Crime and Place:
Understanding the Risk of Crime

Have you ever wondered why crime occurs where it does? How the physical, built environment leads to criminal activity? The Department of Sociology and Criminology is offering students the opportunity to explore these questions and more through certification in Risk Terrain Modeling through Rutgers University (http://www.rutgerscps.org/).

Basics:

1. Free to students
2. Online, self-guided
    a. Assistance through Dr. Drawve
3. Dates: February 4-June 28, 2019
    a. 5 Months to learn at your leisure
4. Develop and complete a RTM project

What you get:

1. Books:
    a. Risk Terrain Modeling: Crime Prediction and Risk Reduction
    b. Risk-Based Policing: Evidence Based Crime Prevention with Big Data and Spatial Analytics
2. RTMDx Software Access
3. Data through the Department of Sociology and Criminology
4. Understanding of the spatial components of crime without delving directly into a GIS program

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What is Expected:

➢ For those students who are interested and selected, it is required you complete the webinar in the timeline above. This includes the certification requirements through RCPS. With that, once finished, there will be a brown-bag style lunch where students will present their research projects in the Fall of 2019. Additionally, there will be a hands-on lab portion where students teach other students (not enrolled) about RTM. If students are graduating Spring/Summer of 2019, presentations will be recorded and made available.
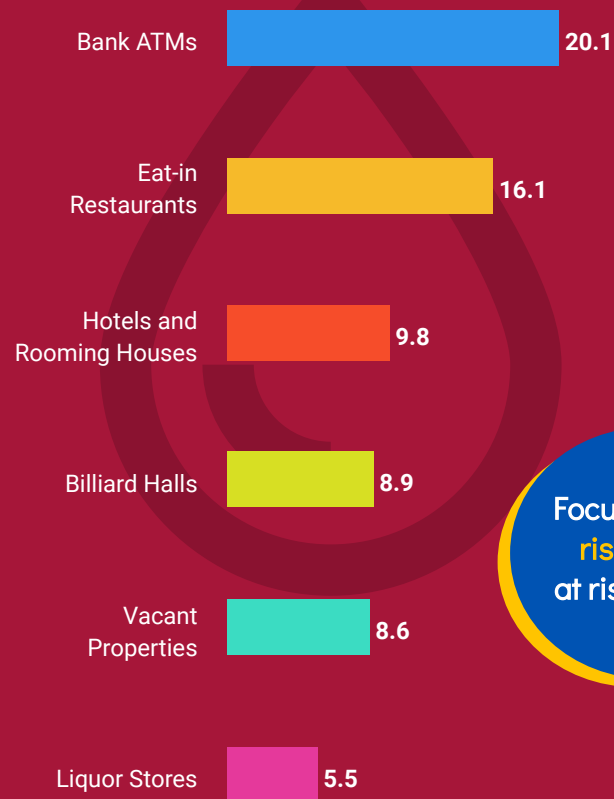
Next Steps:

➢ If you are interested in taking the online course, email Dr. Drawve by January 25th with "RTM Webinar" in the subject line. In the email provide a paragraph stating your interest in this type of training webinar and attach your current resume. Selections are competitive since there are limited seats available (7).

DANGER
ENTER AT YOUR OWN RISK

Cost
Effort
Risk

What is Risk Terrain Modeling?
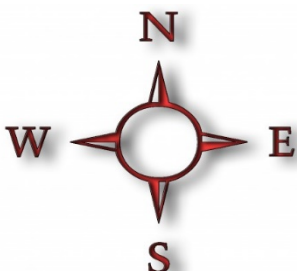
Crime Attractors & Risk Values

Use this chart to form risk narratives about the situational contexts of crime. Then develop strategies to disrupt the narratives and mitigate risks.
Visit riskterrainmodeling.com/risk-reduction.html for details and case studies.

- Bank ATMs — **20.1**
- Eat-in Restaurants — **16.1**
- Hotels and Rooming Houses — **9.8**
- Billiard Halls — **8.9**
- Vacant Properties — **8.6**
- Liquor Stores — **5.5**

Focus on these **risk factors** at risky places.

RTM focuses on places, not people. Crime prevention and risk reduction actions are effective and evidence-based. RTM promotes unbiased and positive engagements with communities. **For example, visit riskbasedpolicing.com to see how.**
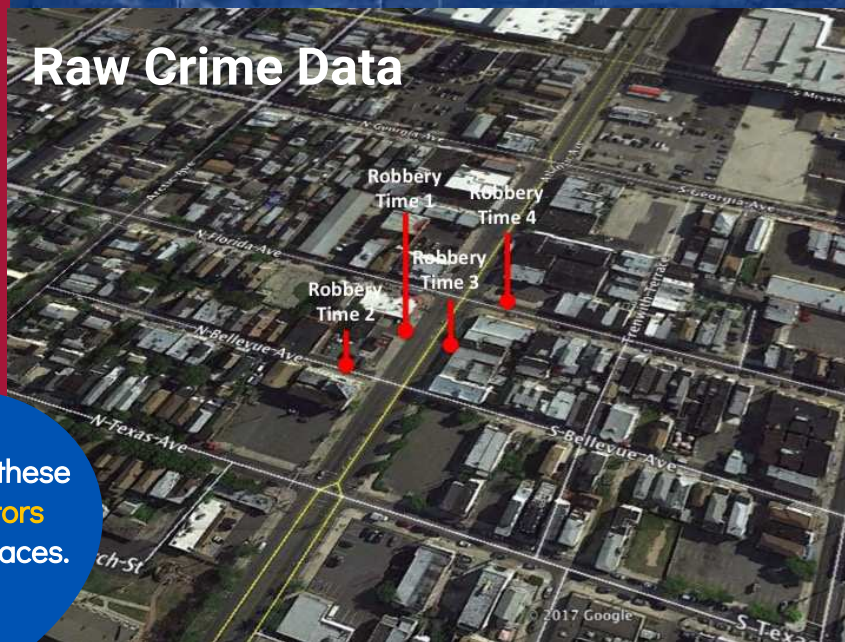
In comparative tests, RTM forecasts outperform hot spot mapping and other methods. Over 45 peer-reviewed journal articles are published in the U.S. and around the world, plus 2 books from University of California Press. **Visit rtmworks.com to see the evidence.**

## RTM is a Spatial Diagnostic and Vulnerability Assessment

RTM diagnoses environmental conditions that lead to crime. This assessment is used for problem-solving, forecasting, and to inform decisions about resource deployments, crime prevention and risk reduction strategies that are data-driven, transparent, civilly just, and sustainable.

Raw Crime Data

Robbery Time 1
Robbery Time 4
Robbery Time 3
Robbery Time 2

Enhanced with RTM

Risky Place
Risky Place
Risky Place
Convenience Store w/in 1 block
Liquor Store w/in half block
Gas Station w/in 1.5 blocks
Vacant Properties w/in 2 blocks
Risky Place

Raw crime data tells you where reported incidents are located after they happen.

RTM is...
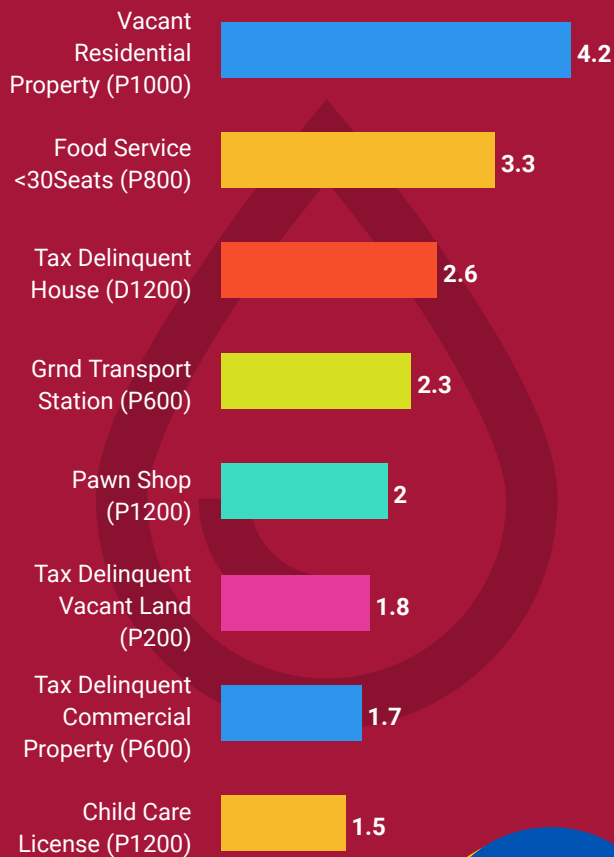*Accurate Forecasts.*
Actionable Intel.
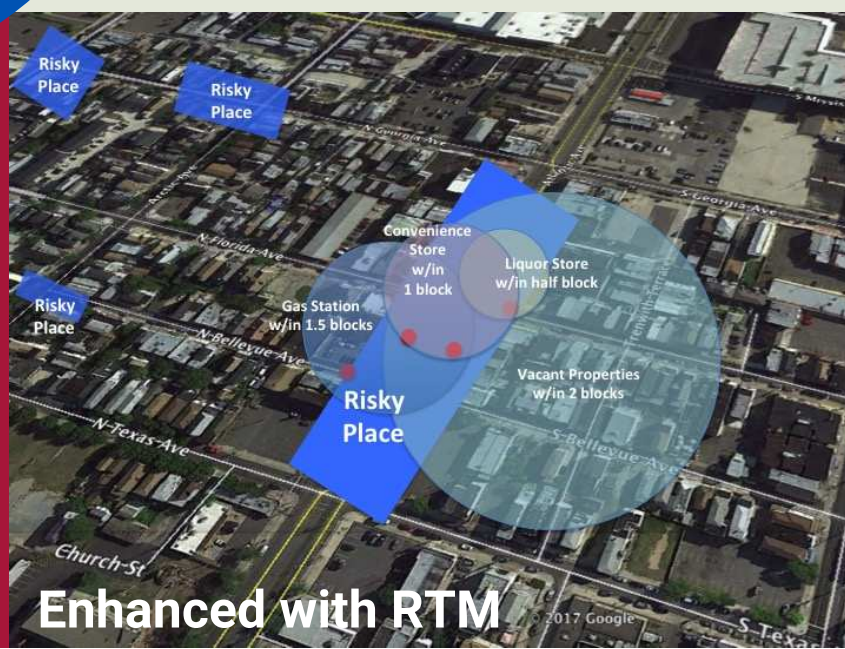
RTM analyzes raw data to tell you **WHERE & WHY.** It diagnoses environmental attractors of criminal behavior and finds other similar settings at risk. This diagnosis makes very accurate forecasts of new crime locations.

Watch and Read More at riskterrainmodeling.com

Crime Attractors & Risk Values

Attractor	Risk Value
Vacant Residential Property (P1000)	4.2
Food Service <30Seats (P800)	3.3
Tax Delinquent House (D1200)	2.6
Grnd Transport Station (P600)	2.3
Pawn Shop (P1200)	2
Tax Delinquent Vacant Land (P200)	1.8
Tax Delinquent Commercial Property (P600)	1.7
Child Care License (P1200)	1.5

Focus on these risk factors at risky places.

Crime Attractors are features of the environment that statistically relate to crime patterns. Interpret **Risk Values** as weighted influences of these features on criminal behaviors nearby. E.g., Places near attractors with a risk value of 6 are twice as vulnerable to crime compared to places near attractors with a risk value of 3. **Use this information to form risk narratives about the situational contexts of crime and then develop intervention strategies to disrupt the narratives and mitigate risks.** See riskterrainmodeling.com/risk-reduction.html

RTM Report - Phila., PA

Diagnosis & Spatial Vulnerability Assessment for 2019 [Shootings]

Risk Terrain Modeling (RTM) diagnoses environmental conditions that influence behaviors and lead to crime outcomes. Use this assessment for problem-solving and to inform decisions about resource deployments, crime prevention and risk reduction strategies.

Highest Risk
- High risk
- RRS greater than 106.191+

Top 5% of Highest-Risk Places

These risk terrain maps show vulnerable places for future crime. Deploy resources to focus on these places.

Priority Places
- High Priority Places
- Exceptionally Risky Places

Top 1% of Highest-Risk Places

200 ft places = 100,690; Range = 1 to 694.355; Mean = 21.892; Standard Deviation = 42.149; Places > +2SD = 7,671 (2.93%)
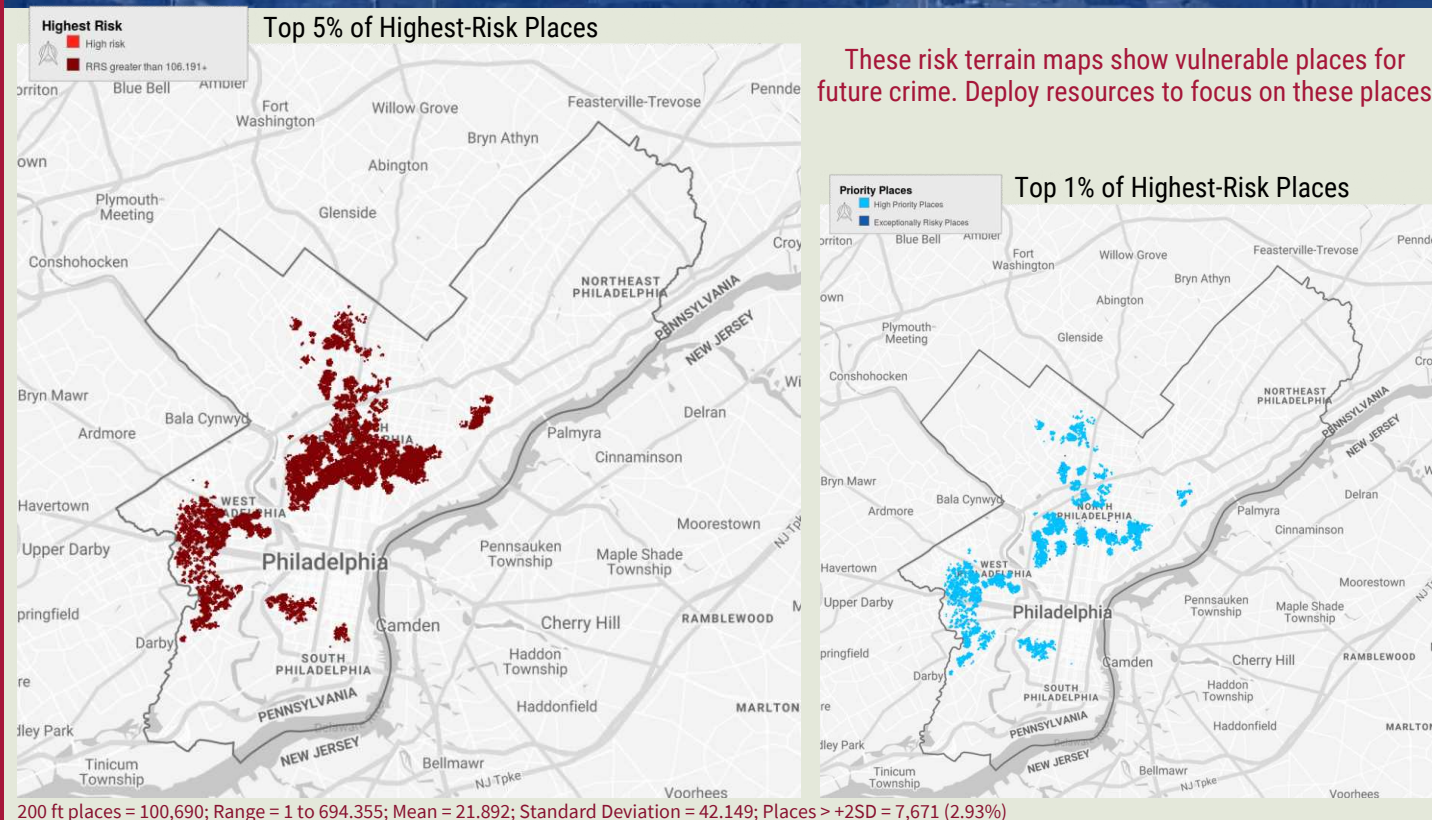
1240 Shootings in 2018	**216** Fatalities	**10%** Juveniles Victims	**$33k** Local CJ & healthcare cost savings for EACH crime prevented

Predictive Validity

RTM predicted 4.6% of the city to be highest-risk in 2018 and these places accounted for over 36% of the shooting incidents. Predictive Accuracy Index (PAI) = 10.4 (greater than 1 is good) **There is HIGH CONFIDENCE in the new RTM forecast for 2019.**