

TECHINU

MPIT: SMARTER SENSING, HEALTHIER
LIVING



Problem

Type 2 diabetes affects
over 10% of adults in
North America



Ryan's Story

Ryan; TechInu's co-founder and CEO, has been living with type 2 diabetes for decades now...but his struggles are shared by millions around the world.



**BUT! THERE IS CURRENTLY NO FDA -
APPROVED WEARABLE DEVICE
AVAILABLE FOR NON-INVASIVE
GLUCOSE MONITORING (NIGM)!**

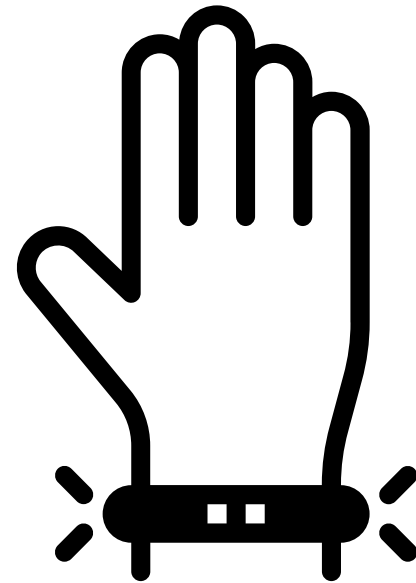


Enter TechInu: We aim to create an AI-powered chipset to achieve NIGM using Multi-Point Imaging Technology (MPIT)

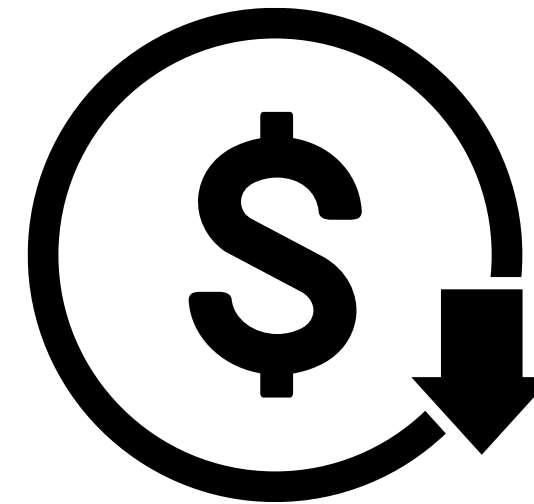


TechInu: Value Propositions

Non-Invasive



Cost-Friendly



**One-time invest
for lifelong use**

**Changing the
Landscape**

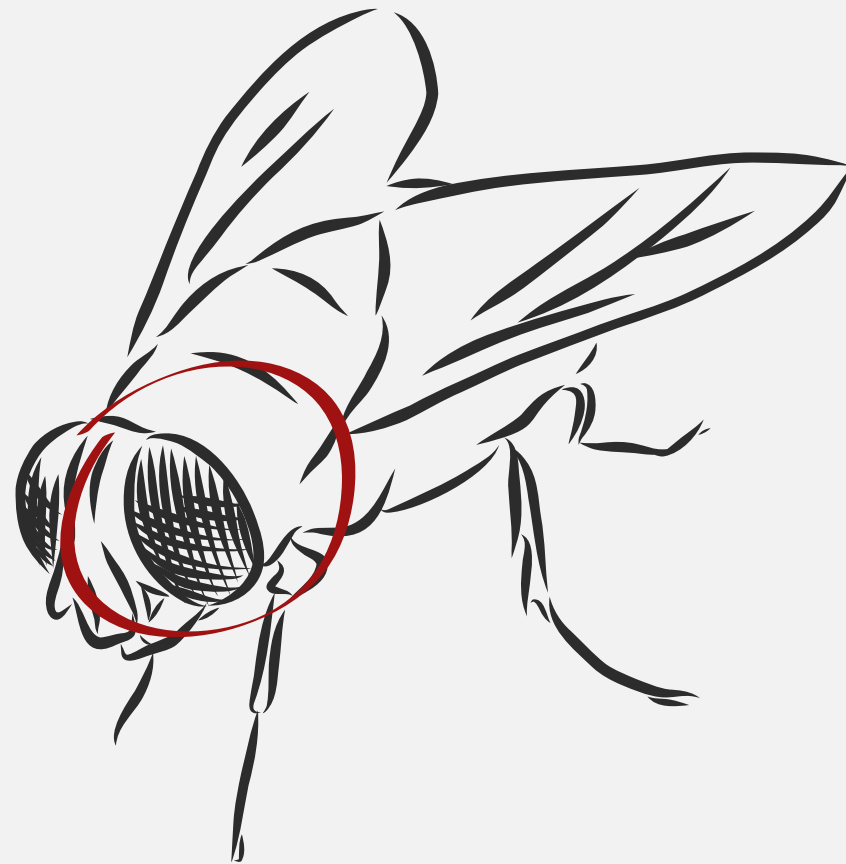


Innovative



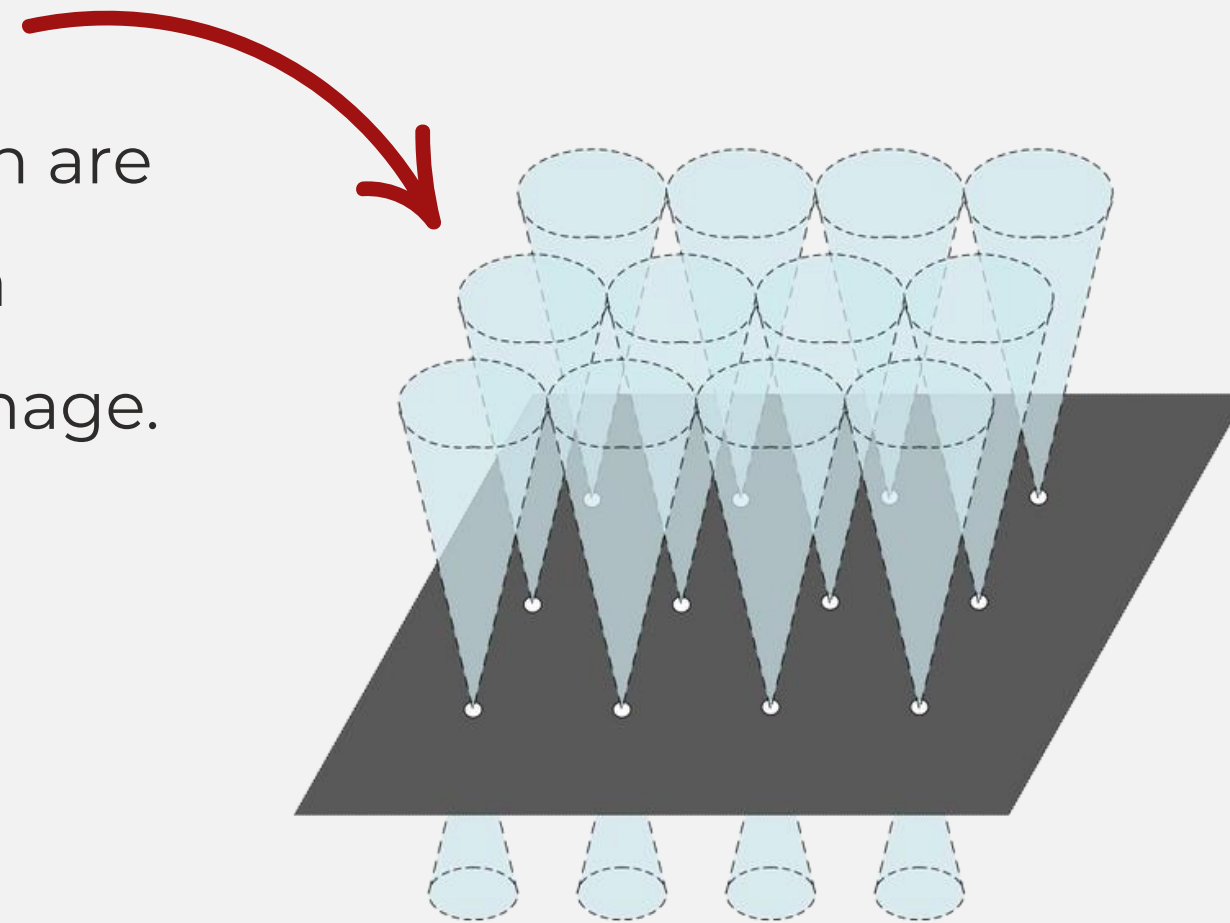
Proactive

Solution Overview: Multi-Point Imaging Technology



What is MPIT?

Imagine a fly's eye: it gets a mosaic of smaller image fragments which are combined into a larger, clearer image.



Now imagine this same concept being used for multi-point imaging!

MPIT and TechInu

- ✓ • MPIT was invented by Dr. Lucas Wang, our CTO, and was patented in several countries.
- ✓ • Previously, Dr. Lucas Wang cooperated with many screen and mobile phone manufacturers, where MPIT was used for fingerprint collection on OLED screens.
- ✓ • MPIT has won the MWC Best Hardware Award before.

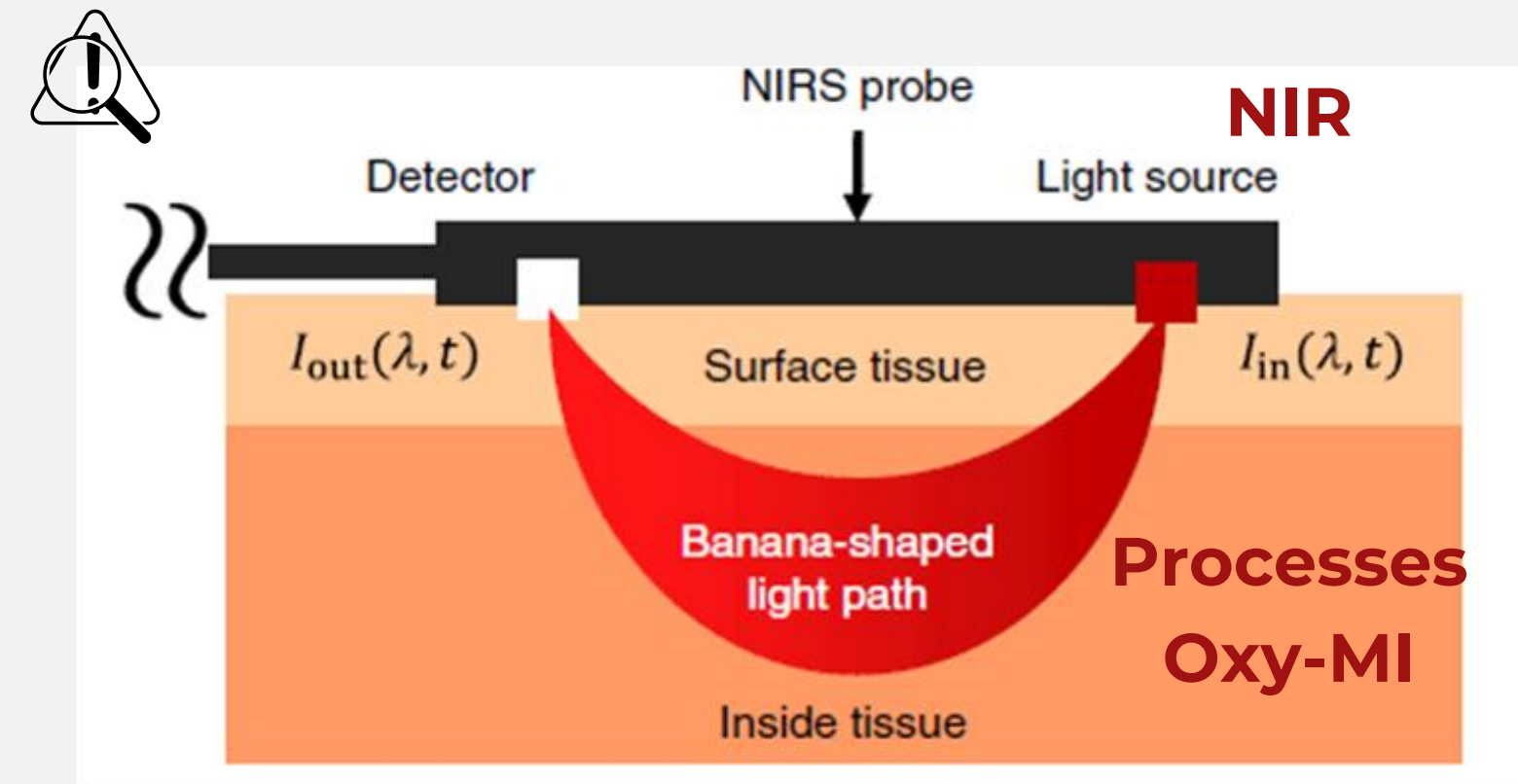
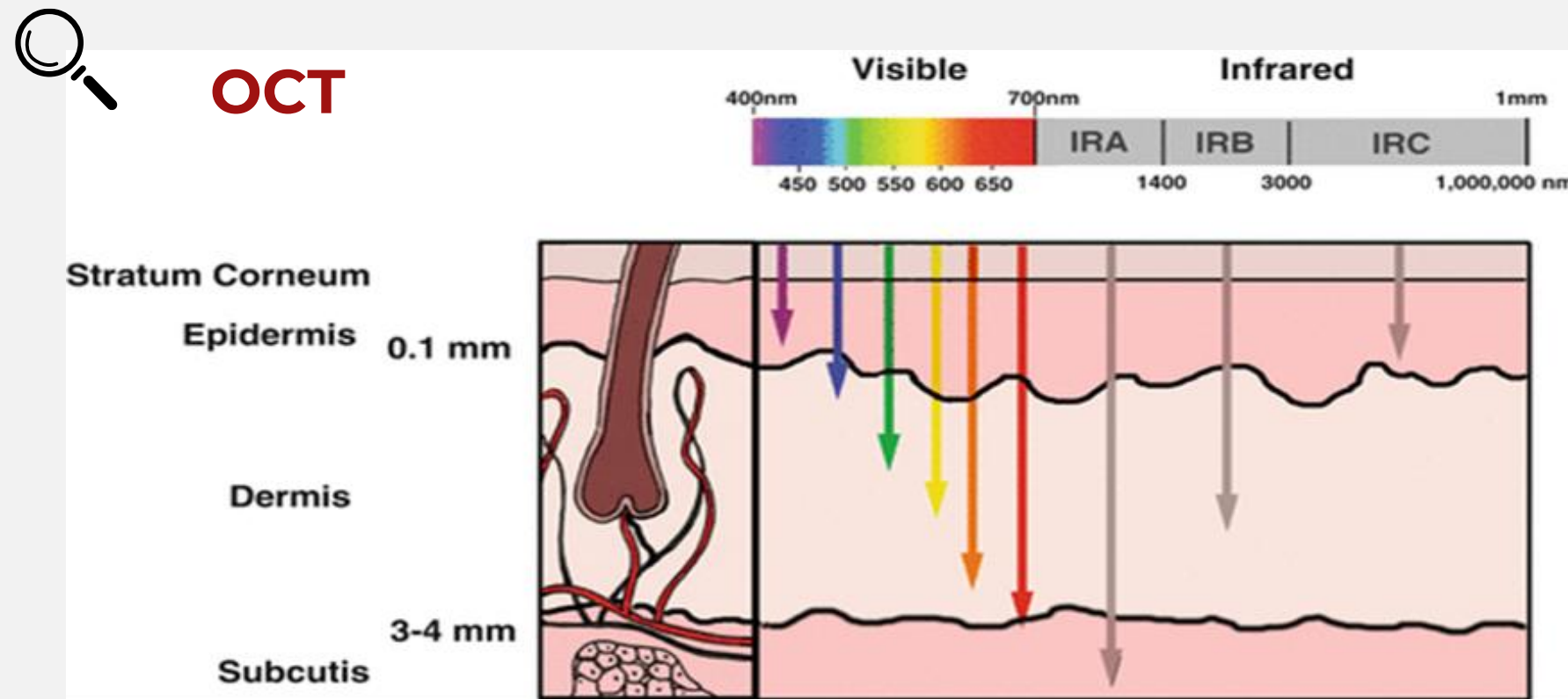
We are now exploring the potential of MPIT in medical industry through TechInu!

MPIT Technical Specifications



MPIT biosensor technical specification		
Module Size	15mm*15mm*1mm	Ultra-thin and compact
Imaging Area	6mm*6mm	
Imaging Depth	0~3mm	
Resolution (PPI: Pixels Per Inch)	When the depth is 0mm, resolution is ≥ 500 PPI	
Expected Price	20USD	Affordable for wearable devices
Measurable Medical Indicators & Accuracy Goals for Prototype Trials	<ul style="list-style-type: none">Heart rate;Blood oxygen;Blood glucose level;Blood glucose metabolism rateBlood pressure (Planning)	TechInu NIGM accuracy goals: Phase 1: MARD<15%, CEG: Zone A + Zone B > 97%, Zone D + Zone E = 0 (acceptable for home use and non-emergency decision-making) Phase 2: MARD<10%, CEG: Zone A + Zone B > 99%, Zone D + Zone E = 0 (comparable to clinical measures)

Imaging Capabilities

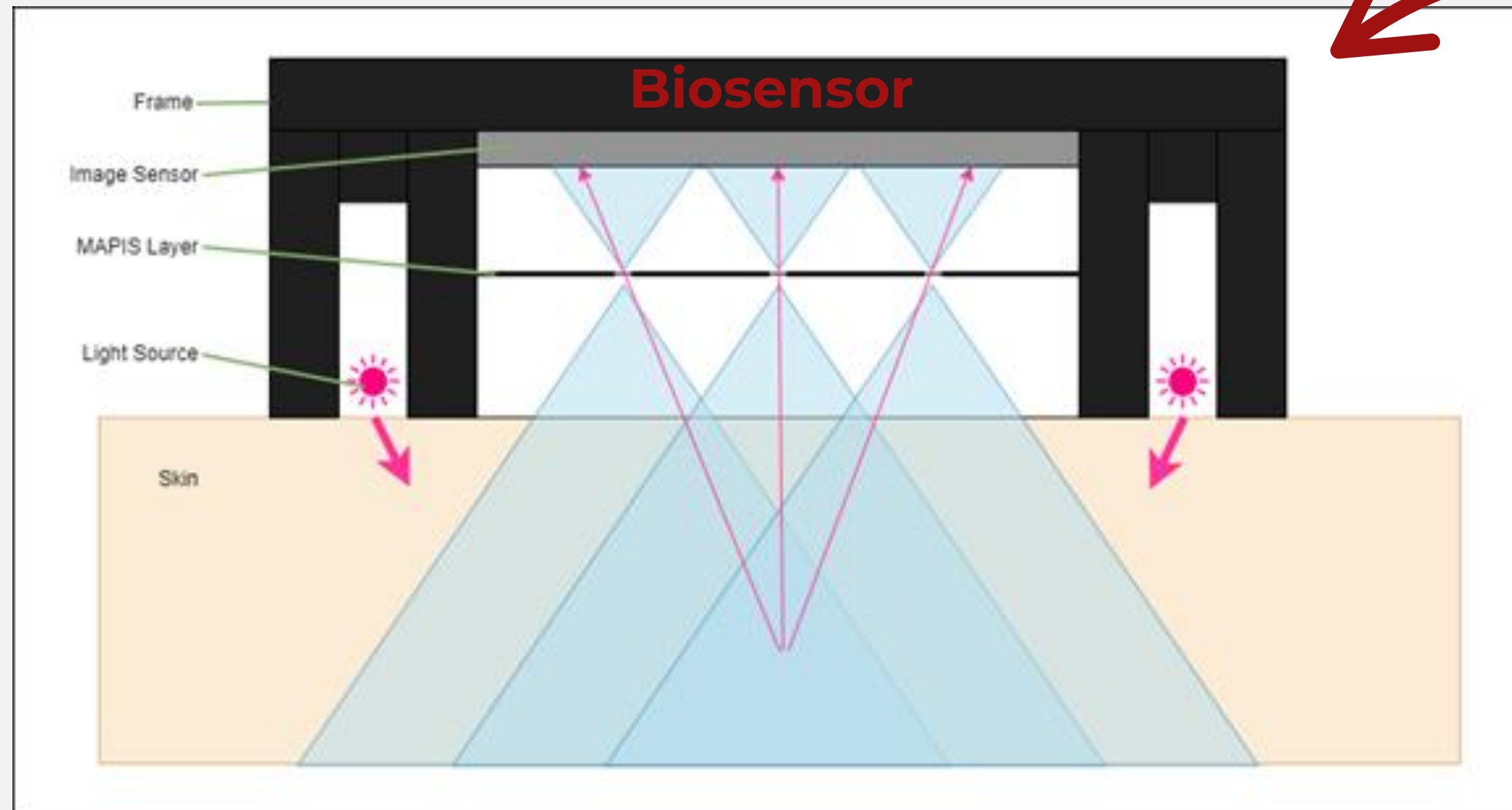


MAPIS Solution = OCT + NIR + Oxy-MI

Our MPIT chipset combines 2 optical techniques (OCT and NIR) which measures the Oxy-MI to track blood glucose changes!

- OCT (Optical Coherence Tomography) → Like ultrasound, but uses light instead of sound, see layers inside the body without cutting anything open.
- NIR (Near Infrared Spectroscopy) → Non-invasive, shines light and measures what comes back
- Oxy-MI (Oxygen Metabolic Index) → tracks the rate at which the body utilizes oxygen

MPIT Technical Specifications



A New Generation of Glucose Monitoring

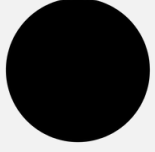
MPIT vs. Photoplethysmography (PPG; current standard)

PPG: 1 point measurement




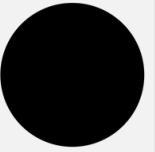
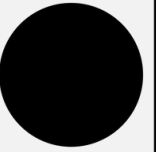
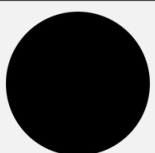
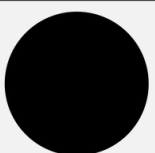
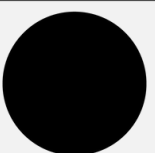
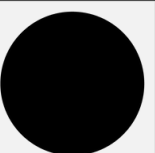
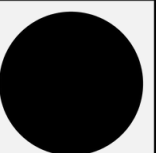
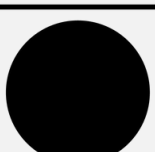
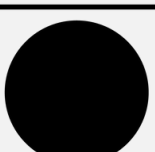
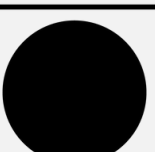
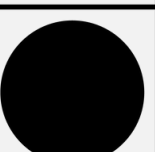
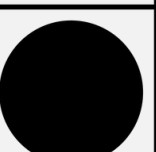
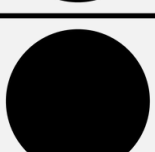
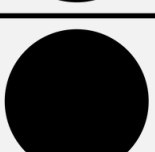
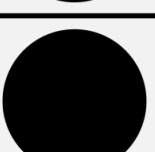
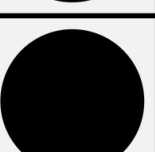
MPIT: images at different depths with image size 200*200 pixels (40,000 points)

- MPIT monitors medical indicators more accurately and comprehensively than PPG using 550nm + 650nm + 940nm light.
- MPIT can image at depths up to 3mm
- MPIT module size is 15mm*15mm*1mm in US\$20;

PPG: 1 point data collection

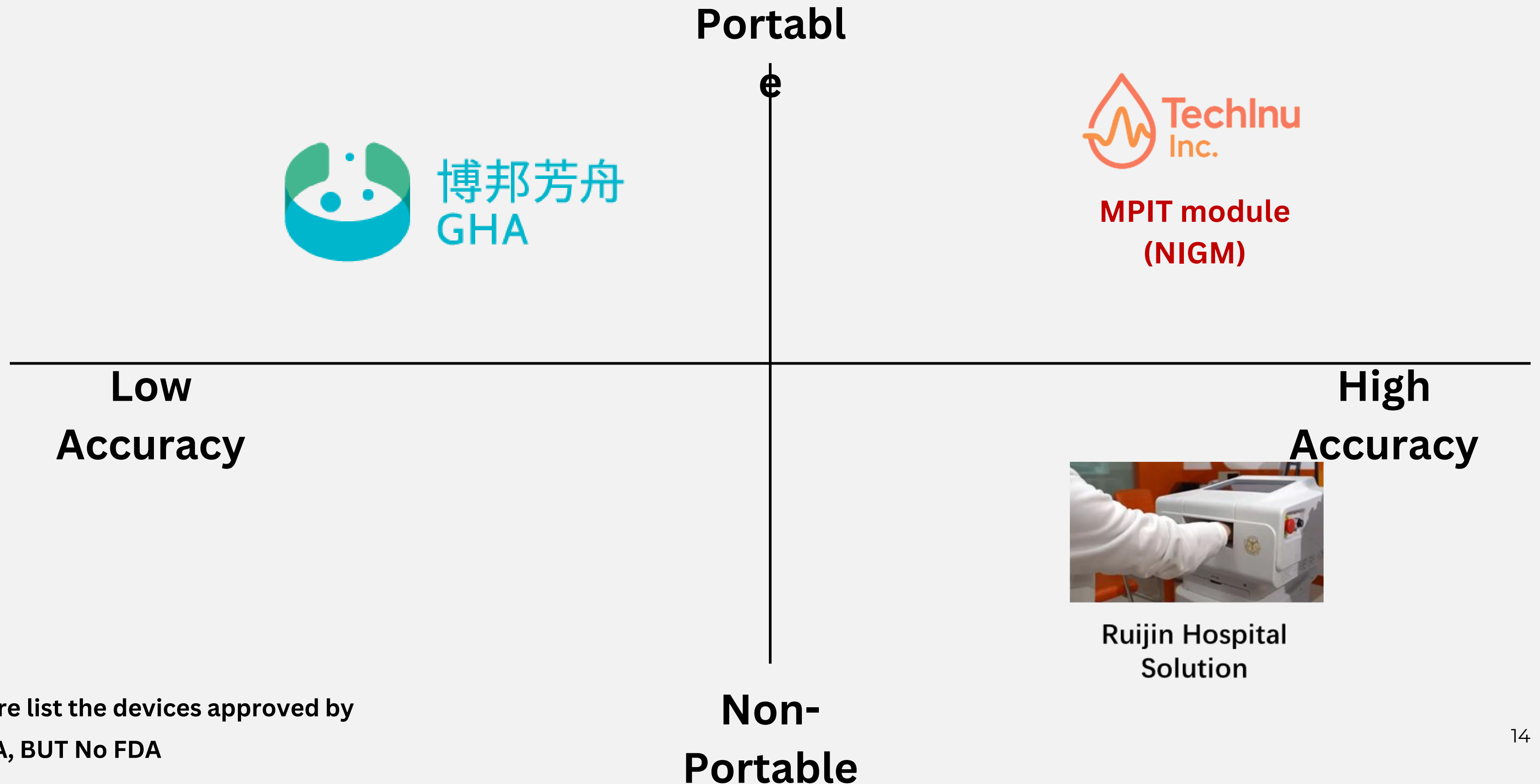
MPIT: Multi-point data collection

A New Generation of Glucose Monitoring


SMBG (Self-monitoring blood glucose)	CGM (Continuous glucose monitor)	TechInu
Without insurance For frequent testers (4x/day), \$300-\$1,200USD/year	Without Insurance Typical \$1,200 to \$3,600USD on average per year	One-time invest for lifelong use for \$200USD (Portable health monitor)

Competitor Analysis in NIGM



Competitor Analysis in NIGM



Company	Technical Path	Accuracy	In Market?	Portability
博邦芳舟 GHA	MHC (Metabolic Heat Conformation)	Low - Medium CEG (A+B): 94.4% MARD: 26.16% ± 16.25% (95% CI, 23.88-28.43)	Yes - In China since 2019	
Ruijin Hospital	Raman Spectroscopy	High CEG (A+B) = 99.4% MARD: 14.6%	Yes - In hospitals in Feb. 2025	
TechInu Inc.	OCT + NIR + Oxy-MI	TechInu R&D simulated accuracy (to be tested in Q4-2025): High CEG (A+B) = 99% MARD: 13.3%	Not yet - Currently finishing prototype dev.	



GHA Glucometer



Ruijin Hospital
Solution

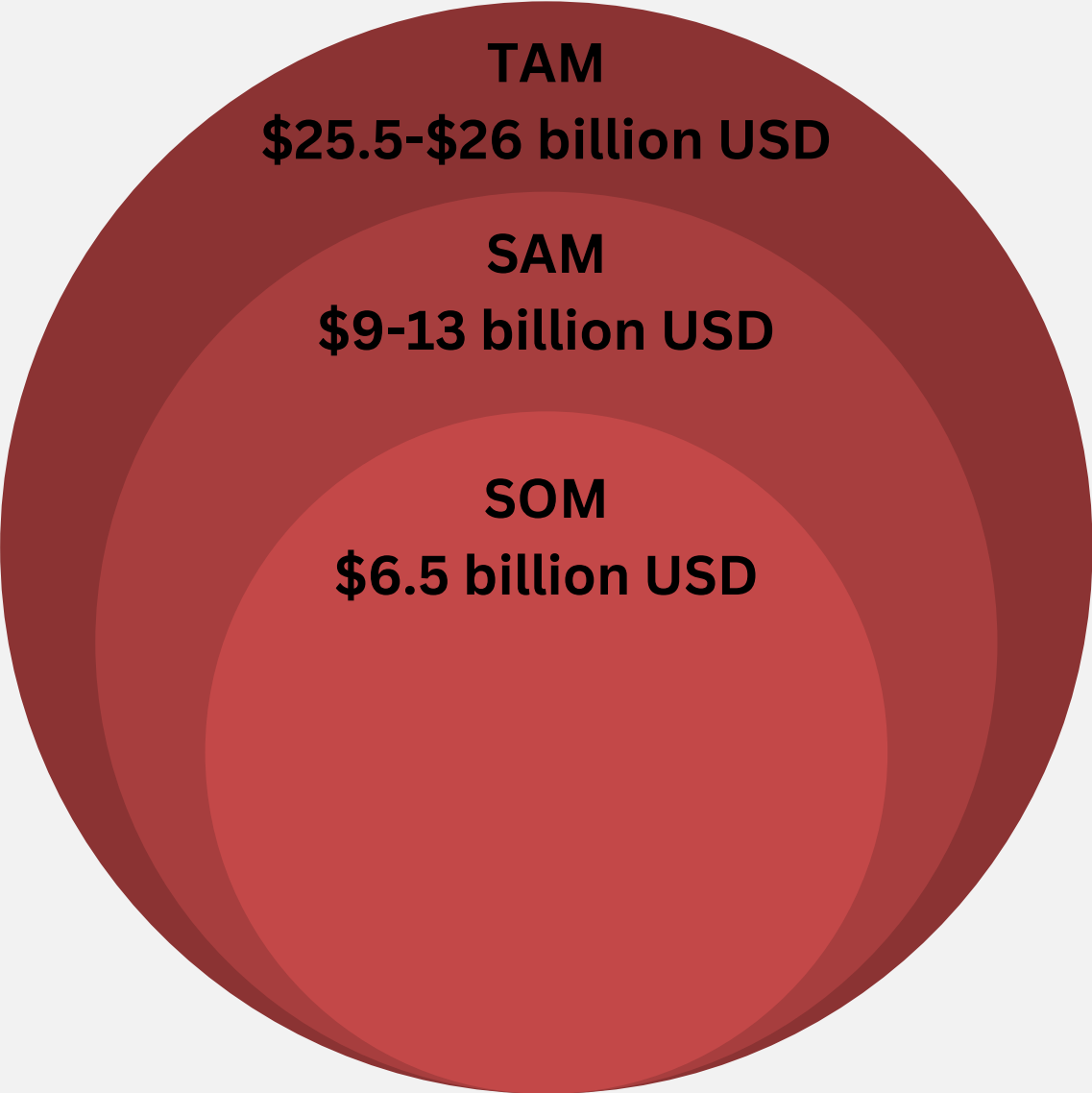


MAPIS Based NIGM

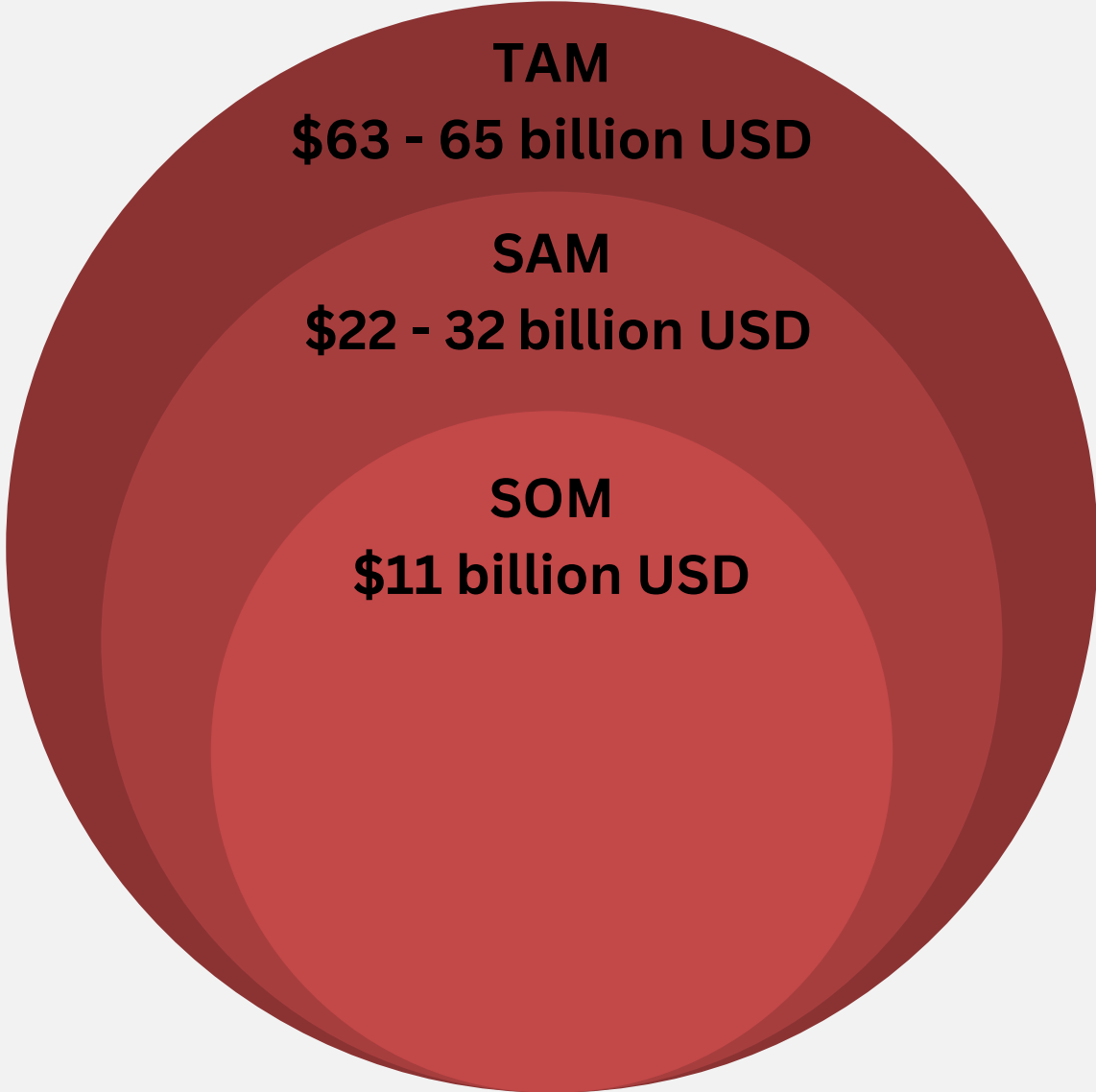
Market Size

*for wearable devices in the NA Region

Current Market (2024)



Projected Market in 2030 (with CAGR ~9%)



Sales Target:

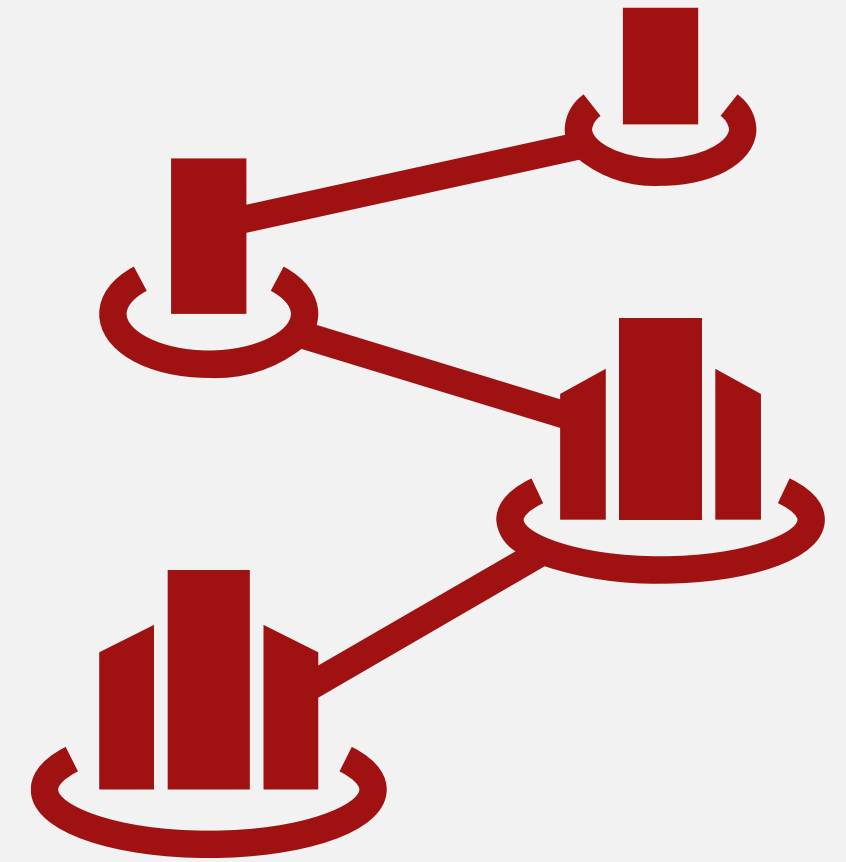
MPIT module:
5-7% market
penetration by
2030

*sources:
kenresearch.com
grandviewresearch.com

TAM: all wearables
SAM: health-tech wearables
SOM: diabetes-focused wearables

Business Model

- **B2B:**
 - MPIT module (chipset)
- **B2C:**
 - Portable health monitor
 - Health-tech Consultation Service (2028+)
 - Subscription service; provided using collected user data



TechInu

IP strategy

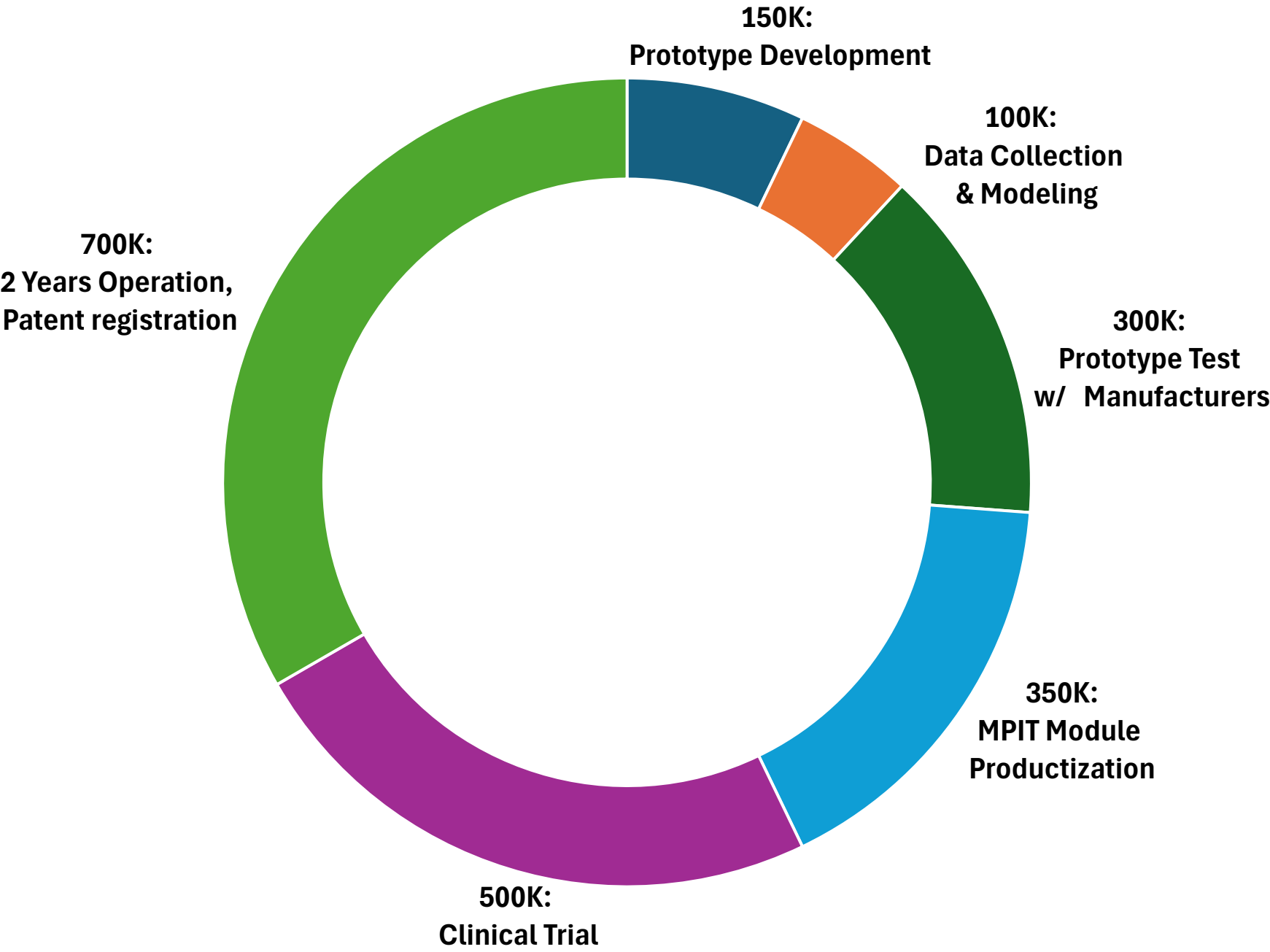
- MPIT technology is currently patented in the United States, China, Europe, Japan, and South Korea (for use in the mobile phone industry)
- Going forward, TechInu Inc. will own the new patents for employing MPIT within the medical industry (**)

** The patents include:

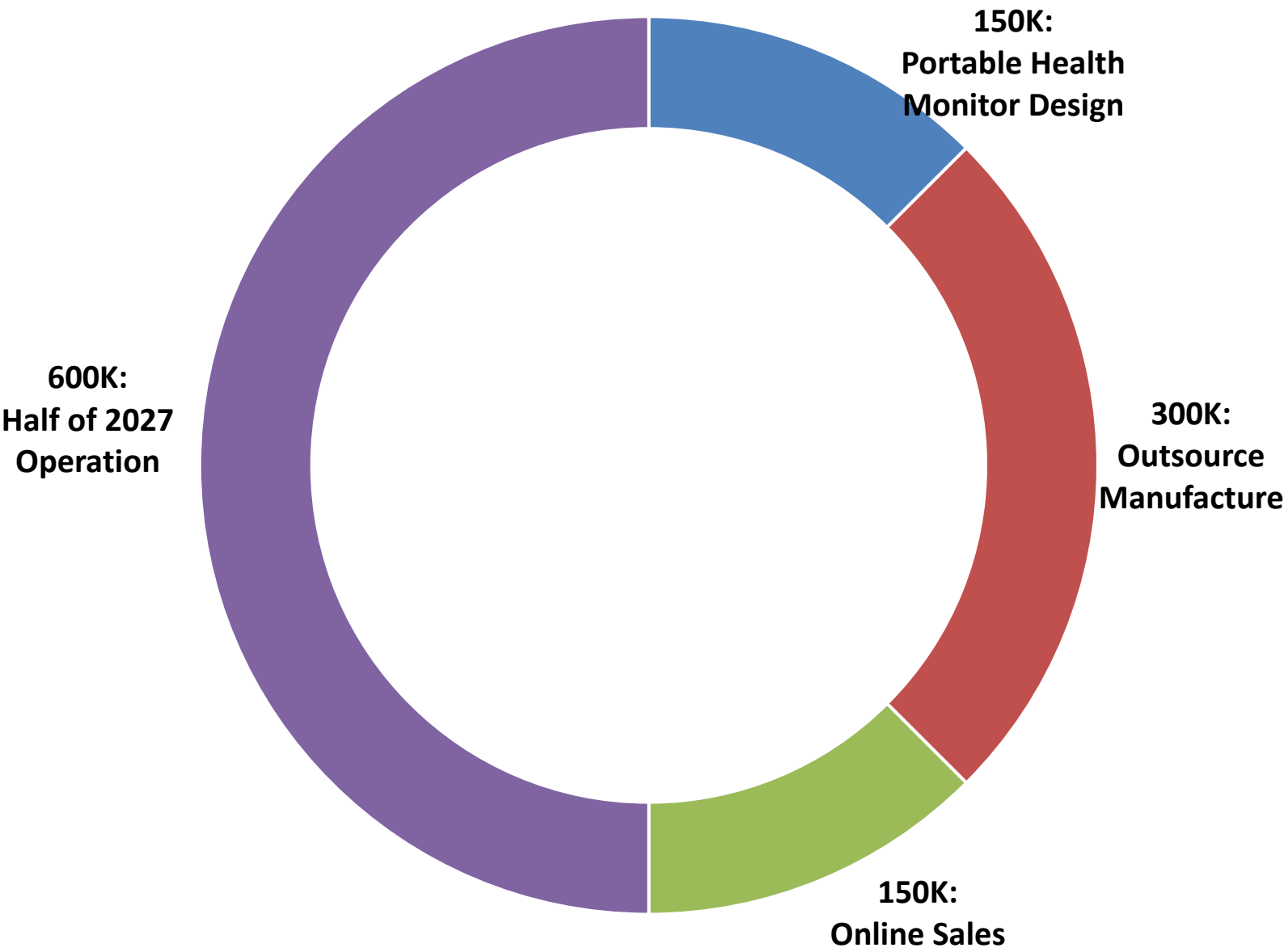
1. Sensor for Heart Rate, Blood Oxygen, and Blood Glucose Monitoring using MPIT Technology **(US Patent Pending)**
 2. Blood Glucose Level Detection Algorithm Based on Multi-Aperture Imaging, etc.
- **We are planning to file these patents in 2025 in Canada / USA / China**

2-Phase Fundraising Plan

PH1: 2.1MUSD



PH2: 1.2MUSD



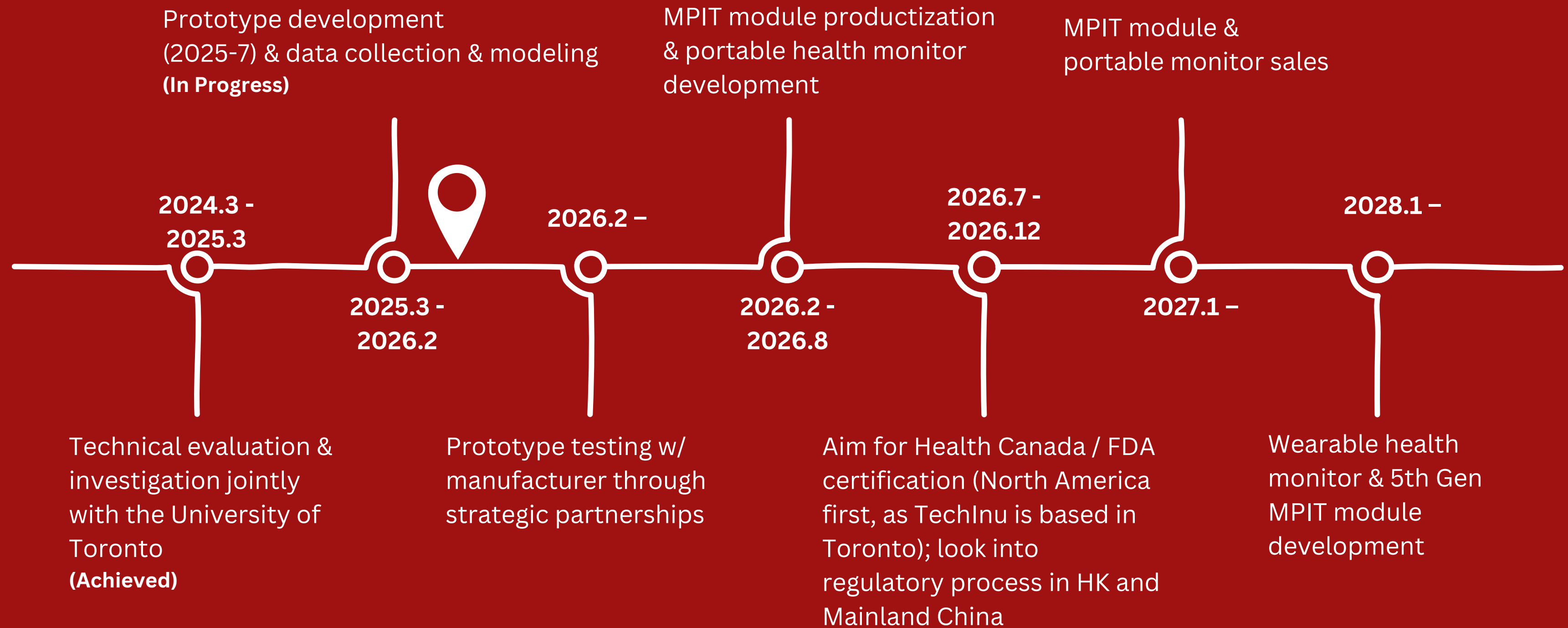
Revenue Plan

Revenue Plan										
		2025	2026	2027	2028	2029	2030	2031	2032	Sub-Total (2025-2032)
MPIT Module	Sales Forecast (pcs)				1,000,000	10,000,000	20,000,000	24,000,000	28,800,000	83,800,000
	Unit Price (USD) (5% Annual Erosion)				20	19	18	17	16	
	Annual Growth	Explosive growth in the first 3 years, stable 20% annual growth after.								
	Sub-Total (USD)		200,000	500,000	20,000,000	190,000,000	361,000,000	411,540,000	469,155,600	1,451,695,600
Portable Health Monitor	Sales Forecast (pcs)				12,000	15,600	20,280	26,364	34,273	108,517
	Unit Price (USD) (3% Annual Erosion)				200	194	188	183	177	
	Annual Growth	30%								
	Sub-Total (USD)				2,400,000.00	3,026,400.00	3,816,290.40	4,812,342.19	6,068,363.51	20,123,396.10
Operation Cost	2.5 Years (USD)	-470,000	-1,780,000	-1,050,000						
Total (USD)	Revenue (USD)	-470,000	-1,580,000	-550,000	22,400,000	193,026,400	364,816,290	416,352,342	475,223,964	1,471,818,996
	Annual Revenue Growth					762%	89%	14%	14%	
<div>Reference: 1. Apple watch: 40-50M pcs per year. 2. Global wearable devices sales for 2025: 590.7-614.1M pcs.</div> <div>Note: No healthcare manage service revenue included</div>										

Return on Invest

Return On Investment						
Year	2025	2026	2027	2028	2029	2030
Company Valuation (USD)	10,000,000	20,000,000	30,000,000	224,000,000	1,930,264,000	3,648,162,422
Investment (USD)	1,000,000					
Investment as a Percentage	10%					
Value of Investment (USD)		2,000,000	3,000,000	22,400,000	193,026,400	364,816,290
Investment Value Increase		100%	200%	2140%	19202.6%	36381.6%

5 Years Strategy Planning



Meet the Team



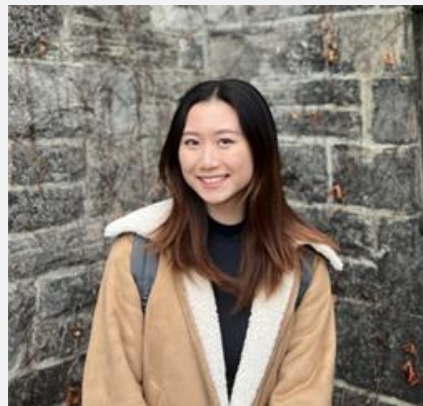
Ryan Jing (CEO, Co-Founder)

- Leading technology strategy and driving innovation to align with business goals
- **Northwestern Polytechnical University, Master in Electrical Engineering**



Dr. Lucas Wang (CTO, Co-Founder)

- MPIT inventor and developer; 80+ invention patents
- **Peking University, PhD in computer science**



Jasmine Jing (CMO, Co-Founder)

- Passionate young entrepreneur dedicated to shaping a better future through innovative technology.
- Undergraduate student researcher studying **life science at the University of Toronto**



Peter Sun (COO)

- Corporate sales and services management
- **University of International Business and Economics, Master in computer**

Advisors & Additional Support



- TechInu won 2nd place in Suzhou High-tech Zone pitch competition in Toronto in June-2025

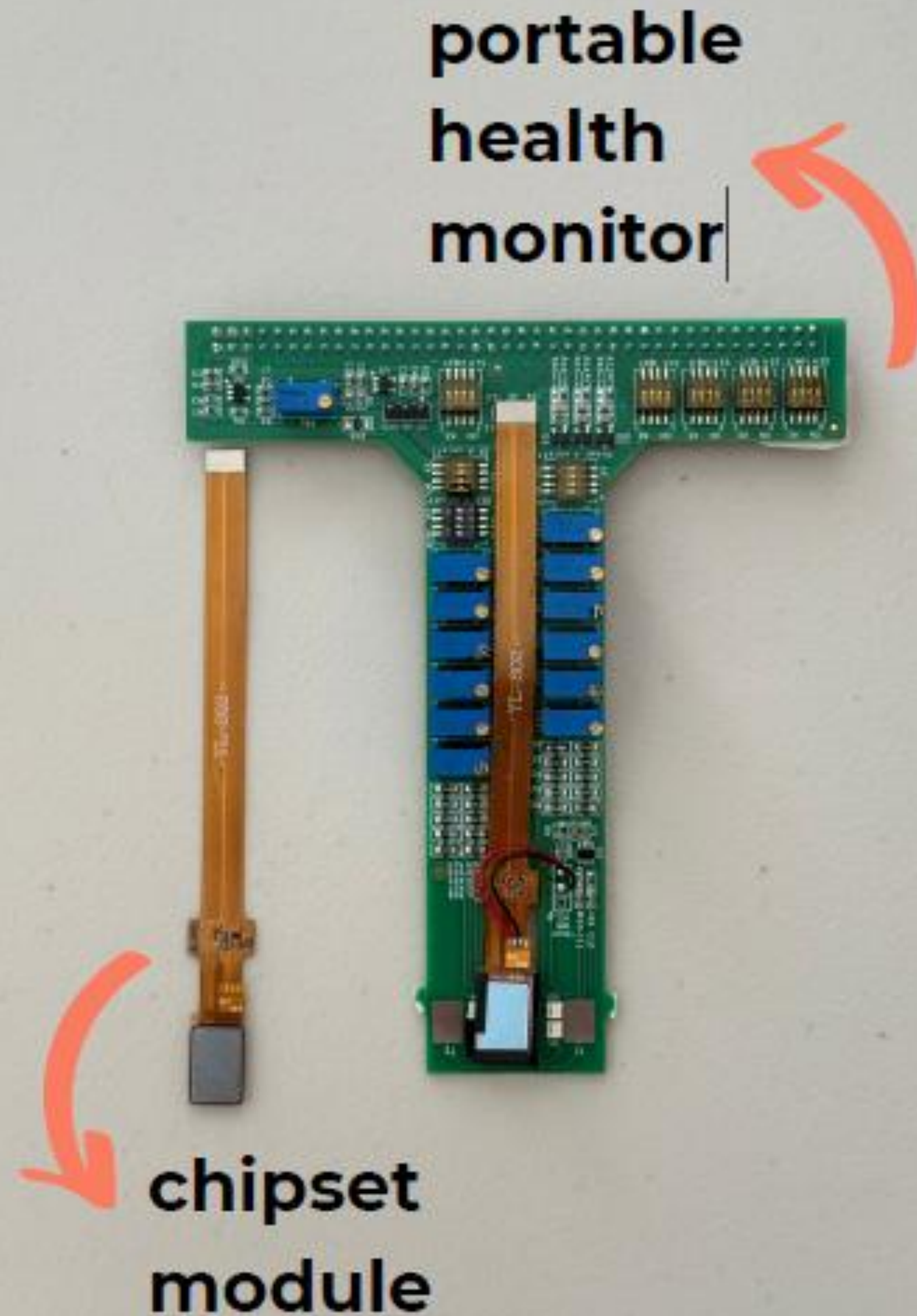


- University of Toronto
- Professors advised the technical feasibility of MPIT

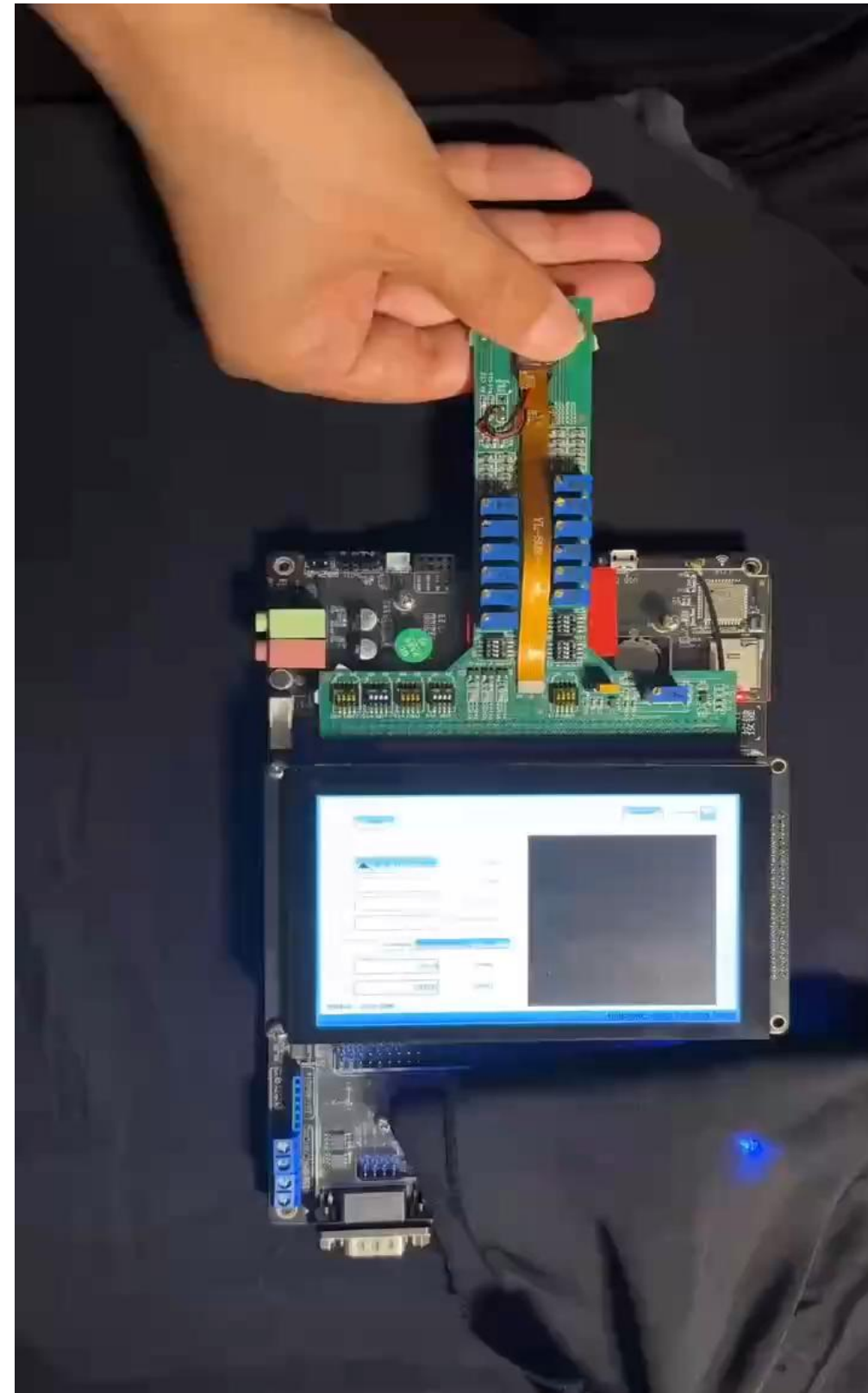


- University of Toronto Health Innovation Hub
- Advised the technical feasibility of MPIT

Prototype Dev. Update



NIGM Demo



Thank You!

TechInu Inc.



Ryan Jing



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<https://tech-inu.com/>

We look forward to engaging with
you and exploring opportunities for
collaboration!

SMBG vs. CGM vs. NIGM

