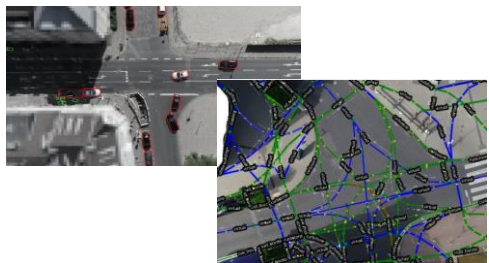


Massive Data Input



Naturalistic Driving Data

High Risk Data

Typical /
High-Risk
Driving
Scenarios
Database

All-Road Users

All-Condition

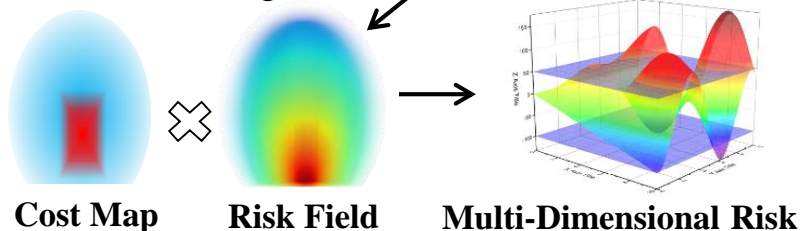
Full-Coverage

Dynamic Risk Quantification

Risk Behavior Extraction



Risk Modeling



Risk Inputs

LLM Decision-Making

Continuous
Evolution

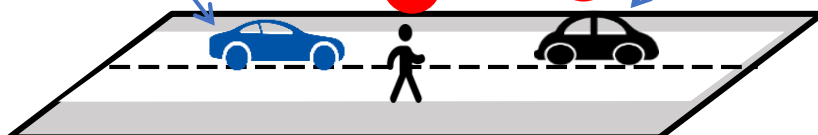


Online
Reasoning

Memory Updates

CoT Prompts

Query Advise



Adaptive Scenarios Scene 1 → ... → Scene X

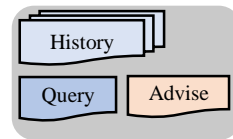
Self-
Adjusting

High-level Autonomous Vehicles



Algorithm Embedding

Risk-Sensitive Driving Agent



Recall Similar
Experience and
Output Decision

Updates

Fixed Policy

Automated Policy

Knowledge-Data Driven
Decision-Making