

Technology Description

Dehumidifying Cooler, an unprecedented cooling solution for the tropical climate that gives you the “AC Experience” and a sustainable future.

Problem

The current air-conditioning (AC) technology remains **energy intensive**, making space cooling **expensive** and **detrimental to the environment**.



40% of electricity consumption¹
in buildings are contributed by ACs alone

3.6 Billion Tonnes²
combined greenhouse gas (GHG) emission
by ACs worldwide annually

Solution

Dehumidifying Cooler

An unprecedented **cooling solution** for tropical climate. Providing you “AC Experience” and a **sustainable** future.

Patented Core Technology¹

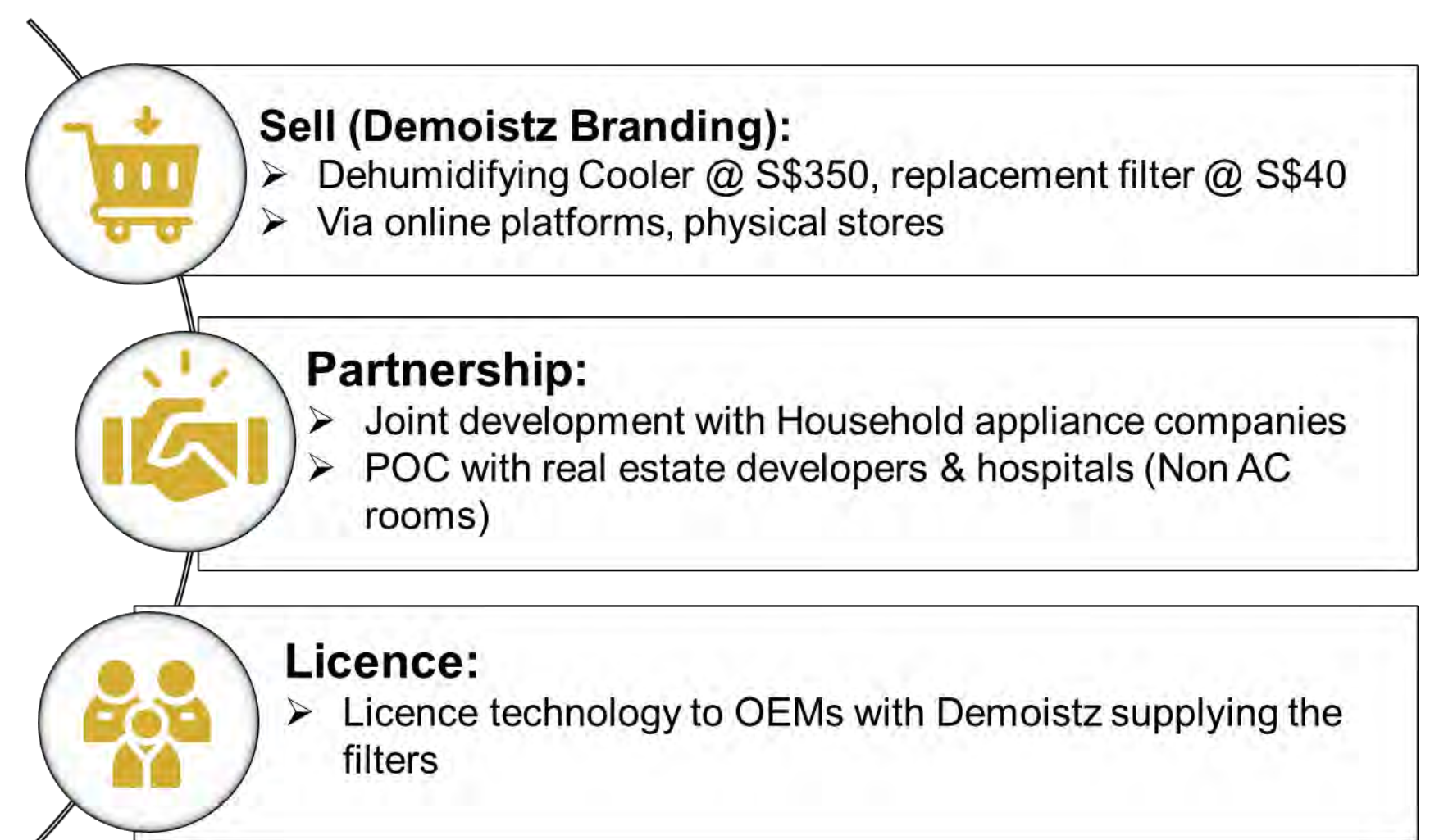
-Moisture Adsorbing Hydrogel

- ⇒ Unmatched performance by commercial desiccants
- ⇒ Reusability >1500 cycles
- ⇒ Low Material Cost

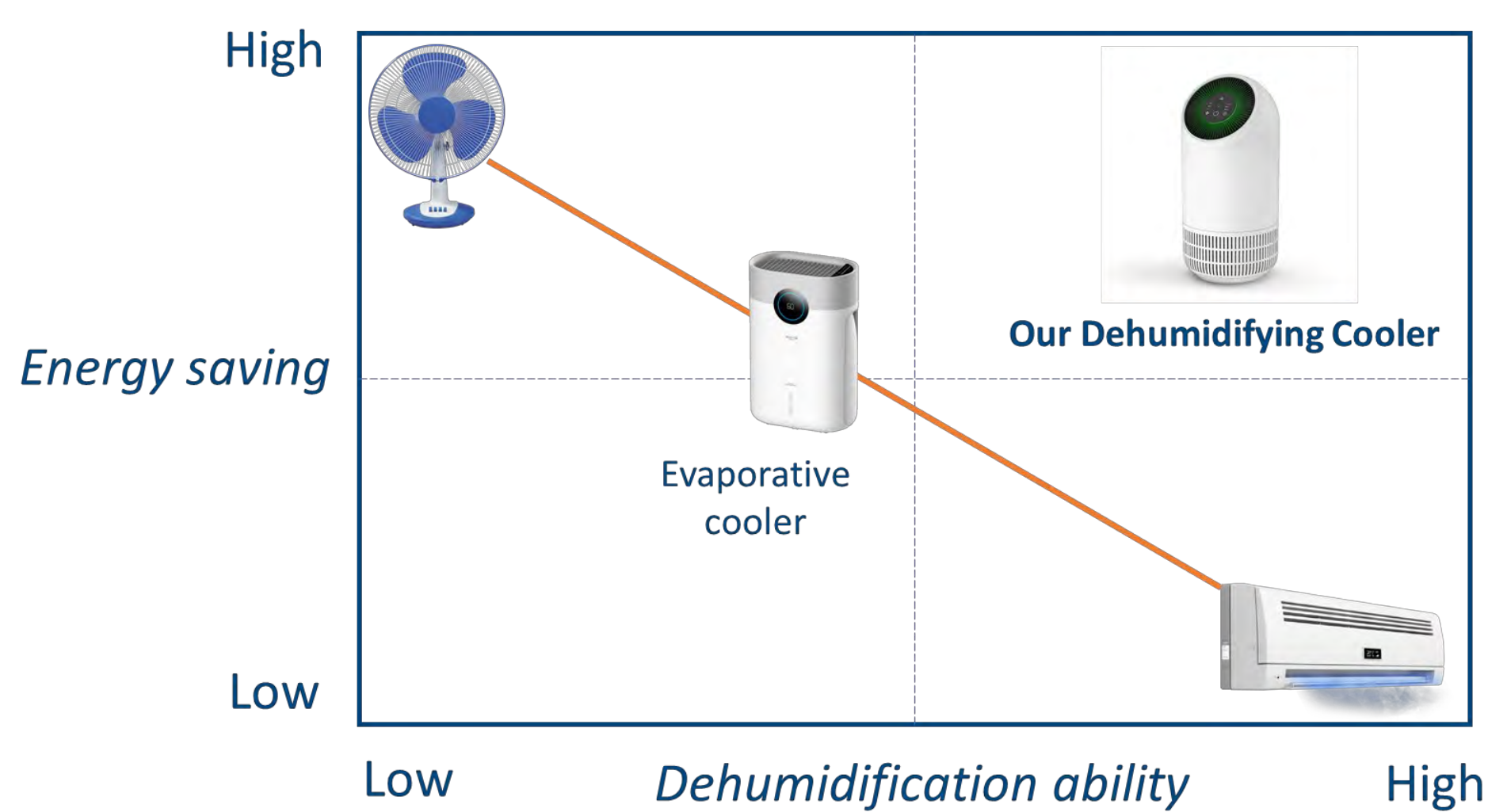


[1] Patent Number WO 2019/035772 A1

Business Model

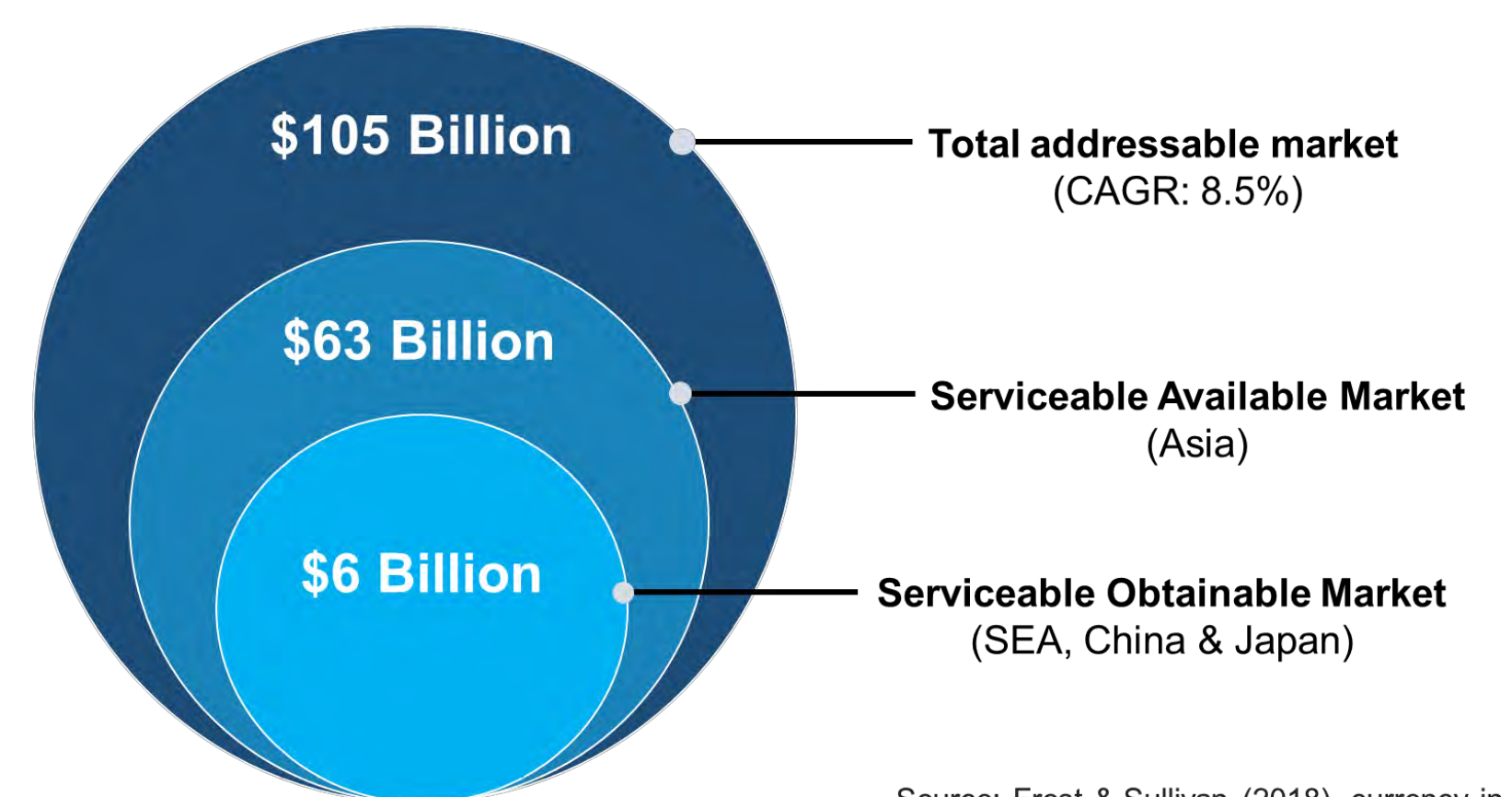


Competition Analysis



Market Size

Space Cooling & Ventilation



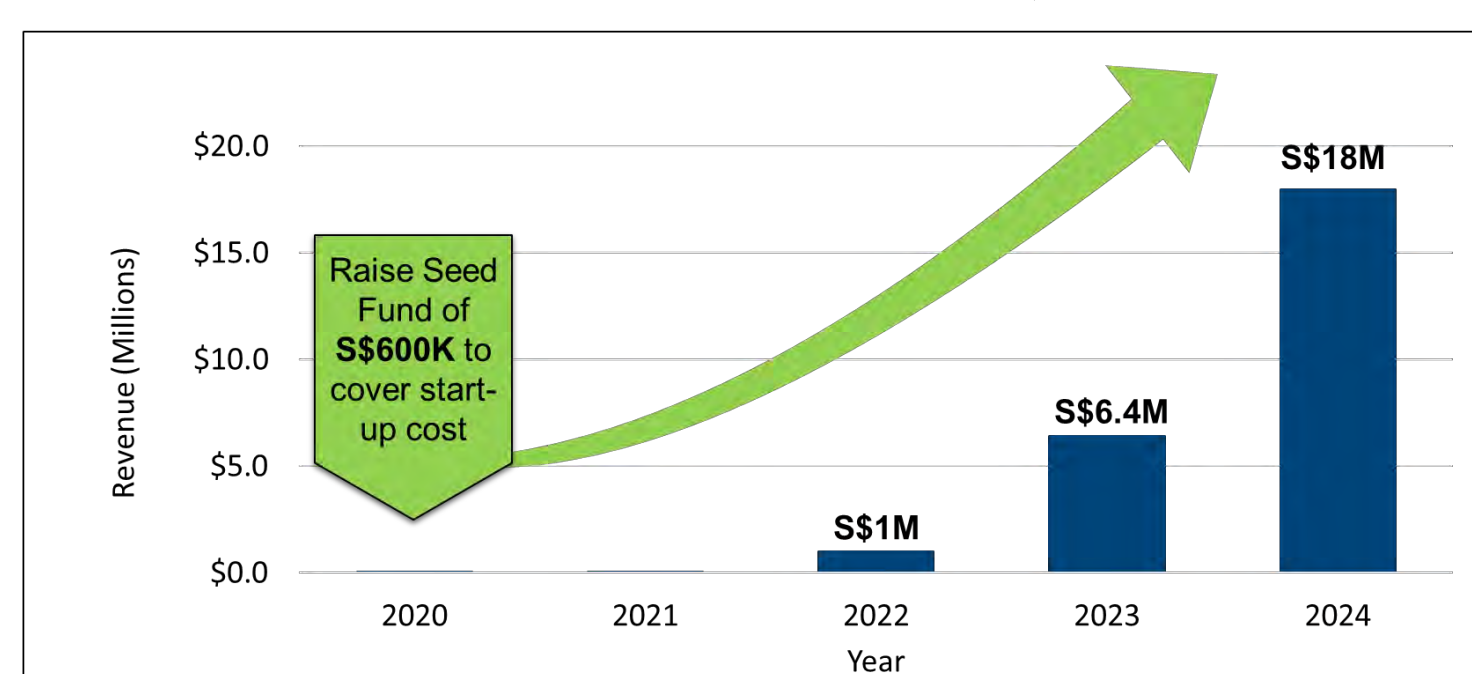
Source: Frost & Sullivan (2018), currency in USD

Business Development Plan



Projected Revenue

Scalable Business with SGD \$18m revenue in 5 years



Our Team

 <p>A/Prof Tan Swee Chin Principal Investigator NUS MSE Research Funded by Temasek Foundation Ecosperity</p>	 <p>Eey Tze Jie Tech Lead NUS NGS Scholar Manufacturing & Engineering Experience</p>	 <p>Yang JiaChen Tech Lead NUS MSE Scholar Hydrogel & Sustainability Research</p>	 <p>Yuan Ming Tech Launch Chem Eng (NUS) Air Quality & Control Experience</p>	 <p>Devangini Patel Tech Launch HCI & AI degree Human-Computer Interaction</p>	 <p>Yang C.L. Tech Launch NUS Research Associate >10 years industrial experience</p>
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