

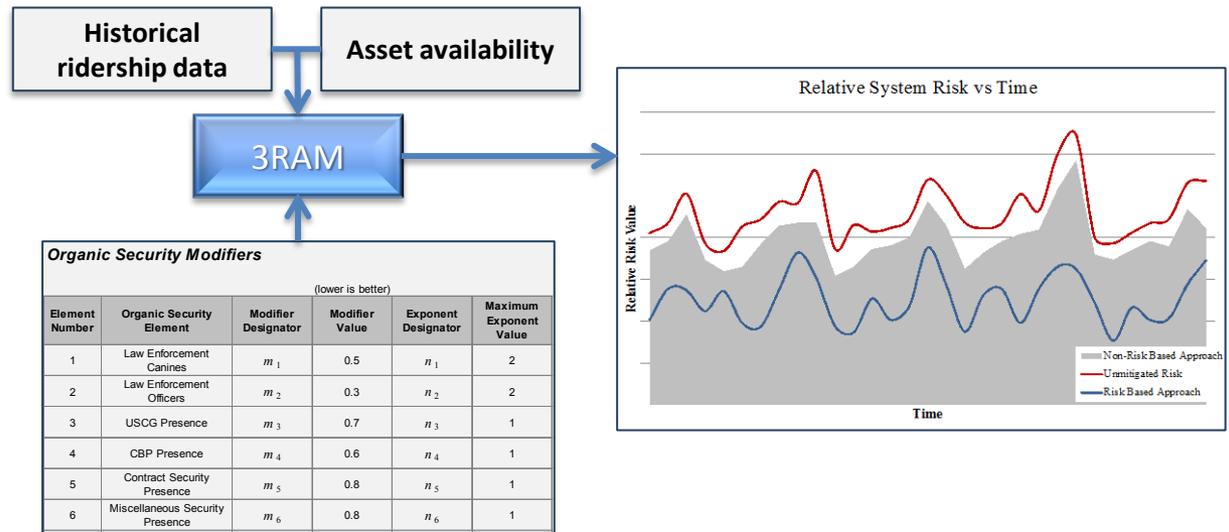
Risk Reduction and Resource Assessment Model (3RAM)

Scientific Challenge: Improve the way—where, when, and how many—limited security assets and resources are deployed across a large-scale transportation system. Integrate information from disparate data sources to develop an automated, end-user tool that optimizes risk reduction.



Scientific Results

- ▶ Improved security measures across transportation system using time based, analytical approach for optimizing asset allocation resulting in optimal reduced system-wide risk



Why It Matters

- ▶ Security measures are taxed to perform a variety of screening procedures and respond to numerous events
- ▶ Allocating resources in a risk-informed manner, as a function of time, improves the security of overall system
- ▶ Method in use by DNDO, USCG, WA State Ferry, and WA State Patrol for maritime transportation security threats and risk analysis