



Qualis

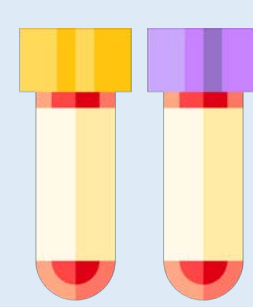
Fast, Easy, On-demand



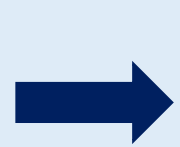
Institute for Engineering Leadership
Faculty of Engineering

Across industries, there is a need for real time, on-demand testing and measurement. We provide a fast, accurate, and affordable chemical testing and measurement solution using a handheld spectrophotometer (Photopette®) that connects wirelessly to your portable smart devices.

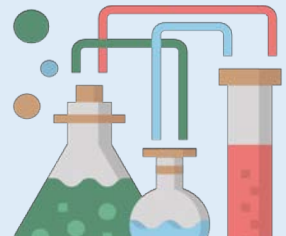
Problem



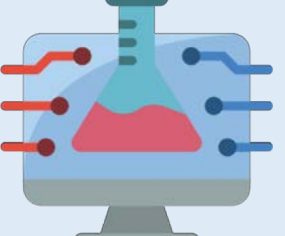
Sample collection



Sample transport



Sample preparation



Sample analysis



Sample results

- Long transport time – not ideal for time sensitive tests
- Location limited – can only be done at laboratories
- Complex procedures – scientific expertise required

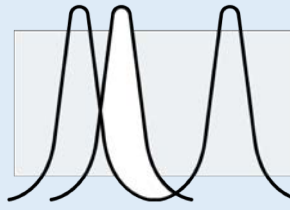
Solution



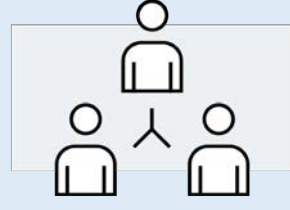
Select test procedure



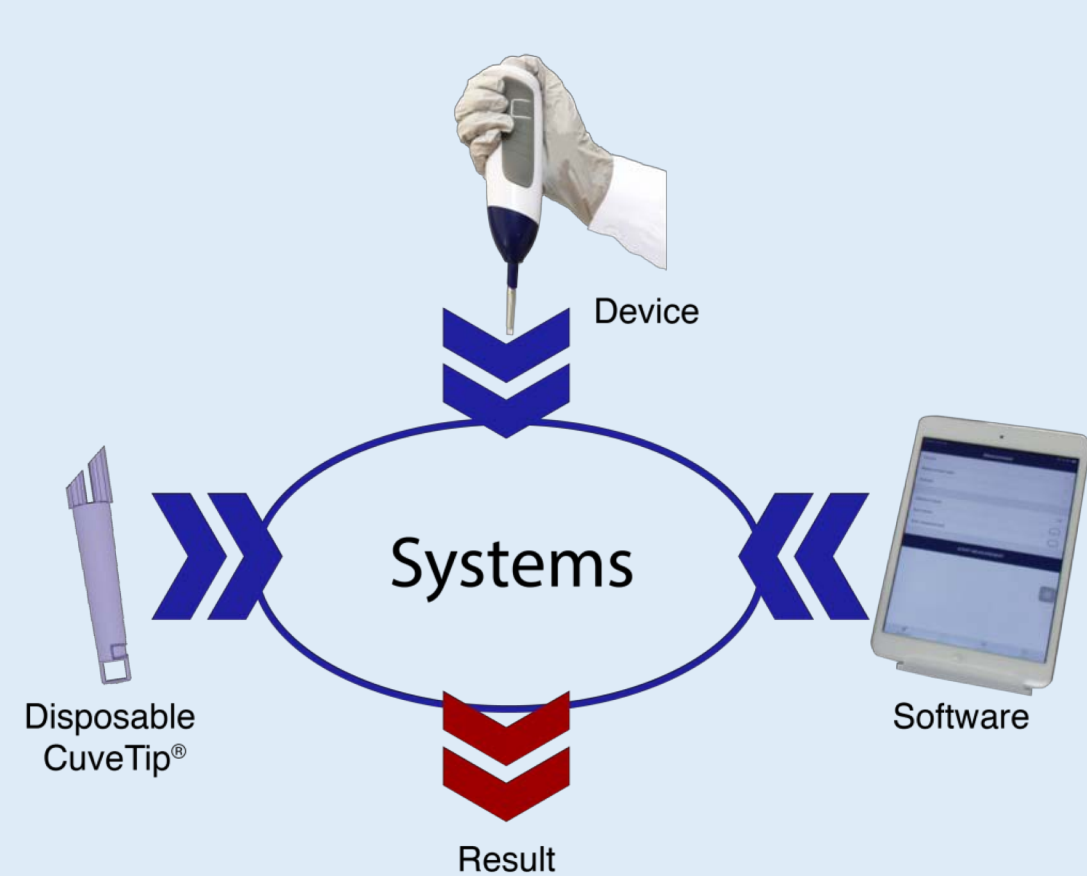
Test sample



Instant results



Share with others



Key Features

COMPARISON WITH EXISTING MARKET PRODUCT

Photopette®

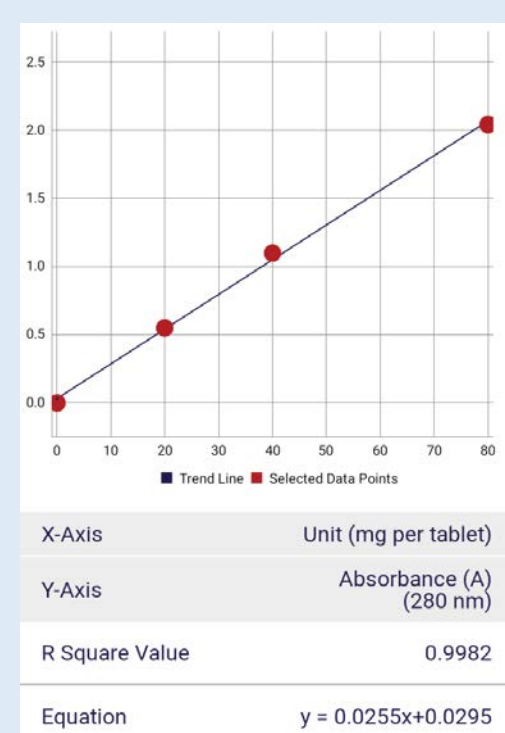
- ✓ Hand-held / portable, computation done on mobile device
- ✓ Light weight – 700g
- ✓ Affordable ~\$4,000
- ✓ Easy to use

Benchtop Spectrophotometer

- ✗ Confined to the lab, computation done on desktop computer
- ✗ Benchtop
- ✗ Expensive ~ \$20,000
- ✗ Scientific expertise required

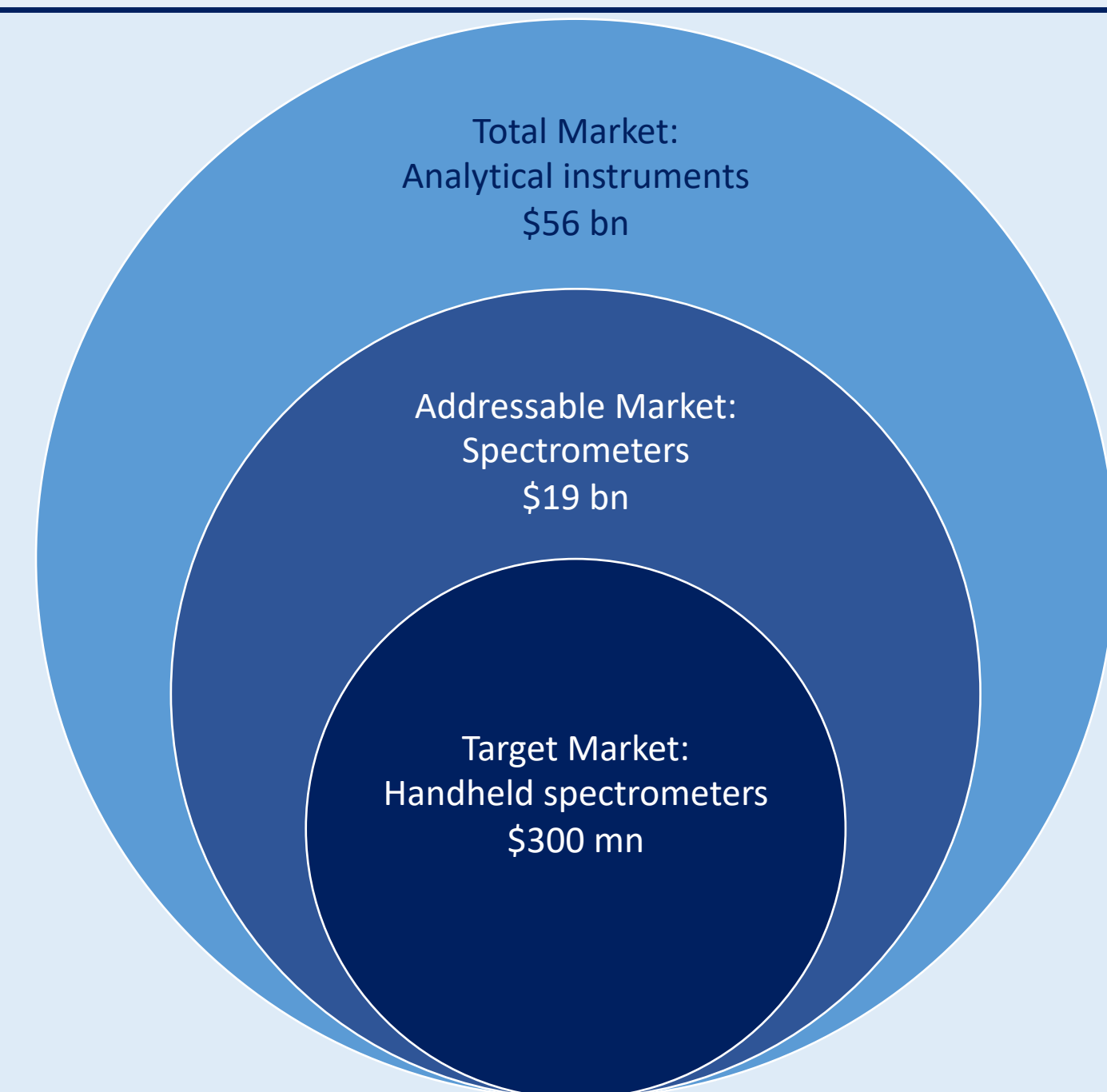
Test Case

- Partnership with Dawai Dost, a chain of social enterprise pharmacies in Ranchi, India
- Dawai Dost makes medicines accessible to the poor by offering a generic alternative
- Testing of pantoprazole 40mg tablets to detect authenticity and dosage amount
- Tested 3 brands of generics at local conditions



Tablet	Dosage
Generic A	42mg
Generic B	44mg
Generic C	46mg

Market Size



Applications



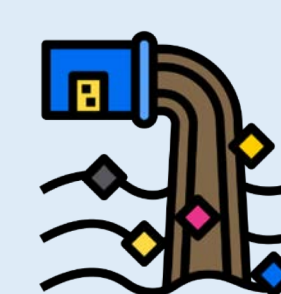
- Life Science**
- DNA concentration
 - Cell viability
 - Yeast cell count



- Industrial**
- Plating metal ions
 - Mining



- Food & Beverage**
- Soluble protein content
 - Lactate concentration
 - Brewing



- Environmental**
- Spirulina biomass
 - Turbidity
 - Water testing
 - Ballast water management



Tip Biosystems

Ultrafast Handheld Spectrophotometers

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