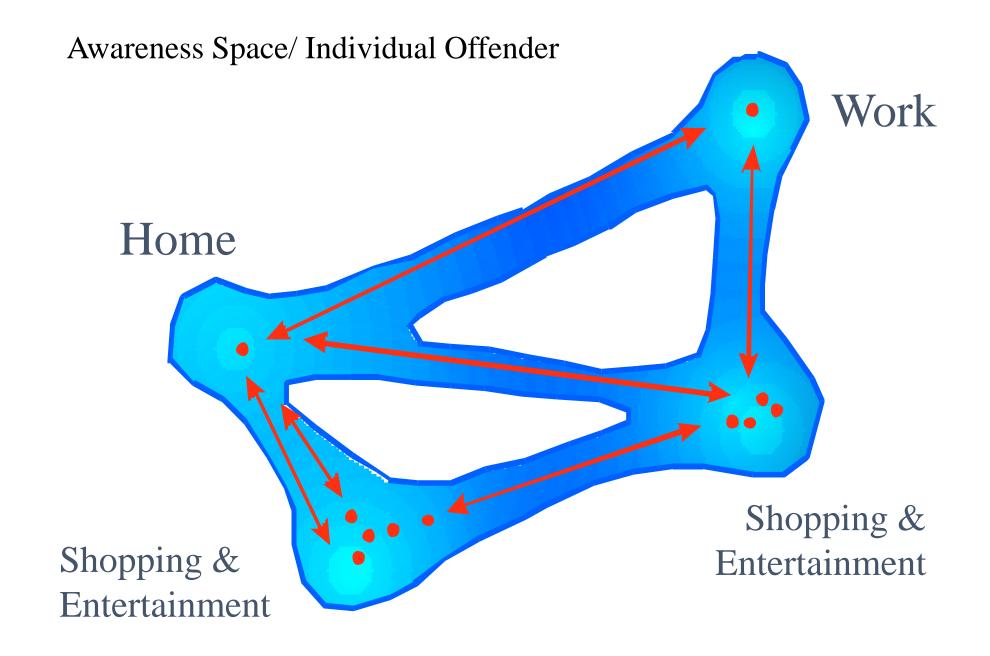
Risky Places

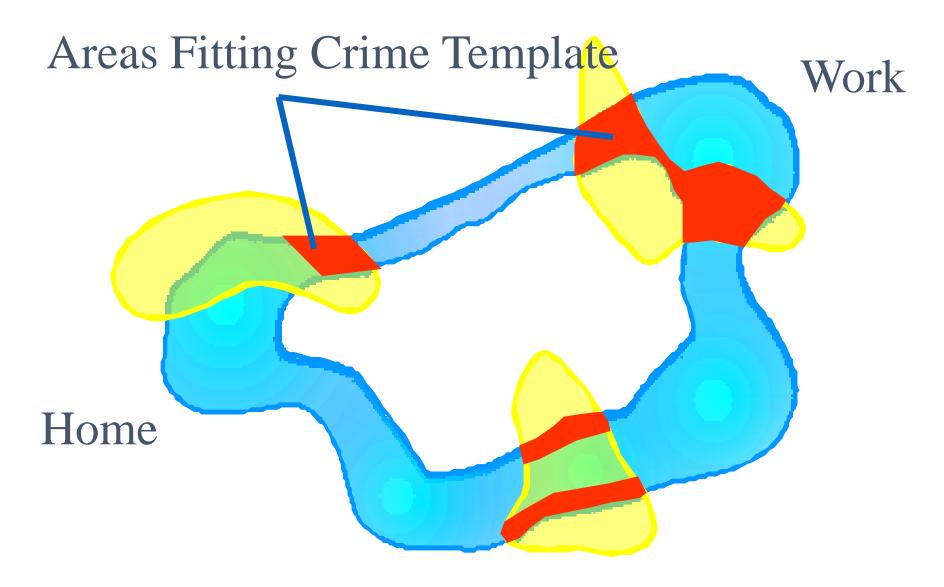
Beyond Crime Generators and Crime Attractors

- Patricia Brantingham
- Simon Fraser University
- Support: Paul Brantingham, Richard Frank, Valerie Spicer and Justin Song

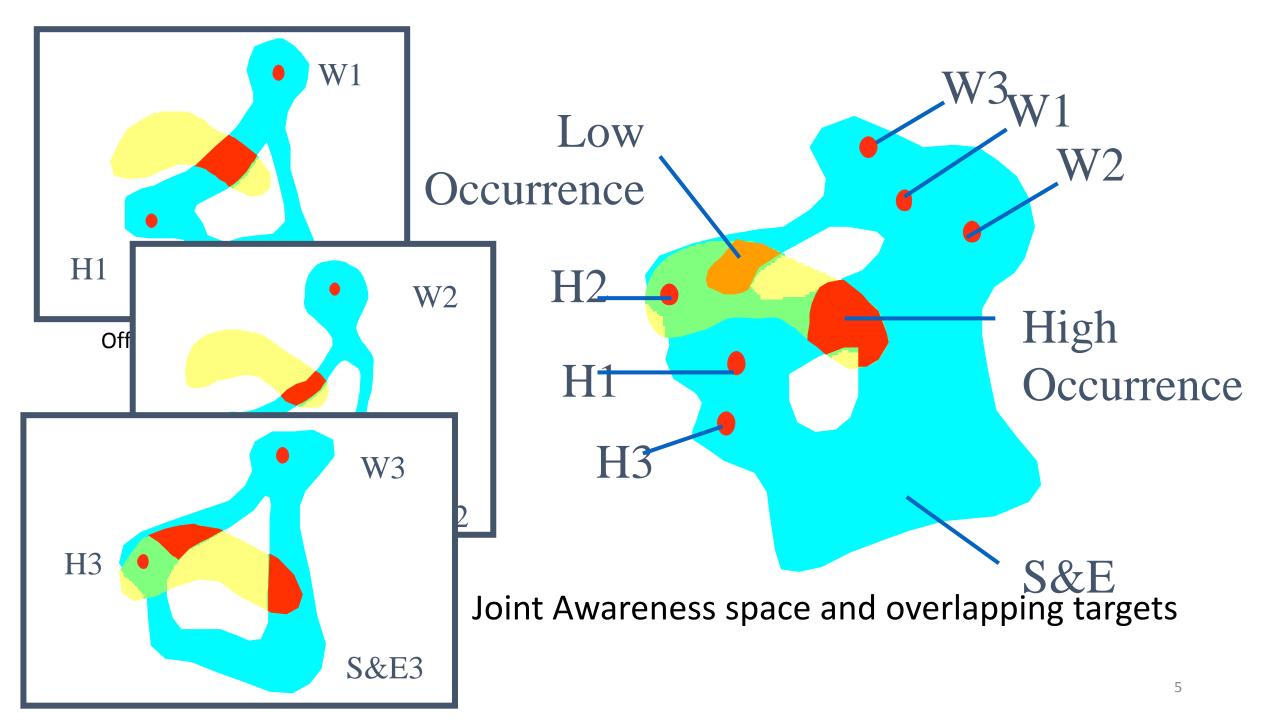
Theory: Geometry of Crime/ Crime Pattern Theory

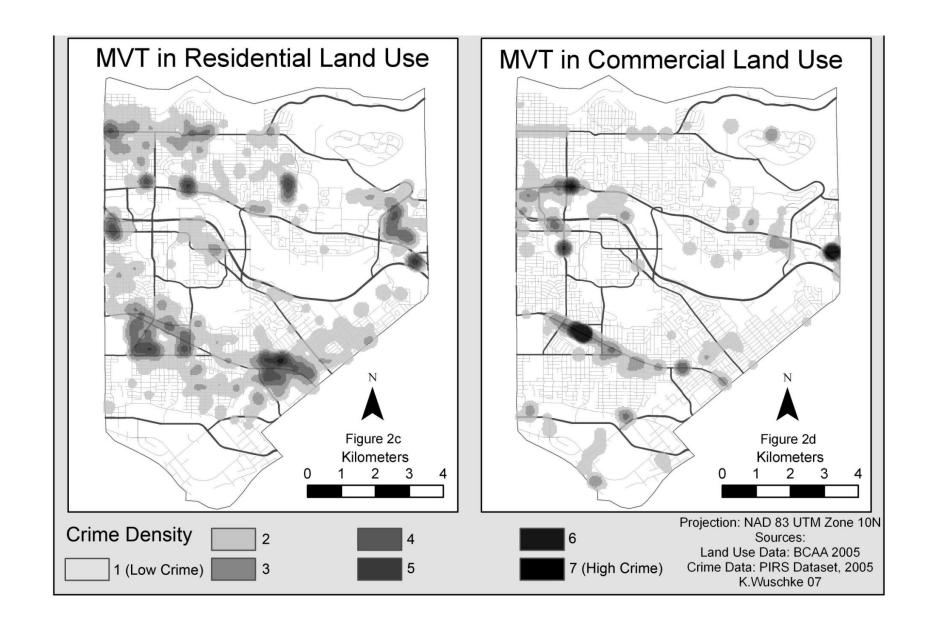
- Individual
- Paths, nodes, edges
- Activity Space
- Awareness space
- Target Space, suitable target space
- From individual to aggregate





Shopping & Entertainment

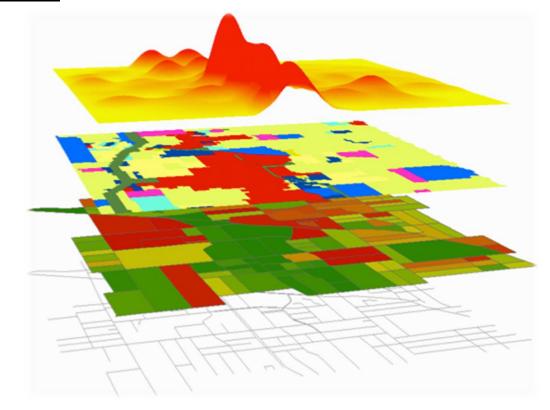




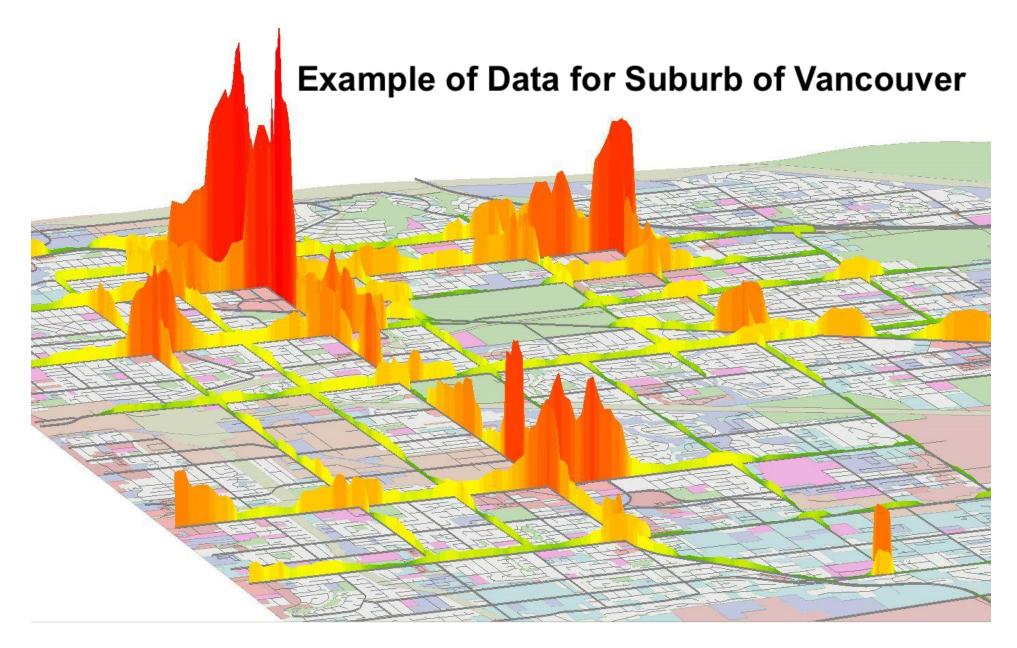
Multi- Dimensional Crime Patterns

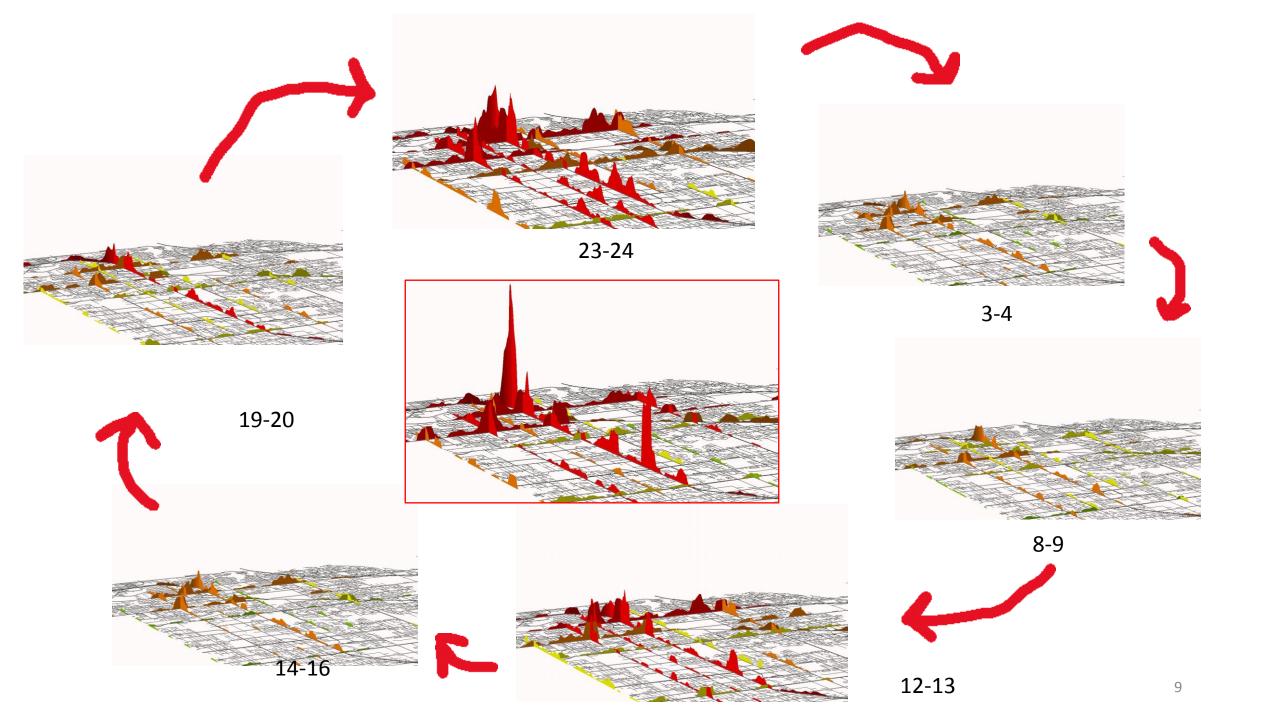
Road network/ Mass Transit

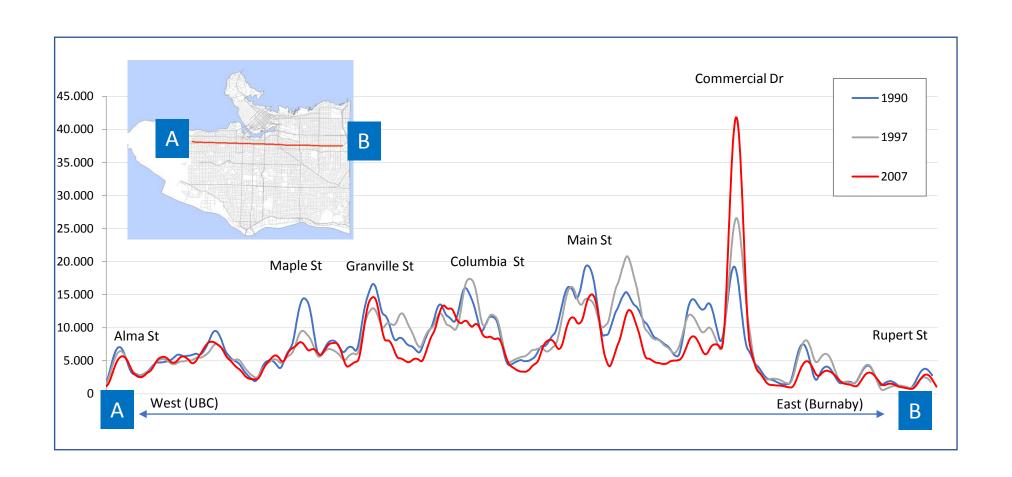
- Land use
- City infrastructure
- Pushes and pulls
- Paths nodes edges



Attractors – generators





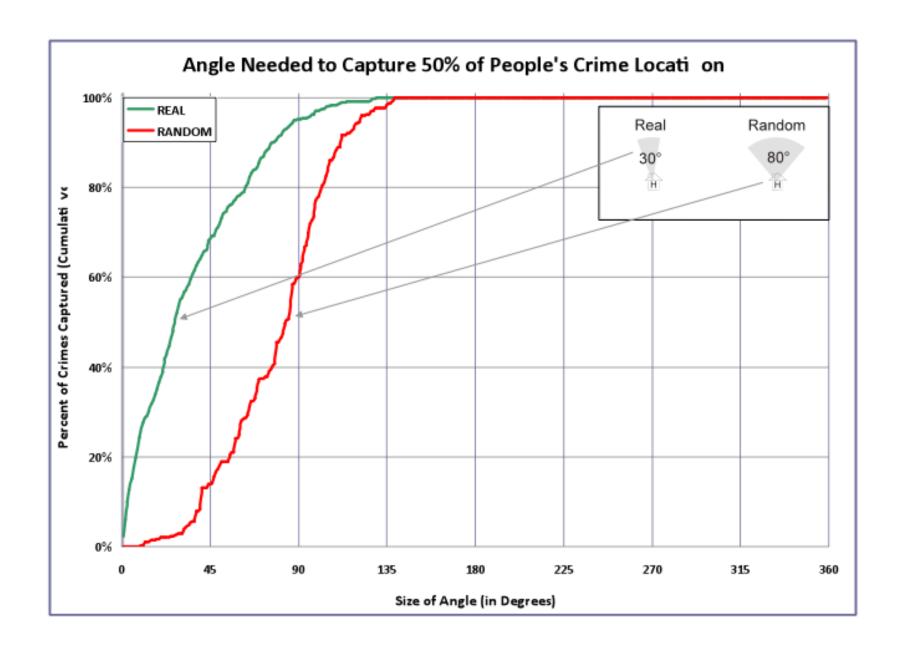


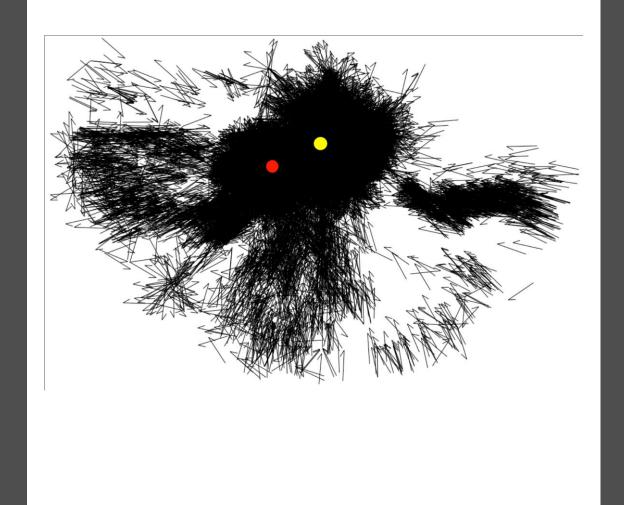
Directionality

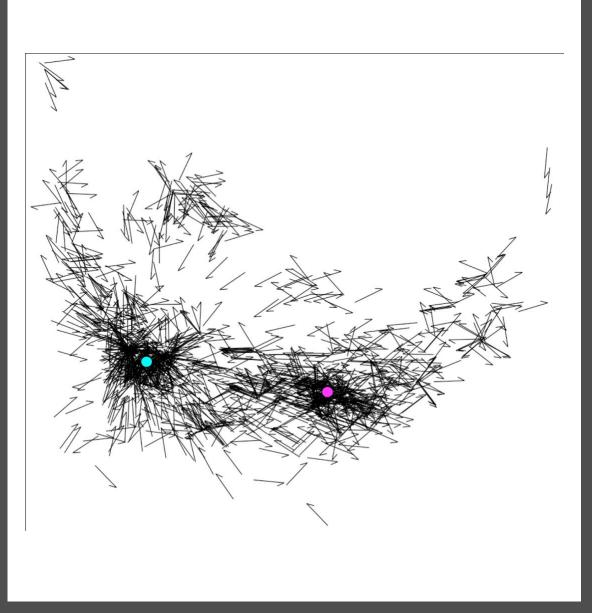
- Awareness space
- Paths, nodes and edges
- Crime occurrences
- Directionality = towards

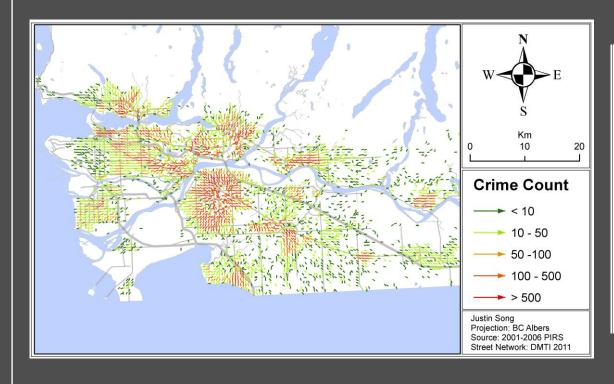


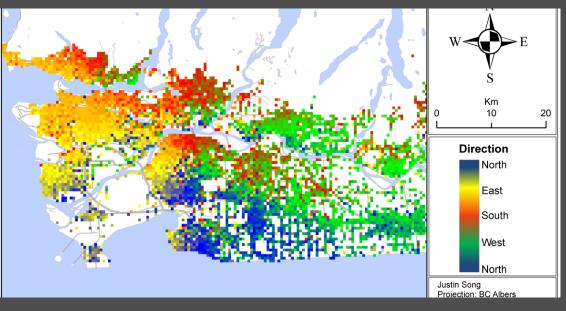
Criminal Activity Vectors- Attractiveness of City Centrers (2009) Richard Frank and Patricia Brantingham











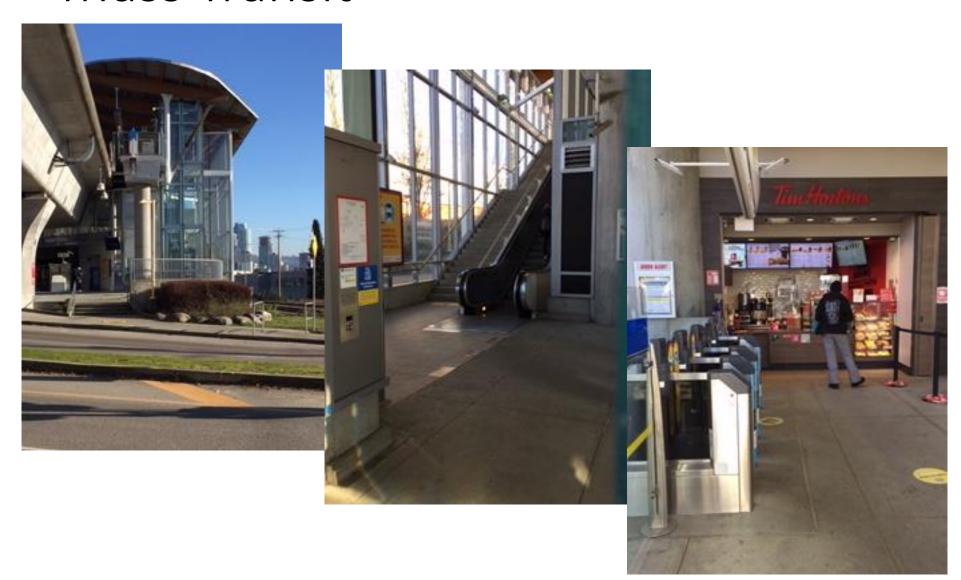
Examples: Micro and Meso Level

- Designing a town
- Designing mass transit
- Designing parks
- Addressing existing attractor-generators issues
 - Known repeat offenders-low risk nuisance behaviour
 - Known repeat offenders-high risk assaults
 - Consider fear issues- reducing fear can sometimes increase risk
 - Dark alleys/ laneways
 - Elevators

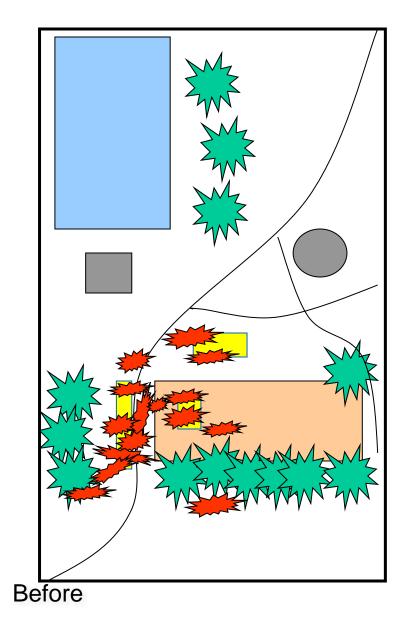
Tumbler Ridge

- Rural, Northern BC
- Was mining town (3); now resort area for northern Alberta
- Planning to reduce future risky places

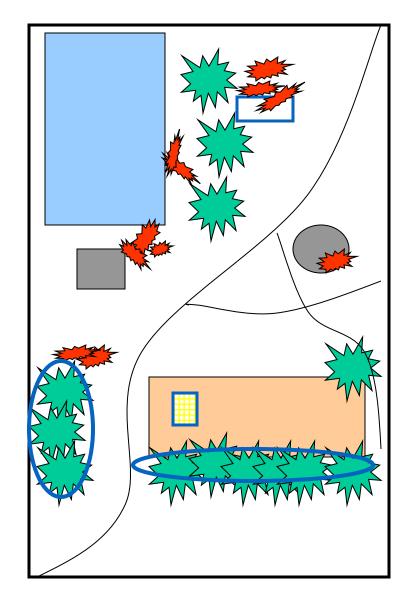
Mass Transit



Park



After



Future

- Impact of Covid
 - Shopping/work- types of crimes and where
 - Gathering- bigger divide
- Impact of technology
 - Cell phone apps- info about crime attractors, planning crime
 - Social networks
 - Computer crime- large and small
 - Social networks
- To awareness space and crime attractors/generators
 - add web nodes, internet attractors, internet networks,.....
- Computational criminology

Refs: (summit/sfu.ca) enter Brantingham; pick crime attractors....

Brantingham articles

(2020) Brantingham P. J., Brantingham, P. L., Song, J. and Spicer. V. Crime Hot Spots, Crime Corridors and the Journey to Crime: An Expanded Theoretical Model of the Generation of Crime Concentrations pp. 61-86 in K. M. Lersch and J. Chakraborty (eds.) Geographies of Behavioural Health, Crime, and Disorder: The Intersection of Social Problems and Place. Switzerland: Springer International Publishing.

(2020) Hewitt, Ashley, Andresen, Martin, Beauregard, Eric, and Patricia Brantingham. Dangerous Times? A Routine Activities Examination of the Temporal Patterns of Sexual Offenses over Time. Justice Quarterly

(2019) Song, Justin, Spicer, Valerie, Park, Andrew, Tsang, Herbert and Patricia Brantingham. Computational Method for Identifying the Boundaries of Crime with Street Profile and Discrete Calculus. 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)

(2017) Justin Song, "Martin A. Andresen, Patricia L. Brantingham & Valerie Spicer. Crime on the edges: patterns of crime and land use change. Cartography and Geographic Information Science Volume 44, 2017 - Issue 1

(2016) Spicer, Valerie, Song, Justin, Brantingham, Patricia, Park, Andrew and Martin Andresen. Street profile analysis: A new method for mapping crime on major roadways Applied Geography Volume 69, April 2016, Pages 65-74

(2013) Song J, Spicer V, Brantingham P, Frank R. Crime Ridges: Exploring the Relationship between Crime Attractors and Offender Movement. 2013 European Intelligence and Security Informatics Conference. IEEE; 2013:75-82.

(2013) Song, Justin, Spicer, Valerie, and Patricia Brantingham. The edge effect: Exploring high crime zones near residential neighborhoods. Proceedings IEEE International Conference on Intelligence and Security Informatics.

(2008) J. Bryan Kinney, Patricia L. Brantingham, Kathryn Wuschke, Michael G. Kirk and Paul J. Brantingham "Crime Attractors, Generators and Detractors: Land Use and Urban Crime Opportunities." Built Environment 34(1):62-74.

(1995) P. L. Brantingham and P. J. Brantingham, "Criminality of place: Crime generators and crime attractors," European Journal on Criminal Policy and Research 3: 5-26.

(1993) P.L. Brantingham and P.J. Brantingham, "Nodes, Paths and Edges: Considerations on the Complexity of Crime and the Physical Environment" <u>Journal of Environmental Psychology</u> 13:3-28.

(1993) P.L. Brantingham and P.J. Brantingham, "Environment, Routine and Situation: Toward a Pattern Theory of Crime," Advances in Criminological Theory 5:259-294

Thanks