Simpli-Fi Automation

AI-Powered Sensing Solutions for Life

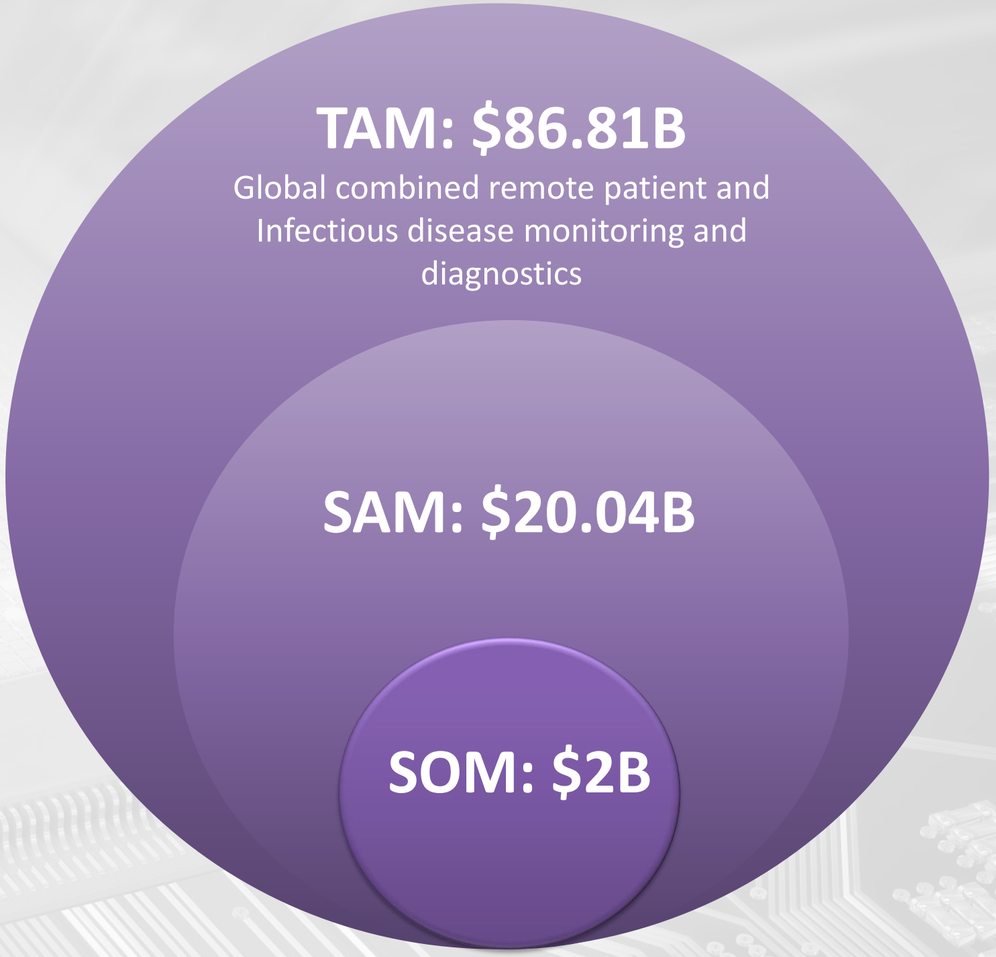
Health Monitoring SaaS:

A Healthy Environment is Vital for a Healthy Patient

Simpli-Fi is addressing a $25B healthcare system inefficiency by leveraging advancements in AI combined with NASA e-Nose sensor technology. Our unique solution will protect patients against hospital-acquired infections and provide next-gen Remote Patient Monitoring using the sense of smell (sensor VOC smelling capabilities).

Hospital-Acquired Infection Monitoring

Current-2023 (Global) **$33.01 Billion**
Projected- 2028 (Global) **$41.99 Billion**
CAGR 4.1%
*According to a MarketsandMarkets report published Feb 2024



Remote Patient Monitoring

Current-2022 (Global) **$53.8 Billion**
Projected- 2028 (Global) **$207.2 Billion**
CAGR: 23.6%
* According to an Arizton Advisory & Intelligence report published June 2023

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Hospital Acquired Infections:

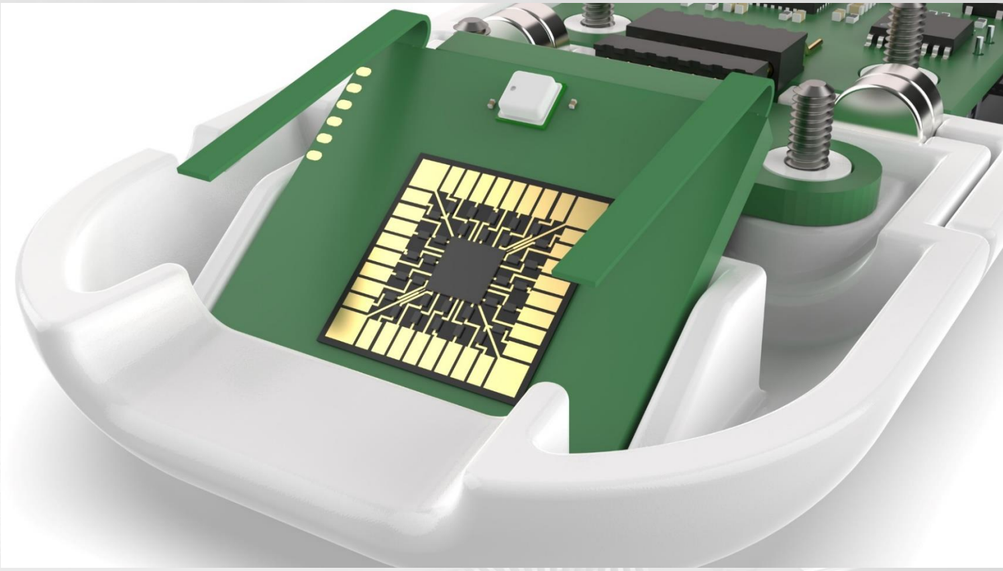
A threat to public safety and public health

HAI’s, contracted within healthcare facilities, can lead to severe complications, prolonged hospital stays, increased healthcare costs, and even mortality. Despite stringent hygiene protocols, the complex and dynamic nature of hospital environments makes it challenging to completely eliminate the risk of HAIs. A new method of monitoring the clinical environment for these hazards is needed to reduce the cost of care and improve patient outcomes.

Sensing Solutions for Life

The power of the chemical lab, anywhere, anytime.

Our unique hybrid SaaS solution protects patients from hospital-acquired infection by leveraging the NASA e-Nose, a carbon nanotube-based VOC sensor that provides quantitative and qualitative measurement of target molecules related to infection. In addition, this technology platform can be used to provide non-invasive remote patient monitoring by measuring various breath biomarkers related to chronic disease.



- Provides real-time detection of airborne pathogens.
- Monitors wound care and post-surgical recovery.
- Leverages AI models to detect and classify the “odors” of disease in the air and on human breath.
- Can be used in the clinic or the home environment.

NVIDIA INCEPTION PROGRAM

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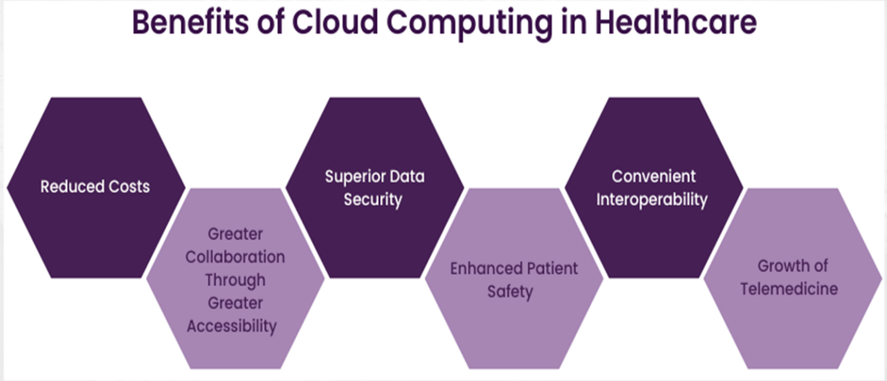
Why Simpli-Fi Hybrid SaaS?

Key SaaS Features

1. **Clinical Environment Monitoring**:
   - **Continuous Surveillance**: Our SaaS platform continuously monitors air quality in hospitals and nursing homes, detecting pathogens like C-Diff, MRSA, and Staph infections. This proactive approach helps in preventing the spread of HAIs.
   - **Automated Alerts and Reporting**: The system generates real-time alerts and detailed reports for healthcare administrators, facilitating prompt intervention and ensuring compliance with health and safety regulations.
2. **AI-Powered Disease Diagnostics**:
   - **Non-Invasive Breath Analysis**: Our software uses AI to analyze breath samples, detecting biomarkers associated with various diseases such as respiratory infections, metabolic disorders, and even certain cancers. This non-invasive method offers a quick, painless, and highly accurate diagnostic tool.
   - **Real-Time Results**: Patients receive immediate feedback, enabling faster diagnosis and treatment. This feature is particularly beneficial for early detection and management of chronic diseases.



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Impact on the Healthcare System

The implementation of **Simpli-Fi**'s hybrid SaaS model is poised to transform the healthcare landscape by:

•**Reducing Healthcare Costs**: Early and accurate disease detection can significantly reduce treatment costs and hospital stays. Additionally, preventing HAIs can save billions in healthcare expenses annually.

•**Improving Patient Outcomes**: Non-invasive diagnostics and timely interventions lead to better patient outcomes, enhancing the overall quality of care and patient experience (non-invasive solution).

•**Enhancing Operational Efficiency**: Automated monitoring and reporting streamline hospital operations, allowing healthcare professionals to focus more on patient care rather than administrative tasks.

•**Promoting Public Health**: By reducing the incidence of HAIs and enabling early disease detection, our technology contributes to a healthier population and a more resilient healthcare system.

•**Simpli-Fi** is committed to leveraging cutting-edge software sensing technology to create a safer, more efficient, and patient-centric healthcare environment. Our hybrid SaaS solutions are not just innovations; they are essential tools for the future of healthcare.

The Simpli-Fi Automation Team has over 290 years of combined experience in automated software engineering, remote patient monitoring (RPM), device engineering, infectious disease control, advanced manufacturing, applied materials, and business development. We are uniquely positioned to bring our hybrid SaaS solutions to the market with our diverse group of contributors and founders. Our board of directors is comprised of industry leaders, with former and current executives from 3M, Cargill, Best Buy, and Integris.

Executive Team

Chris Campbell
CEO

Dr. Jev Cunningham
CTO

Dr. Tim Campbell
CMO

William “DJ” Dozier
Business Development

Lauren Kelly
Operations Director

Board of Directors

Patrick Deconinck

Cordell Hardy

Michael Wright

Amelia Hardy

Jerome Hamilton

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Our Partners

VA U.S. Department of Veterans Affairs

"We are enthusiastic about the possibilities this collaboration holds and look forward to working closely with Simpli-Fi Automation, Inc. to advance medical diagnostics and improve patient care."

Dr. Alon Ben-Ari, CMIO Veterans Health Administration

MAYO CLINIC

"This technology has the potential to revolutionize remote health monitoring and provide a non-invasive tool for improving health outcomes for patients worldwide."

Dr. Bruce D. Johnson, Department of Cardiovascular Medicine, Mayo Clinic

Cleveland Clinic

"The potential to mitigate the impact of hospital-transmitted diseases like C-Diff is particularly noteworthy, as it can significantly improve patient safety and quality of care."

Dr. Sundar Manickam, Assistant Professor of Medicine, Cleveland Clinic Foundation

SAMSUNG RESEARCH AMERICA

"We see immediate application uses in our mobile devices such as smartphones and wearables for fitness, wellness, and telehealth care. In addition, this sensor could be used in applications from food quality monitoring to environmental air quality monitoring through our network of partners and subsidiaries"

David Chon, Lead-MX Open Innovation, Samsung Research America

NASA TECHNOLOGY TRANSFER PROGRAM
BRINGING NASA TECHNOLOGY DOWN TO EARTH

SAMSUNG Health

NVIDIA INCEPTION PROGRAM

BROWN VENTURE GROUP

warecorp

NANOBIOSYM

FLC Federal Laboratory Consortium for Technology Transfer

Introducing:

Provectus Canary™ Clinical Environmental Monitoring

The Provectus Canary System provides continuous monitoring for airborne infectious Hazards:

- Measures Particulate Matter (PM), Temperature, Humidity, Carbon Dioxide (CO2), and VOC's
- Cost-effective C-Diff (Clostridium Difficile) monitoring in environmental room air.
- Uses "scent mapping" to detect airborne pathogens including, Staphylococcus, E. Coli, Streptococcus, Pseudomonas aeruginosa, and more.

Canary Pro

Canary Mini

Operating Room Air Quality Monitoring

Monitor Shared Spaces

Prevent Hospital Contracted Infection

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Introducing:

Provectus Telehealth™

The Provectus Telehealth system uses **breath biomarker** diagnostic technology to provide continuous access to healthcare monitoring to everyone, everywhere:

- Personalized Healthcare:
- Early Detection of Illnesses
- Early Preventive Healthcare
- Non-Invasive Monitoring
- Remote Health Monitoring

Monitoring Mom

Long-term Care for Loved Ones

Immunocompromised Patients

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Go to Market

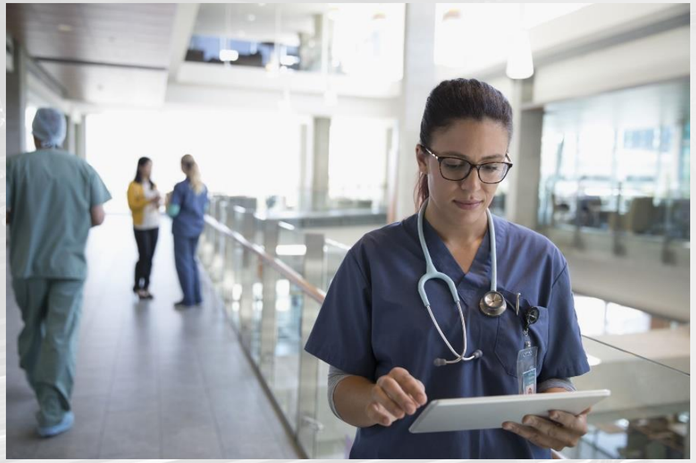
Global partners for a worldwide solution

Target Segmentation:

- Large Urban Hospitals
- Long-term Care Facilities
- Surgical Centers
- Research Hospitals
- Government Health Facilities
- Telehealth RMR Companies

Sales Strategy:

- Direct Sales to key accounts
- Distribution for broader market coverage
- Flexible Pricing models and volume discounts.
- Monthly Subscription models



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Global Distribution Strategy:

-Partner with industry leaders for wide reach:

- Solventum: Leverage HealthCare Expertise
- ThermoFisher Scientific: Global distribution and logistics
- 3M: Utilize Global presence in Healthcare

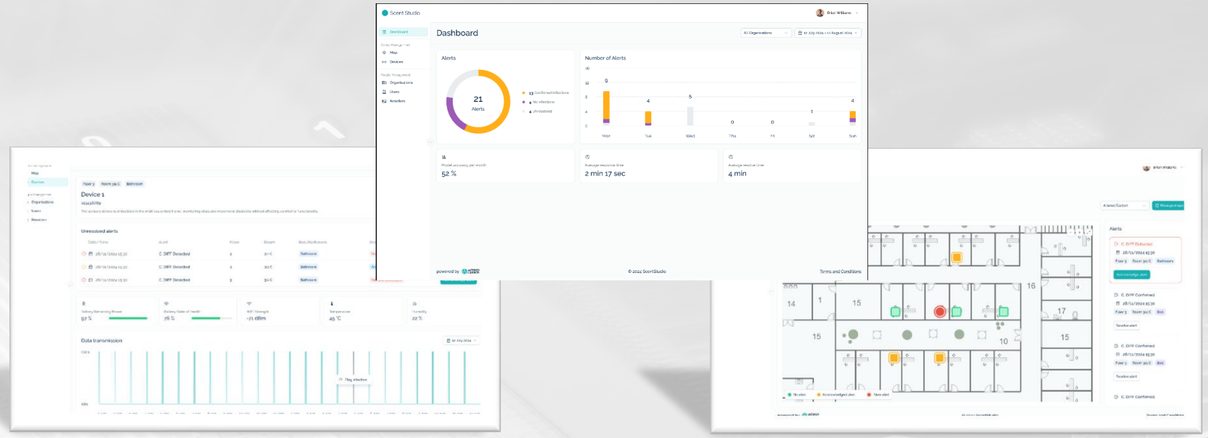
*Discussions with distribution partners are on-going, final agreements may vary.

Key Value Proposition:

- Real-time Infection Control Monitoring
- Non-invasive remote monitoring of chronic diseases
- Improved patient safety and outcomes
- Cost savings through early detection
- Regulatory compliance support

Our Model: Hybrid SaaS

AI-powered Healthcare Software as a Service



Provectus Telehealth™

Monthly subscription

•**Pricing**:

- •Equipment Cost: $299
- •Subscription cost: $29.99/month

•**Description**: Provectus Telehealth leverages AI to monitor volatile organic compounds (VOCs) in breath, providing telehealth companies with continuous health monitoring and early disease diagnostics. This service empowers proactive healthcare management, enhancing patient care and reducing healthcare costs.

Provectus Canary™

Monthly subscription

•**Pricing**:

- •Equipment cost: Canary Pro: $499,
  Canary Mini $129
- •Subscription cost: Canary Pro: $150/month
  Canary Mini: $60/Month

•**Description**: Provectus Canary software is tailored for hospitals and nursing homes, offering real-time monitoring for hospital-acquired infections (HAIs) such as C-Diff and MRSA. By preventing the spread of infections, this service helps lower the cost of care and protects both patients and healthcare facilities.

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Airborne Infectious Disease Detection Competitive Landscape

Sartorius MD8 Airscan: Measures environmental/ microbial air monitoring for cleanrooms, hospitals, and sterile manufacturing. Actively samples airborne viruses, bacteria, yeast, and fungi. Provides real time alerts. Require changing filters every 8 hours.

Device cost: $14,060
Monthly Filter cost: $250

BioSpot-GEM Bioaerosol Sampler: Collects airborne pathogens for testing and analysis. Does not provide real time monitoring but requires lab analysis by a professional IAQ tech. Requires filter changes every 8 hours.

Device cost: $13,090
Monthly Filter cost: $360

Sensio Air Particle Detector: Measures and tracks mold, pet dander, pollen, and dust mites. They are working toward detecting bacterial infections and viral pathogens. Uses spectrum analysis to identify particle sizes. Tracking of Bacteria and Viruses is in development.

Device cost: $890
Monthly Subscription: $74.17/Mo

HibouAir Indoor air quality sensors: Measures and tracks total VOC count, CO2, pressure, temperature, humidity, and noise. Does not detect bacterial or viral infection.

Device cost: $169
Monthly Subscription: $33/Mo

Device Comparison	Bacterial Infection	Fungal Infection	Viral Infection	Total VOC	CO2 Monitor	Temperature	Humidity	Pressure	Particulate Matter	Device Cost	Monthly Cost
Provectus Canary Pro	X	X	X	X	X	X	X	X		$499	$150
MD8	X	X	X							$14,060	$250
BioSpot-GEM	X	X	X							$13,090	$360
Sensio Air	X		X						X	$890	$74.17
HibouAir				X	X	X	X	X	X	$169	$33

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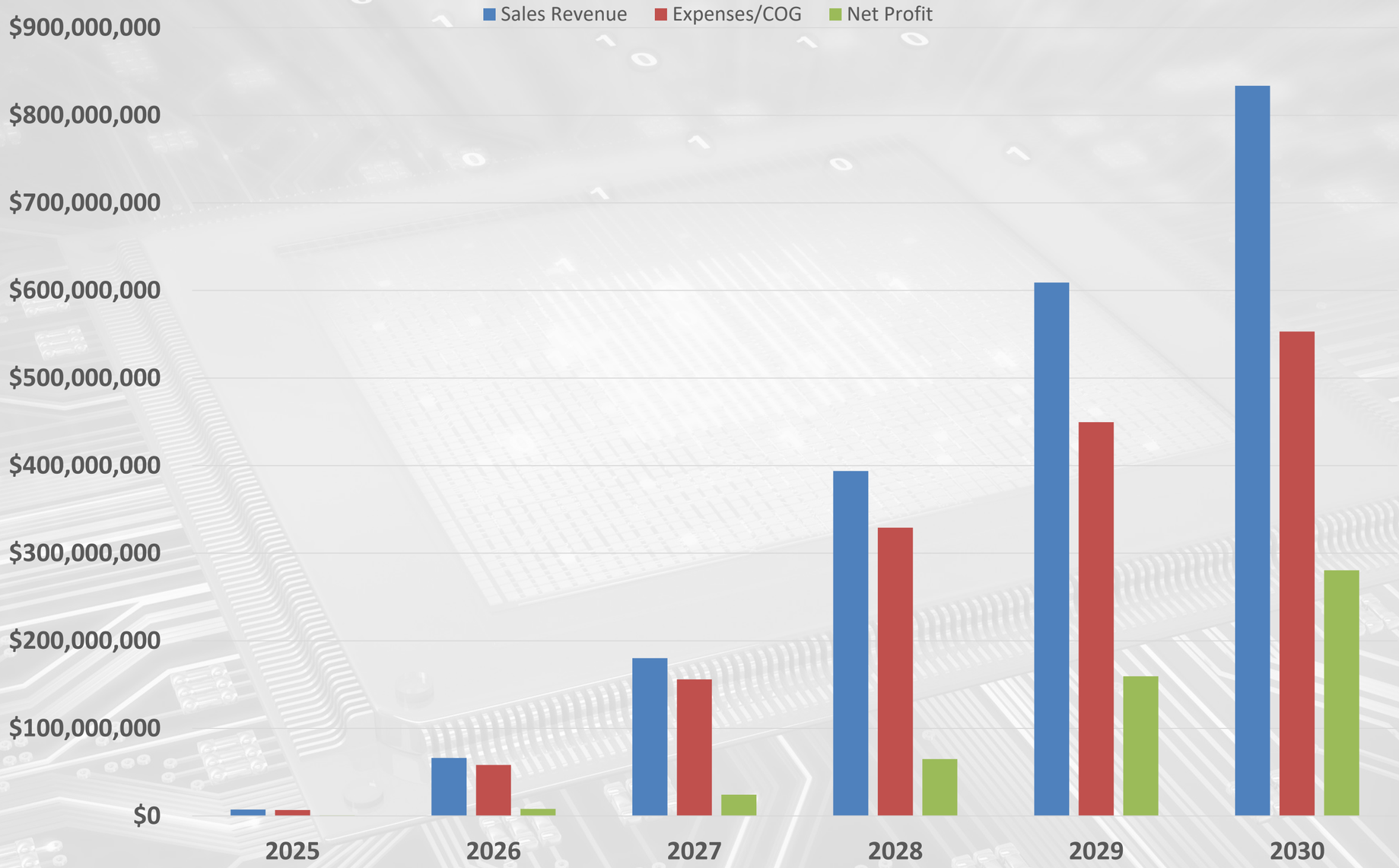
Global Revenue Forecast

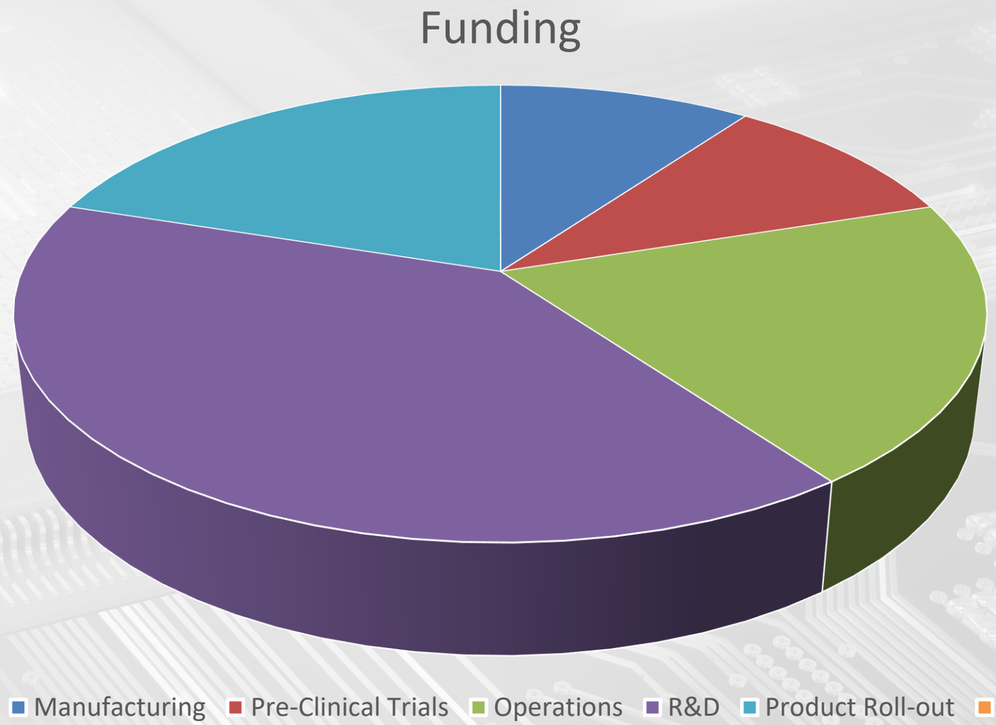


* This pitch deck contains forward-looking financials that involve several risks and uncertainties. Actual results could materially differ from those anticipated.

The ask: We are seeking a total of $10,000,000 during our seed round in exchange for 10% equity ownership in Simpli-Fi or a convertible note bearing interest with a discounted conversion within 12 months.

Use of Funds:

- **Continued R&D- 40%: We have completed the beta prototype design and are now moving into testing and validation.**
- **Pre-Clinical trials- 10%: We are self-funding our pre-clinical trials with the Veterans Administration and Mayo Clinic.**
- **Manufacturing tooling and setup- 10%: we are setting up our manufacturing facility in St. Paul MN with $1.2m in funding assistance from the Department of Employment and Economic Development (DEED).**
- **Operations- 20%: We are moving into the commercialization phase and need to fund operations.**
- **Marketing/Product Rollout- 20%: We are releasing our line of Provectus Products in Q3 2025.**



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Milestones

2018
- Company formation
- Early concept and technology design

2019
Company milestone: 100 commercial automation engineering contractions

2020
- Pandemic Disruption
- Released 90% of staff and all contracts cancelled, not in-progress

2021
"Friends and Family" Funding of $100,000 Jan 22 (Brown Venture Group)

2022
- NASA Technology Partnership-Research License Executed
- Provisional Patent filed
- Alpha Prototype completed

2023
- Pre-Seed Round Funding of $450,000 (Brown Venture Group)
- Device Hardware Engineering and Development Completed
- Sensor Production-initial run of 1000 sensors

2024
- Provectus Sport Beta Prototype
- Provectus Canary Beta Prototype

2025
- $10M SEED round
- FDA registration for Provectus Telehealth
- FDA 510k submission for Provectus Canary
- Clinical trials for Provectus Canary and Sport

2026
Full Market Release of Provectus Telehealth

- Veterans Health Administration Pilot (Canary)-April 2025
- Veterans Health Administration Live Demo (Provectus Telehealth) May 2025
- FDA registration class 1 for Provectus Canary-June 2025

- Veterans Health Administration Trial (Provectus Telehealth)-June 2025
- FDA registration (Class 1 exempt) for Provectus Telehealth- August 2025
- Market Roll out for Provectus Canary-August 2025
- Market Rollout of Provectus Telehealth-Sept 2025

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*This slide contains future projections which are not guaranteed

Thank You!

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