Institute for Engineering Leadership EAHealthcare College of Design and Engineering

Better Solutions For Neonatal and Women's Health

Leveraging the most cutting-edge scientific breakthroughs to create better solutions for homecare

PROBLEM & SOLUTION STATEMENT

Problem Statement Lack of Affordable & **Reliable Jaundice Testing** in South & South-East Asia is Resulting in Death of Thousands of Newborns



Solution Statement

Low Cost*, High Accuracy[#], **Non-Invasive Method for Bilirubin** Detection that can be used in both **Rural & Urban Healthcare Setups**

* At least **50% lower** compared to the cheapest solution in the market # Sensitivity and specificity within 5% of current market solutions Difference in setup is centred around the sales channel. Through government bodies in rural areas (volume pricing) and direct doctor/hospital sales in urban areas

BiliMonitor

The Frugal Newborn Jaundice Meter



COMPETITIVE ANALYSIS

Brand	BiliMonitor	Beijing M&B	Ningbo David	Draeger*
Dimensions (cm)	3.6x3.6x14.5	5.9x6.55x17.6	5.3x3x16.1	5.6x6.5x15.8
Area of test	Forehead/ Sternum	Forehead/ Sternum	Forehead	Forehead/ Sternum
Accuracy mg/ dL	±1.5	±1.5	0-15 ±1 16-25±1.5	±1.5
Price (USD)	800	1000-1200	1500-1700	5500-8000

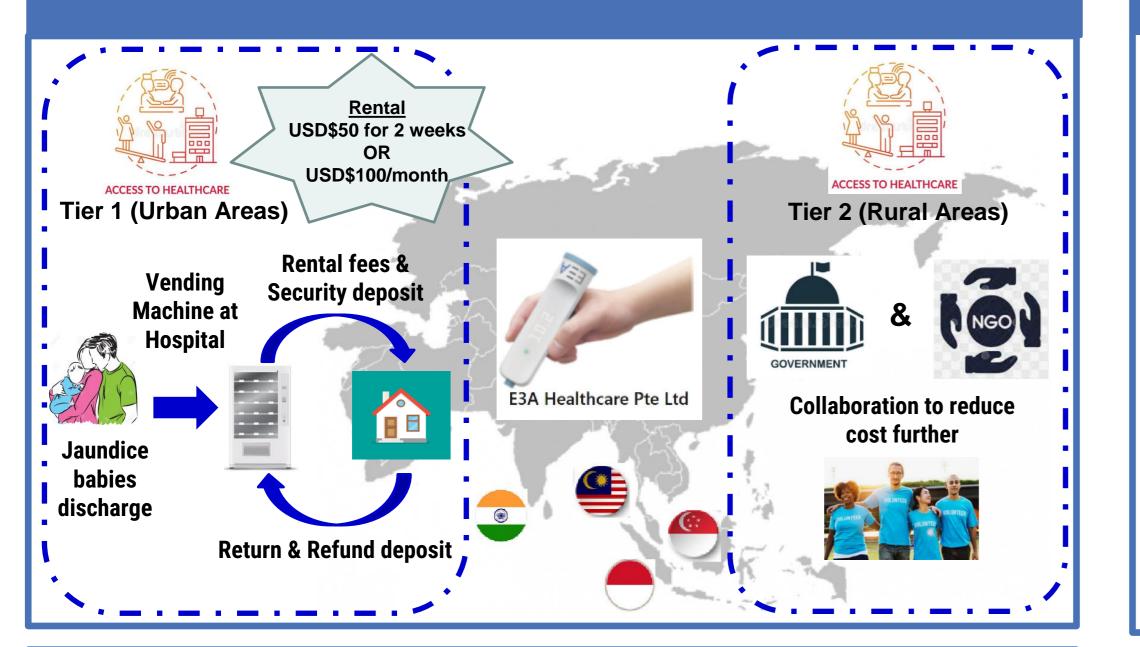
TIERED PRODUCTS



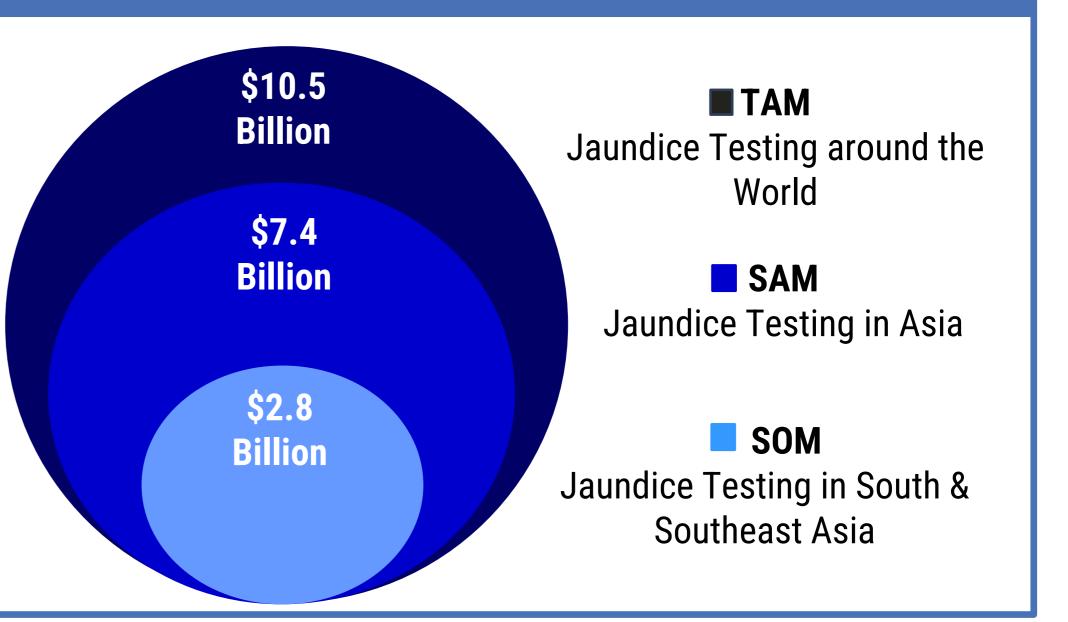


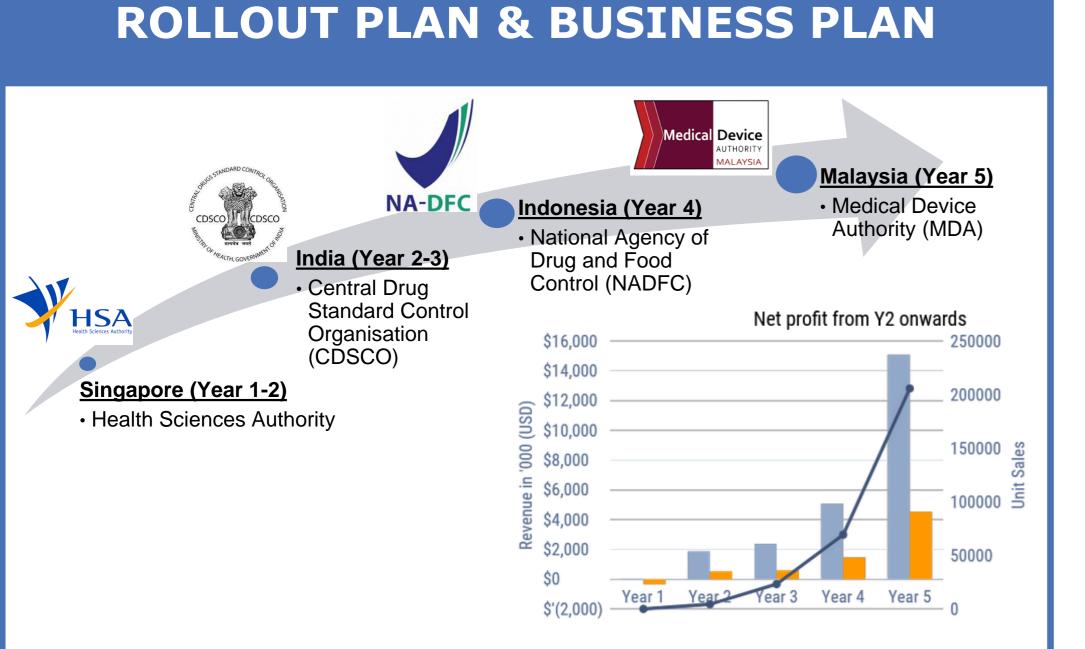
Monochrome Display **Dot LED display** LCD **Physical** Interaction **Touch Capacitive buttons Onboard memory Connectivity Only testing**: and Bluetooth (<Satin finish ABS Single color Casing with gradient ABS color EEA EEA **Price USD\$ 800 USD\$ 200**

ECO SYSTEM



POTENTIAL MARKET





TEAM & CONTACT



Dr.Rishav Shrestha (Advisor) M.D., Ph.D., 5-year physician experience, previous Research Head of NSI, Nepal. Serial entrepreneur, MedTech.



MSc. MSE

2 years of Quality

Control and R&D

experience



Adhiraj M. MSc. MSE MSc. MOT 12+ years of 3+ years of **Quality Control** Product & 1+ of sales Management and experience R&D experience



Norhanani MSc. MSE 13+ years of

Process

R&D experience





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Tang Chin Wui MSc. MOT 5 years of Project

Management/

experience

Manufacturing & Strategic Planning

MSc. EE 4 years of Project/Product

Management &

R&D experience