

# Envelope.

Right before the edge.

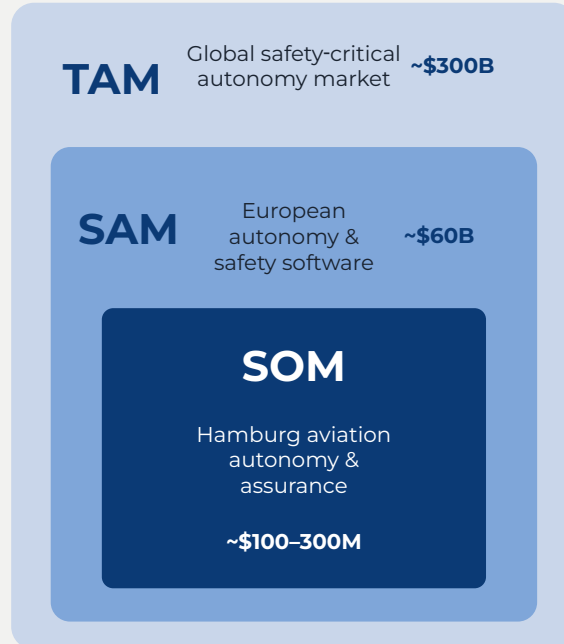
**Derin Bilgin**

# Market.

Autonomous systems are entering the real world, but safety is still handled with static tools in a dynamic environment.

## How the market solves?

- **Design-time safety analysis** proves safety on paper but can't adapt after deployment.
- **Offline testing and simulation** cover known cases but miss real-world uncertainty.
- **Conservative operating limits** reduce risk by reducing autonomy.
- **Blunt runtime safeguards** rely on shutdown instead of control.



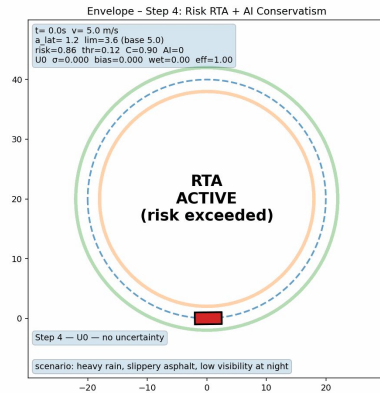
## Why are these failing?

- **Static safety assumptions** fail as conditions change.
- **Long-tail failures** remain unavoidable.
- **All-or-nothing intervention** leaves no middle ground.
- **Fragmented tooling offers** no real-time safety answer.

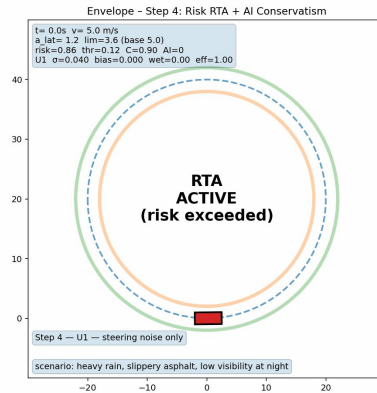
# Solution: Uncertainty Ladder.

Autonomous systems ✕ Safety assurance ✕ AI decision support

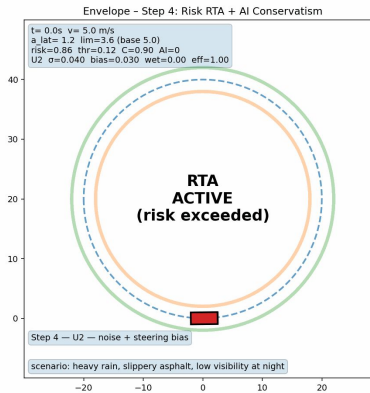
We've created an **Uncertainty Ladder** to animate our models for different uncertainty stages.



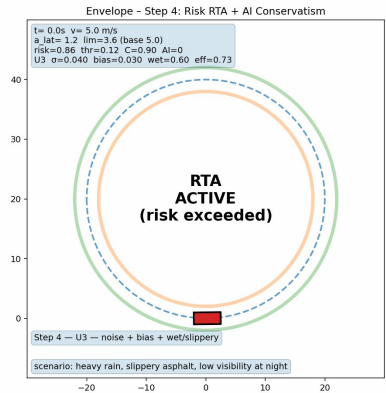
No uncertainty



Steering noise



Noise + Steering  
bias



Noise + Bias +  
Wet/Slippery

# Business Model.

We operate a **B2B SaaS model** combining *annual licenses* with *usage-based pricing* to drive high-margin, recurring revenue and built-in expansion.

**Base fees:** \$3K – \$10K

**Mid market:** \$10K - \$30K ARR

**Enterprise:** \$50K – \$150K+ ARR

Annual platform license plus usage-based pricing at **\$0.01–\$0.05 per unit**, driving expansion as usage grows

**75–90%** gross margins, with **~\$3K – \$5K** annual variable cost on a **\$20K ARR** customer, driven primarily by compute and data infrastructure; marginal cost per additional usage unit is low, enabling profitable expansion as customers scale usage.

# GTM Plan.

Our target teams already doing this problem in a hacky or expensive way (custom scripts, spreadsheets, legacy tools, or in-house systems). These users already feel the pain daily and don't need education, **only a better tool**.

## First 10 customers

The first 10 customers come from direct, personalized outreach by the founders to:

- People maintaining internal tools
- Teams posting jobs related to this problem
- Engineers / analysts complaining publicly (GitHub issues, Slack communities, forums)

Each message references their current setup and offers a fast, concrete win (e.g. "replace X script," "cut latency by Y," "remove manual step Z").

## Advantage

- **Cost leverage:** Replaces overbuilt or custom systems with a lower-cost entry that scales with proven value.
- **Speed & simplicity:** Removes maintenance and manual work, enabling teams to go live in days.
- **Measurable impact:** Delivers immediate, quantifiable gains that make switching easy to justify.

# Why Envelope? Why now?

Teams still rely on fragile, custom-built systems for real-time analysis, but Envelope is here to change this by replacing internal hacks with a **scalable, off-the-shelf solution**.

## Why us?

We've built and operated the core of the real-time systems, giving us first-hand experience with the tradeoffs and failure modes that existing approaches don't handle well.

## What we learned?

Rapid prototyping helped us narrow the problem, remove unnecessary complexity, and show how much can be achieved quickly when AI works alongside us.

Improve **model accuracy** and performance while running **10-15 customer interviews**.

Onboard **3-5 design partners** and ship a production-ready **v1**.

Convert design partners into **paying customers** and harden infrastructure.

Raise a **seed round** and transition to full-time development and growth.



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