



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

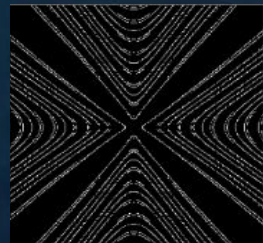
ISED SCENE ANALYSIS: EDGE DETECTION BREAKTHROUGH

**ORIGINAL INPUT
(HUMAN VISION)**



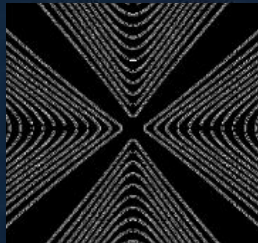
What YOU see

**TRADITIONAL
EDGE DETECTION
(Canny)**



22,408 edges

**ISED EDGE
DETECTION
(ISED-EM)**



37,864 edges
(+69% NEW!)

**Information
invisible to
human vision,
recovered by
ISED-EM**

ADAS FEATURES & ANALYSIS

INPUT IMAGE



LANE DETECTION



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



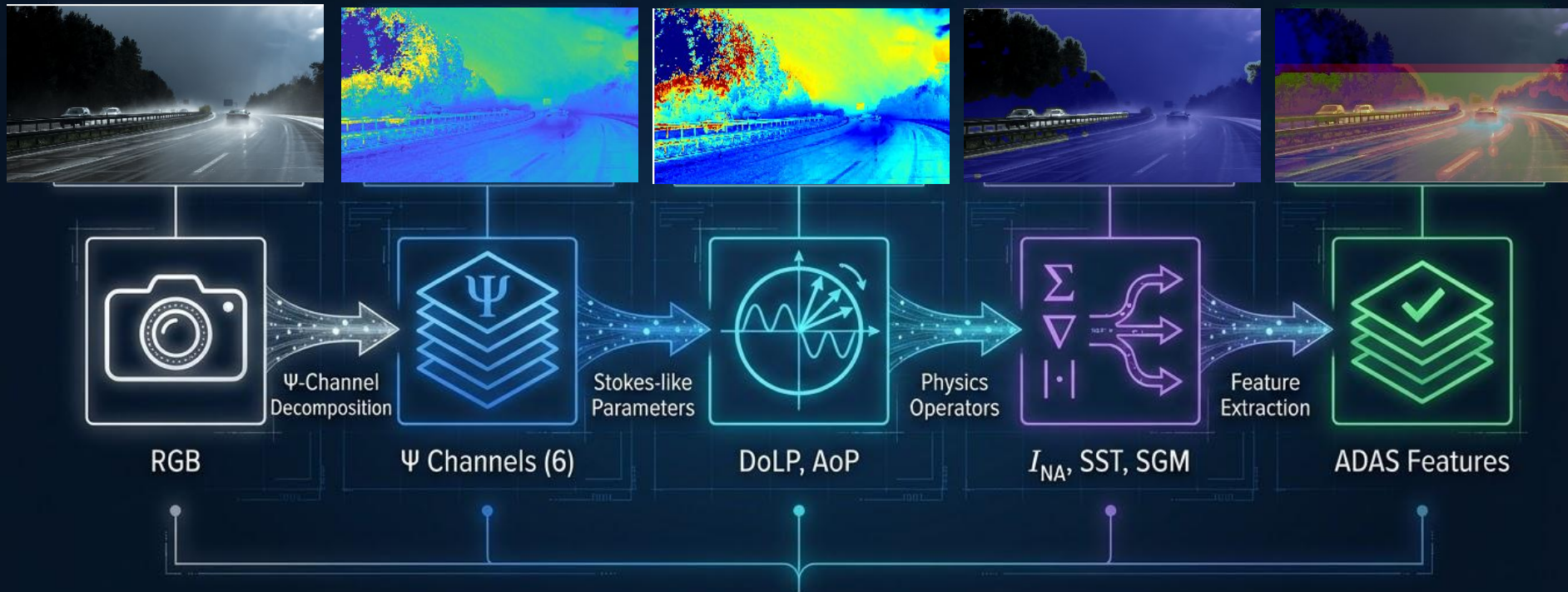
ADAS ANALYSIS SUMMARY

- 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

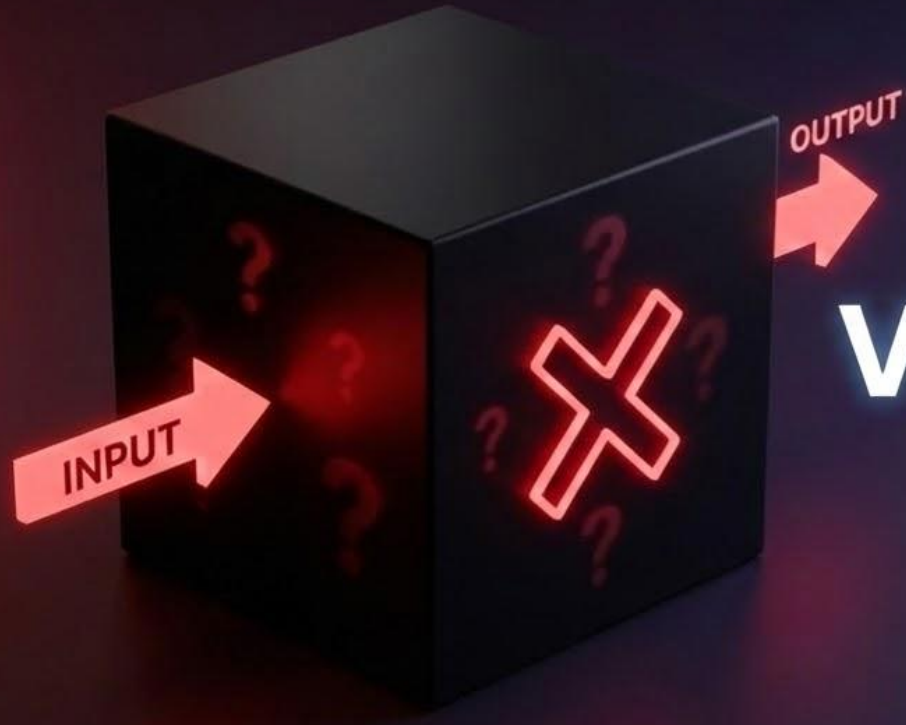
HOW ISED EXTRACTS HIDDEN INFORMATION



GLASS-BOX ARCHITECTURE

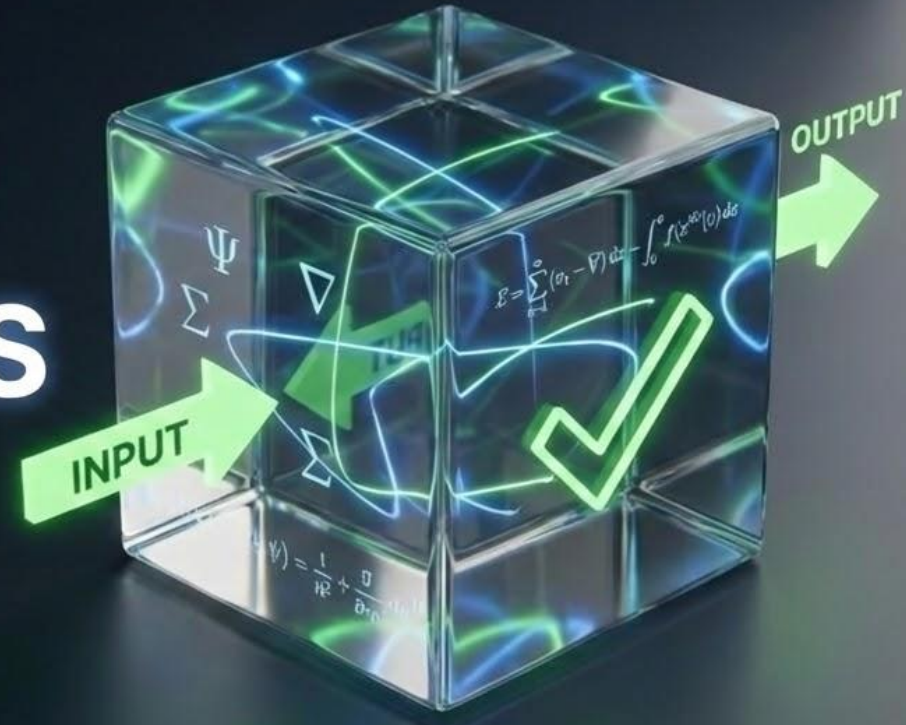
“Every intermediate is physically interpretable and auditable”

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

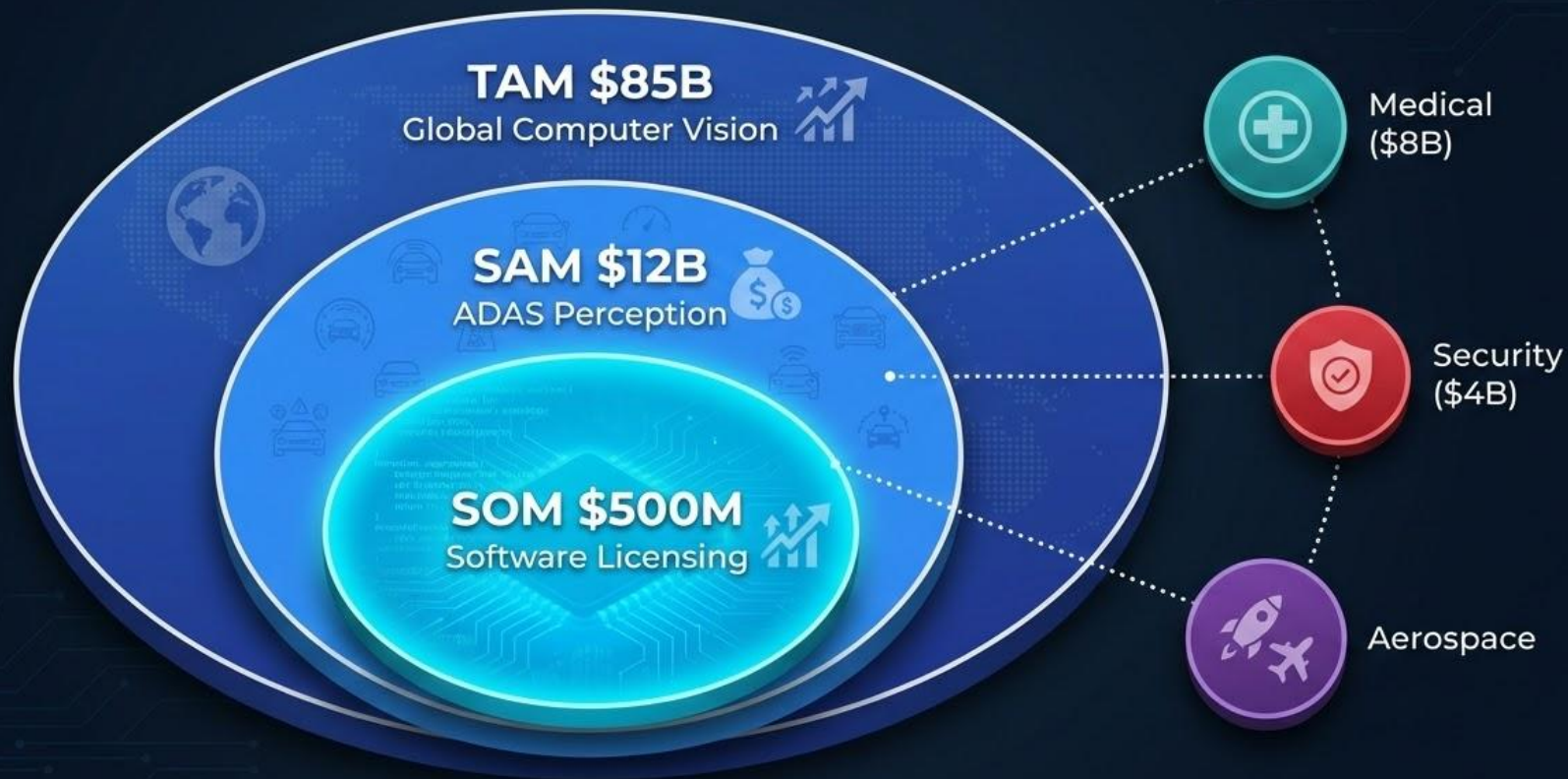
 Wet Detection: **100%**
 Lane Pixels: **24,183**
 DoLP Gain: **+21.7%**

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



"Competitors must invent different physics. Good luck."

INTELLECTUAL PROPERTY: PATENT PORTFOLIO & DIVISIONAL STRATEGY



ROADMAP

YOU ARE HERE
CURRENT

2025 Q4  COMPLETED

2026 H1

2026 H2

2027+



FOUNDATION

- ✓ PPA Filed
- ✓ ISED v2.0
- ✓ 28 files
- ✓ Validation

SEED

- Seed Round
- C/C++ port
- Embedded demo

SCALE

- Pilot with Tier-1
- Production SDK
- ISO 26262 prep

GROWTH

- Series A
- Multi-vertical
- International patents

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



Production
SDK



2+ Pilot
Agreements



Series A
Ready

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