



Restoring Sensation. Preventing Amputation.



Every 30 Seconds, a Person with Diabetes Loses a Limb

- Up to 50% of people with diabetes develop foot neuropathy – often without realizing it
- Diabetic foot complications cost billions annually

Current Methods of Ulcer Prevention...

- Fail to detect damage early
- Rely on frequent checkups and expensive treatment



NeuroSole

Solves the issue of undetected foot pressure and tissue damage in people with diabetic neuropathy using a 4-part solution



Sensor Network

Embedded pressure, temperature, and moisture sensors

Edge Computing

Processes sensor data locally within the device for immediate detection

Recurrent Neural Network (RNN) Engine

Analyzes trends over time using AI to identify developing risk before injury occurs

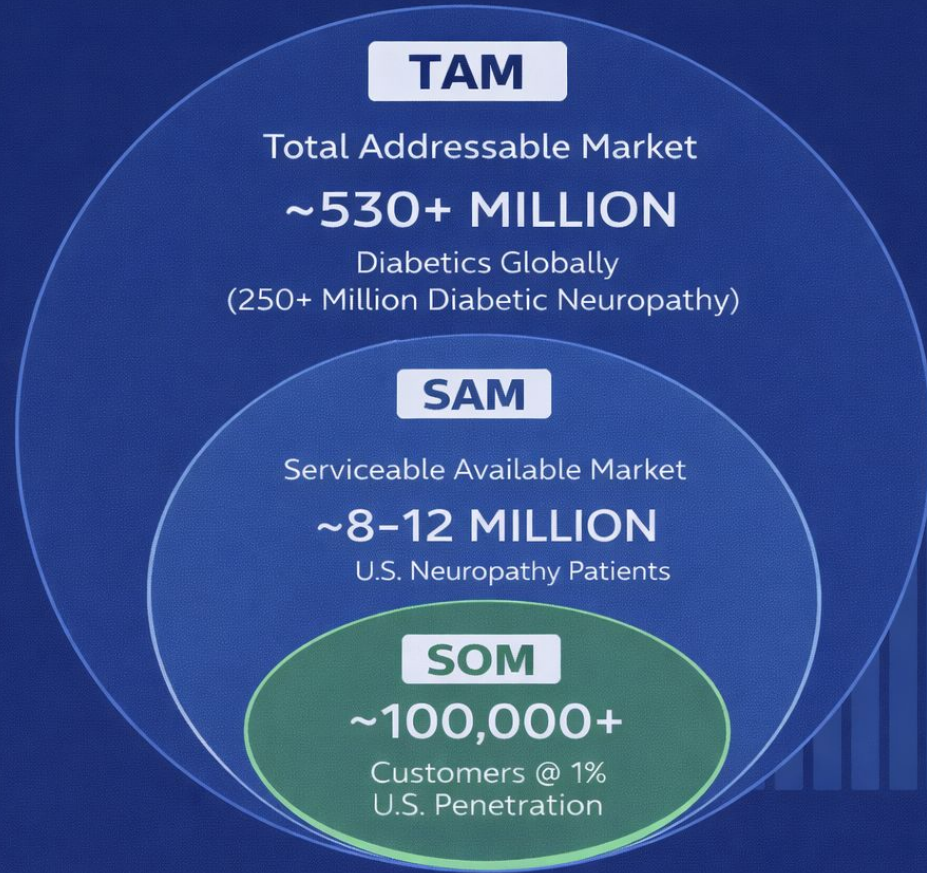
Predictive Analytics

Transforms raw data into early-warning insights, prompting behavior changes to prevent ulcers.

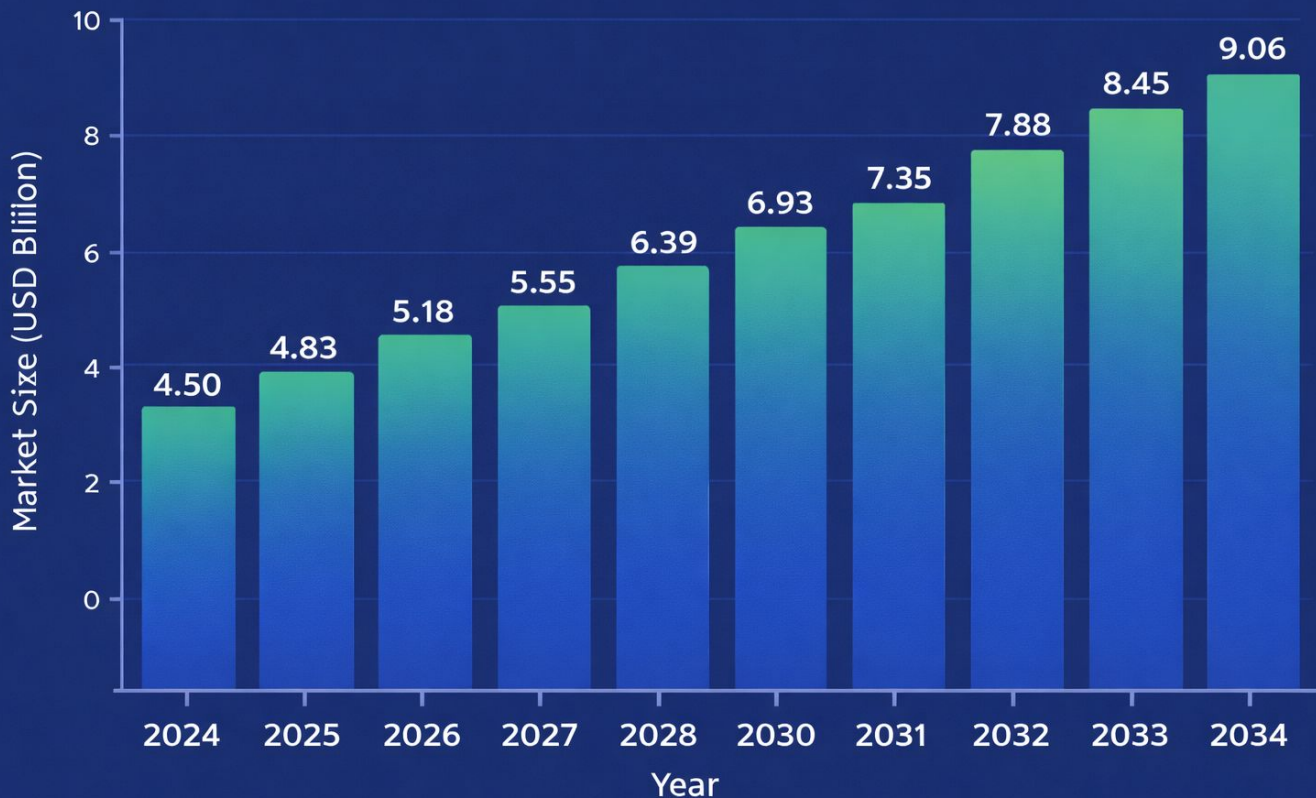
Market Segmentation

Our **potential cost** to enter the market would be approximately

\$1.5 - \$3 Million



Diabetic Neuropathy Market Size (2024-2034)



Clinical Trial Results

Over 80% of high-pressure alerts

resulted in users shifting their weight within seconds.

Prolonged high-pressure exposure time decreased by 35%

during monitored walking sessions,

High-risk pressure zones were accurately detected in 92%

of walking trials

Long-Term Roadmap



Cost Structure

Our **total cost** to create the product is around \$35 - \$50

Component Cost Breakdown

Estimated Cost per Unit

Component	Estimated Cost
TPU 3D-Printed Insole Base	\$8-12
Pressure Sensors (3-5 FSRs)	\$5-8
Temperature Sensor	\$2-3
Moisture Sensor	\$1-2
Microcontroller (ESP32/Nano)	\$6-8
Rechargeable Battery	\$4-6
Wiring + PCB	\$4-6
Electronics Housing	\$3-5

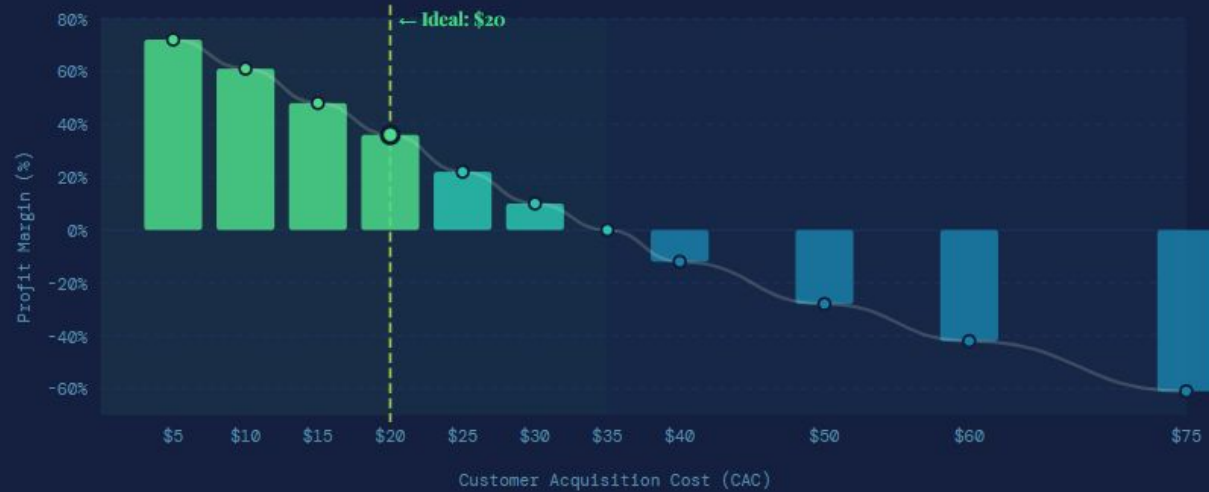
CAC Profitability Analysis

CUSTOMER ACQUISITION COST VS. MARGIN SCENARIO

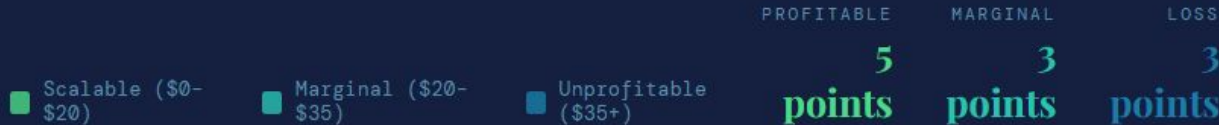
TARGET CAC

\$20

Ideal threshold for scalable growth

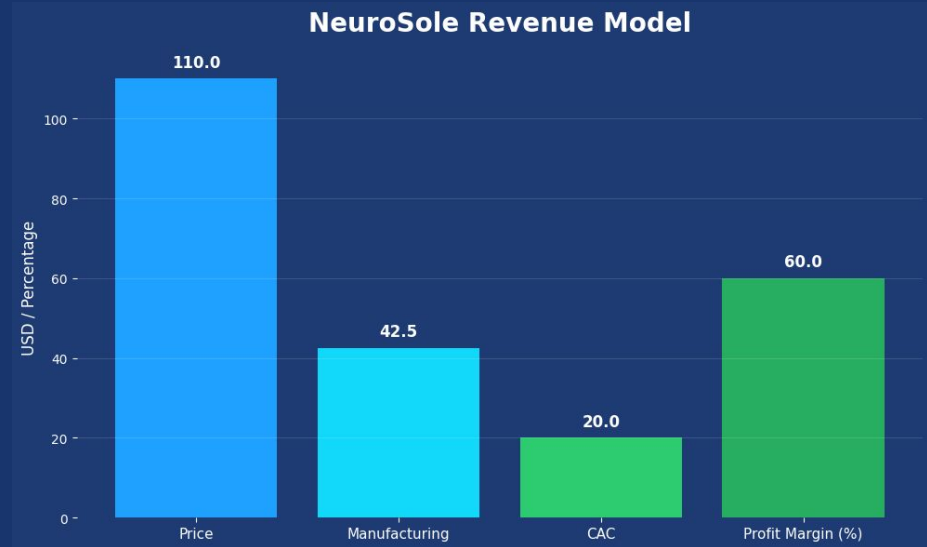


CAC: \$20 to ensure we make enough profit to scale



Revenue Model Breakdown

- Pricing for **Neurosole** - > \$80-\$140
- Profit Margin - 55% - 65%
- Manufacturing Costs
- -> \$35 - \$50
- CAC Costs - 20\$ per consumer



Market Competition

Unique Value

Proposition - Preventive Consumer Health Model

Competition -

- Passive Insoles
- Smart wearables
- Pressure-Offloading & Therapeutic Footwear

Unique Value: Preventive Consumer Health Model

	NeuroSole	Passive Insoles	Smart Wearables	Offloading Footwear
Real-time pressure monitoring	✓	×	×	×
Ulcer risk prediction (RNN)	✓	×	×	×
Temperature + moisture sensing	✓	×	×	×
Gait/motion tracking	✓	×	✓	×
Preventive alerts (vibration/app)	✓	×	×	×
Comfort + wearability	✓	✓	✓	×
Affordability	✓	✓	×	×
Requires medical supervision	×	×	✓	✓

"I have seen diabetic foot complications for **several years**, and the most difficult cases are the ones that could have been prevented with earlier intervention. NeuroSole addresses **a real gap** in care by providing **continuous pressure** and **temperature monitoring** in a practical, wearable form. Instead of reacting to ulcers after they develop, this system helps identify **harmful stress patterns** before they escalate. That shift toward **real-time prevention** is exactly where diabetic foot care needs to move. **I fully support** the development and clinical use of this product."

Dr. Sushant Niramohi

Orthopedic Surgeon @ Maharaja Agrasen Medical College & Hospital

Meet the Team



Prithvi Chakraborty
Head of Biomedical
Research and Health
Services



Shivank Murthy
Head of Software
and Embedded
Systems



Siddharth Gattu
Head of Marketing,
Partnerships, and
Outreach



Abhinav Mehta
Head of Product
Engineering and
Prototyping

STAND WITH US

Because No One Should Lose a Limb
to Something We Can Prevent.