

Spill



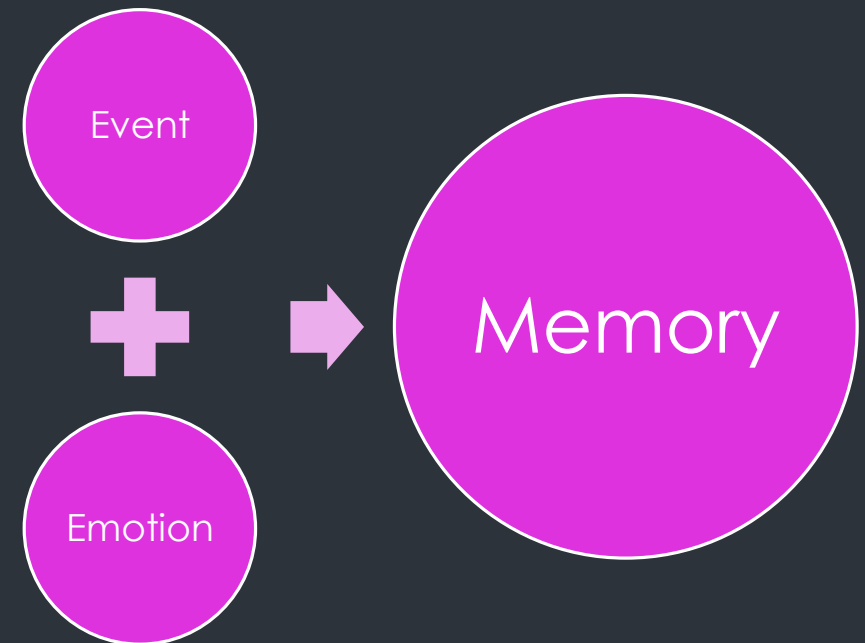
# The Three Sides of Every Story

“There are three sides to every story: your side, my side, and the truth. And no one is lying. Memories shared serve each differently.”

-Robert Evans, film producer

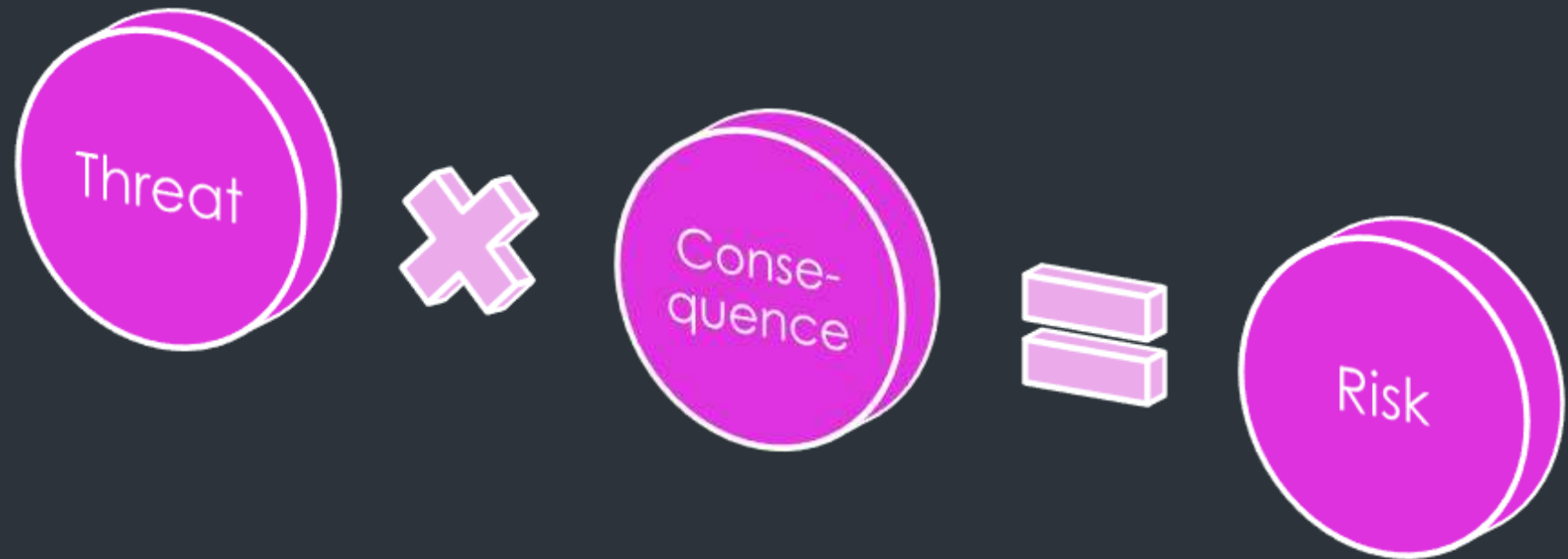
# Memories Shared

- ▶ What spill stories do you remember the most?
- ▶ The least?
- ▶ Should we be focusing on the root causes of some events more than others?



# Fix it by first understanding the risk

- ▶ Lagging and Leading Indicators: more than just words
- ▶ How do we get from the story to the event?





Three Sides of, well... everything!

► Hazard

► Threat

► Consequence

**Not exercising regularly**

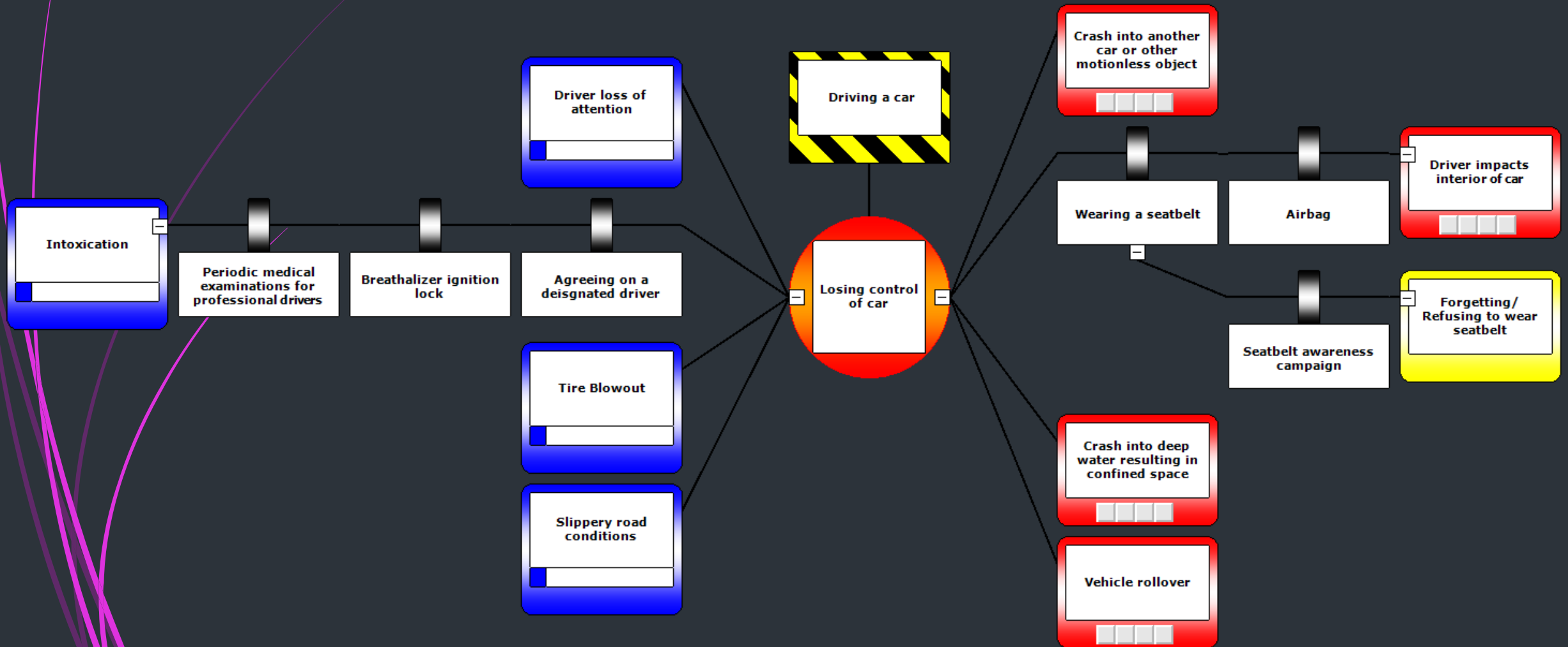
**Making a cup of coffee**

**Driving a car**

**Water skiing**

**Dropping your child off at school**

# The "H-T-Cs" of Driving A Car



# Advantages of a Barrier-based Approach

- ▶ 1: Effectiveness
  - ▶ 2: Evolution
    - ▶ What H-T-Cs were present:
      - ▶ Before the event?
      - ▶ During?
      - ▶ After?
  - ▶ 3: Tangible and Documented
- (plurality is intentional here, right?)

**Does part of your root cause process include awareness of all possible H-T-Cs?**

# #1: Effectiveness

---

Quantify Mitigation

---

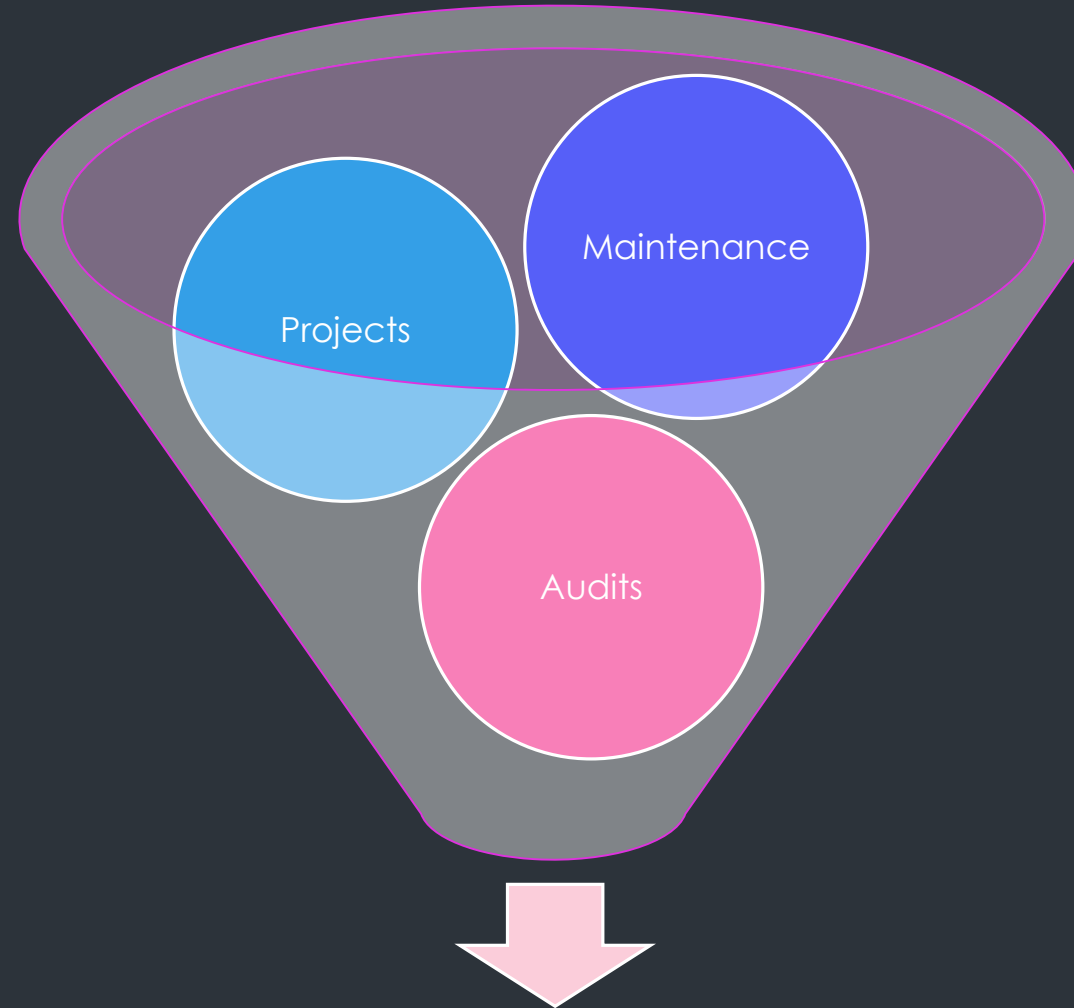
“New” Threats

---

Work Contribution



# Work Contribution



Barriers to Threats and  
Consequences!

Can you  
identify the  
barriers your  
team's work  
efforts fortify?



## #2: Evolution



FAILURE

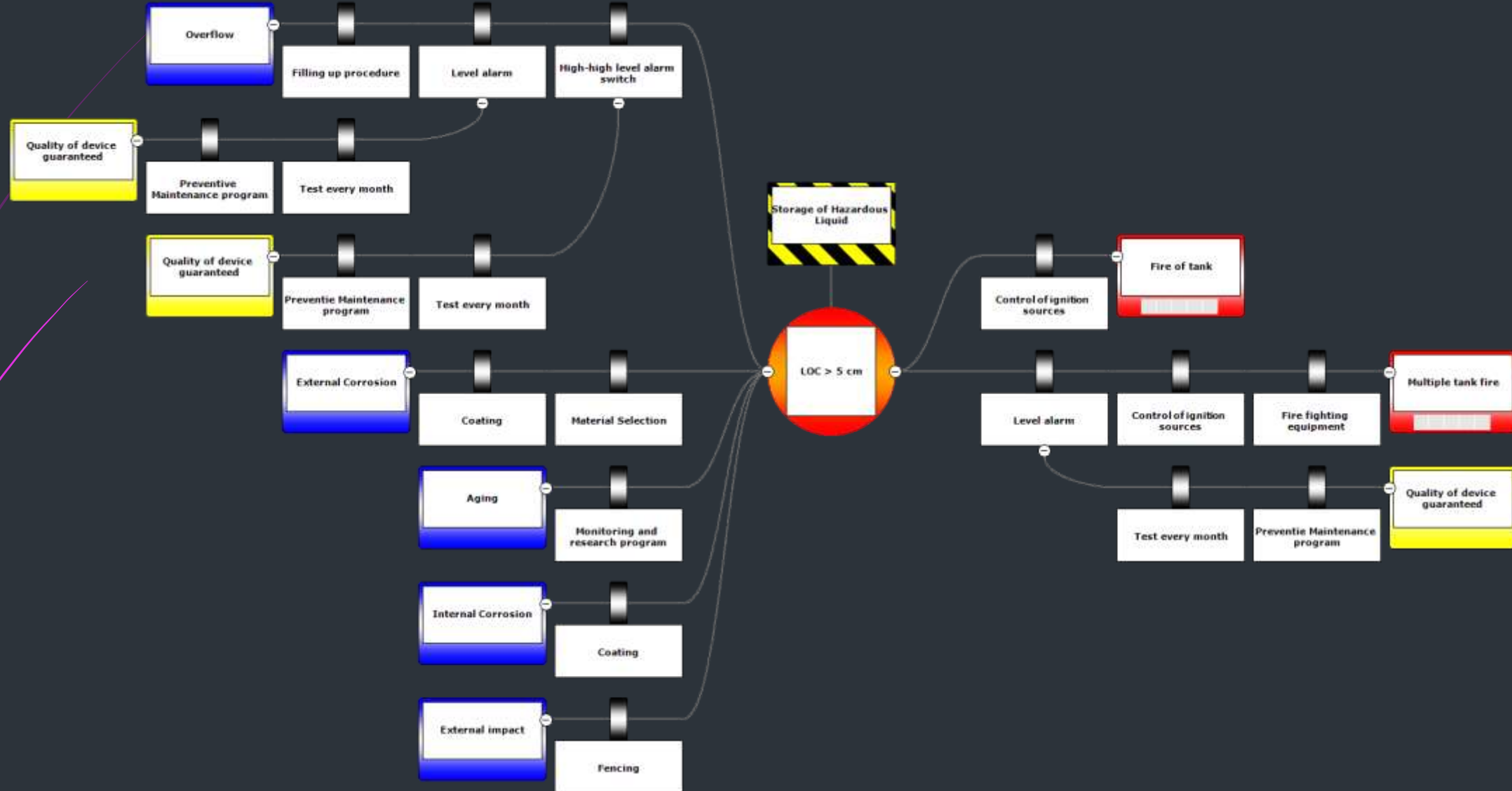


IMPACT

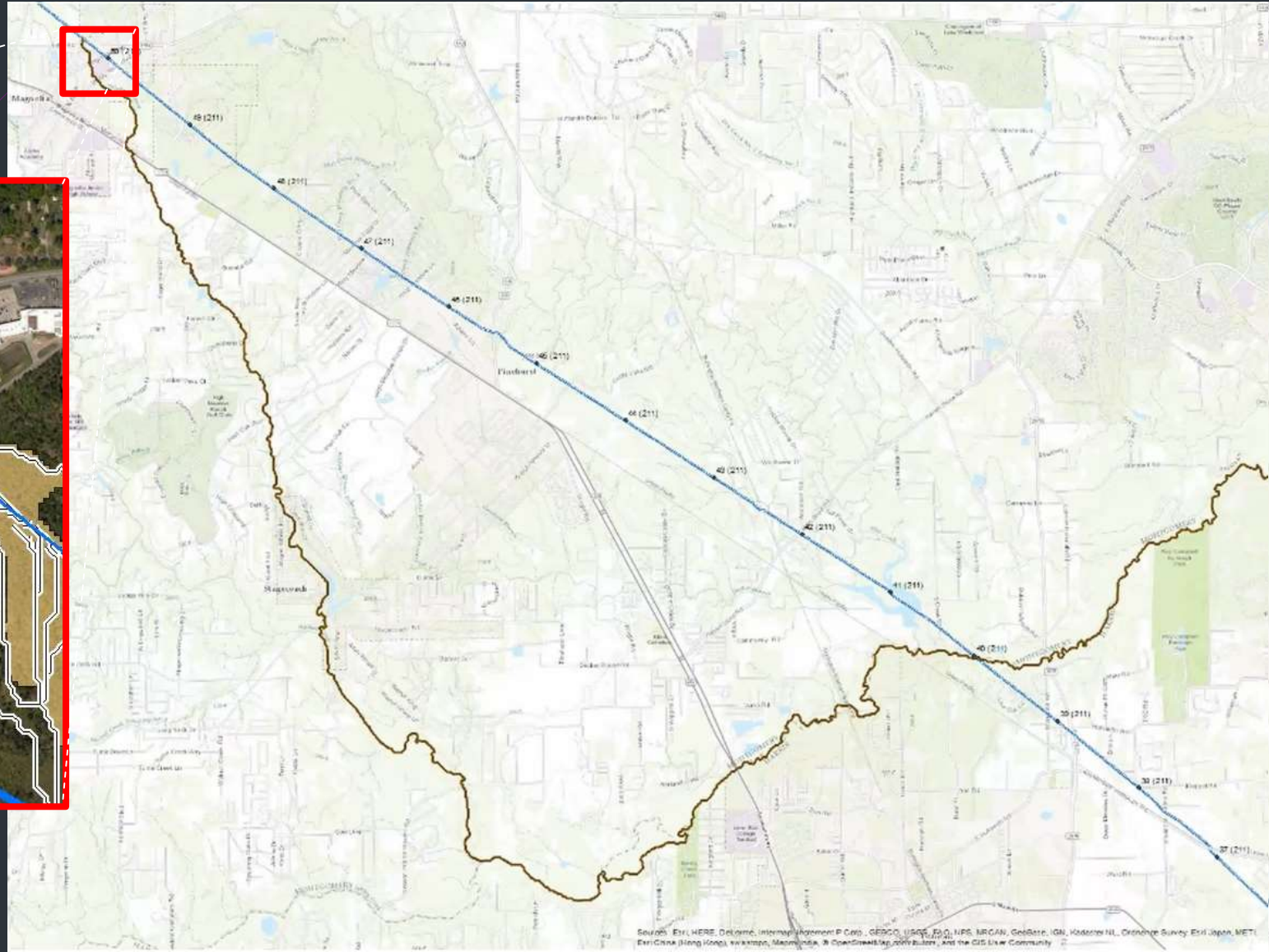
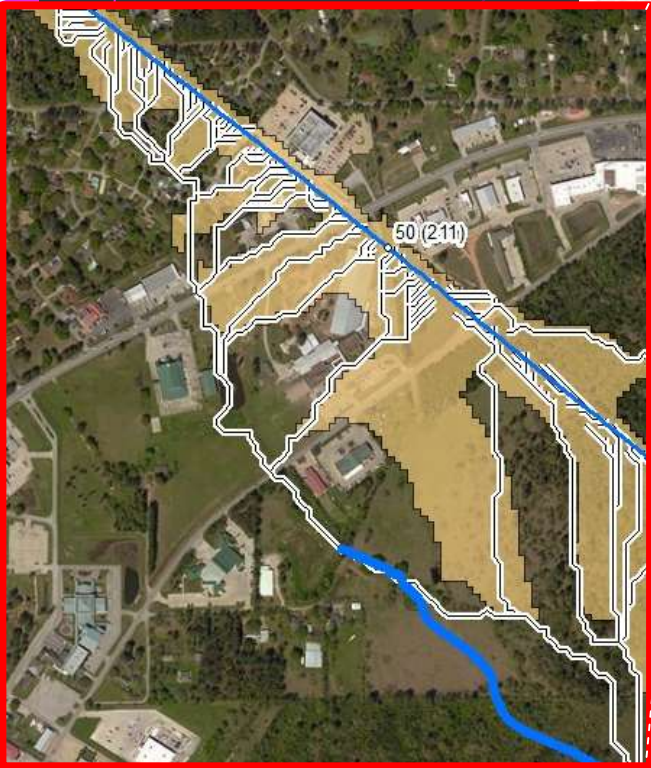


CLEANUP

# #3: Tangible and Documented

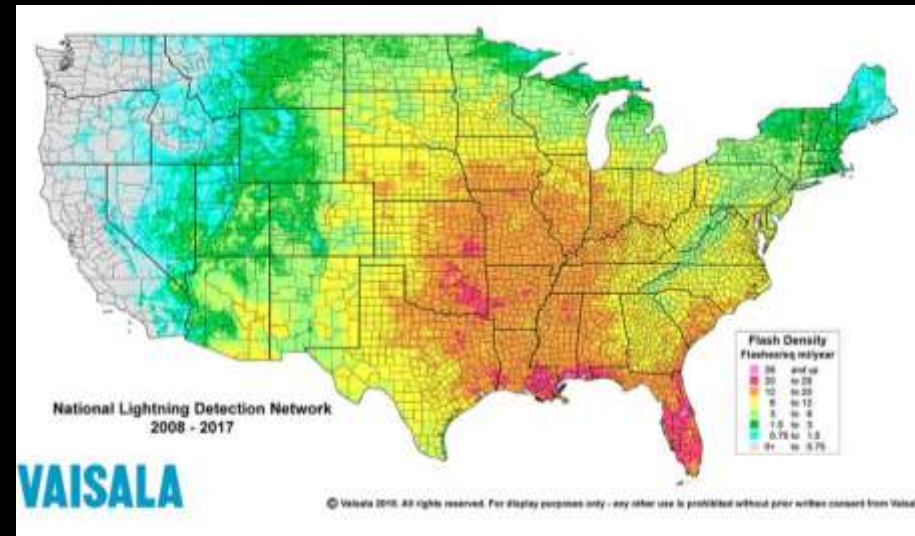
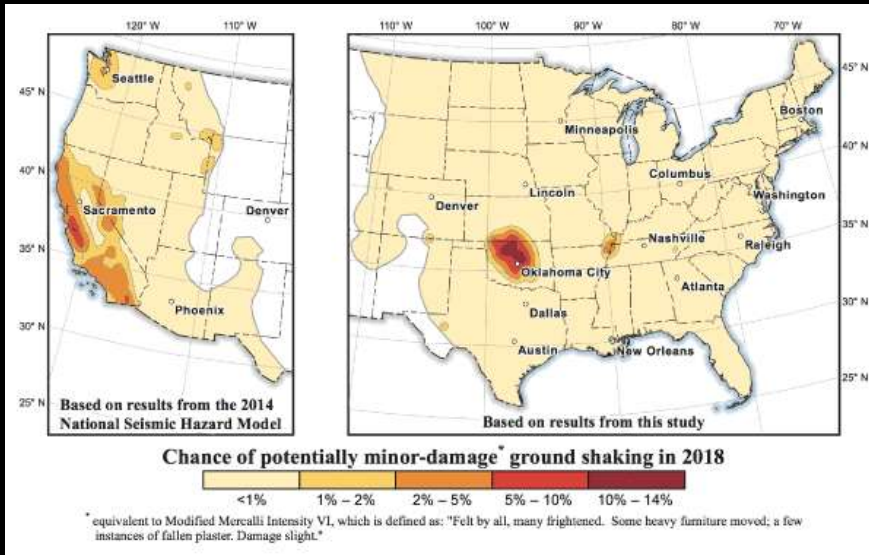


# Spill Model: Knowledge is the Advantage



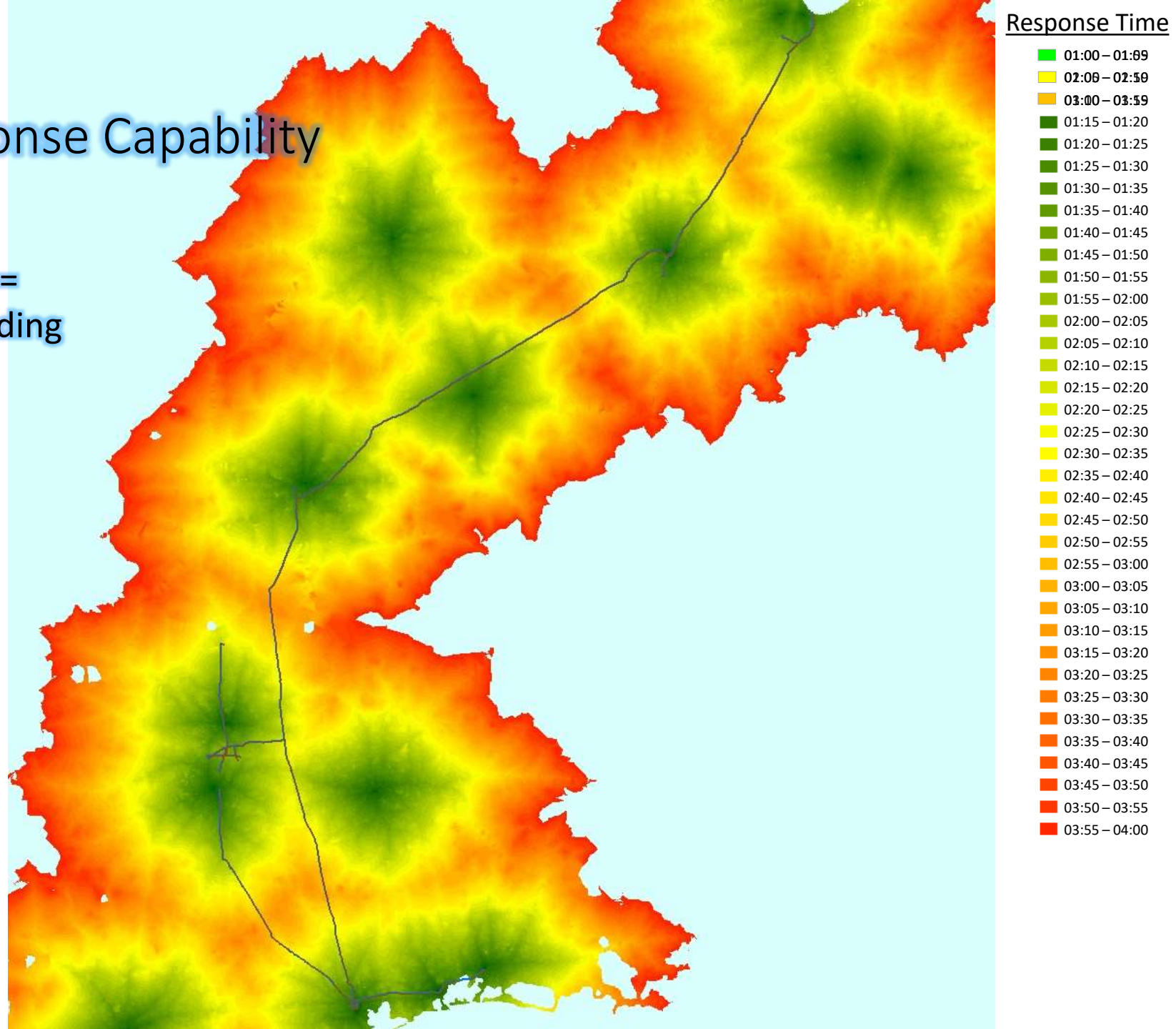


# Weather and Outside Forces



# Emergency Response Capability

Updates and increased resolution =  
Relevant and increased understanding







# Thank you

Jack Van Schenck  
Explorer Pipeline Company  
[jvs@expl.com](mailto:jvs@expl.com)

# Risk Threat Modeling

**Barriers to eliminate and prevent threats of hazardous event**

**Barriers to control consequences and effects**

