BE REDEVELOPED
- O COMMERCIAL BUILDINGS ON LANG
- 3 +/- 700 STRUCTURES WITHIN 5 MINUTES OF SCHOOL
- @ +/- 450 VACANT LOTS WITHIN 5 MINUTES OF SCHOOL
- MANY STREETS DRAIN TO ATHLETIC FIELD AND BELOW
- EXISTING COMMUNITY GARDEN

## HOUSING INFILL + RENOVATE

- PHASE 1 (MURTLAND) 41 VACANT LOTS + 33 STRUCTURES
- PHASE 2 (HERMITAGE) 23 VACANT LOTS + 31 STRUCTURES
- PHASE 3 (LANG) 63 VACANT LOTS + 25 STRUCTURES
- 4 PHASE 4 (FRANKSTOWN) 8 VACANT LOTS + 34 STRUCTURES
- O PHASE 5 (UPLAND/LINCOLN) 38 VACANT LOTS + 45 STRUCTURES

COMBINED - 175 VACANT LOTS & 170 STRUCTURES

WORKFORCE DEVELOPMENT AND TRAINING





Corridor Structure

Corridor Vacant Lot



5 MINUTE WALKING RADIUS





2 HEALTHY CORRIDORS

PUBLIC REALM REINVESTMENT A CATALYST FOR GROWTH
GREEN INFRASTRUCTURE AND COMPLETE STREETS
HEALTHIER WALKABLE COMMUNITY
ACCESS TO TRAILS AND OUTDOOR AMENITIES
OPPORTUNITIES TO INTERACT WITH NATURE
IMPROVED SAFETY FOR PEDESTRIANS AND CYCLISTS

BETTER ACCESS TO HEALTHY FOOD



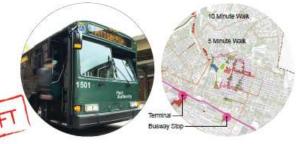
#### TRANSIT LINES

IMPROVED CONNECTION TO TRANSIT ON FRANKSTOWN
TRANSIT ORIENTED DEVELOPMENT (TOD)
EXPAND POSSIBLE FUNDING STREAMS
BUSWAY AND TERMINAL WITHIN 10 MINUTE
IMPROVED ACCESS TO JOBS AND HIGHER EDUCATION
NEW CONNECTION TO TRANSIT ON WASHINGTON



Homewood Cluster Planning
Operation Better Block. Inc.

- · Create Neighborhood Park on Lang Avenue
- · Vacant Land for Stormwater If Flood Prone
- · Infill Housing and Renovate Existing Stock
- · Provide Small Parks and Community Gardens
- Renovate Hermitage School
- · Provide Mixed-Use on Lang Avenue





## LEVERAGE RESOURCES.



#### REDIRECT SQUIRREL HILL G.I. INTO PANTHER CREEK

**CAPTURE** 

**CONVEY** 

**STORE** 







































**STORE** 



CONVEY

phro•ne•sis

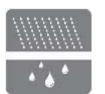


#### SCHENLEY DRIVE DEMONSTRATION GREEN STREET

**CAPTURE** 

**CONVEY** 

**STORE** 







































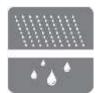




#### SCHENLEY DRIVE DEMONSTRATION GREEN STREET

#### <u>CAPTURE</u>

#### **CONVEY**































#### RE-ESTABLISH SPRING-FED CREEK INTO JUNCTION HOLLOW

#### CONCEPT DESIGN DEVELOPMENT

CAPTURE

CONVEY

**STORE** 































#### RE-ESTABLISH SPRING-FED CREEK INTO JUNCTION HOLLOW

#### **CONVEY**





























If we truly want to overcome blight and disinvestment in the marginalized sections of our cities Landscape Architects need to be designing regenerative infrastructure systems and to achieve this goal we must:

- > Delineate an holistic approach focused on strategic, node-based transit oriented community redevelopment initiatives.
- > Lobby for change in the overall capital projects planning & decision making process
- > facilitate & Prioritize community based planning, design & implementation initiatives
- > define innovative pathways towards implementation that focus on leveraging local, state, federal & philanthropic funding mechanisms.

phro•ne•sis

tim duggan, asla, rla, envision (env sp) tim@phronesis-design.com www.phronesis.us