





INTRODUCTION

- ► Mayor Potter & the Portland City Council Initiative for Domestic Violence
 - Control <u>Crime</u> Through Policing Strategies
 - Provide Victim Services
 - ▶ Location of a Domestic Violence Shelter in PDX
 - Accomplished Through Combined Efforts of PSU Departments of Geography and Criminal Justice

PROBLEM STATEMENT

- ► Locate Potential Site for New Domestic Violence Shelter Within Portland Metro Area Given:
 - Must Be
 - ▶ Within a Hot Spot
 - (> 2 Std. Dev. of Mean DV Incidents for all Neighborhoods)
 - ▶ Within MFR or MUR Zone
 - Should Not Be
 - ▶ Located Within Five Mile Radius of Current Shelter
 - ► Located Within One-Quarter Mile of Artery- Anonymity

Should Be

- ▶ Built on Low Slope Area
- ▶ Located Within One-Quarter Mile of Public Transportation
- ▶ Located Within One-Quarter Mile of a School
- ► Located Near Law Enforcement

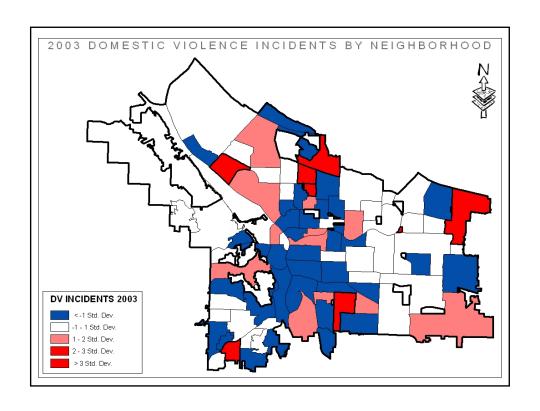
OVERVIEW OF CONSTRAINTS & CRITERIA WITHIN HOT SPOTS WITHIN MFR & MUR AWAY FROM EXISTING SHELTERS NORMAL 20 ON LOW SLOPE AREA **INVERSE** 20 NEAR PUBLIC TRANSPORTATION **INVERSE** VAY (1320 FT.) / NEAR ARTERIES NORMAL/INVERSE 20 NEAR SCHOOL **INVERSE** NEAR LAW ENFORCEMENT **INVERSE** 10 100%

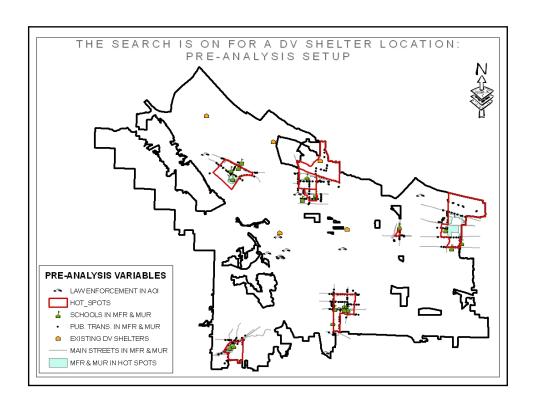
DATA

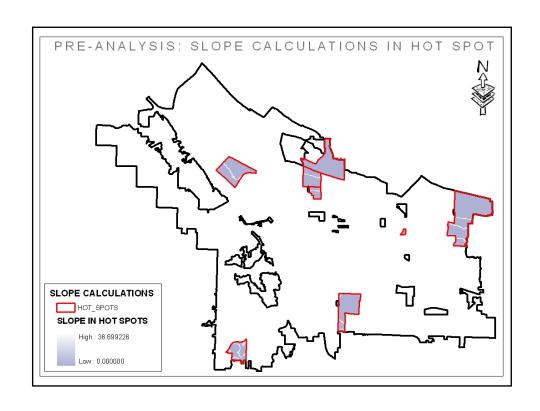
- Data
 - Spatial data to be used includes:
 - ▶ Portland Metro Area Boundary
 - ► Portland Neighborhood Boundaries
 - ▶ Portland Transportation (Street Car, Max, and Bus) Routes
 - ▶ Portland Land Use-Zoning Boundaries
 - ► Portland Main Streets
 - Law Enforcement Locations
 - ► Existing Battered Shelters Locations
 - ► Portland School Locations
 - ▶ Elevation
 - Attribute databases to be used include:
 - ▶ Incidents of Domestic Violence Per Neighborhood in 2003

METHODOLOGY

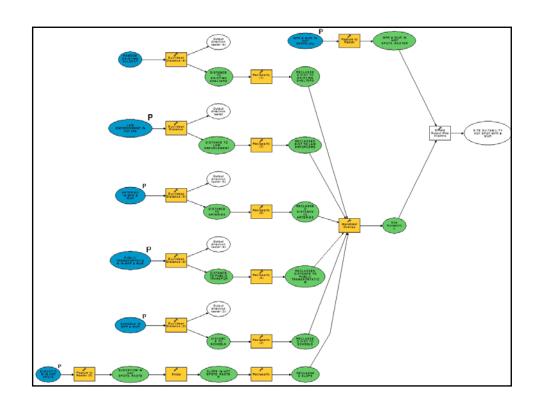
- Pre-Analysis Setup
 - Clip Portland Neighborhood Boundaries
 - Join Crime Data With Neighborhoods Layer
 - ▶ Find Hot Spots: Symbolize Standard Deviations
 - ► Export Hot Spot Boundaries
 - Select, Export and Clip MFR & MUR Zones to Hot Spots
 - Clip Schools, Arteries, and Public Transportation up to One-Quarter Mile from MFR & MUR Zones in Hot Spots
 - Clip Law Enforcement to Area of Interest
 - "Georeference" Existing DV Shelter Locations

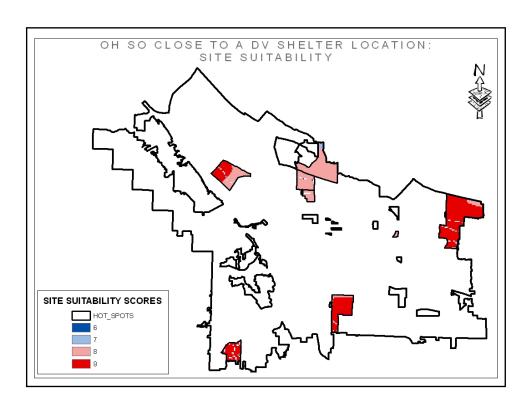


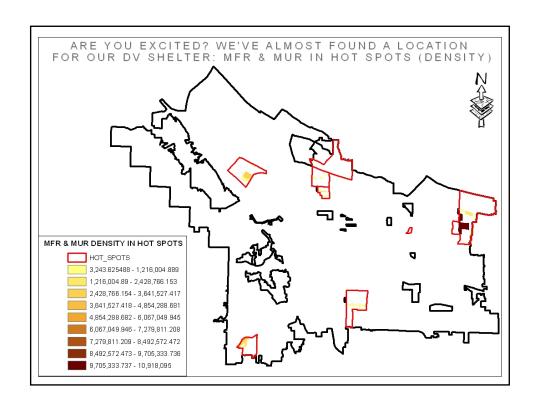


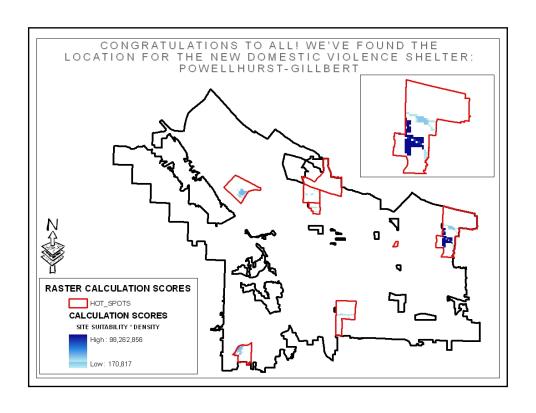






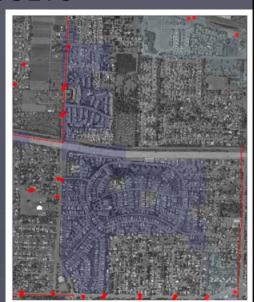






RESULTS

- Hot Spot: Powellhurst-Gilbert
- MFR & MUR: Highest Density of All Hot Spots
- Nearest Existing Shelter is 5.25 Miles Away
- Zero Slope
- Public Transportation Surrounds Area
- Nearest Major Road is .25 Miles Away
- Nearest School is Slightly Over .25 Miles Away
- ► Law Enforcement is 2.25 Miles Away



CONCLUSION/DISCUSSION

- Conclusion
 - Problem Solved with Minimal Deviation From Original Constraints And Criteria
- Discussion
 - Any Problems With Analysis?
 - Was Location Suitable?
 - What Additional Factors Should Be Taken Into Account?
 - Did The Model Solve Our Problem?
 - Could This Approach Be Used Elsewhere?



DOMESTIC VIOLENCE STATISTICS				
NAME	2003 DV INCIDENTS (AVG = 104)	РОР	CHANGE (00-03)	CRIME RATE
CULLY	311	14,818	-11%	21
BRENTWOOD/ DARLINGTON	340	11,455	-3%	30
MONTAVILLA	376	15,997	-3%	24
ST. JOHNS	388	11,355	-24%	34
LENTS	420	18,433	-14%	23
HAZELWOOD	459	20,079	-8%	23
CENTENNIAL	485	21,826	-14%	22
POWELLHURST-GILBERT BACK	487	17,881	-8%	27