TACTIQUE

NUS National University of Singapore | Institute for Engineering Leadership, Faculty of Engineering

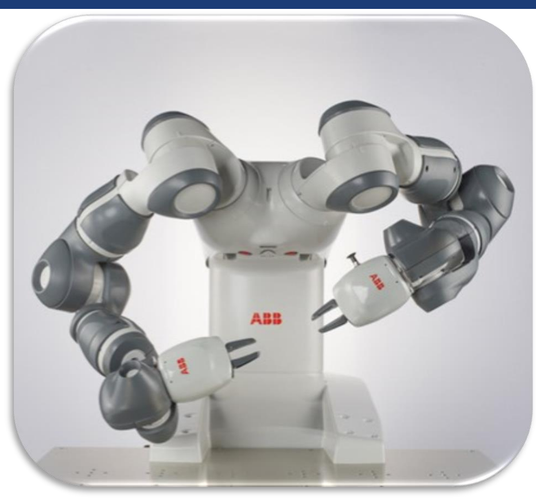
TECHNOLOGY DESCRIPTION

An ulta-thin flexible pressure sensor which is highly **sensitive to minute loads** and can detect pressure changes by resistance change in **milliseconds**. It is as **thin** as a human hair but can withstand in excess of a **million loading cycles** with a relevant wide temperature range.

PROBLEM

Industrial Robot has to be fixed and fenced up during operation

- Inhibits Human Robot Collaboration
- Not adaptable to rapid changing production line



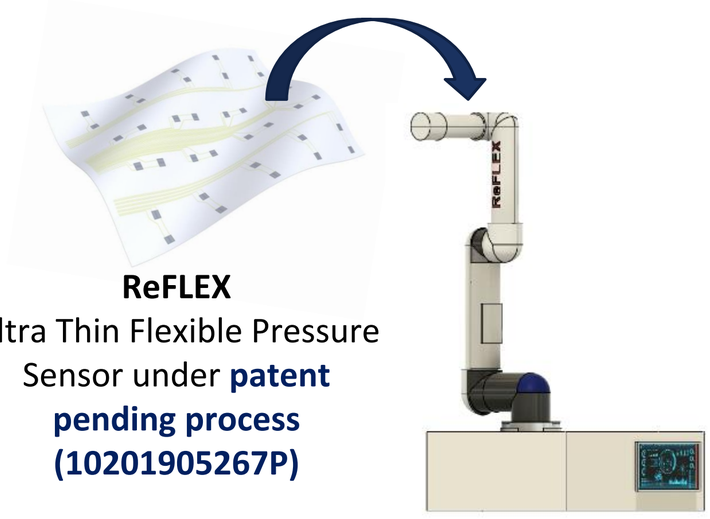
Collaborative Robots are inherently more expensive

SOLUTION

ReFLEX is a Sensor Skin, applies on Industrial Robot to achieve Collaborative Safety Certification

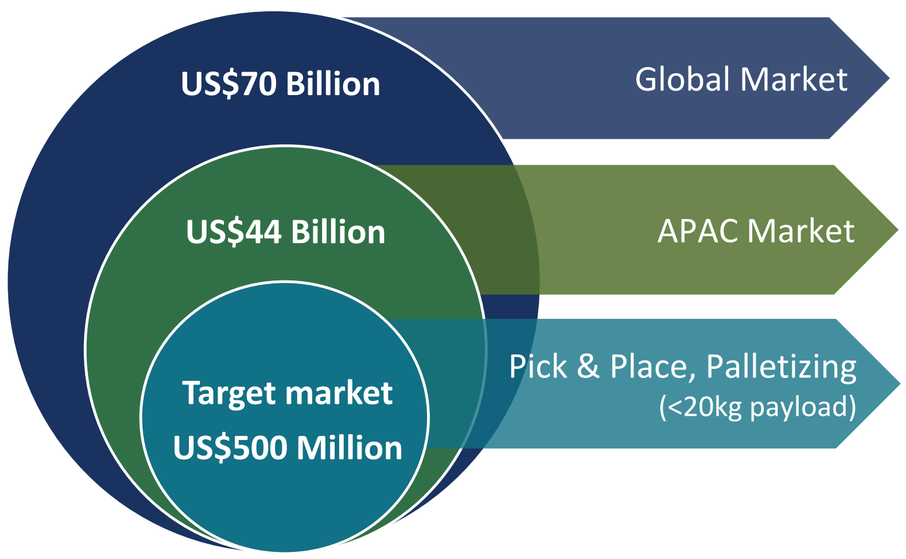
Key Features

1. Touch Responsive
2. Instant Respond
3. Easy implementation



ReFLEX
Ultra Thin Flexible Pressure Sensor under **patent pending process (10201905267P)**

MARKET SIZE



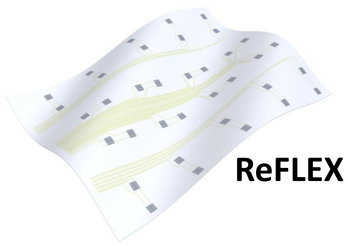
COMPETITORS

	TACTIQUE	BLUE DANUBE ROBOTICS	Mechavision
Price			
Ease of Implement	Conform to any surface	Module form	Module form
Response time	< 3ms	9ms	< 5ms

BUSINESS MODEL

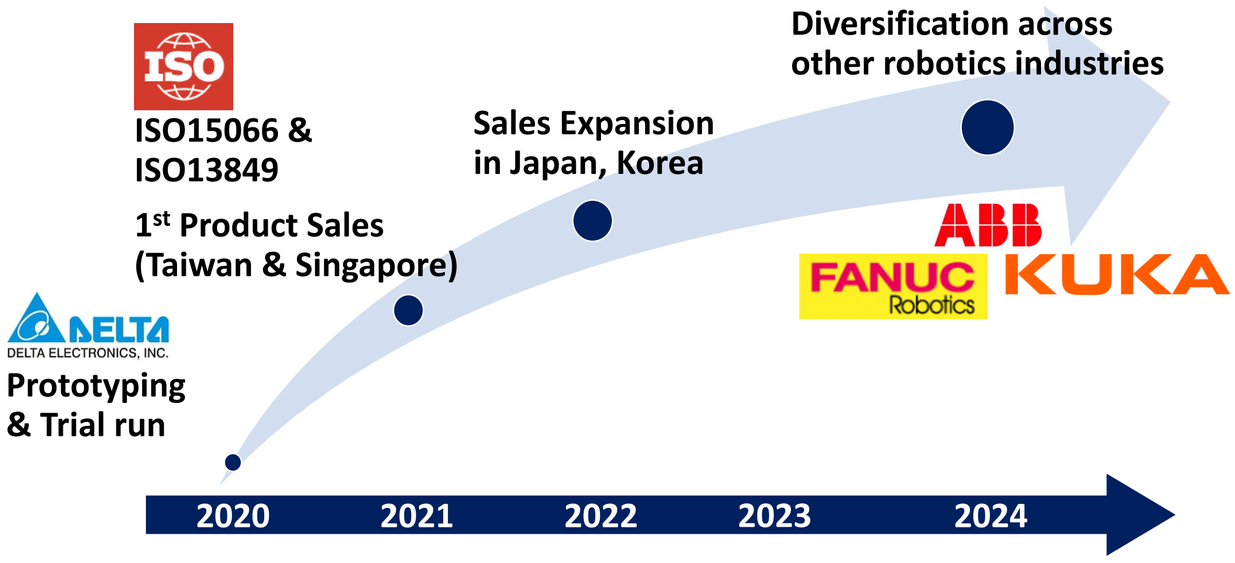
Selling ReFLEX @ US$900 per piece (A4 size)
Unit margin 75%

System level integration service @ US$70 per man hour

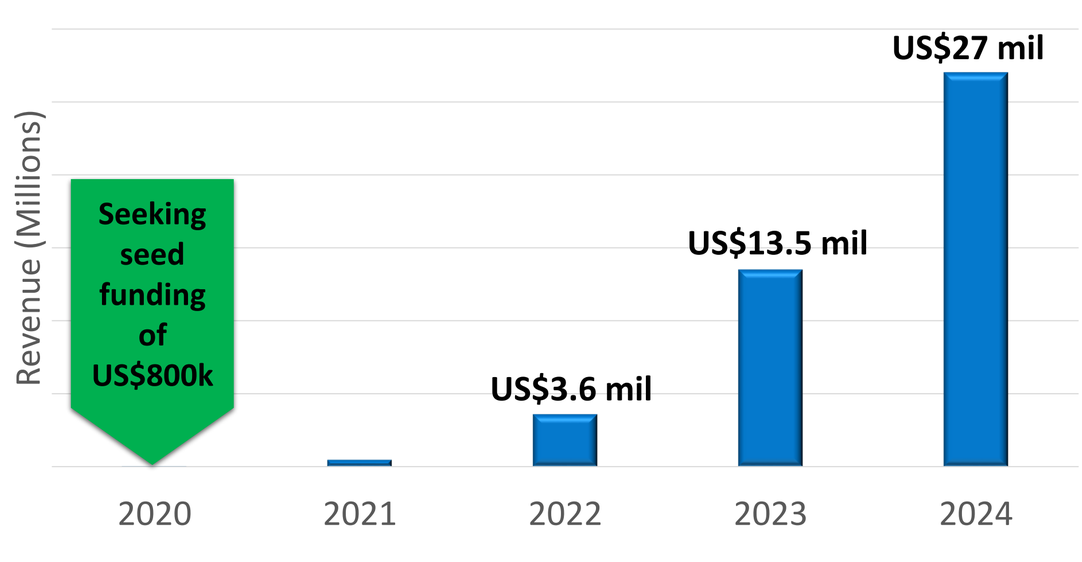


ReFLEX

BUSINESS DEVELOPMENT PLAN



PROJECTED REVENUE



OUR TEAM

Prof. Benjamin Tee (Principal Investigator)
- President's Assistant Professor
- Co-founder of Privi Medical
- Strong expertise in sensor materials, electronics, and flexible/stretchable electronics.

TEE Research Group

Hai Cheng (Tech Expert)
PhD Candidate, Sensor Tech

TEE Research Group

Tze Jie (Tech Launch)
PhD Candidate, Sustainability Engr

Yong Hao (Tech Launch)
PhD Candidate, Additive Mfg

Xin Wen (Tech Launch)
4.5 years R&D and Mfg Engr experiences

Helen (Tech Launch)
PhD Candidate, Chem Engr with 3 years Mfg experiences

For more information, please contact tacnique.sensors@gmail.com