

Democratizing Elite Math Tutoring

An AI-powered, syllabus-aligned tutor for the International Baccalaureate.

TomTor AI

Help me solve this integral: $\int x^2 e^x dx$

Let's use integration by parts, it consider a:a fundamental, the formula for integration by parts is:

$$\int u dv = uv - \int v du$$

We'll choose $u = x^2$ and $dv = e^x dx$. Then, $du = 2x dx$ and $v = e^x$. Applying the formula:

$$\begin{aligned} \int x^2 e^x dx &= x^2 e^x - \int 2x e^x dx \\ &= x^2 e^x - 2 \int x e^x dx \end{aligned}$$

Continuing with integration by parts for $\int x e^x dx$, we get $(x-1)e^x$. The final answer is:

$$\int x^2 e^x dx = e^x(x^2 - 2x + 2) + C$$



Tomi (Yihe) Tian
Founder & CEO

Built by a Tutor. Engineered by a
Mathematician. Lived by an
Immigrant.

The Student	The Tutor	The Builder
Applied Mathematics Student at TU/e (Eindhoven). Navigating the rigorous IB curriculum as a second-generation immigrant provided the spark.	Experienced IB Math Tutor. Witnessed firsthand that classroom time is insufficient for IB rigor, while private tuition remains a luxury good.	Budapest-born, bridging cultures. Motivated to use AI to level the playing field for non-native speakers and diverse backgrounds.

“The best tutoring shouldn’t depend on who you can afford to hire.”

The Mathematics of Exclusion

IB Math is uniquely difficult, human help is scarce, and generic AI is failing students.



The Rigor Gap

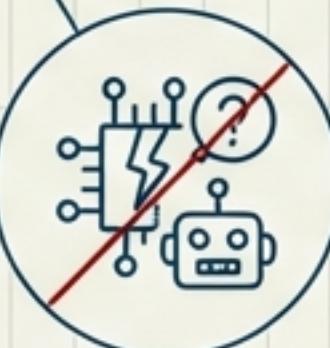
IB Math (AA & AI) requires deep conceptual mastery. Classroom hours are insufficient.

The International Student is Left Behind.



The Cost Barrier

Quality tutors in hubs like Budapest charge €30–€80/hour. Excluding most immigrant families.



The Tech Failure

ChatGPT hallucinates. Photomath gives answers without pedagogy. Khan Academy lacks IB alignment.

The Patience of a Machine. The Rigor of a Human.



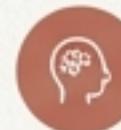
1. Syllabus-Aligned

Architecture: Built strictly on IB Math AA & AI structure.



2. Socratic Guidance:

Simulates a real tutor's questioning method.



3. Intelligent Practice:

Unlimited problem generation at 3 difficulty levels.

← Conversational AI Tutor

Student
I don't understand why we use the chain rule here.

AI Tutor
Think of the function as composite layers. If $y = f(g(x))$, how do we differentiate the outer layer first? What is $f'(g(x))$?
 $y = f(g(x))$, how do $f'(g(x))$.

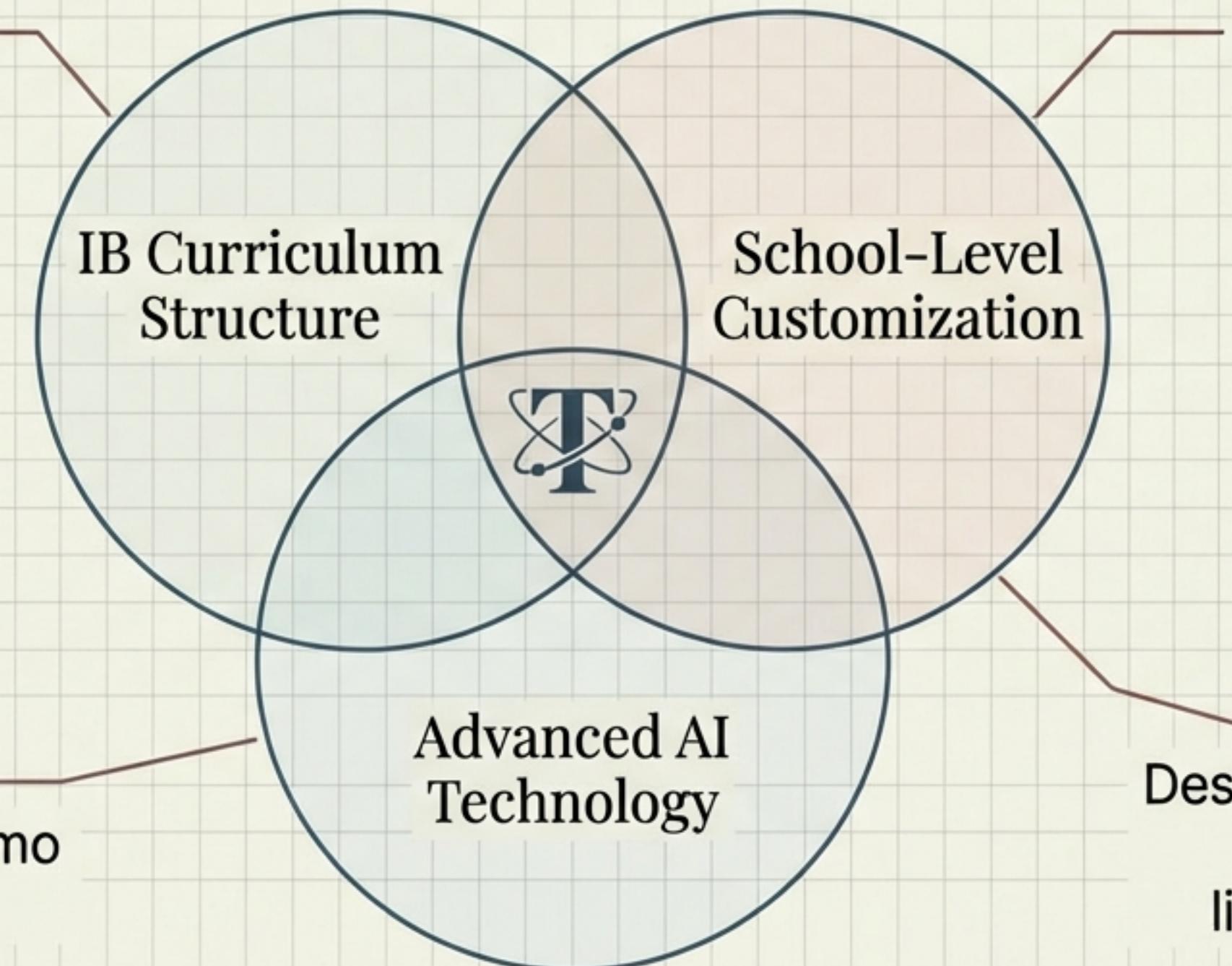
Math-Native Rendering: Full LaTeX/KaTeX integration.
No broken text.

Socratic AI: Powered by GPT-4o-mini, it guides logic rather than dumping answers.

Type a message...

Our Competitive Moat: Deep Specialization

IB-First Design: Unlike generic solvers, our architecture is built on the syllabus units.

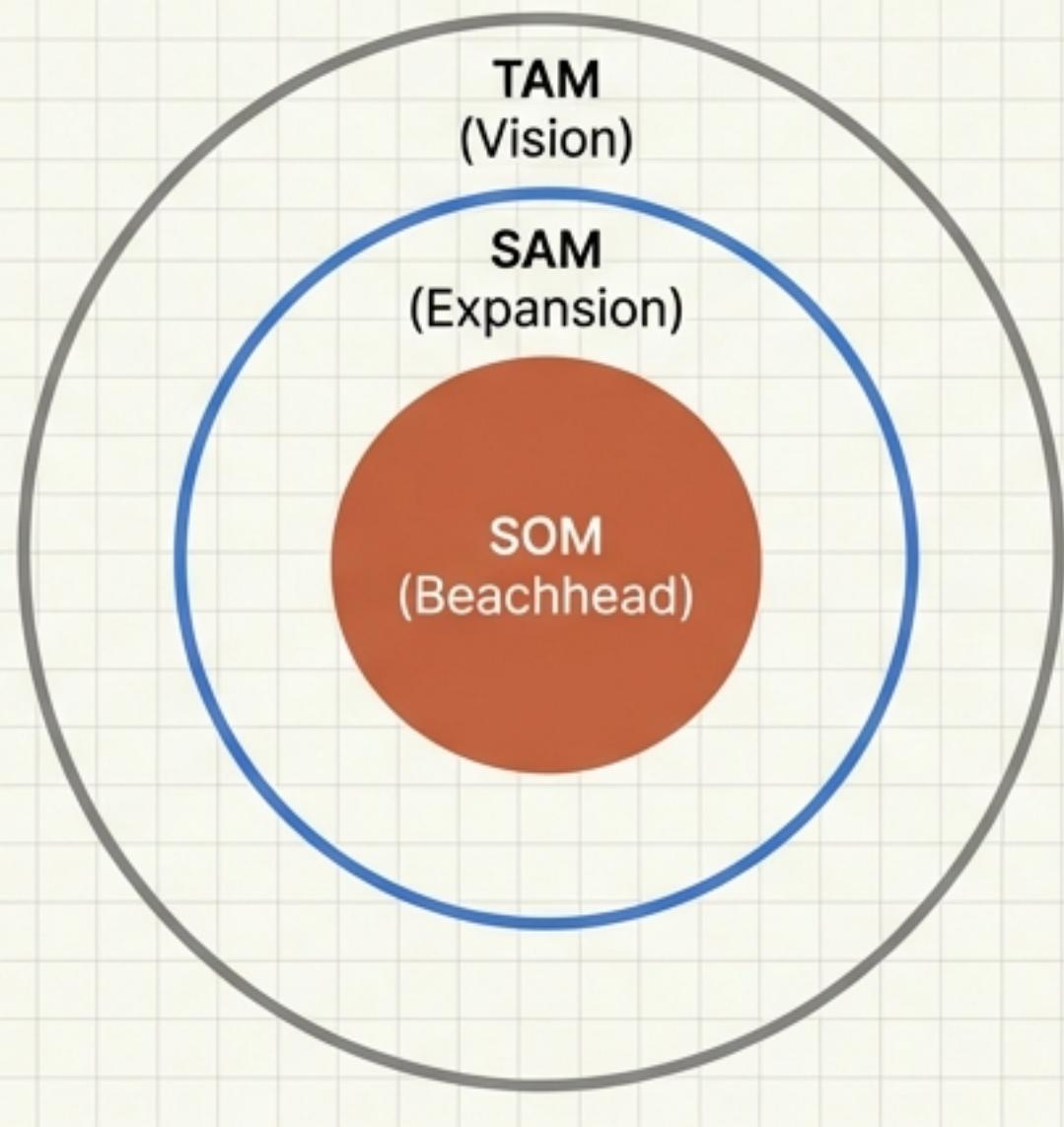


Cost & Availability:
24/7 patience for €9.99/mo
vs €80/hr tutors.

B2B Wedge: Platform branded for specific schools (e.g., AISB).

Cultural Sensitivity:
Designed for international cohorts with diverse linguistic backgrounds.

From Budapest to a \$5B+ Global Niche



The AISB Start.

~300 IB students at the American International School of Budapest.

Global IB Network.

1.2 million IB students across 5,000 schools worldwide. Growing at ~5% annually.

Global AI Tutoring. A \$5B+ growing segment within the \$340B global EdTech market.

Expansion Vectors

- **Geographic:** Budapest → Europe (NL, UK, ES) → Global
- **Curriculum:** IB Math → IB Physics/Chem → A-Levels

Dual Revenue Streams



Direct-to-Consumer (SaaS)

Model: Freemium

- **Free Tier:** Basic chat, limited daily problems.
- **Premium:** €9.99/month. Includes unlimited AI tutor, full analytics, and study streaks.



B2B School Licenses (The Growth Lever)

Model: Bulk Institutional Pricing

- **Price:** ~€5–15 per student/year.
- **Value Prop:** Equity of access. Schools ensure every student has support regardless of income.
- **Future Upsell:** Teacher dashboards for class analytics.

Strategic Rollout: The Beachhead Strategy

Phase 1: Validation (Months 1–6)

- **Target:** American International School of Budapest (AISB)
- **Action:** Launch MVP via personal network. Partner with teachers.
- **Goal:** 50+ active users, collect NPS.

Phase 2: Regional Expansion (Months 6–12)

- **Target:** 3–5 International Schools in Budapest.
- **Action:** Validate B2B willingness to pay. Social content launch.
- **Goal:** 500+ users, first recurring revenue.

Phase 3: European Scale (Year 2)

- **Target:** IB Coordinators in Netherlands, UK, Spain.
- **Action:** Cold outbound. Content marketing (Exam Prep blog).
- **Goal:** 2,000+ users across 20+ schools.

Technical Roadmap

Now (MVP)

- Next.js 16 (React) & TypeScript
- OpenAI API (GPT-4o-mini)
- KaTeX Rendering
- Topic Browser

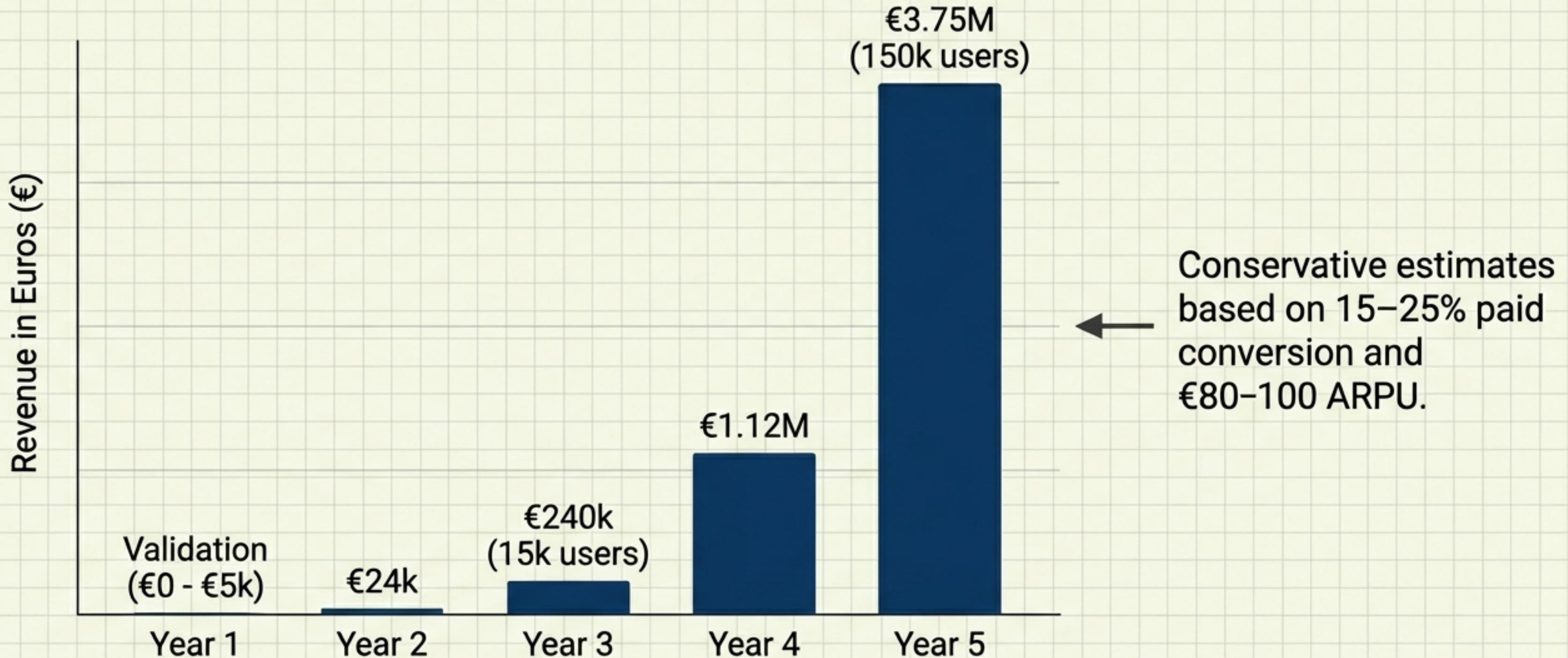
Next (Validation)

- User Auth (Supabase)
- Spaced Repetition Algorithms
- Diagram & Graph Rendering

Later (Scale)

- Mobile App (React Native)
- Teacher Dashboard
- Multi-subject Expansion (Physics)

Financial Trajectory



Capital & Team

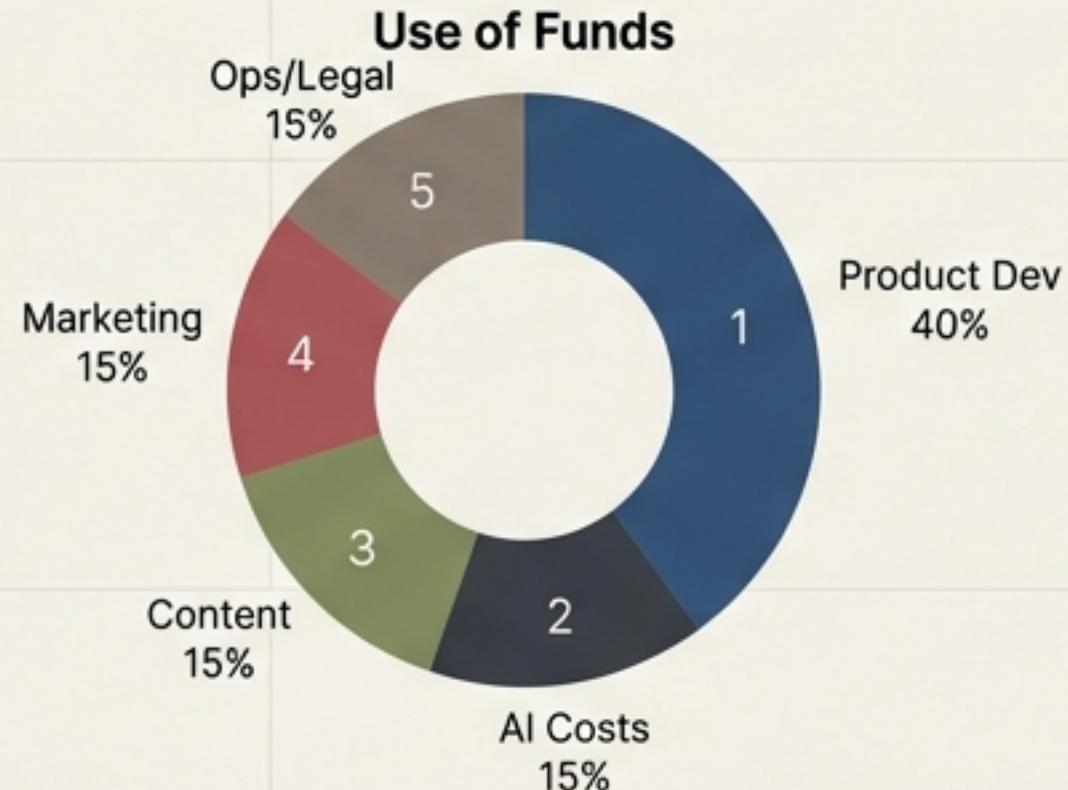
The Team

- **Tomi Tian (CEO)**: Product vision, math content, school relations.
- **Open Role (CTO)**: Hiring full-stack engineer with EdTech/AI exp.
- **Open Role (Content Lead)**: Hiring IB Examiner for curriculum assurance.

The Ask

Seeking €50,000 – €100,000 (Pre-Seed)

Runway: 12 Months to reach 500+ active users.



Ensuring No Student is Left Behind



TomTor AI isn't just about passing exams. It's about ensuring that every student—regardless of their background or bank account—has the support they need to master the world's most rigorous subjects.

Accessibility

• Patience

• Cultural Sensitivity

• Empowerment

Tomi (Yihe) Tian | Founder & CEO
Budapest / Eindhoven
tomi@tomtor.ai