

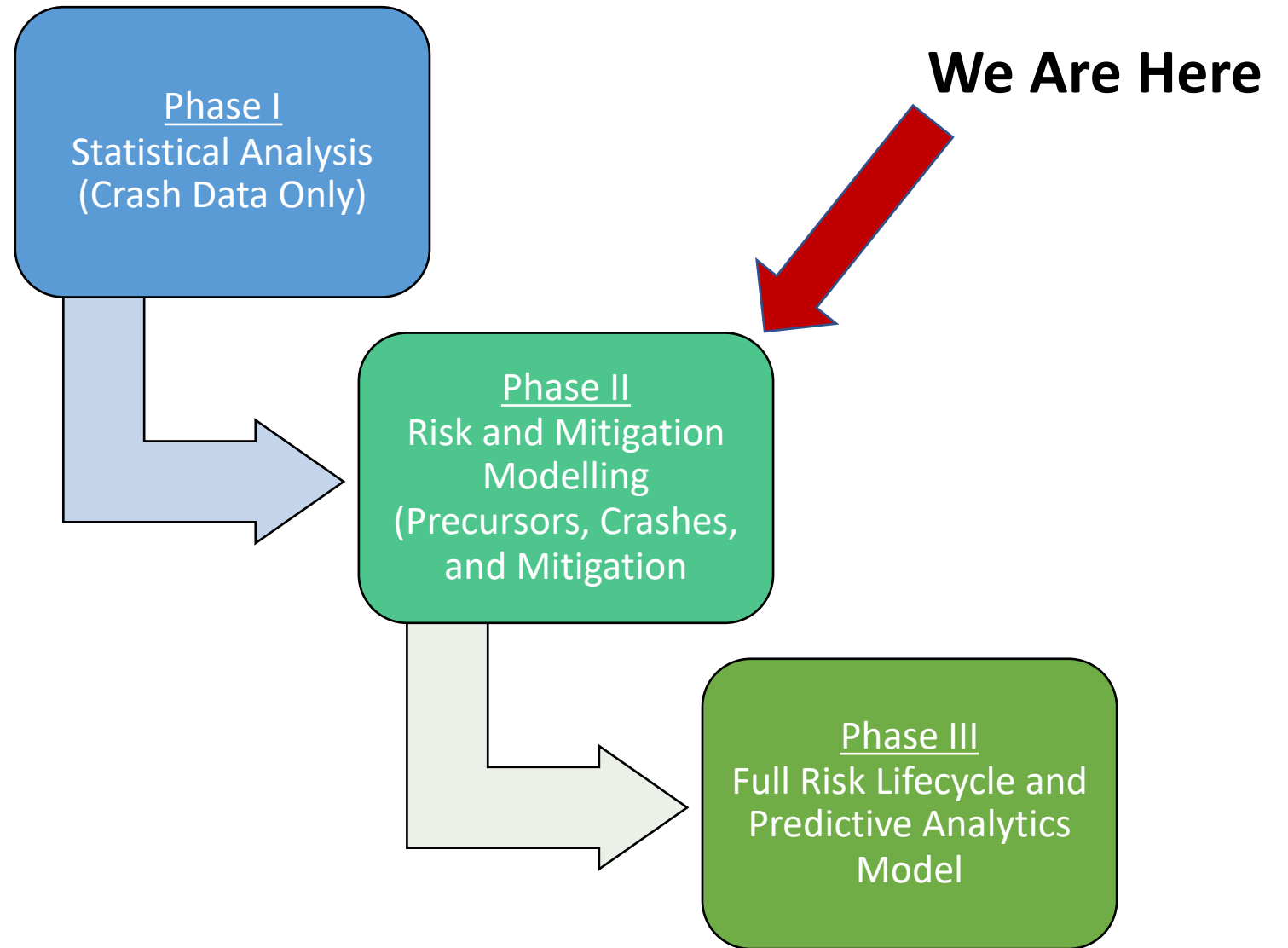
Next Generation Approaches to CMV Analytics

Clinton Seymour (FMCSA)

Jeremy Pate (UA)



Progress Toward Full Prediction



Tools in the Toolbox

“Classic” Analytics

ADVANCE

ADVANCE
Next-Gen

Data Collection

eCrash

eCite

eWeight

MapClick

eInspect

Tactical and Predictive Analytics

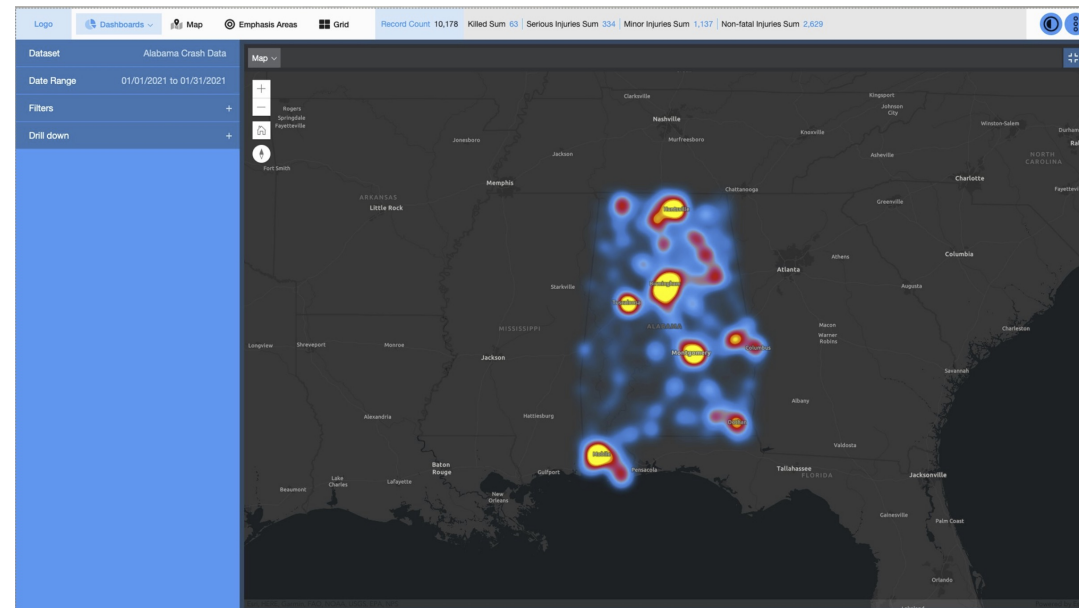
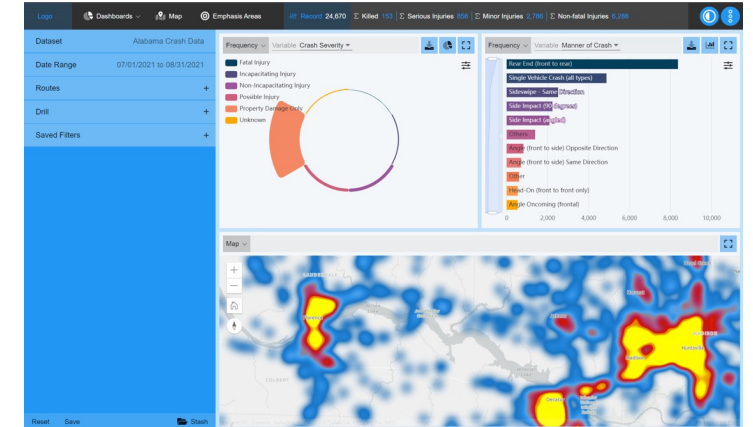
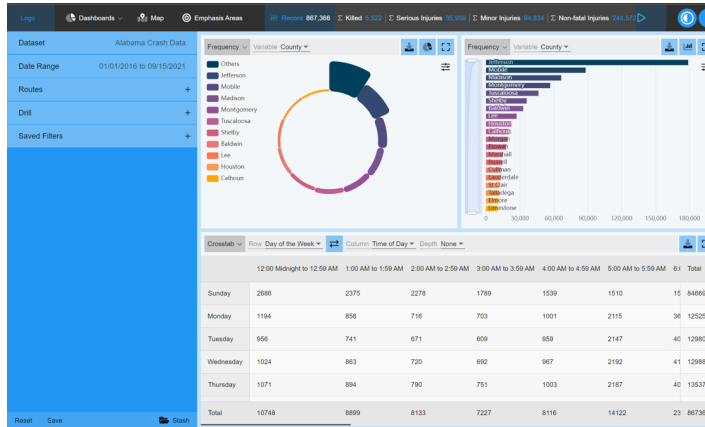
Tactical
Analytics
Viewer

Risk
Lifecycle
Predictor

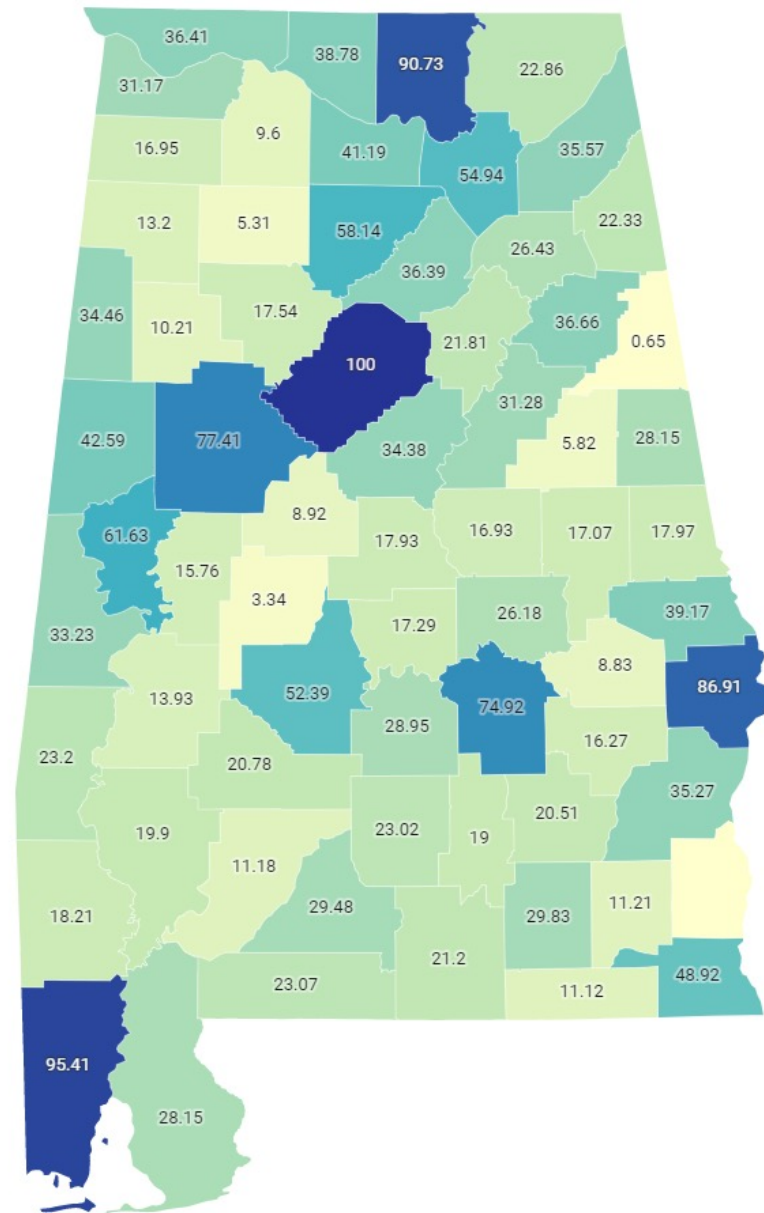
 New Systems

2022
**SOUTHEAST
 CMV
 SAFETY RESEARCH
 SUMMIT**

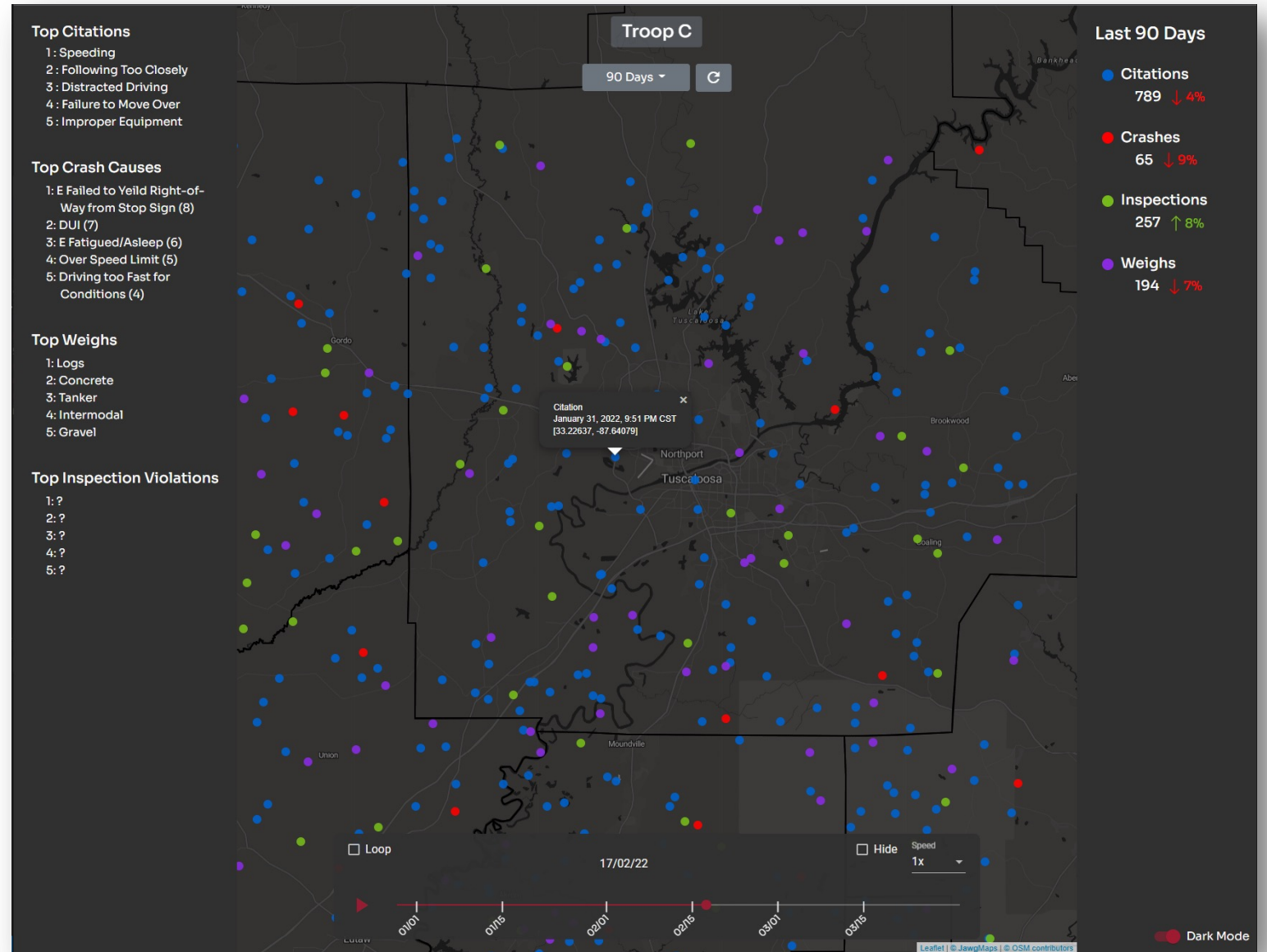
Next
 Generation of
 Traditional
 Analytics
 Tools



Sample Risk to Enforcement Calculation



Tactical Enforcement View (Prototype)



Risk and Mitigation Loop



There are a
Lot of
Factors to
Assessing
Risk
Including...

Economic Development

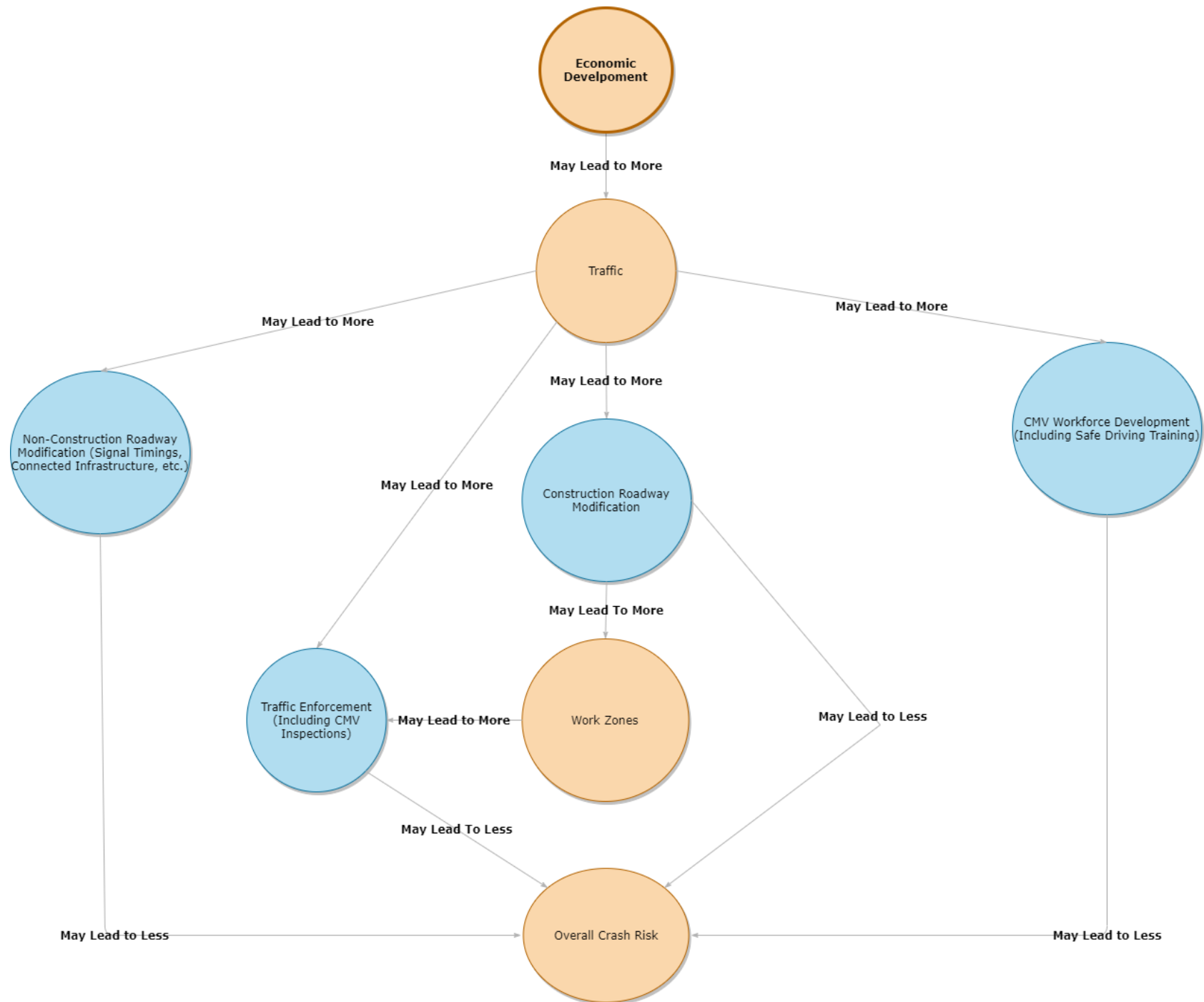


Driver Behavior

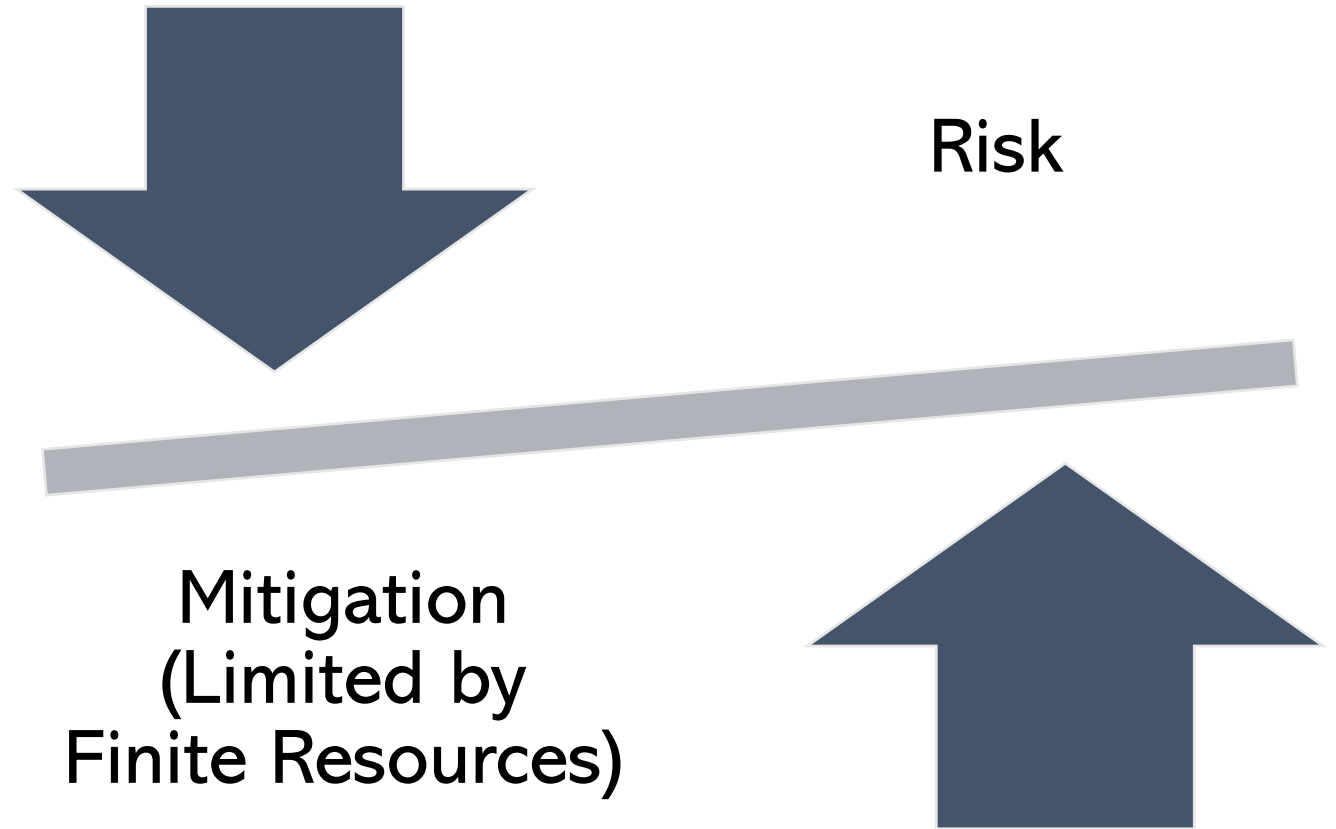


Road Construction and Work Zones

It Gets Even More Complicated...



Finding the Right Balance of Addressing Risk...



Our Strategy...



Tactical
Data-Driven
Enforcement



“Classic” Analytics
(Traditional
Strategic
Planning)



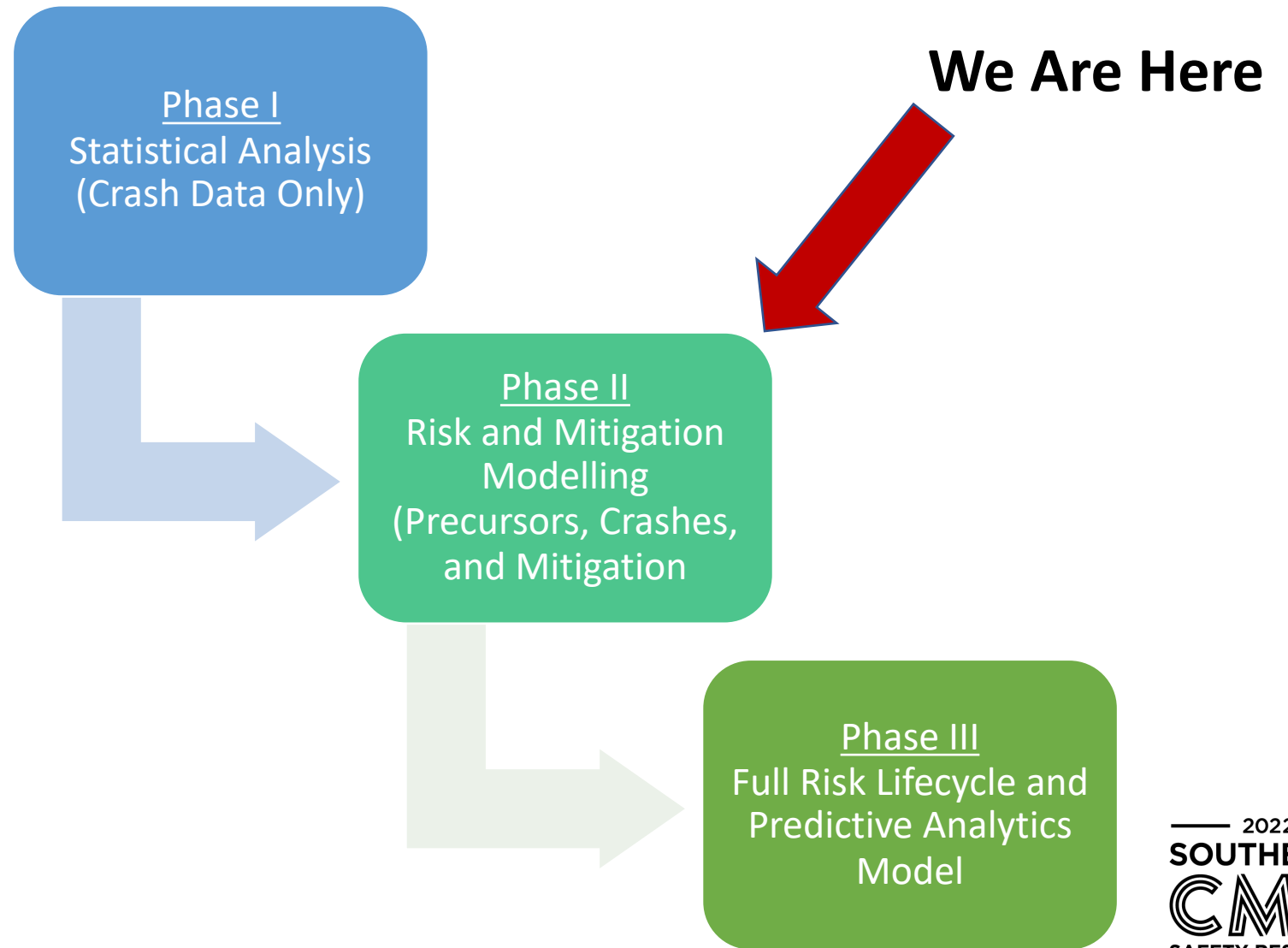
Predictive
Analytics
“Whole Picture”
Planning



The Problem With Prediction...



Progress Toward Full Prediction



Measuring
Our Progress
*(How Will We
Know When
We Get
There?)*

Understanding and
Participation in the
Safety Picture From
Everyone

Outcomes are
Measured Based on
Mitigation Strategies

Predictive Models are
Demonstrated to be
Better Than What
We're Doing Now

Data and Enforcement
Tools In-Development
and In-Place That
Reflect All of This



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CMV
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