



ClassNova

AI-Powered Plug-and-Play Smart Classroom Device

PROBLEM STATEMENT

“In a world racing toward digital education, millions of **classrooms** are still left behind. **ClassNova** bridges this gap by turning any ordinary projector into a powerful smart classroom tool, at a fraction of the cost.”



WHAT IS CLASSNOVA ?

ClassNova is a smart extension for normal projectors.

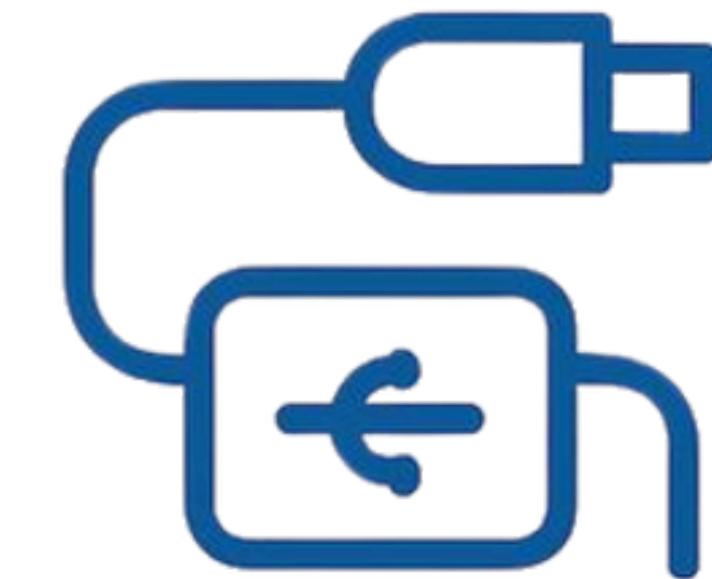
It adds whiteboard, internet, and recording features at low cost.

Operated easily through a mobile device or app.

A complete smart classroom upgrade without replacing existing setup



KEY FEATURES



Connectivity



Whiteboard
Collaboration



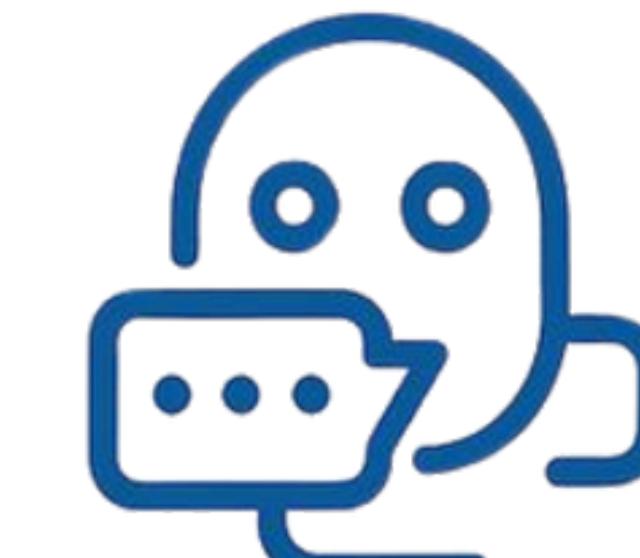
Media Player



Recording



Offline Access



AI Tutor



INtegration



Analytics & Security



Accessibility

Technology Stack



Layer	Key Components
Hardware	Raspberry Pi 4 (4 GB), HDMI & USB ports, Ethernet, Wi-Fi & Bluetooth, IR touch frame, camera & mic
Firmware & Bootloader	U-Boot bootloader, device tree support, secure-boot chain
Operating System	Lightweight Linux (Debian/Yocto), real-time kernel, security policies, OTA updates
Middleware & Core Services	UI engine (Electron/Qt), A/V recorder (GStreamer), sync scheduler, local database (SQLite)
Application	Interactive whiteboard, LMS connector, AI tutor module, embedded browser & media player
Management & Security	Remote dashboard, SSO authentication, TLS encryption, data-at-rest encryption, usage analytics

SWOT ANALYSIS



Strengths

- Low-cost hardware (₹7K)
- Works offline – rural ready
- Local language support
- Compact & easy to install
- Teacher-friendly setup

Opportunities

- NEP & Digital India push
- CSR & NGO partnerships
- EdTech/content tie-ups
- Global rural markets



Weaknesses

- New brand, low awareness
- Rural maintenance delays
- Funding reliance (Govt/CSR)
- Training needed for adoption

Threats

- Big EdTech competition
- Rapid tech upgrades
- Resistance to change
- Power/infrastructure gaps

OUR TARGET AUDIENCE

- Engineering and degree colleges
- Government and rural schools
- Private tuition centers and coaching Institutes
- NGOs and digital education initiatives



COMPETITIVE ADVANTAGE

Feature	ClassNova	Smart Boards	Google Classroom	Other EdTech
Cost per Student	₹166 + ₹60	₹3,500.00	(₹ 2,000 / yr net)	(₹1666/yr net)
Interactivity (★/5)	★★★★★	★★★☆☆	★★☆☆☆	★★★★☆
Ease of Use	Plug-and-play, no training	1-day setup training	Moderate learning curve	Quick onboarding
Hardware Requirements	Projector + Raspberry Pi	Dedicated smart board	Internet + PCs/tablets	Varies by vendor
Scalability	Unlimited, cloud-sync	Limited by hardware	High (software only)	Moderate (license caps)

MARKET SIZE & OPPORTUNITY



SOM



SAM

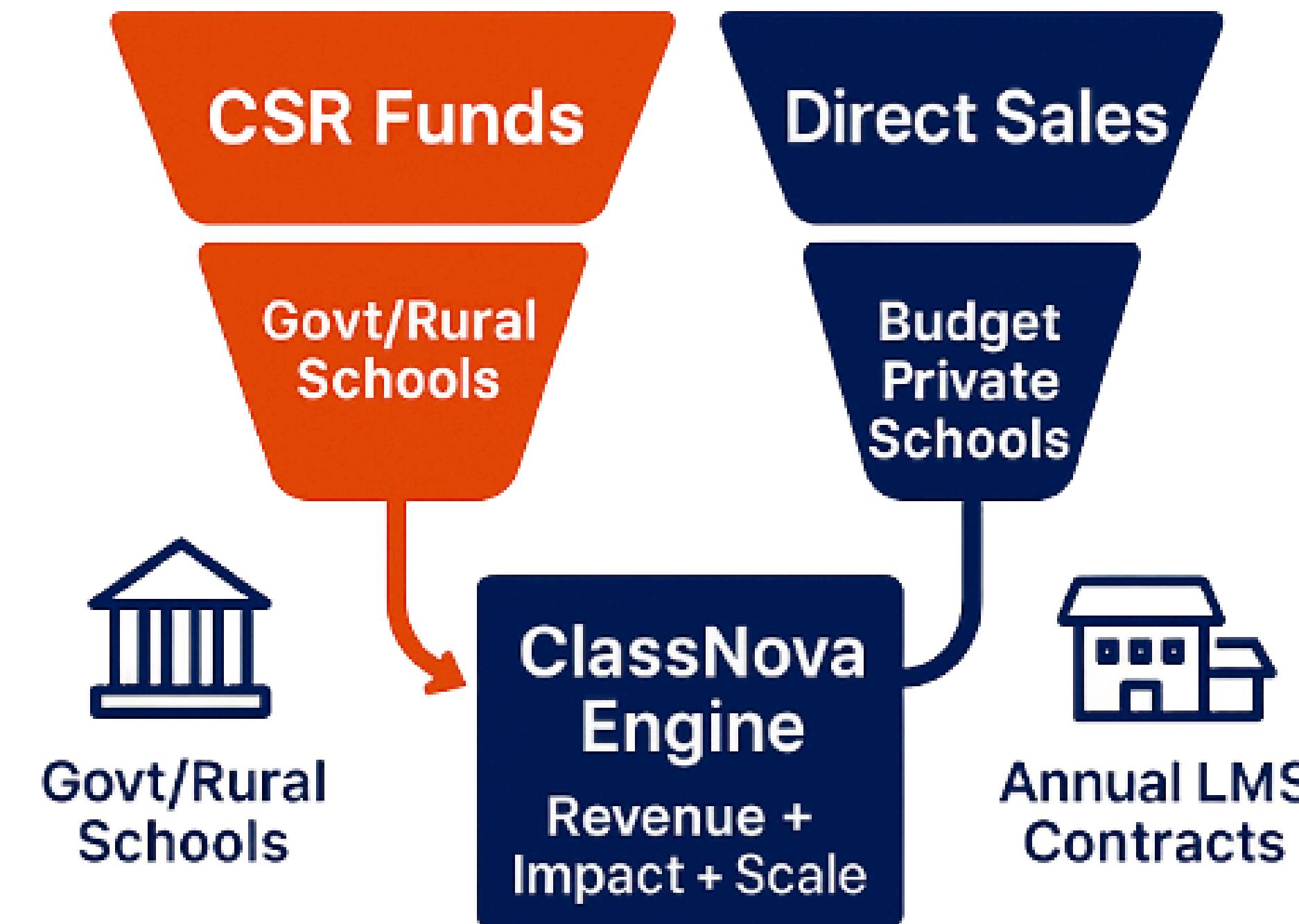


TAM

Business Model



Hybrid Model Representation



“Our hybrid model drives both social impact and sustainable revenue, reaching both funded and paying users.”

Annual Contract SaaS Model



Subscription with retention + low churn

Long-term Vision

Long-term

- ai integration
- Complete Customized Chip
- reach market

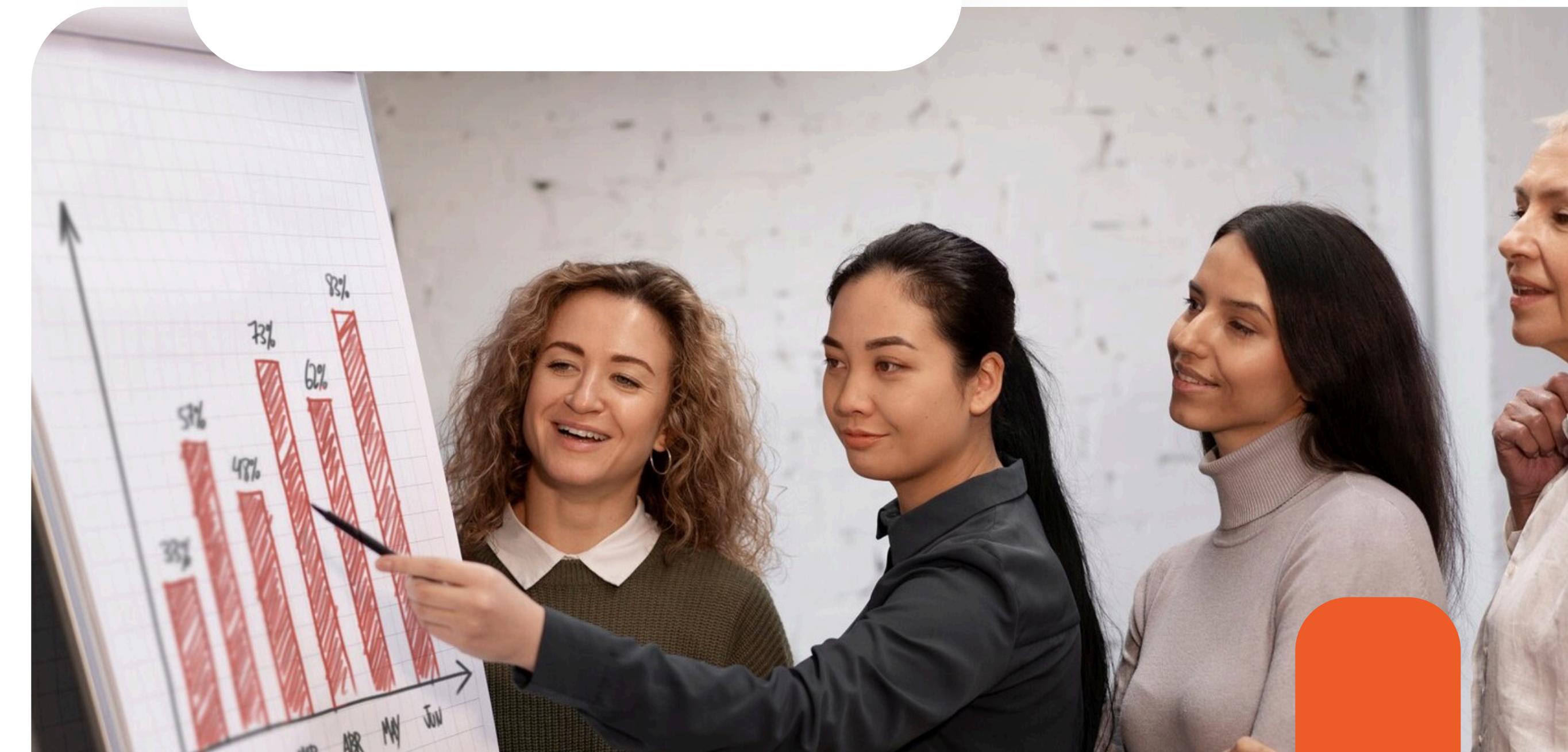
Goals Ahead

- Cloud services
- Increase efficiency
- LMS & mobile applications

classnova stands firmly on the bases of the feedback and technology

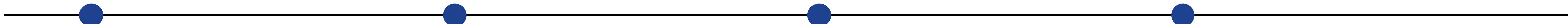


Aims to return atleast 30%
of the investment in First
year



Timeline & **FINANCIAL ASK**

YOUR
INVESTMENT CAN
FULE OUR DREAMS



PHASE 1

- MINIMUM ORDER 15
classnovas is taken
1500000 - 2000000
- customisable with pi 4,pi 5
- IF THE FEEDBACK IS
POSITIVE

PHASE 2

- CUSTOMIZED CHIPS & S/W
APPLICATION DEVELOPMENT
3000000
- Other security 3rd party
configurations
- deployment & feedback

PHASE 3

- CUSTOMIZED STYLUS &
KEYBORAD
1500000-2000000
- AI intergated moblie app
- deployment & feedback

PHASE 4

- Commercialize
- make sure to atleast
30% of the principle
amount within the
span of 1 year

TIMELINE & MILESTONES



PHASE 1

ClassNova successfully developed AI Tutor Integration with personalized learning support, adaptive feedback systems, and progress tracking across pilot classrooms.

Launch advanced Voice-to-Text Tools with real-time transcription, multi-accent recognition, and searchable lesson archives to enhance accessibility for all learners.



PHASE 2

Deploy Global Language Packs with 50+ language support, automatic translation, and cultural adaptation tools to serve diverse student populations worldwide.



PHASE 3

Establish a fully inclusive, AI-powered smart classroom ecosystem with multilingual, accessible, and personalized learning—scalable across low-resource schools globally.



PHASE 4

Patents & Intellectual Property

Application Details	
APPLICATION NUMBER	202541071271
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/07/2025
APPLICANT NAME	Chepuri Hari Kiran
TITLE OF INVENTION	Class Nova: AI-Powered Plug-and-Play Smart Classroom Device
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/08/2025

Application Status

Team & Advisors



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Thank You



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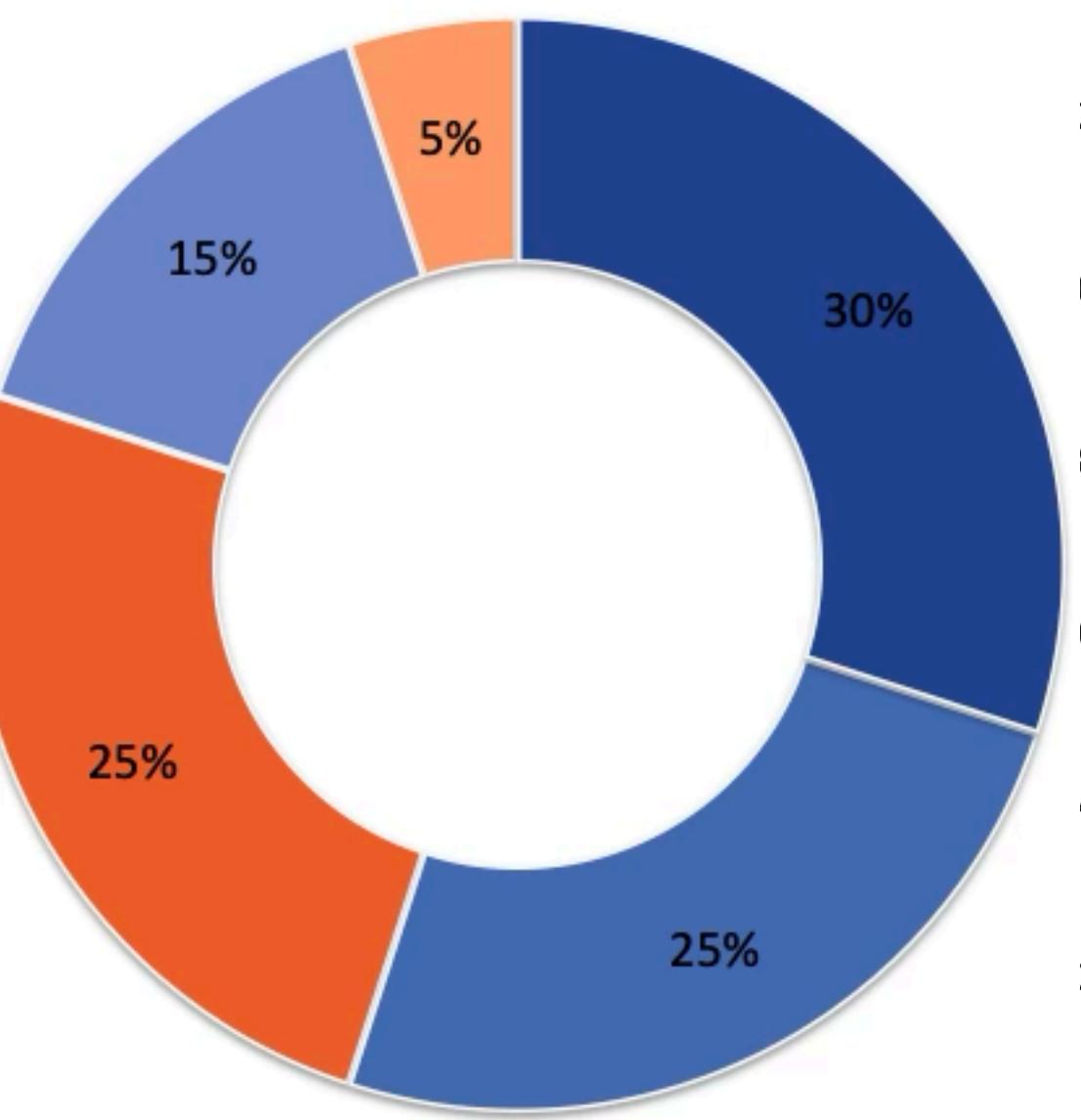


SCAN FOR
MORE DETAILS!

Financials & Ask



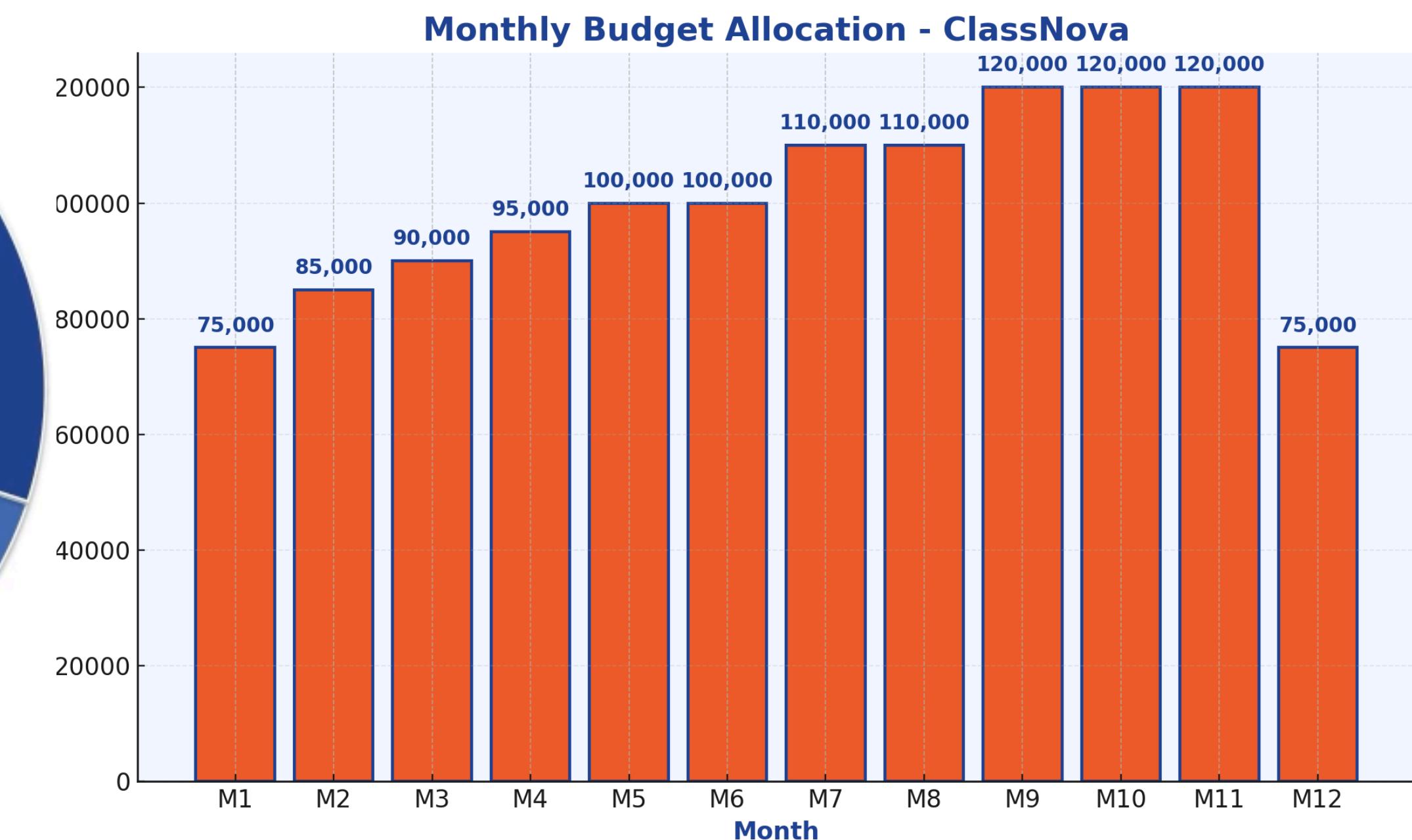
Shows our yearly budget plan and funding needed to run and grow ClassNova.



Funding Ask
₹12 L

RunWay
12 months

Avg Burn
₹1L/ month



- Product & Cloud R&D
- Hardware Procurement & Mfg
- Go-to-Market & Pilots
- Ops, Support & Hiring
- Legal/Compliance & Contingency