



STYX AI



THE PROBLEM: ADAS FAILS WHEN IT MATTERS



- 21% of crashes occur in adverse weather
- Current ADAS relies on intensity-only processing
- LiDAR/Radar: \$5K-\$75K per vehicle
- ML models fail on edge cases they weren't trained

“When conditions get hard, current systems go blind”

ADAS Sensor Limitations: Intensity vs. Reality

WHAT CAMERAS SEE



INTENSITY ONLY

WHAT'S ACTUALLY THERE



HIDDEN INFORMATION

THE SOLUTION: ISED FRAMEWORK

“Physics-based perception from standard cameras”



NO NEW HARDWARE

Works with
existing cameras



PHYSICS NOT ML

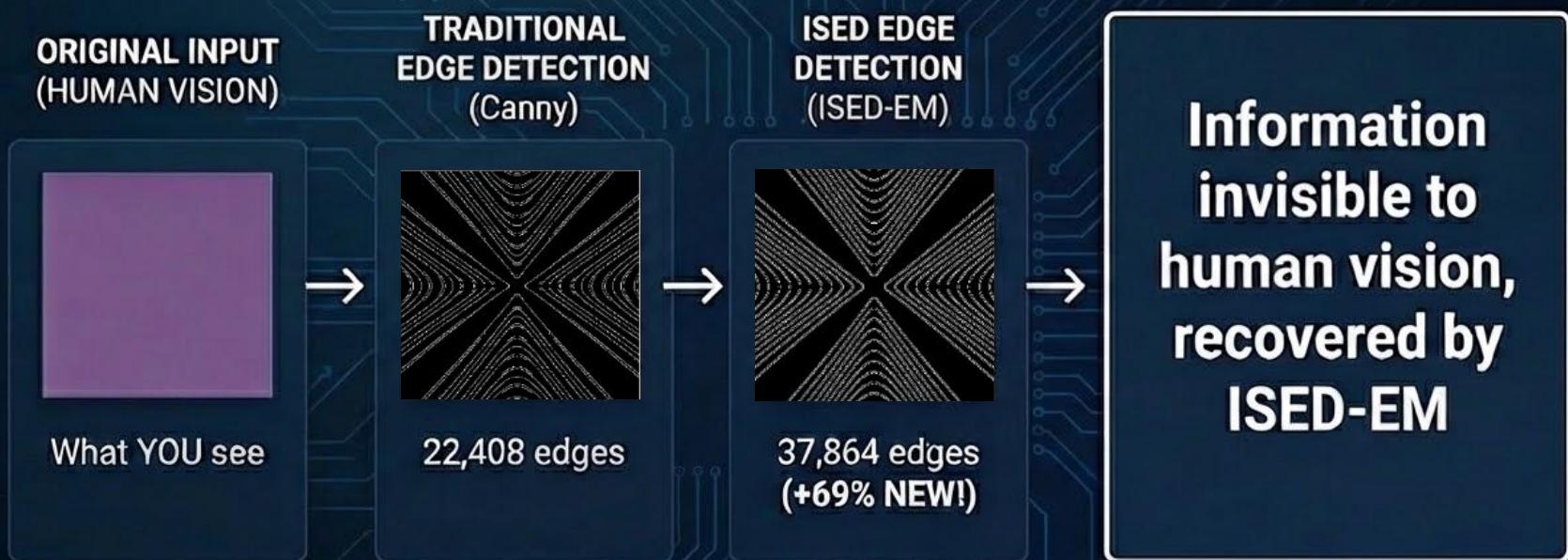
Glass-box explainable
certifiable



REAL-TIME

Embedded
deployment ready

ISED SCENE ANALYSIS: EDGE DETECTION BREAKTHROUGH

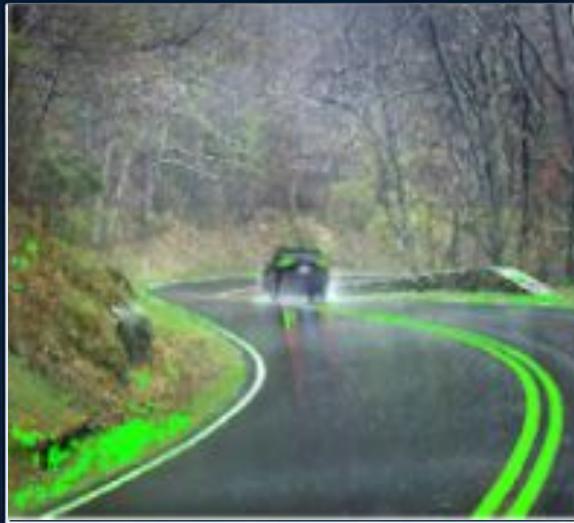


ADAS FEATURES & ANALYSIS

INPUT IMAGE



LANE DETECTION



ADAS OVERLAY
(R=Wet, G=Lane, B=Fog)



ADAS ANALYSIS SUMMARY

- Road: WET (100% wet)
- Hydroplane risk: MODERATE
- Visibility: MODERATE FOG

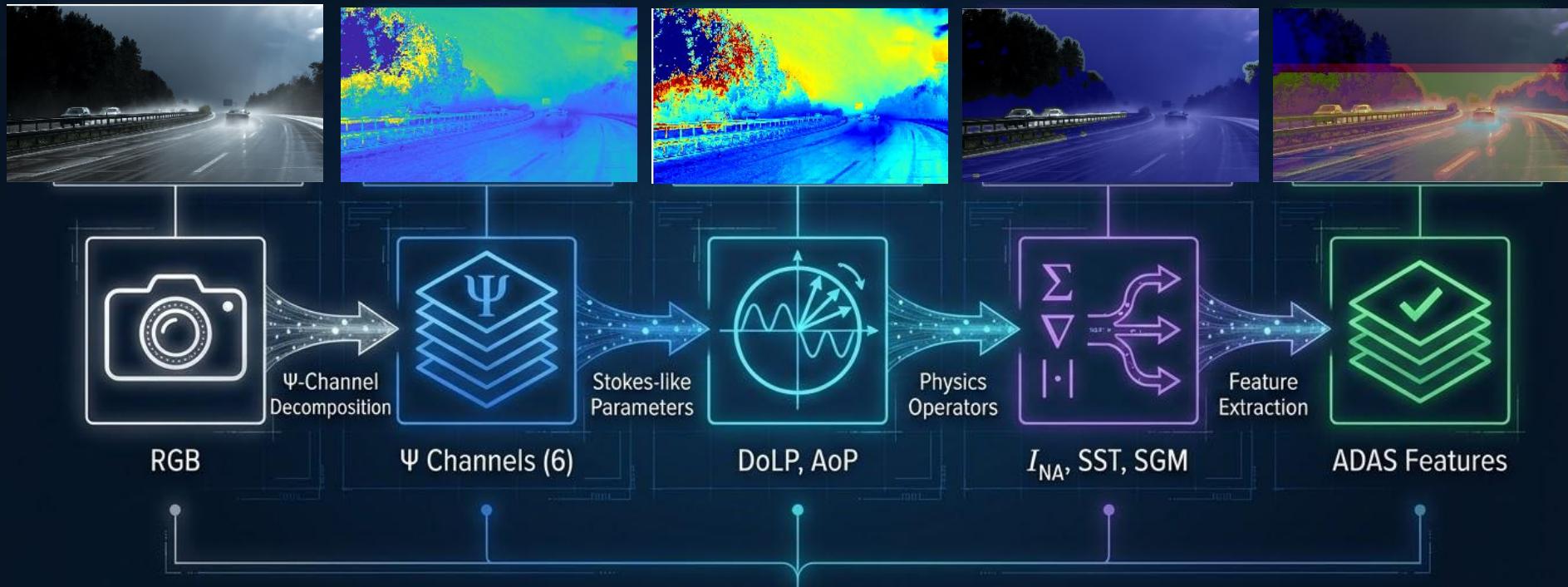


- Glare: MIE (Dehaze)
- Lane pixels: 24183

RECOMMENDATIONS:

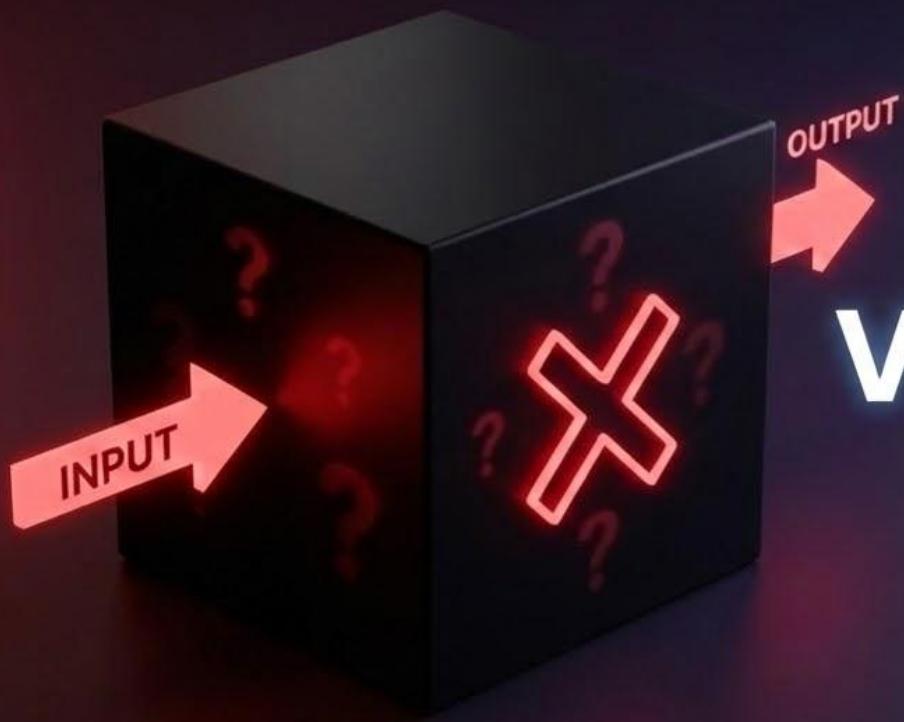
- Safe speed: <60 km/h
- Headlights: LOW BEAM

HOW ISED EXTRACTS HIDDEN INFORMATION



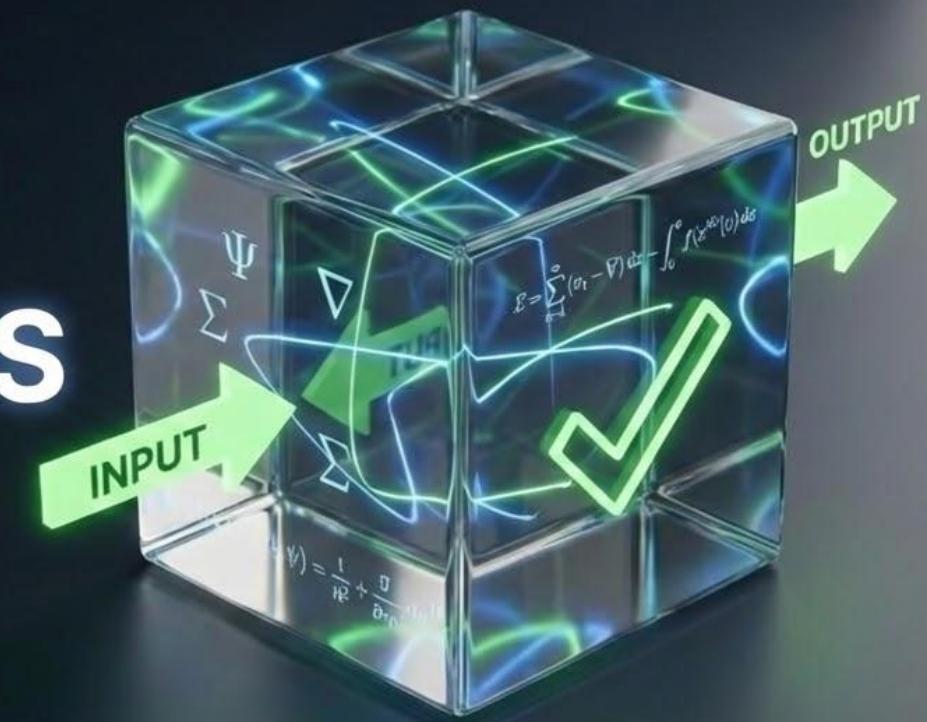
GLASS-BOX ARCHITECTURE
“Every intermediate is physically interpretable and auditable”

BLACK BOX (what we're NOT)



Traditional AI - Unexplainable

GLASS BOX (what ISED is)



ISED - Every Step Auditable

VALIDATED PERFORMANCE METRICS

EDGE DETECTION

-  Grayscale: **22,408**
-  ISED: **37,864**
-  Improvement: **+69%**

PHYSICS VALIDATION

-  Frame Bound B_0 : **99.8%**
-  I_{NA} Theory: **96.4%**
-  Test Suite: **94.6%**

ADAS PERFORMANCE

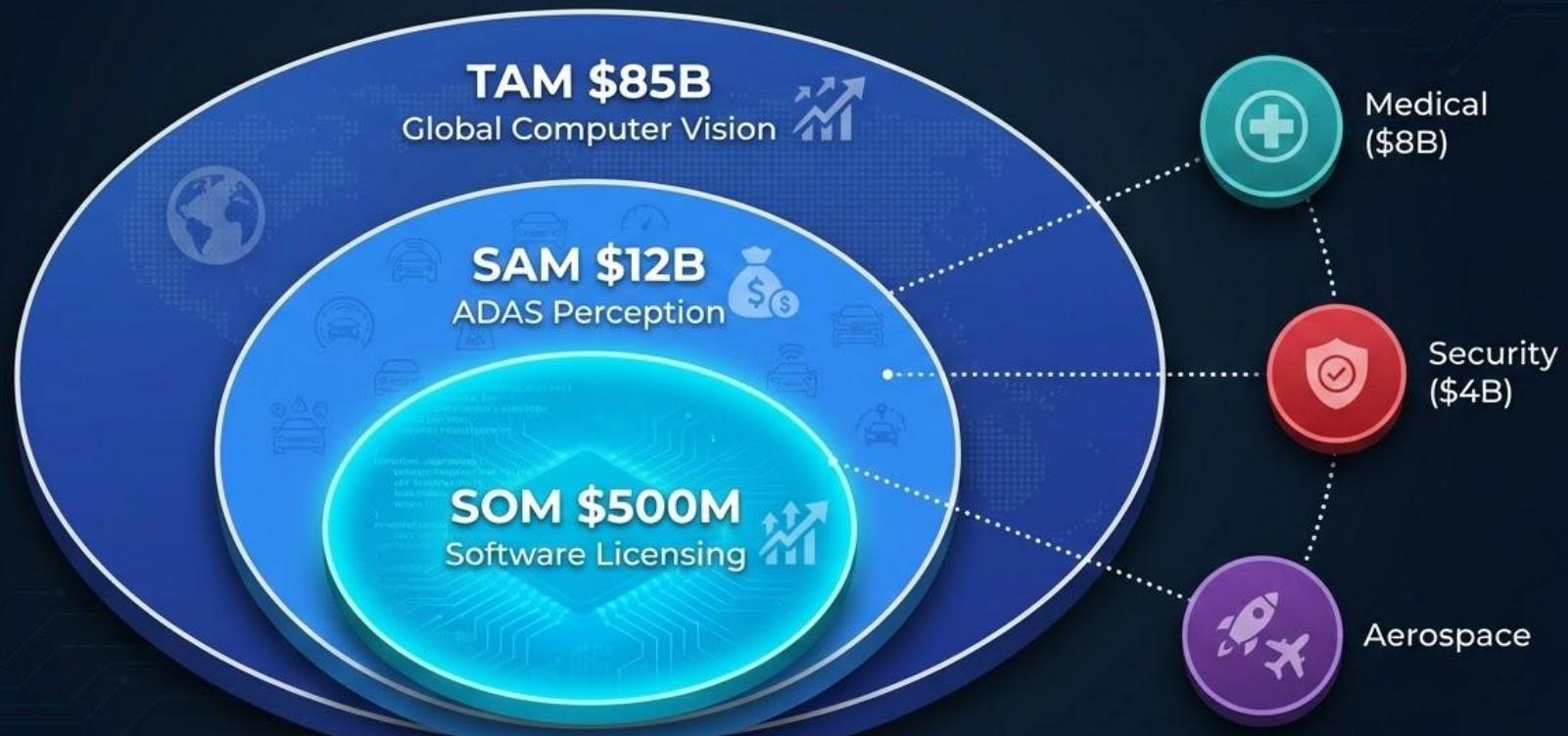
-  Wet Detection: **100%**
-  Lane Pixels: **24,183**
-  DoLP Gain: **+21.7%**

SCATTERING PHYSICS

-  Mie (fog): $I_{NA} \rightarrow 0$ ✓
-  Fresnel: $I_{NA} > 0$ ✓
-  Rayleigh: $I_{NA} \gg 0$ ✓

Not simulations. Real sensor data. Reproducible results.

MARKET OPPORTUNITY



BUSINESS MODEL

B2B Technology Licensing



COMPETITIVE MOAT: 4 WALLS



PATENTS

95 pages, 12+ embodiments



TIME

20-year runway



STYX AI

+69% | 100%



PHYSICS

Glass-box, certifiable



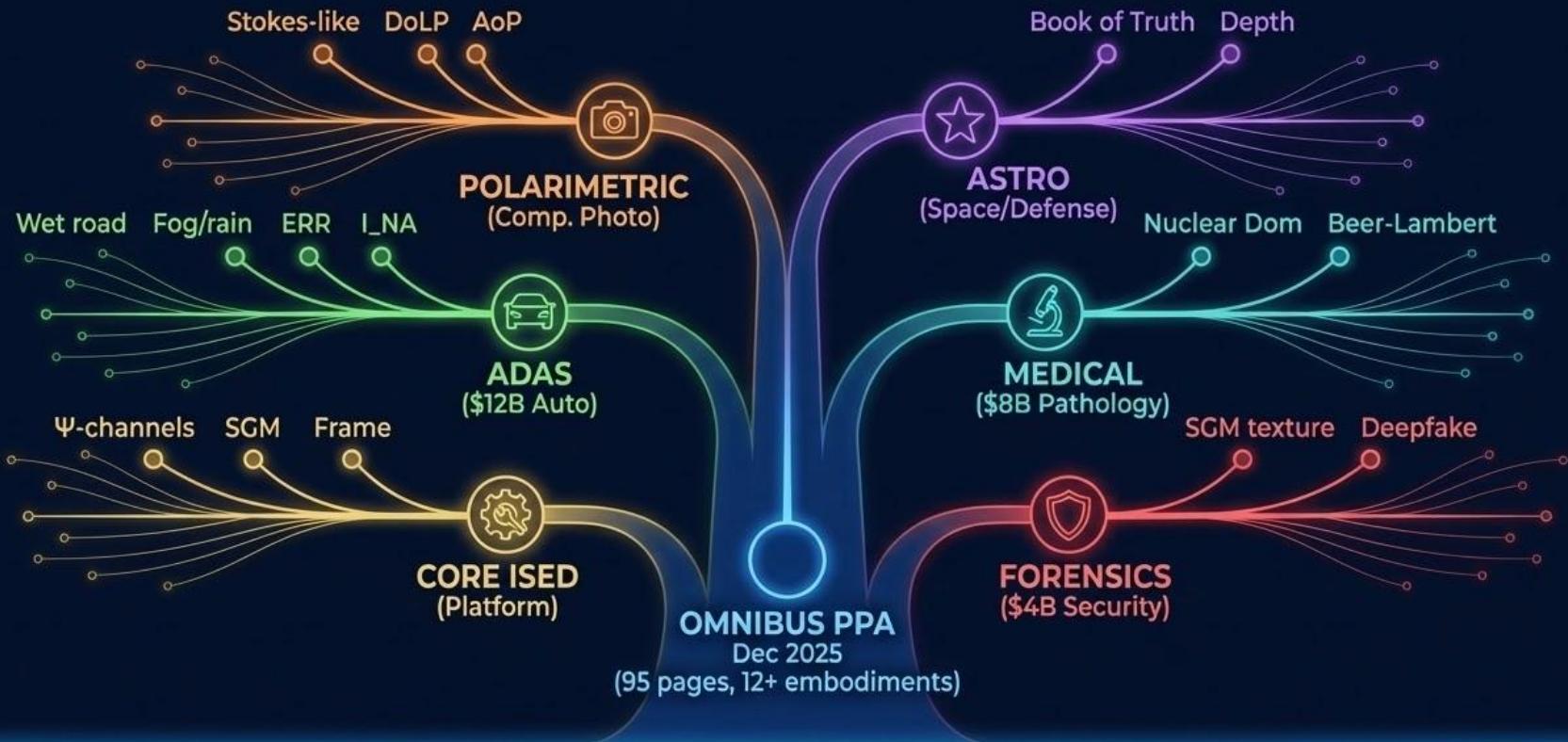
DATA

Real-world validated



“Competitors must invent different physics. Good luck.”

INTELLECTUAL PROPERTY: PATENT PORTFOLIO & DIVISIONAL STRATEGY



2025

2035

2045

20-YEAR PROTECTION RUNWAY

ROADMAP



FINANCIAL PROJECTIONS



ASSUMPTIONS

[Licensing deal progression details: Tiered pricing structure, increasing adoption rates, royalty ramp-up from Y3, platform expansion in Y4-Y5.]



Technology
Licenses



Royalties

\$1.5 - \$2.0M SEED ROUND

18-month runway

USE OF FUNDS



MILESTONES: SDK ready | 2+ pilots | Series A positioned



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