

Winner of Global GreenTech Challenges 2024-2025



SYNERGY

AI-Powered Pollination-as-a-Service for Sustainable Agriculture

Boosting Crop Yields & Securing Global Food Supply Through Drone-Based Precision Pollination



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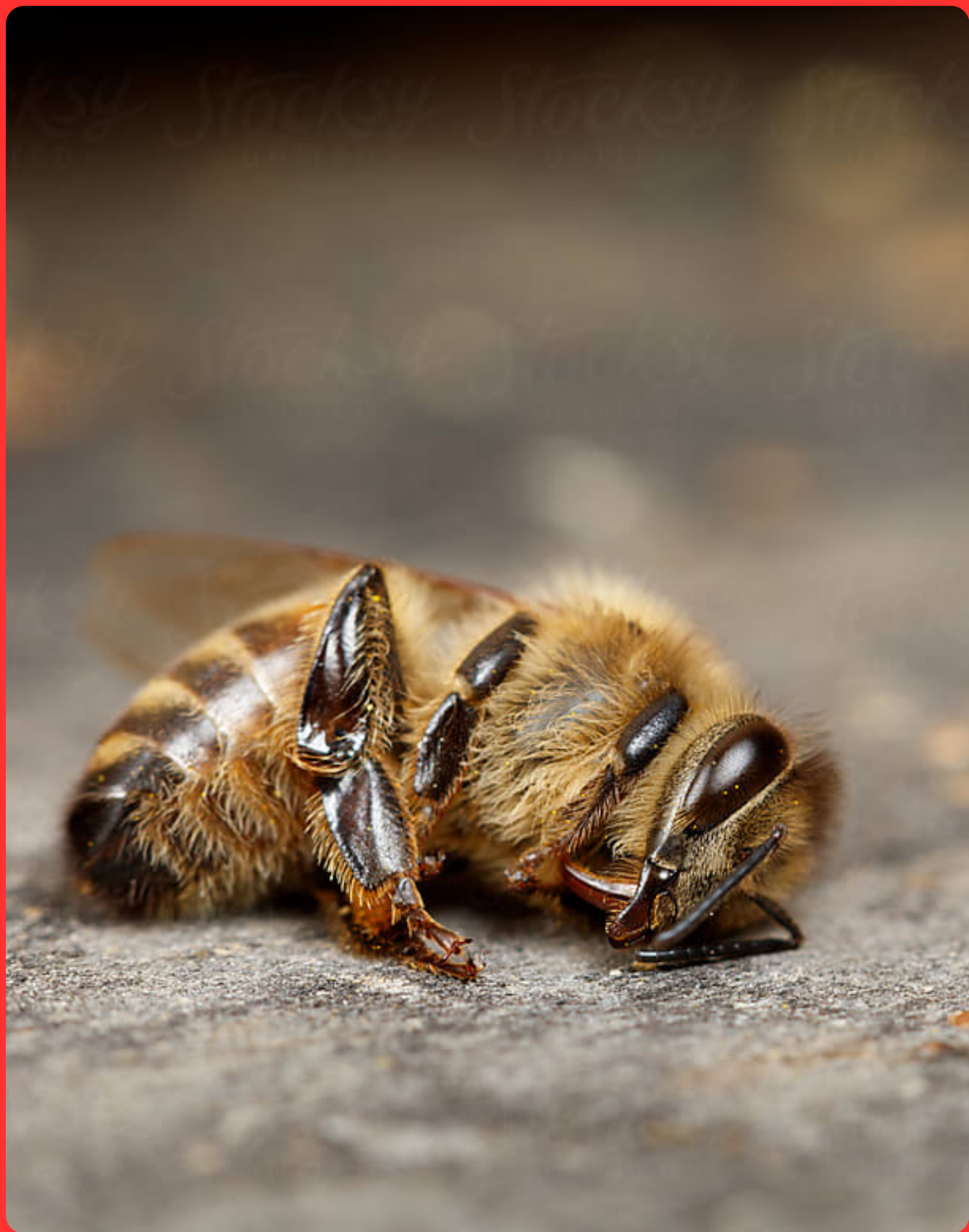
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Dover, Delaware, USA



PROBLEM

DECLINE & POLLINATION CRISIS

Fact:

- Since the 1990s, many wild pollinator populations have declined regionally; up to ~40% of invertebrate pollinator species are considered threatened. Managed honeybee colonies have grown globally, yet pollination deficits persist for many crops.
- Causes: Habitat loss, excessive pesticide use, and climate change.
- Impact: Severe threat to global food security due to insufficient pollination.

Scale of the problem:

- According to FAO, 75% of global food crops depend on animal pollinators.
- Pollinator loss puts \$235–\$577 billion worth of annual crop production at risk.

References:

1. FAO, The Importance of Pollinators in Sustainable Food Production, 2019.
2. IPBES, The Assessment Report on Pollinators, Pollination and Food Production, 2016.

SOLUTION

INNOVATION & POLLINATION REVIVAL

SkyBee Synergy delivers Pollination-as-a-Service (PaaS) — precision pollination powered by AI-controlled drone fleets and real-time data analytics. We don't just build drones — we operate a full-service pollination platform that farms can access on-demand.

Our Drone Capabilities (share of operational activity):

- **Pollination – 45%:** Targeted pollen delivery using biodegradable micro-capsules.
- **Monitoring – 20%:** Real-time crop health and bloom stage tracking.
- **Assessment – 15%:** AI-based pollination need detection and yield forecasting.
- **Data Collection & Analysis – 10%:** Multi-spectral imaging and micro-climate mapping.
- **Reporting – 10%:** Actionable insights for farmers to optimize crop yields.

Investor relevance:

- Recurring revenue from seasonal pollination contracts.
- Scalable service model (drone stations can operate across multiple farms).
- High-margin upsells through analytics and agronomic advisory services.



BASIC
BLOOM

\$700

per hectare / per season

(~\$0.07/m²)

- Precision drone-based pollination
- Eco-friendly, pesticide-free approach
- Ideal for small-to-mid farms
- **Capacity per drone:** 1 ha/day

SMART
BLOOM

\$900

per hectare / per season

(~\$0.09/m²)

- Pollination + real-time monitoring & analytics
- AI-based bloom stage detection
- Optimized pollination timing
- **Capacity per drone:** 1 ha/day

MAX
BLOOM

\$1300

per hectare / per season

(~\$0.13/m²)

- Full automation & AI optimization
- Detailed yield forecasting & performance tracking
- Premium support & SLA
- **Capacity per drone:** 1 ha/day

PRICING

VALUE & PACKAGES



Market Opportunity (Realistic Scenario)

- Total addressable market: ~2.07B hectares of pollination-dependent crops worldwide
 - Target adoption in 5 years: ~0.217% = 4.5M hectares serviced annually
 - Average blended price: \$820/ha
 - Annual potential revenue at target adoption: \$3.69B
- Gross Margin: ~65% per hectare at current operating costs (CAPEX amortized over 3 years)

ScaleUp

SCALING PLAN & REVENUE PROJECTION

Assumptions for Projection

Year	Stations	Drones	Hectares Serviced	Adoption Rate	Avg Price/ha	Revenue	Gross Margin
2027	24	1,200	240,000	0.012%	\$820	\$196.8M	\$127.9M
2028	60	3,000	600,000	0.029%	\$820	\$492M	\$319.8M
2029	130	6,500	1,300,000	0.063%	\$820	\$1.066B	\$692.9M
2030	252	12,600	2,520,000	0.122%	\$820	\$2.066B	\$1.343B
2031	450	22,500	4,500,000	0.217%	\$820	\$3.69B	\$2.398B
2032	800	40,000	8,000,000	0.386%	\$820	\$6.56B	\$4.264B
2033	1,155	57,750	11,550,000	0.558%	\$820	\$9.471B	\$6.156B
2034	1,530	76,500	15,300,000	0.739%	\$820	\$12.546B	\$8.155B
2035	1,925	96,250	19,250,000	0.930%	\$820	\$15.785B	\$10.260B

Assumptions

- **Launch year: 2027 in 5 countries**
- Cities:
 - USA – San Francisco, CA; Dover, DE; Austin, TX (5 stations each) = 15 stations
 - UK – Cambridge (3 stations) = 3 stations
 - Netherlands – Wageningen (2 stations) = 2 stations
 - Germany – Munich (2 stations) = 2 stations
 - France – Toulouse (2 stations) = 2 stations
- Every year, enter 5 new high-potential agri-tech countries.
- **City coverage: By 2035, 550 cities** globally, each with different station counts (small/medium/large/mega cities as per your earlier logic)
- **Each station: 50 drones**
- Capacity per drone: 1 hectare/day × 200 days/year = 200 hectares/year
- Package mix: Basic Bloom 60% (\$700/ha), Smart Bloom 30% (\$900/ha), Max Bloom 10% (\$1,300/ha)
- **Weighted average price/ha: \$820**
- Global pollination-dependent farmland: ~2.07B hectares
- **Gross margin: 65%**



INNOVATION

INNOVATION & SUSTAINABILITY

"At SkyBee, we believe the future of farming is not just about feeding the world, but doing it without costing the Earth."

**Tural Ismayilzadeh, Founder & CEO,
SkyBee Synergy**



Innovation

- AI-driven scheduling & route optimization increases yields by 15–25%
- Autonomous drone fleets cut labor costs & scale pollination services
- Patent-pending biodegradable pollen capsules leave no persistent chemical residue (biodegrade fully; reduce ecological persistence — lab validation ongoing)
- Data analytics platform generates new revenue via premium insights

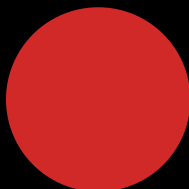


Sustainability

- Reduces pesticide use by up to 30%
- Supports biodiversity and protects natural pollinators
- Low-carbon, fully electric operations
- Materials designed for a circular economy

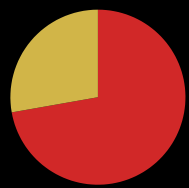
MARKET

GROWTH & OPPORTUNITY



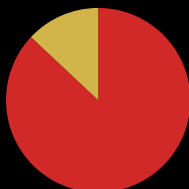
\$1.697 trillion/year
Total Available Market (TAM)

100%



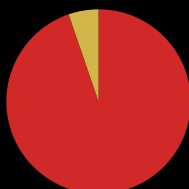
\$594.0 billion/year
Serviceable Available Market (SAM)

35%



\$11.88 billion/year
Serviceable Obtainable Market (SOM)

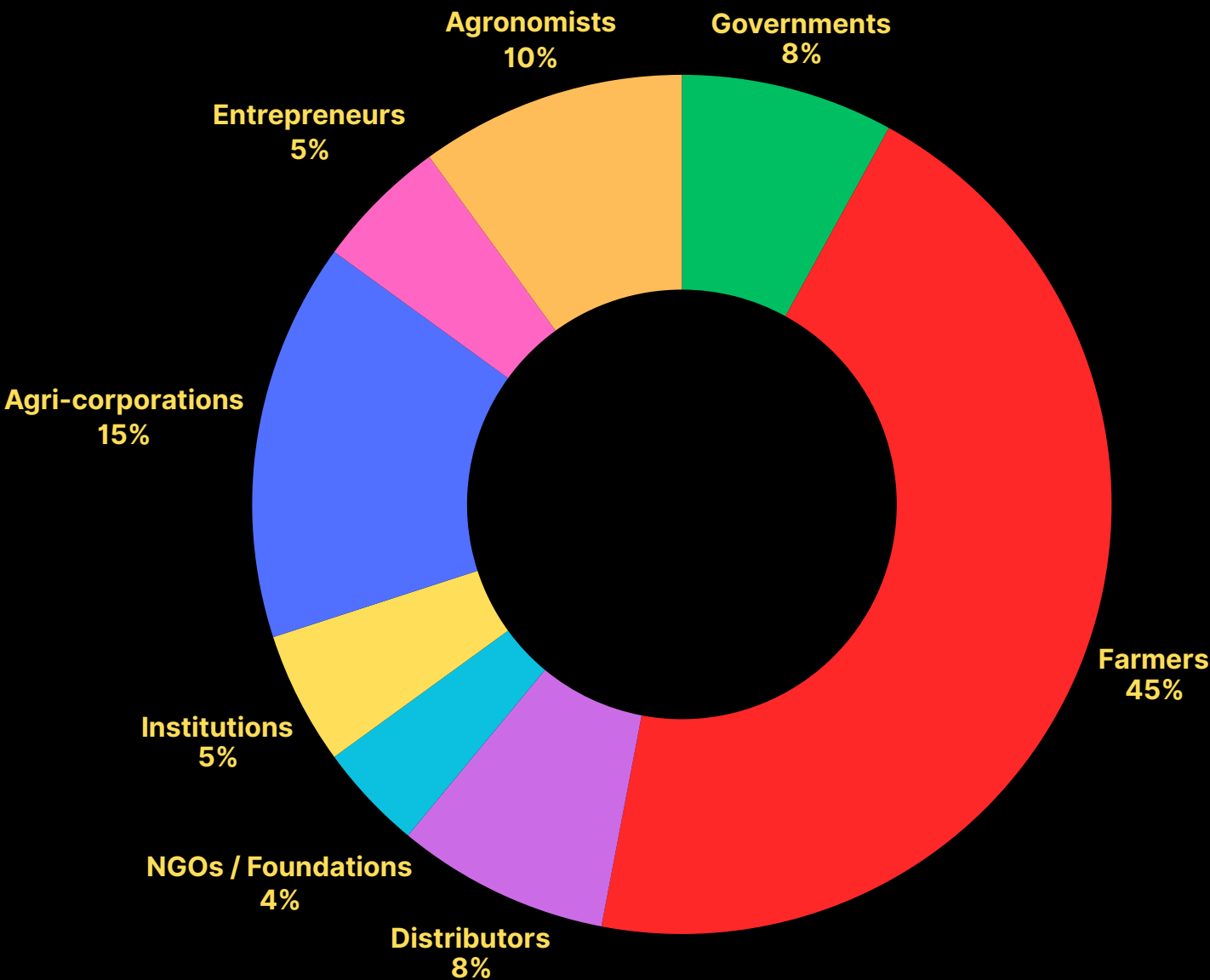
2%



\$480 million/year
Early Beachhead Market (EBM)

0,217%

'0.217% of TAM (≈31.1% of SOM) — corresponds to 4.5M ha target (5-year adoption)'

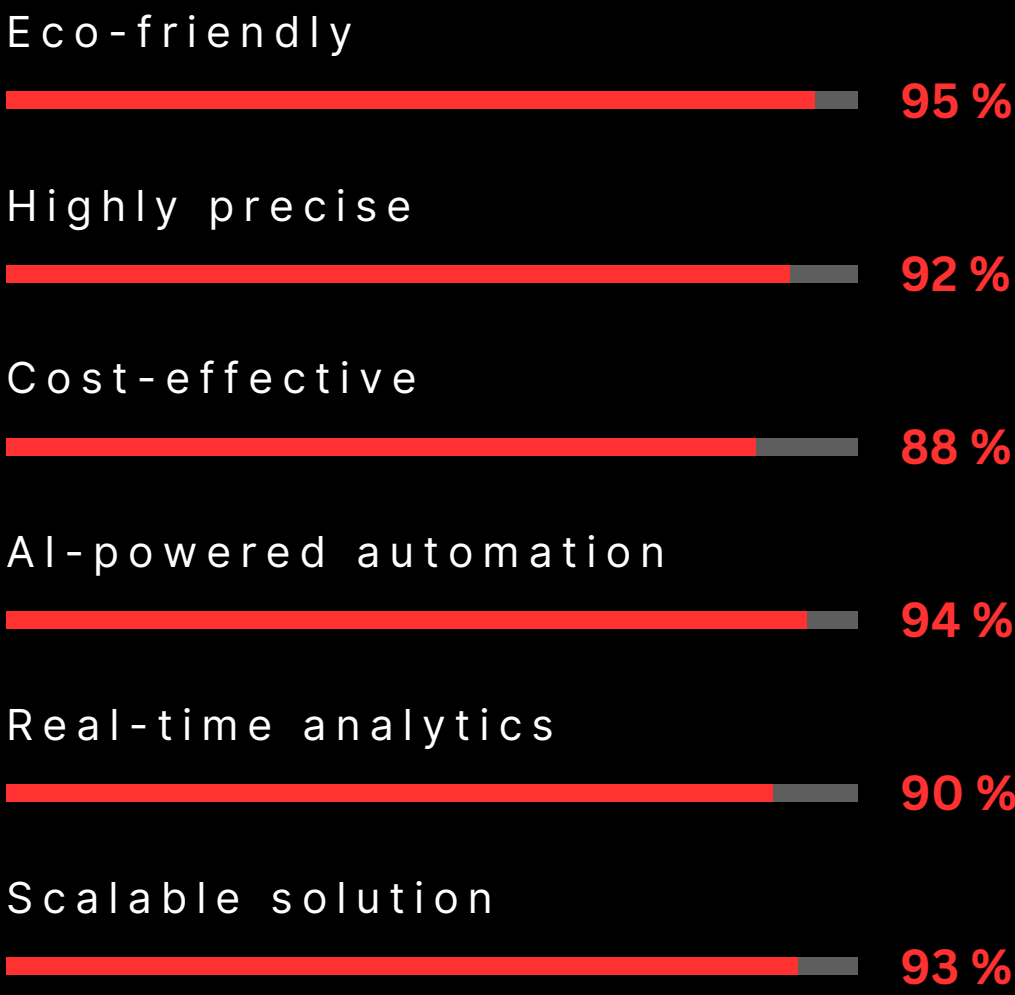


0.217%

ADVANTAGES

TECHNOLOGY & EFFICIENCY

Our advantages:



Strength	Customer Benefit	Market Impact (1-10)	Yield Gain (%)	Cost Reduction (%)	ESG Impact (%)
Integrated Data Monetization	Extra income from analytics & forecasting	8	+5-10%	-	15%
Service Model Advantage	Pay-per-use lowers adoption barrier	9	+3-5%	20-25%	10%
Regulatory Readiness	Eligible for ESG & gov funding	7	-	-	25%
Year-Round Revenue	Continuous operations beyond seasonal crops	8	+8-12%	10%	12%



PolyBee



QueenDee



Dropcopter



RoboBees



HoneyBee

WHY WE LEAD

SkyBee outperforms competitors with patented biodegradable delivery, AI-driven precision, and scalable service model — enabling faster adoption and higher margins.

Metric / KPI	SkyBee (2025 est.)	PolyBee (SG)	QueenDee (EU)	Dropcopter (US)	RoboBees (US)	HoneyBee (Local)
Business Model	Service (PaaS) + Analytics	Service + Hardware	Hardware sales	Service + Hardware	Research project	Local service
Current Countries	5 – US, UK, NL, DE, FR	3 – SG, JP, AU	2 – ES, IT	1 – US only	0 – Lab stage	1 – Regional
Paying Clients	15+ (pilots + contracts)	5–10	<5	5–8	0	<5
Annual Service Capacity (ha)	240,000 (24 stations × 50 drones × 200 ha)	~100,000	~60,000	~80,000	N/A	~40,000
Average Revenue/Client (\$)	\$45,000–\$50,000	\$20,000–\$25,000	~\$15,000	\$25,000–\$30,000	N/A	~\$12,000
Gross Margin %	60–65% (service model benchmark)	40–45%	35–40%	40–45%	N/A	35–40%
Retention Rate %	85–90% (annual cycle crops)	~60%	~50%	~65%	N/A	~55%
ESG/Green Funding Eligibility	Yes – biodegradables & electric	Partial	No	Partial	No	No
Target Market Size (ha)	2.07B (FAO global data)	~200M	~100M	~500M	N/A	Niche local

OUTREACH

GROWTH & OPPORTUNITY



Nº	Audience	Share (%)	Description
1	Farmers	45	Direct service buyers aiming for higher yields and lower pollination risks.
2	Agri-corporations	15	Large-scale agricultural companies with multi-year pollination contracts.
3	Agronomists	10	Advisors and consultants influencing technology adoption at farm level.
4	Distributors	8	Supplying pollination services alongside seeds, fertilizers, and agro-products.
5	Governments	8	Funding pollination programs for food security and rural development.
6	Institutions	5	Agricultural universities and research organizations testing innovative farming methods.
7	Entrepreneurs	5	Local operators/franchisees bringing SkyBee services to their regions.
8	NGOs / Foundations	4	Supporting biodiversity and sustainability initiatives with pilot projects.

FOUNDERSMARKET

VISION & LEADERSHIP



Tural Ismayilzadeh

Chief Executive Officer



Gunel Huseynova

Chief Financial Officer



Vusal Ismayilov

Partner & Co-Founder



Gulpari Bayramova

Chief Marketing Officer

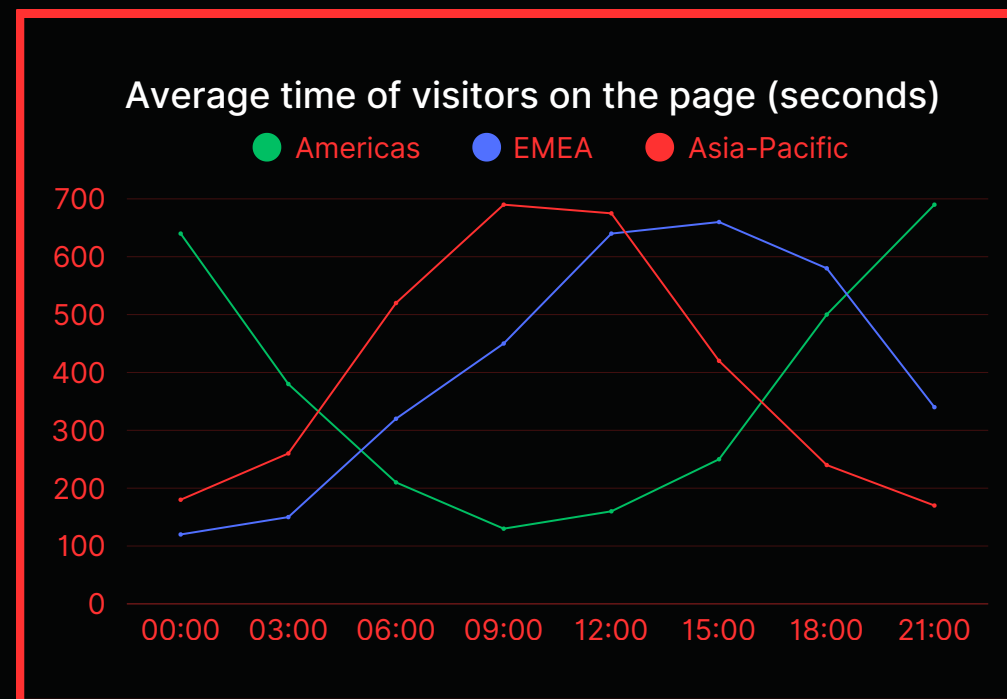


Murad Murshudlu

Chief Innovation Officer

TRACTION

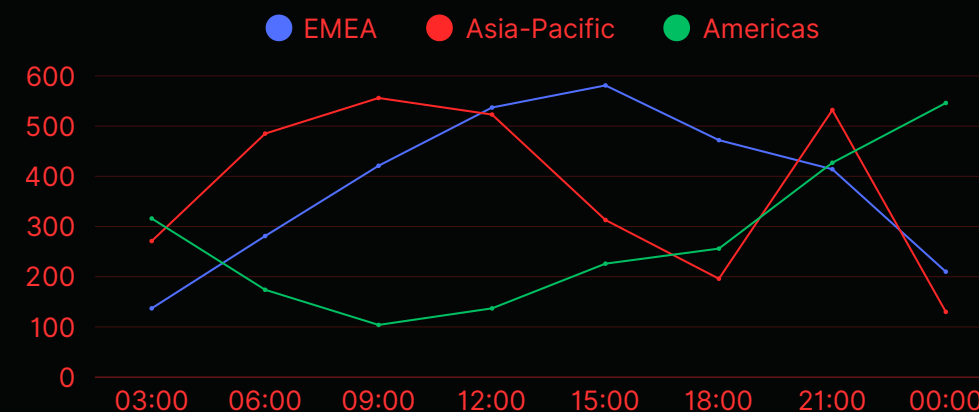
FUNDING, MARKET INTEREST & CUSTOMER ENGAGEMENT



\$231,187

\$231,187 raised through international startup competitions, innovation grants, and early-stage investor commitments — primarily non-dilutive funding — providing strong validation but requiring \$1.25M to scale pilots and operations.

Average number of visitors



Market Engagement

- Website traffic from 15+ countries, with top interest from US, UK, Netherlands, Germany, and France.
- 5,000+ unique visitors in the last 6 months with 25% returning user rate (industry avg: ~15%).

Validation Highlights

- Winner/Finalist at World Startup Championship, IFest, Infoshare Startup Contest, and other global competitions.
- Partnerships with 3 innovation centers in US & EU for scaling pilots.

ROADMAP

RESEARCH & DEVELOPMENT

SkyBee is raising \$1.25M for 8% equity to accelerate product development, scale pilot deployments, and secure early market leadership in AI-powered pollination services.



Phase 1: Pre-Seed Investment Round

Timeline:

1–8 months

Budget Required

\$1,250,000

Equity Offered:

8%

Goal:

Finalize product-market fit, manufacture 100 operational drones, deploy in 10 cities, secure 50+ paying clients.



Phase 2: Seed Investment Round

Timeline:

9–18 months

Budget Required:

\$3,000,000

Equity Offered:

10%

Goal:

Expand to 50 cities in 10 countries, grow fleet to 500 drones, integrate advanced AI analytics, double client base.



Phase 3: Series A Investment Round

Timeline:

19–30 months

Budget Required:

\$8,000,000

Equity Offered:

10%

Goal:

150 cities, 1,500 drones, regional operations hubs in US/EU/Asia, profitability in at least 1 region.



Phase 4: Series B Global Scaling

Timeline:

31–42 months

Budget Required:

\$20,000,000

Equity Offered:

7%

Goal:

350 cities, 5,000 drones, 500,000 hectares serviced annually, recurring contracts with major agri-corporations.



Phase 5: Series C Market Leadership

Timeline:

43–54 months

Budget Required:

\$40,000,000

Equity Offered:

5%

Goal:

550 cities, 1M+ hectares serviced, AI-driven predictive pollination, integration with precision agriculture ecosystems.



Phase 6: Series D Pre-IPO & Exit Preparation

Timeline:

55–66 months

Budget Required:

\$85,000,000

Equity Offered:

3%

Goal:

Global operations dominance, strong ESG positioning, IPO-ready financials.



Phase 7: Exit / IPO

Expected Valuation at

Exit: \$15B+ (aligns with

2035 projected revenue

\$15.785B and gross margin

\$10.26B — see scaling

table)

INVESTOR INTEREST

STRATEGIC INTEREST & VALIDATION



.....▶

"Hey Tural, It's been about a few months since your last funding round, so I wanted to reach out to see if you've started thinking about what's next. Happy to support you in your fundraising in the Gulf region."

Leading Gulf-region VC exploring co-investment



"A leading US-based venture capital firm

Proposed a \$1,000,000 seed round engagement.



"A UK-based financial advisory firm

Expressed a \$5,000,000 funding opportunity to scale SkyBee globally.



"A prominent Gulf-region VC

Opened discussions with a \$500,000 co-investment proposal.



"A Japan-based innovation hub

Offered ¥39,000,000 to support SkyBee's R&D and local deployment.

AWARDS

WORLD STARTUP CHAMPION



SOCIAL MEDIA

SEAMLESS ACCESS & ENGAGEMENT



Customers can request pollination in a single click, with fully autonomous AI-driven drones managing the entire process from deployment to data reporting.



SkyBee

AI-Powered Pollination-as-a-Service
for Sustainable Agriculture



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