



VALERANN'S VISION

Use data to create the biggest improvement in road safety since the seat belt.



IDENTIFY
Incidents

RESPOND Sooner

REDUCE Accidents





WE ARE DEALING WITH AN OVERWHELMING AMOUNT OF DATA



1M
Vehicle Counts



50M

Object Detected



10M

Vehicle data points





1K

Mentions



50K

Weather data points



100 s

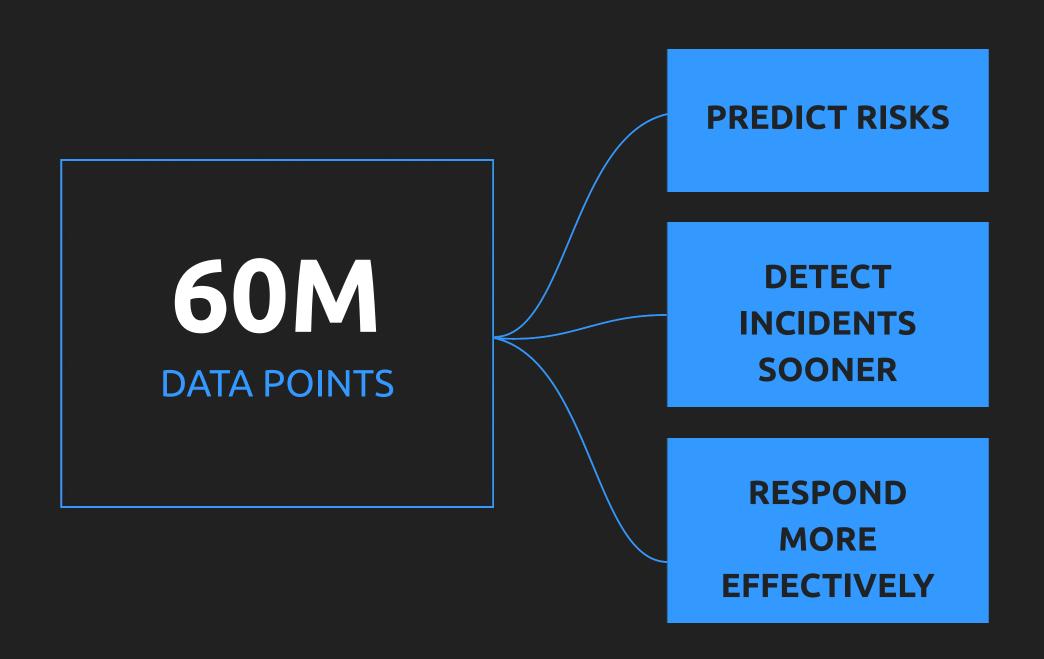
Phone Calls

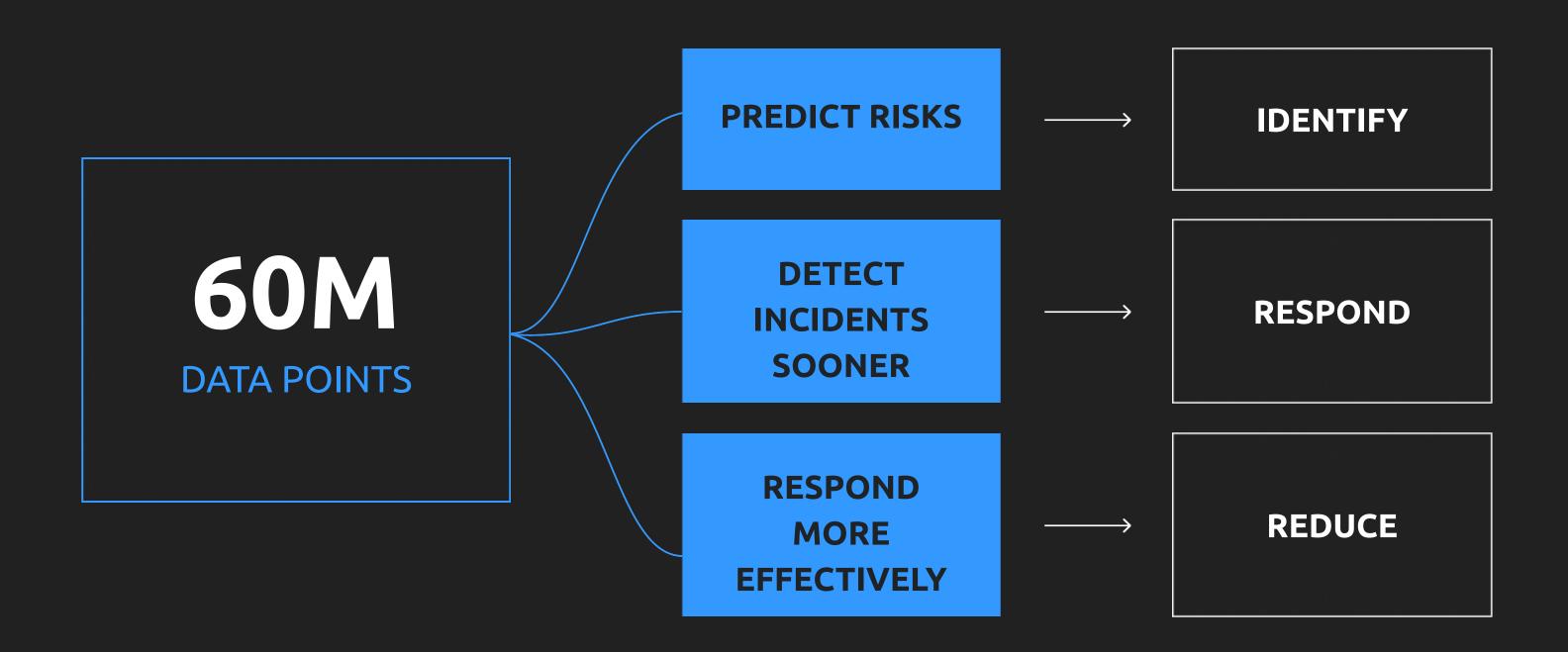


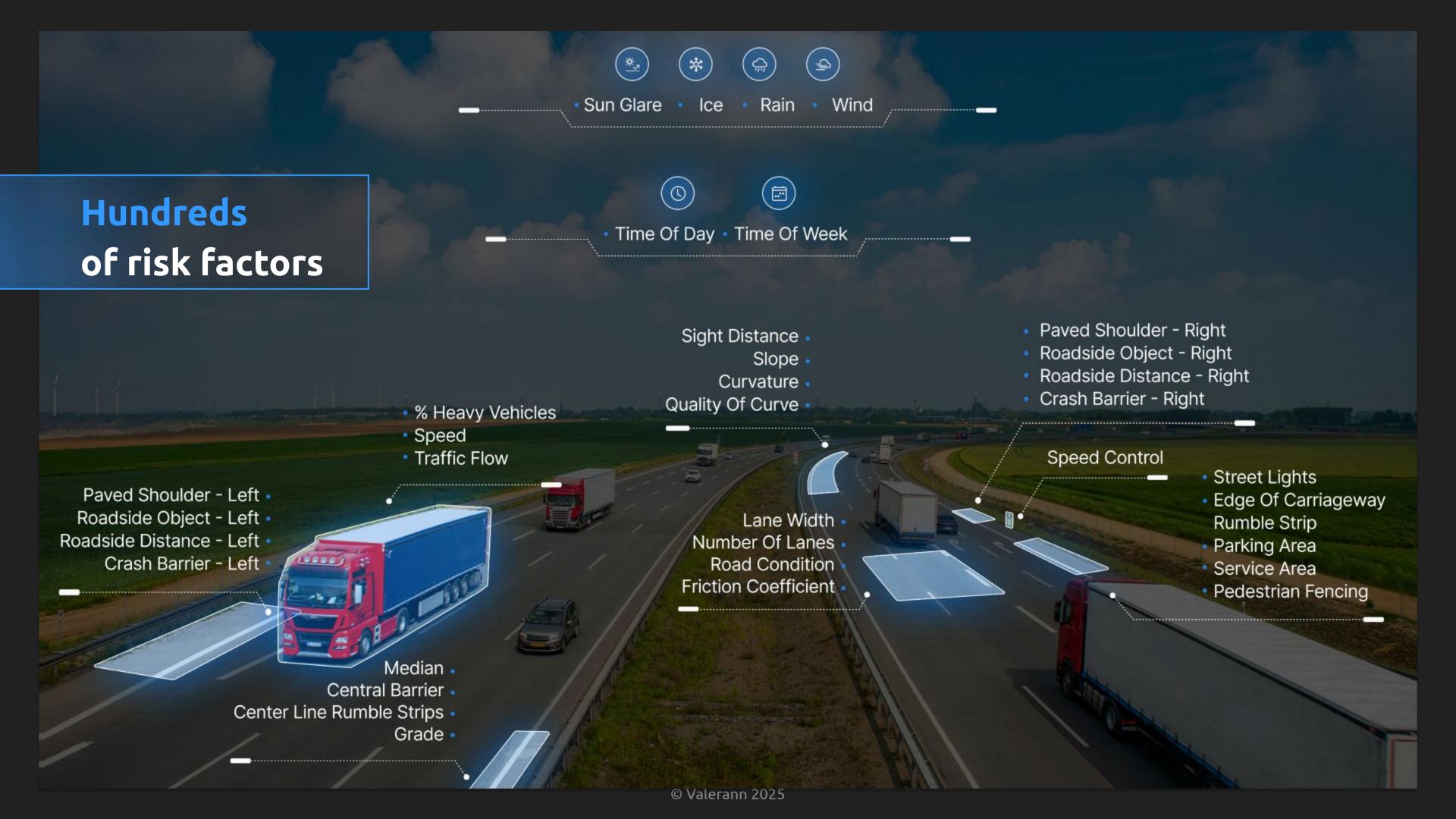
3K

Traffic-related events

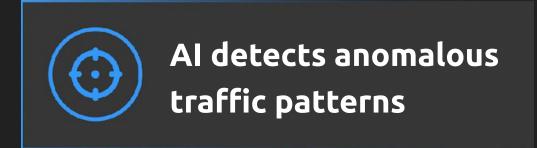
That's where AI comes in



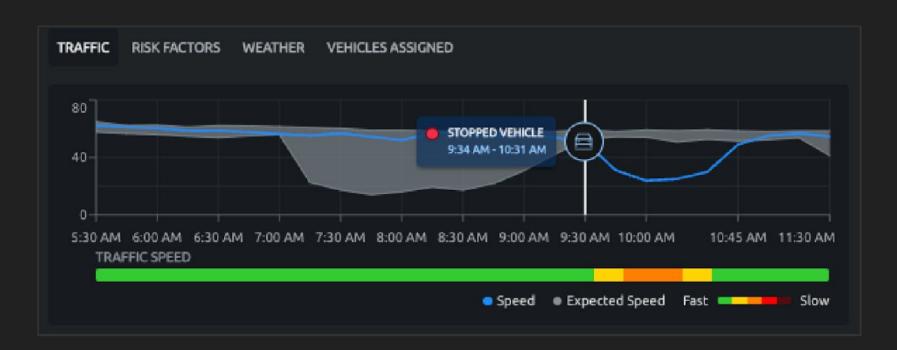


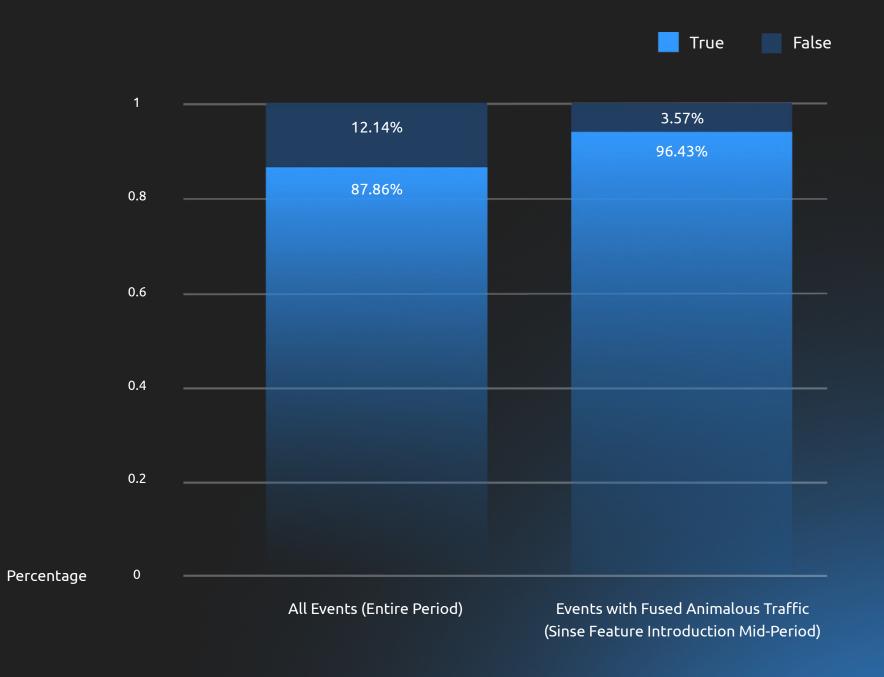


Detecting anomalies with historical traffic flow

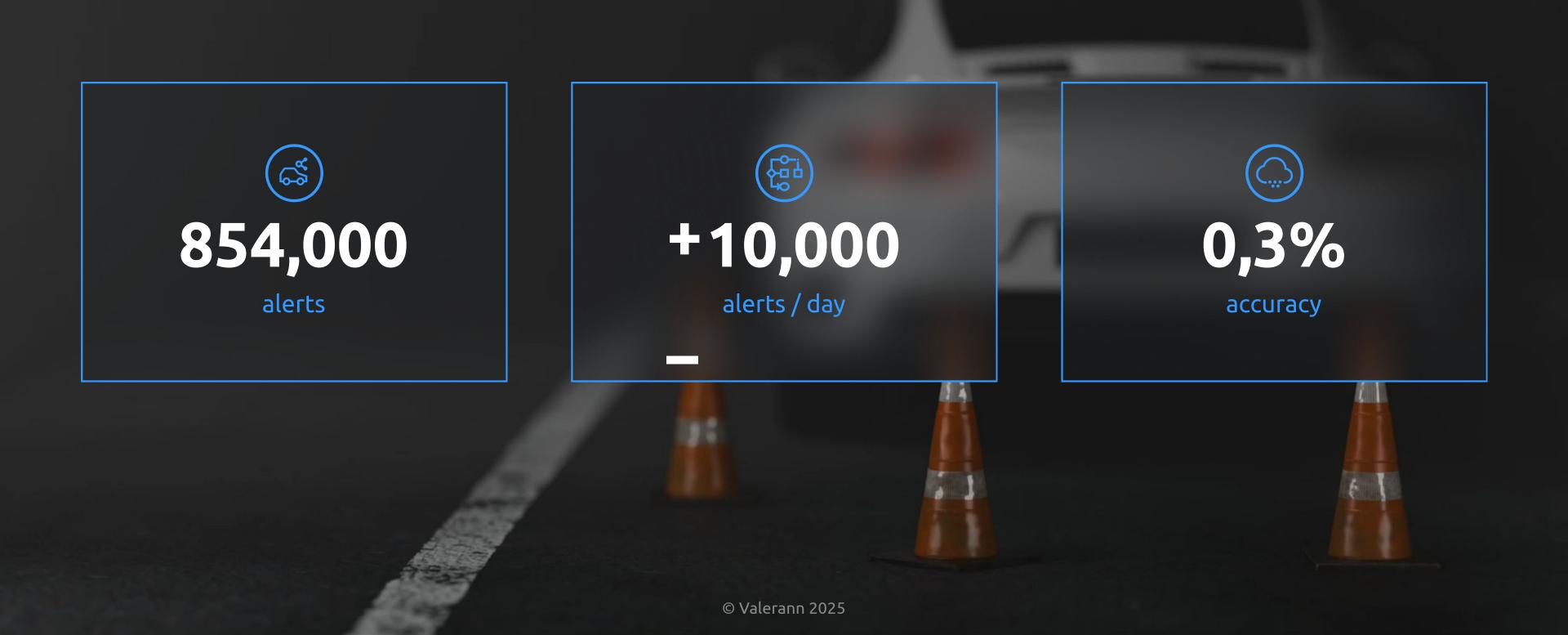


And uses it to enhance trust in incident prediction >96%





Sifting through data (a client example)



ALERT FATIGUE

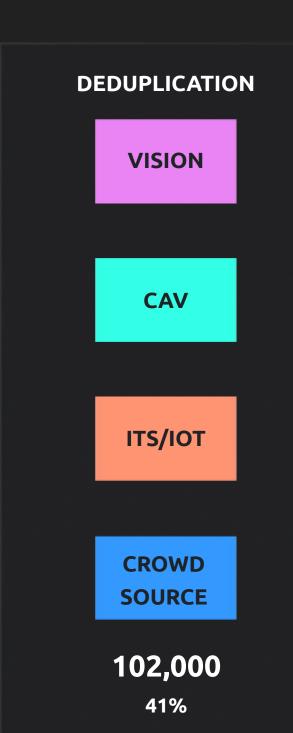
LONG RESPONSE TIME

60M DATA POINTS

12 DIFFERENT SYSTEMS

5,000 ALERTS

8**52,000**0,3%



ALERT FATIGUE

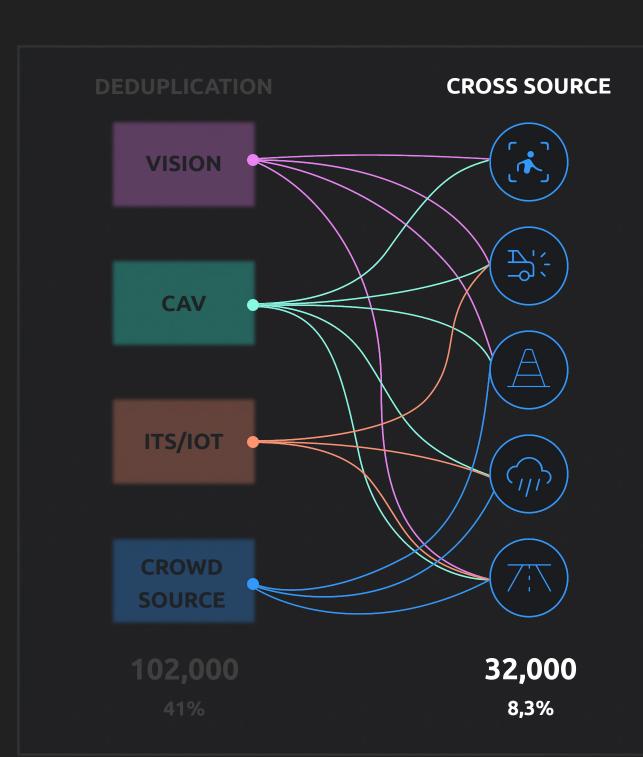
LONG RESPONSE TIME

60M DATA POINTS

12 DIFFERENT SYSTEMS

5,000 ALERTS

852,000 0,3%



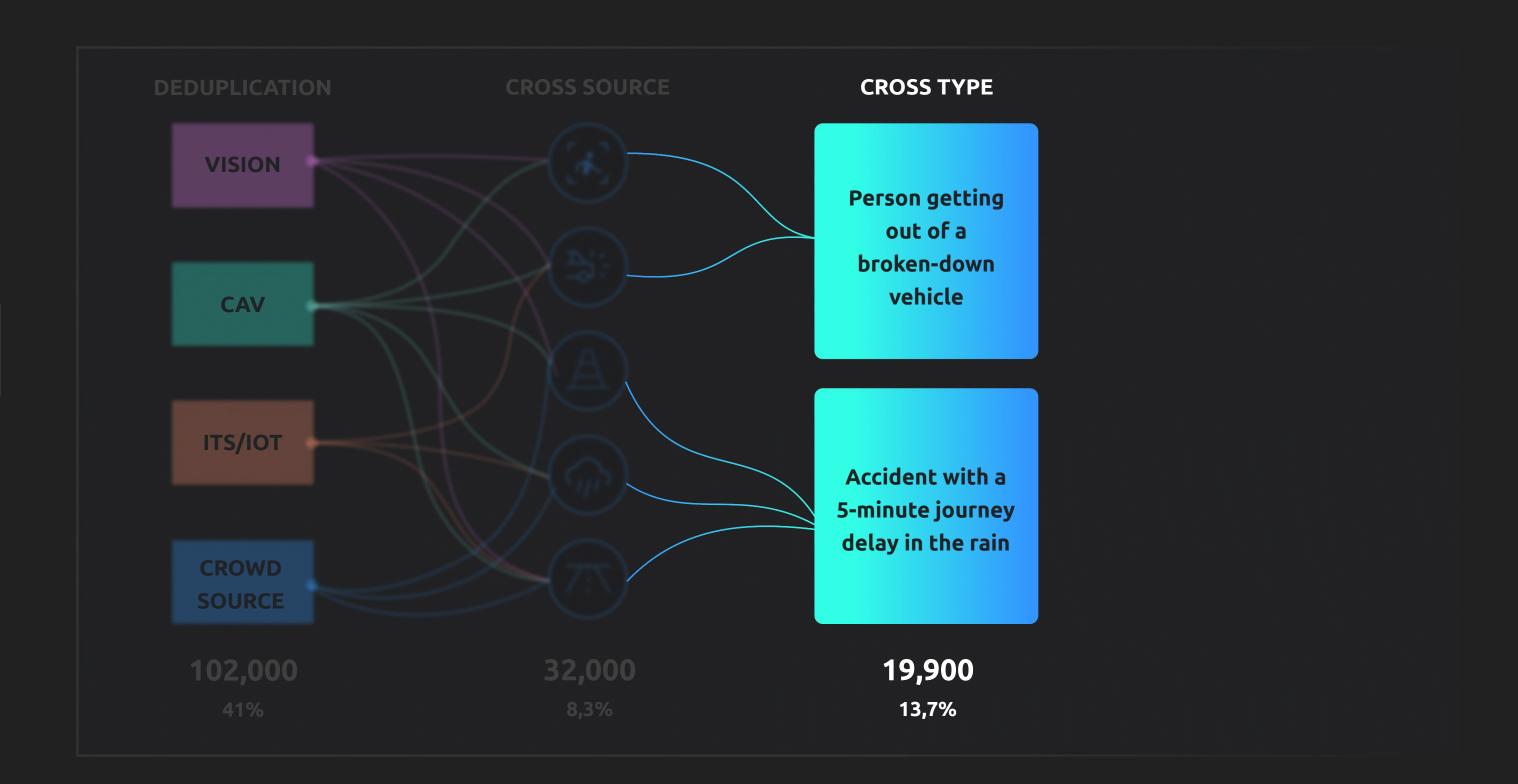


60M DATA POINTS

12 DIFFERENT SYSTEMS

5,000 ALERTS

852,000 _{0,3%}



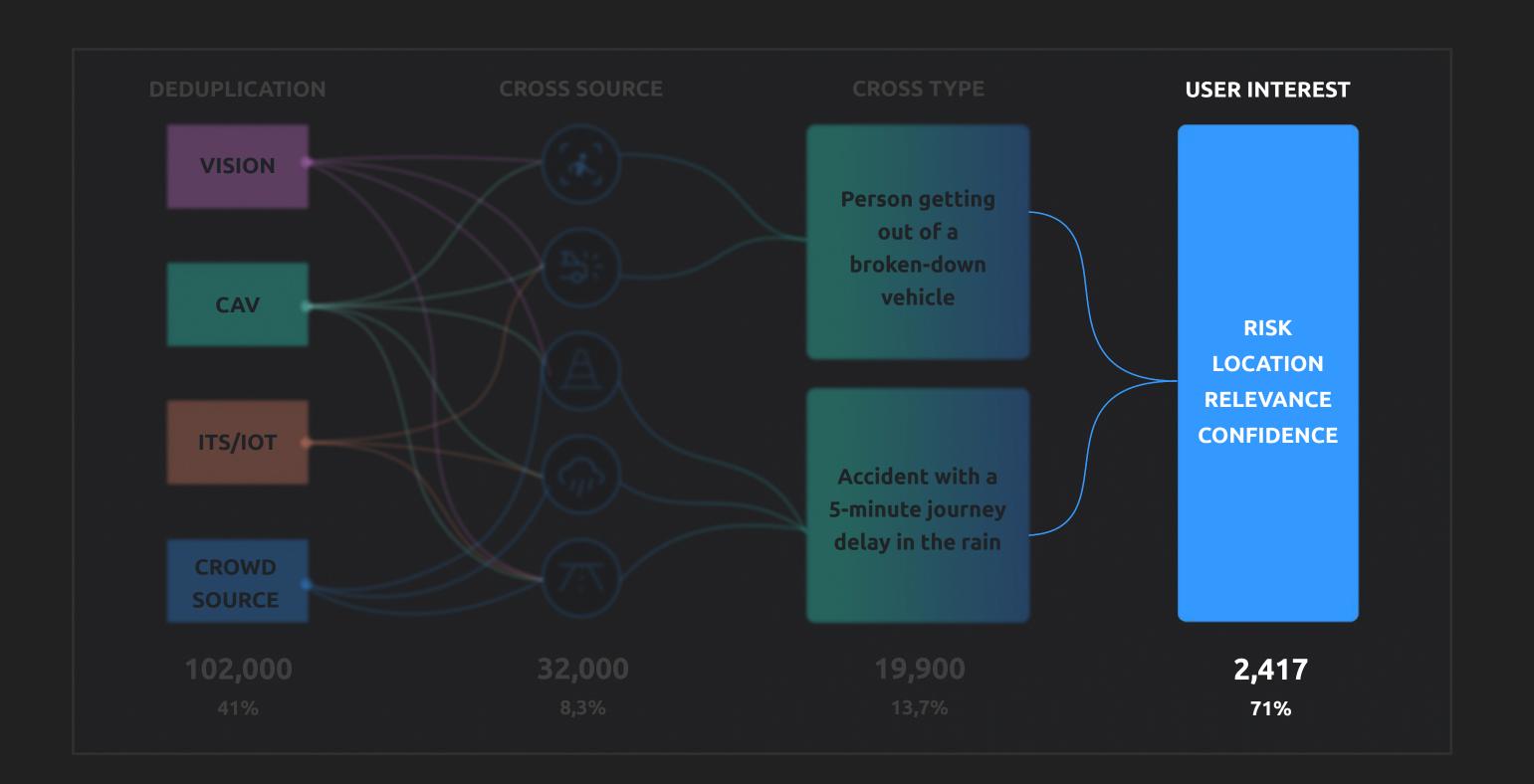


60M DATA POINTS

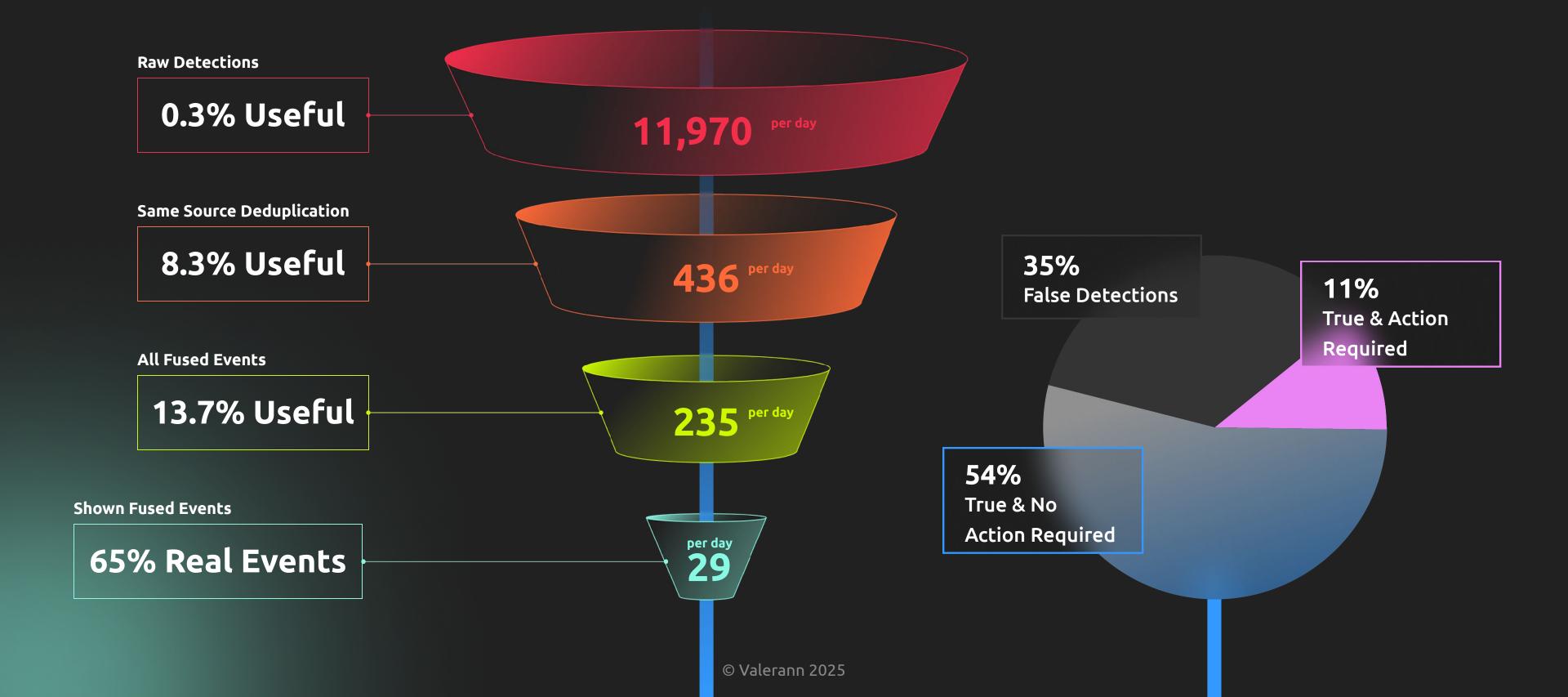
12 DIFFERENT SYSTEMS

5,000 ALERTS

852,000 _{0,3%}



Reducing data-related noise to provide actionable alerts



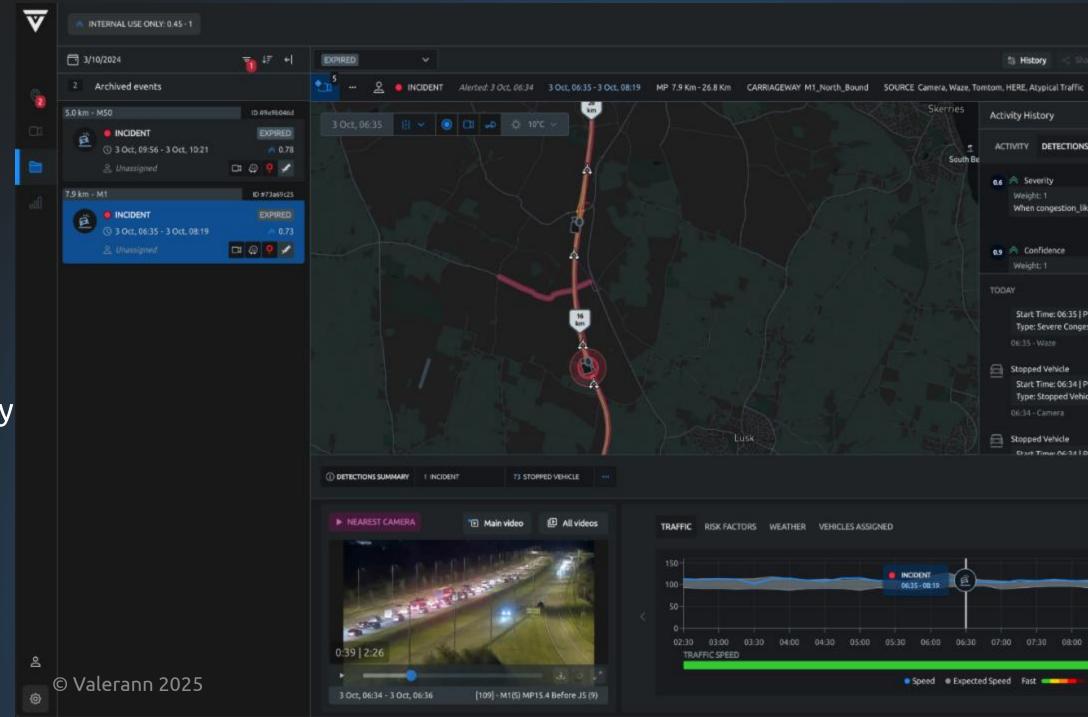
Detecting incidents through Data Fusion

Multiple vehicle collision

• <u>134 individual</u> detections alerts from <u>5</u> <u>different sources</u>

LbV analyzed and fused them into 1 event Alerted user within <u>1 minute</u> of collision occurrence

Without fusion, there would have been too many 'data-related' alerts to manage





Detecting incidents through Data Fusion

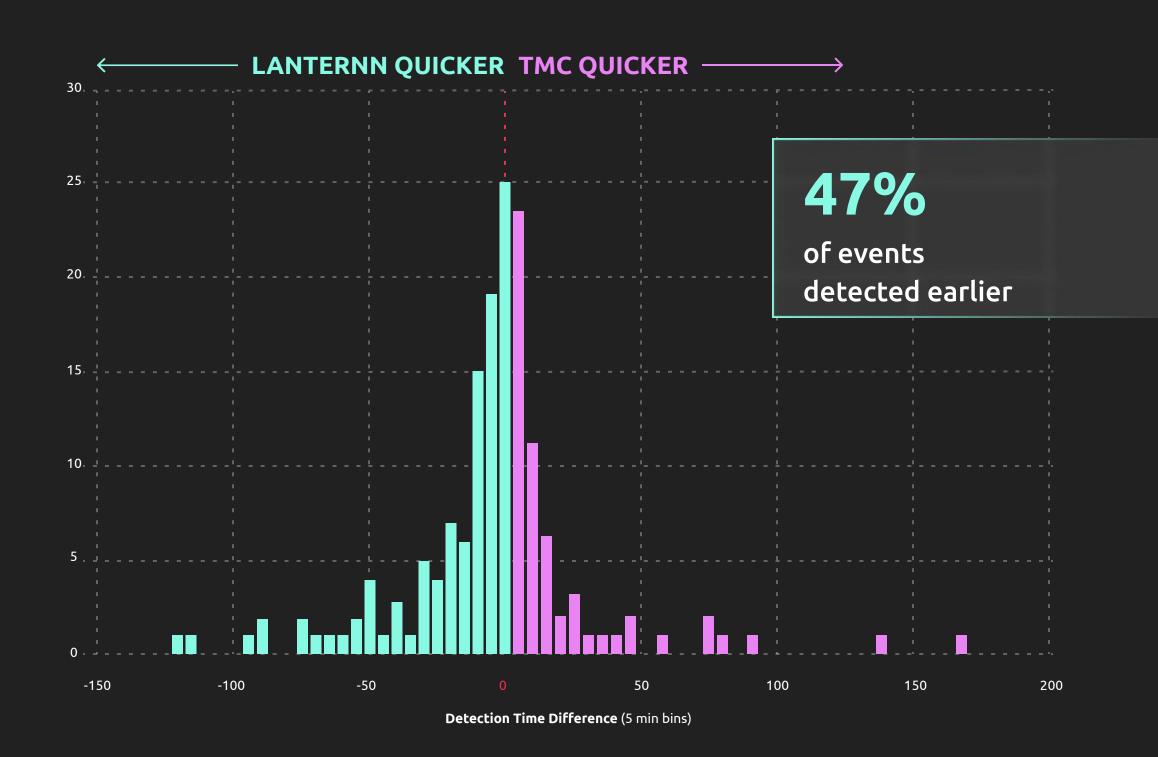
10:34	Stopped vehicle - machine vision
10:35	Pedestrian on the road - machine vision
10:38	Congestion - Waze
10:40	Severe congestion - HERE
10:45	Pedestrian on the road - Waze
10:50	Unexpected congestion - loops
10:58	Stopped vehicle - Waze
11:08	Pedestrian on the road - Machine Vision

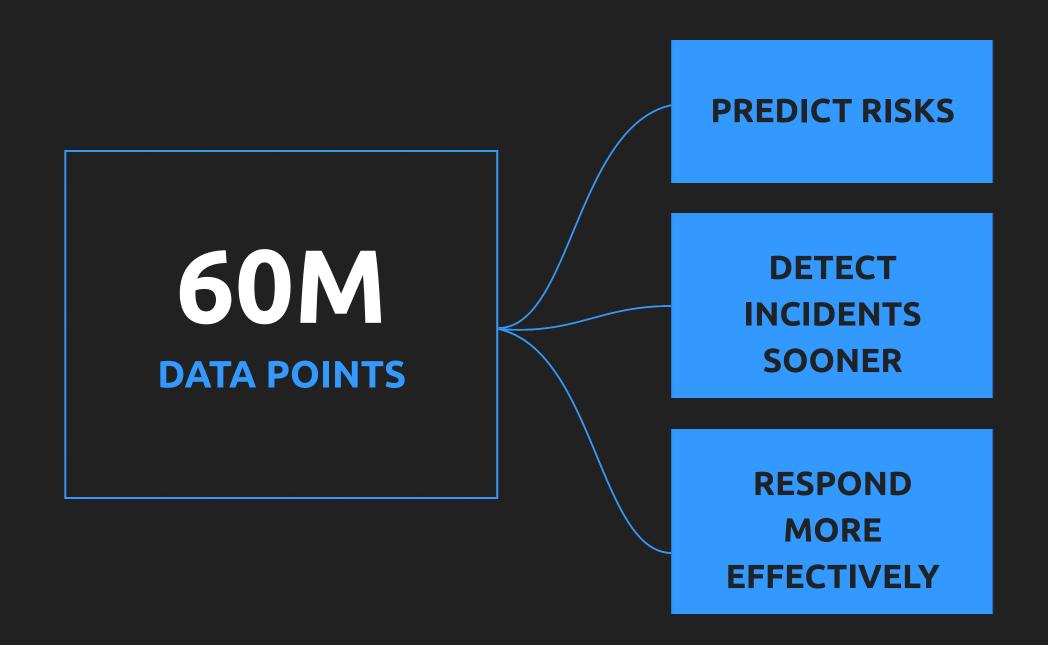


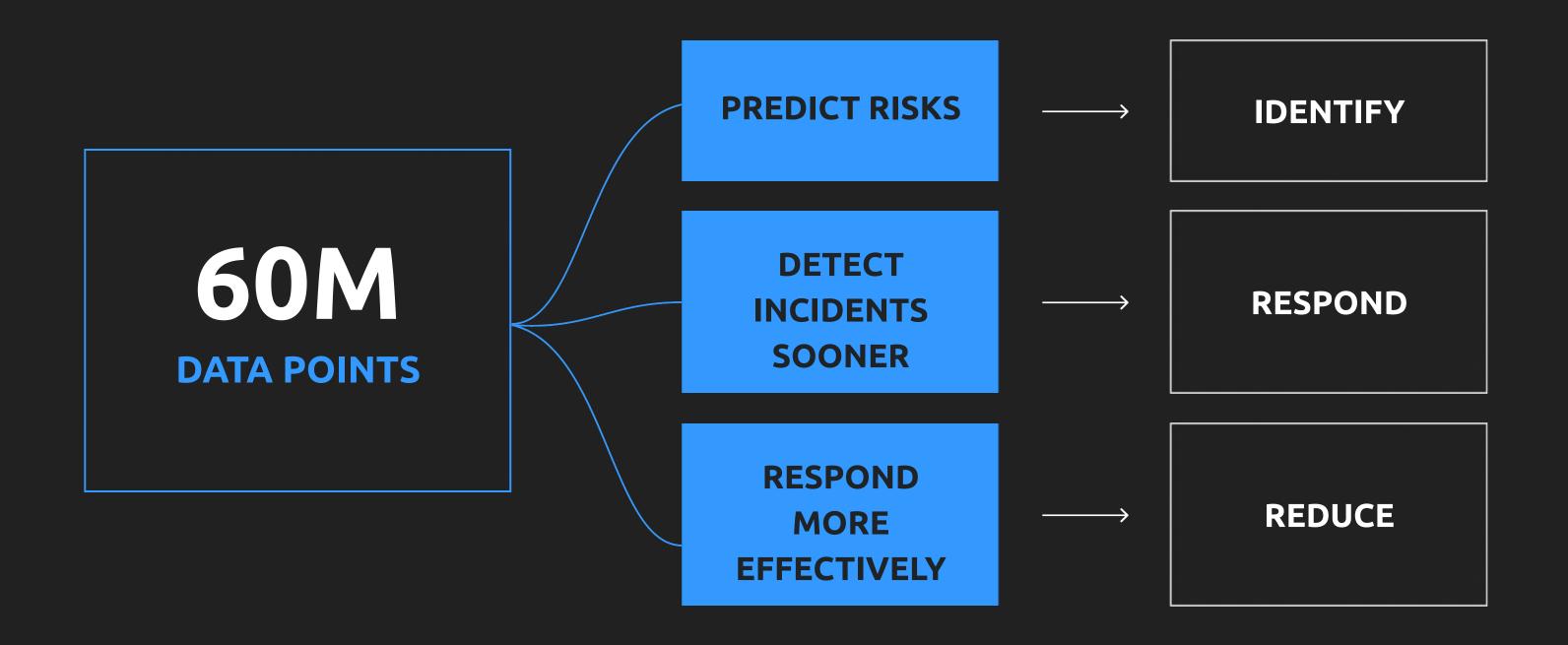
Relevant actionable information identified quicker

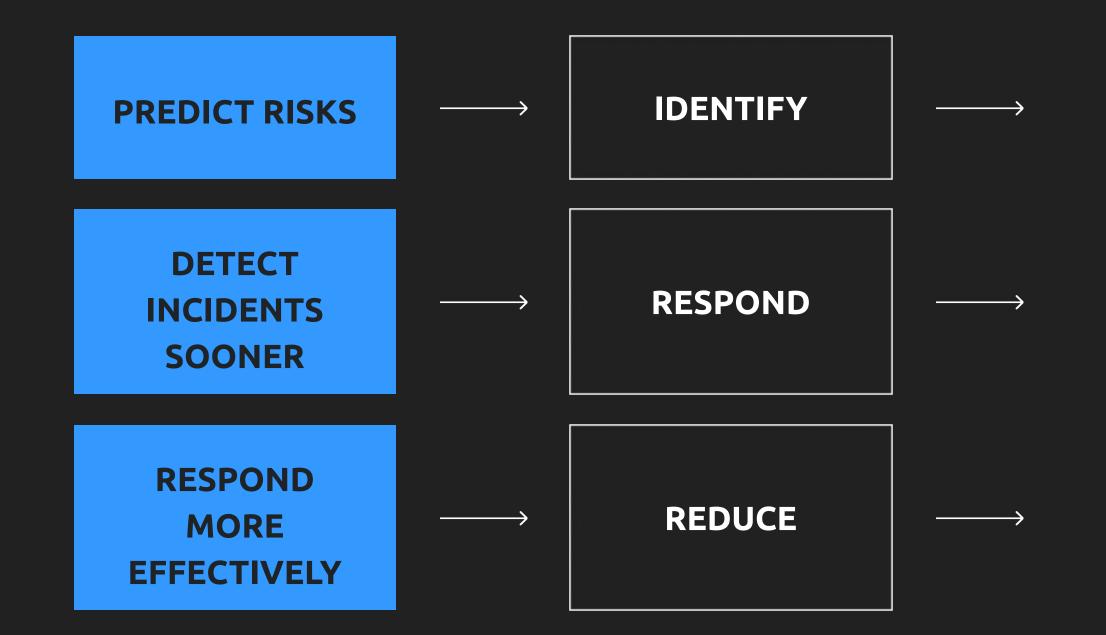
• 47% of events were found faster using data fusion (road section 1) 65% of events were found faster (road section 2)

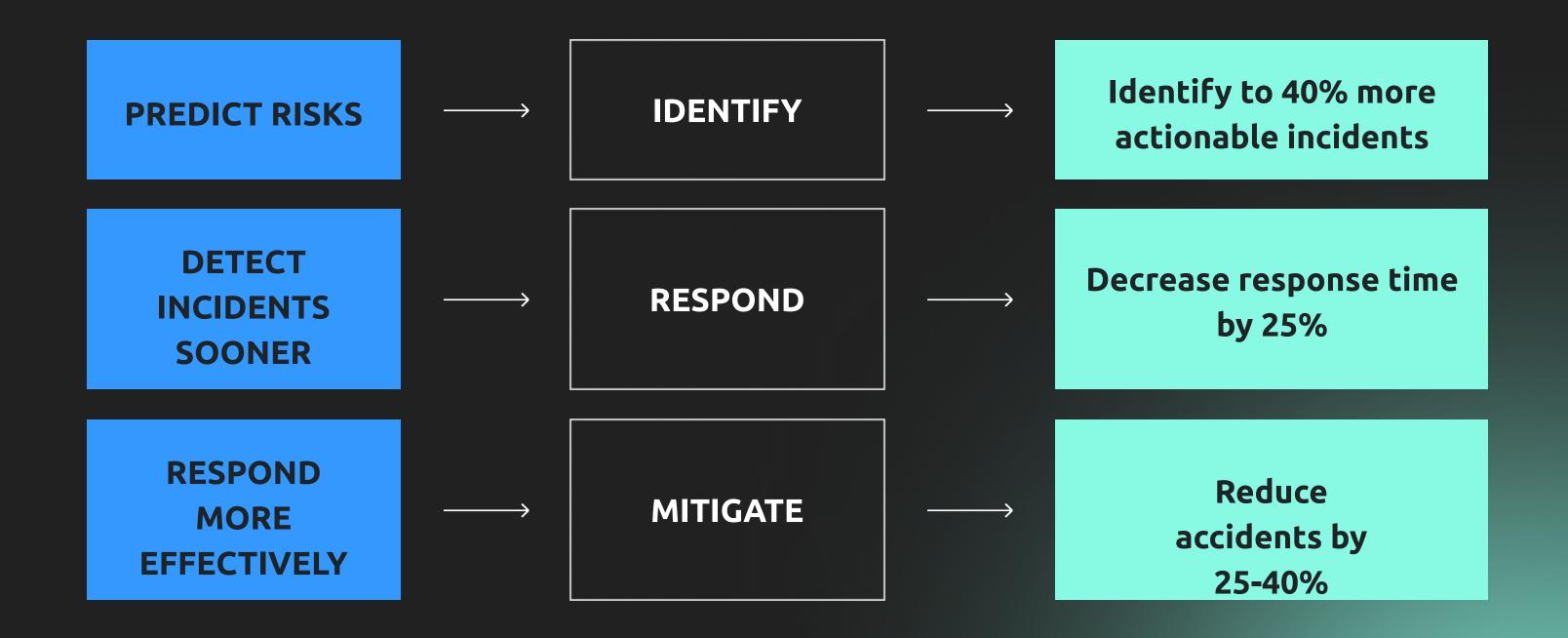
• 25 minutes improvement on average for events when detected earlier by Lanternn (road section 1)
35 minutes improvement (road section 2)













THANK

POWERED BY DATA. DRIVEN BY INSIGHT.

John Fagan

CRO

813-245-7721

john.fagan@valerann.com