

SpectrumDx

Brightening the Future through Reflection

In vertical farms, there is a need for measurements of plant health and nutritious value of crops, fruits etc. SpectrumDx provides a non-contact optical sensor solution that can accurately measure plant health in real-time.

PROBLEM

Sample Collection



Sample Preparation



Chemical Analysis



Results and Data



Current Processing:

- Time and labour Intensive (~ 1 week)
- 4 Steps
- 2% loss of produce

In **vertical farms** there is no method to quickly determine the **crop quality** for optimum crop harvesting.

PRODUCT & SOLUTION

- Portable optical sensor
- Non-contact
- Non-destructive
- Real-time



TECHNOLOGY

- Wide reflectance spectrum measurement between 340nm to 850nm
- Small form-factor with white LED light source
- Real-time data acquisition and processing

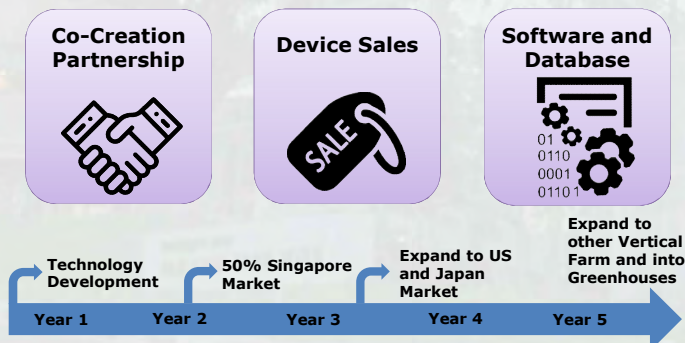
TARGET MARKET



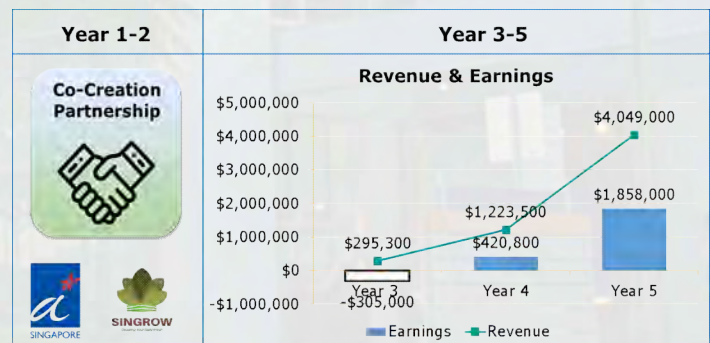
COMPETITION ANALYSIS

	Spectrum Range	Quality Determination	Real-time Measurement	Non-contact
SpectrumDx	✓✓	✓	✓✓✓	✓✓
CID Bio-Science	✓✓✓	✗	✓	✗
KONICA MINOLTA	✓	✗	✓✓✓	✗
Force	✓	✗	✓✓✓	✗
FALKER	✓	✗	✓✓✓	✗
apogee INSTRUMENTS	✓	✗	✓✓	✗

BUSINESS MODEL



FINANCIALS



CONTACT

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