## Baltimore's Urban Voids: Creating Safer Communities Through Ecological Design

**Cost Benefit Analysis** 



### **CONCEPT**

Small Voids within Baltimore's infrastructure are perceived as highly dangerous spaces. The fear of these spaces lead to nuisance activity. Through careful planning and the implementation of ecological services, the community can be reintroduced to these vacant areas. Promoting controlled interaction with these spaces can help diminish the probability of crime and improve the ecology of the Oliver Neighborhood. Finding the linchpins within the societal system is essential. Implementing constructive placemaking and familiar cultural elements starting around the local school zones can help improve these zones. Schools are a major hub within neighborhoods and the improvement of these areas initially can have a larger impact on the safety and well-being of the Oliver community. Extensive studies show that simple, green improvement of these urban voids directly influence the well-being of a community and crime. The improvement of these small voids within the Oliver neighborhood is an opportunity to improve Oliver's ecology while relating it to tangible, social-economic implications. Many urban settings are impacted by a diverse array of pollutants. These pollutants are highly concentrated in the subsurface. Some soils are more polluted than others but cost-effective remediation techniques provide opportunities to improve Oliver's soil without exceeding economic means. Soils are the framework of an ecosystem. By improving these soils, the improvement of the urban ecological system occurs leading to an increase of soil biota. This abundance of biota will attract a diverse range of avian species and pollinators. Green Intervention throughout sites within the Oliver neighborhood enhances the well-being of the community while decreasing crime rates. This replicated intervening has the opportunity to traverse multiple scales improving Oliver as a whole while ecologically and socially connecting with its surrounding context.

## Baltimore Police Department budget increased substantially due to crime increase severely inhibiting Baltimore amenities like summer programs and swimming pools. Fiscal Year 2000 BPD 2011 Budget 356.9 mill. 35% increase **Design Intervention**

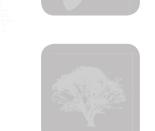
## Initial implementation zones are established by the vacant lot suitability analysis. Studies show that green improvement of vacant lots subsequently decrease crime and stress levels. This improvement harbors opportunities for a safer neighborhood through ecological restorative practices











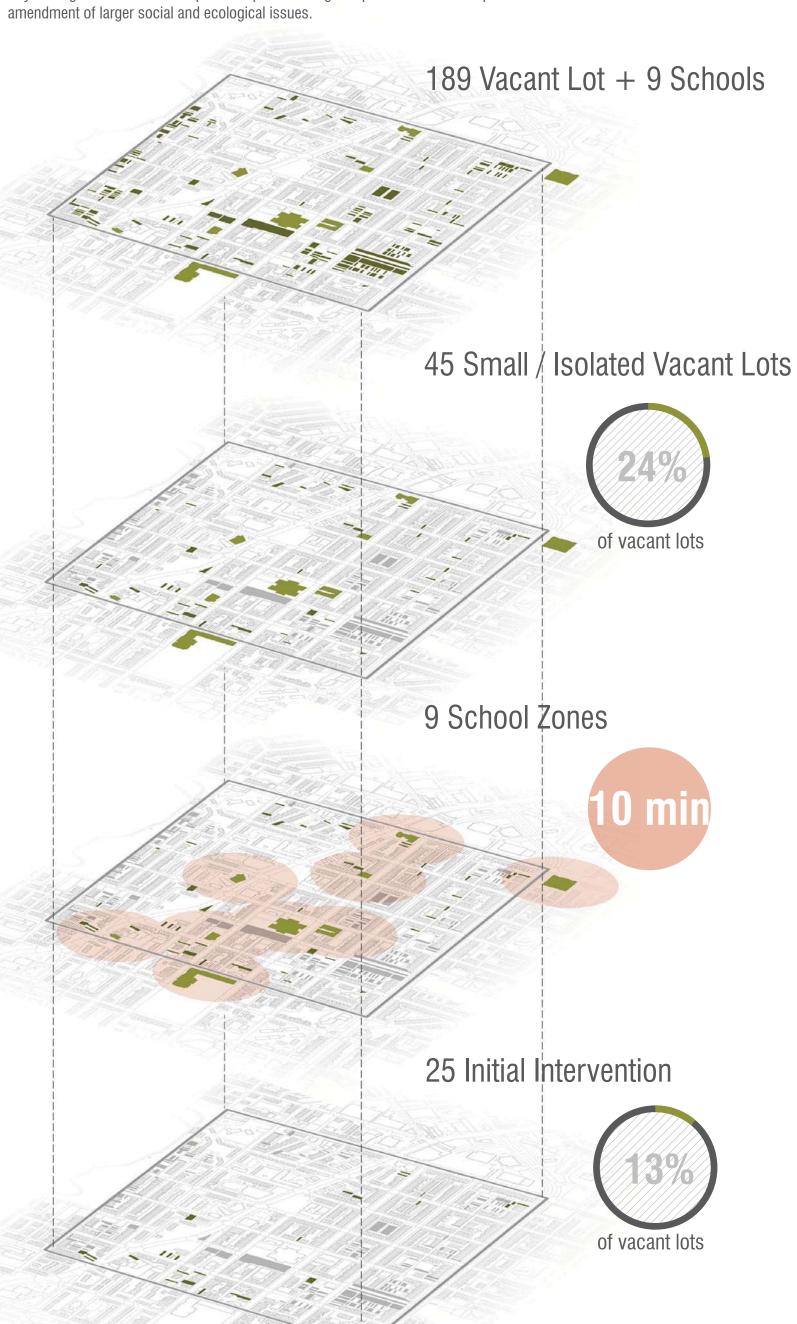






## **Vacant Lot Suitability Analysis**

The Oliver neighborhood has the opportunity to become an ecological, safe zone within Baltimore City. Using "school zones" as pressure points to begin improvement of void spaces can initiate the



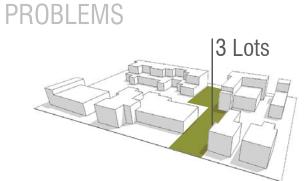
### A Matter of Perception | Crime Criteria

A space that is small / isolated, unorganized, unkempt, and neglected may not always encourage

criminal activity but this perception still exists. All it takes is this altered perception to lose ownership of a space and encourage crime.

Small / Isolated Lots Characteristics | Nodes for Crime

Many of the existing vacant lots within the neighborhood of Oliver exude characteristics that can alter



Small / Isolate Lots of Land

SOLUTIONS

Visibility

- Small, enclosed spaces lead to a fear of the - Lots with little visibility and no clear access / egress induce uncomfortably.

- Allowing clear lines of sight to access/

egress points facilitate spaces that are

UNORGANIZED

perception of space leading to increase crime activity.

perceived as being safer.



Organized Program

- Delineation of program and private vs.

public space helps deter elicit activity and

SINGLE LOT

ISOLATED-

**Unorganized Space** - Space that has ambiguities of program lose attraction within the community and are susceptible to elicit activity.



- If a space is unkempt, then attraction for the space decreases. A lack of territoriality exists which fosters crime.

for, it is perceived as having ownership. This

ISOLATED

ownership helps alleviate crime.

**Territoriality** 



- Once space loses attraction, then it is neglected by the community. Neglection attracts crime.



Proprietorship A site that exudes placelessness and is When a space is maintained and a it is cared space can inhibit possibilities of crime.



unattractive is neglected. Appreciation for a

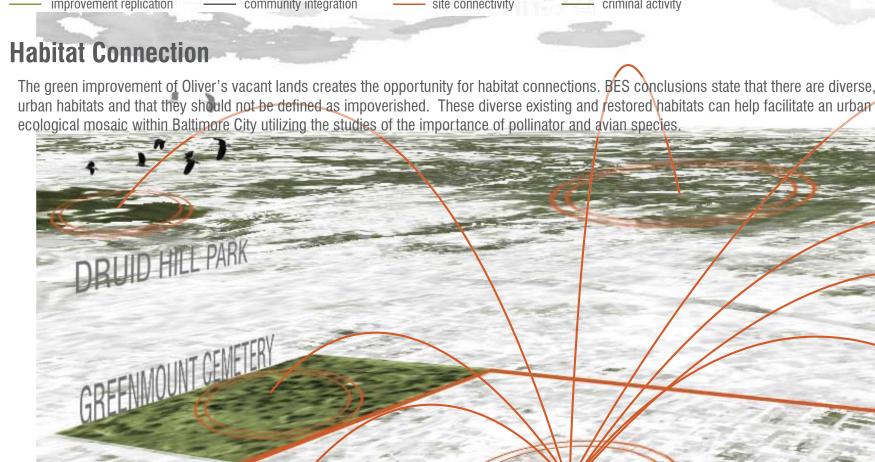


**Masterplan Phasing** 

ots intervened based on analysis

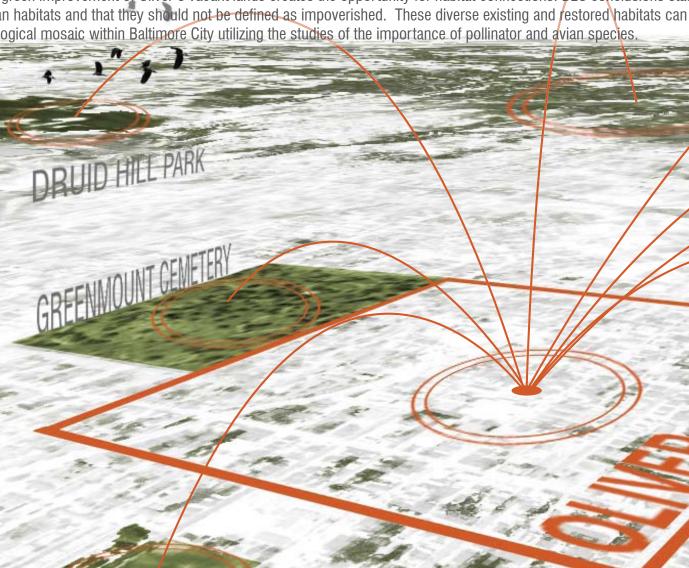
ts deemed unsuitable for initial phase

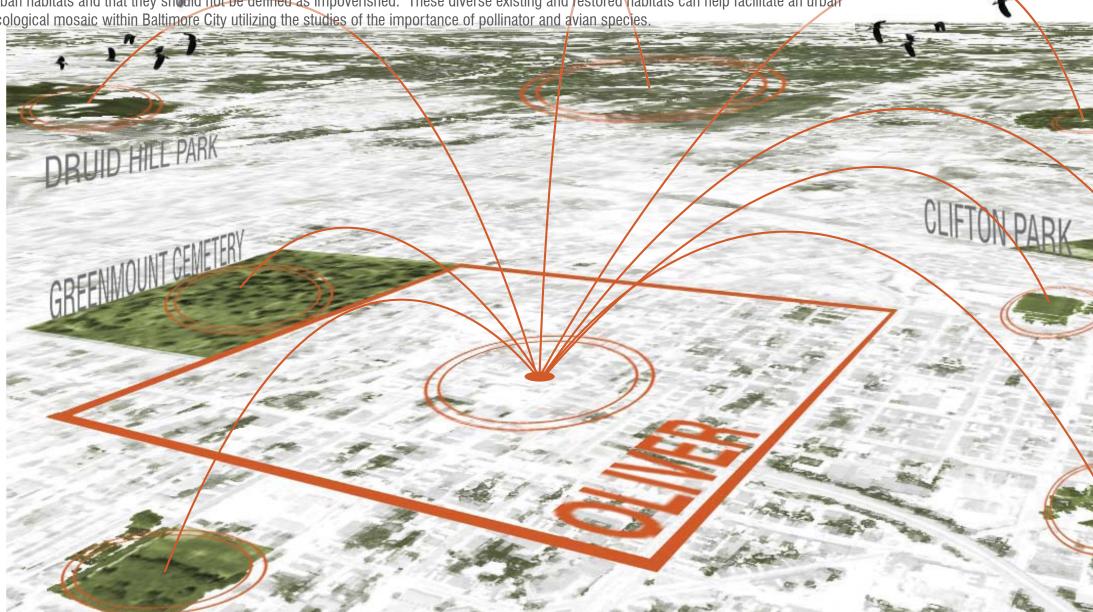
Replication and Integration within the Integrate within neighborhood through community gardens and school systems community can increase connectivity 10 year













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**BES Urban Design Initiative** 

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