

List of Supported Projects

S/No	Project	Description	Partner	Vertical
1	Green roof for buses	Buses with green roofs to reduce interior temperature and energy consumption.	GWS Living Art Pte Ltd	Air
2	'N95' respiratory masks for children	New masks with add-on ventilation fan designed for young children.	Innosparks Pte Ltd	Air
3	Outdoor evaporative cooling	Evaporative air coolers for outdoor spaces.	Innosparks Pte Ltd	Air
4	Hydrogel to lower humidity	A gel that can be applied to surfaces to reduce relative humidity and improve thermal comfort.	National University of Singapore	Air
5	Solid state cooling fans	Fans using solid state thermoelectric technology to provide indoor and outdoor cooling.	Phononic, Inc	Air
6	'Vortex' fans	Fans using the Vortex principle to provide indoor and outdoor cooling.	Vortec Pte Ltd	Air
7	Endangered species conservation	Reproduction of endangered species using induced pluripotent stem cells.	ESCAR	Biodiversity
8	Biodiversity for dragonfly habitat	Establishment of dragonfly habitat and research on its potential against natural pests.	Garden City Fund	Biodiversity
9	Quantum key distribution encryptor	Quantum-safe encryption devices.	S-Fifteen Pte Ltd	Cybersecurity
10	Hydrogen fuel cells	Renewable energy storage solution.	EPS (S) Pte Ltd	Energy
11	Perovskite solar energy glass panels	Incorporating solar cells into glass building façades and windows to generate electricity.	Singapore Safety Glass Pte Ltd	Energy
12	Vanadium redox flow batteries	Renewable energy storage solution.	V-Flow Tech Pte Ltd	Energy

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13	Rapid microbial detection in food	Rapid gold-standard test kit for detecting the presence of food pathogens.	Biopsin Pte Ltd	Food
14	Community farming	Stackable, closed-loop farming for high-volume food production.	Edible Garden City Pte Ltd	Food
15	Urban farming on building walls	Vegetable and rice growing using gable end walls of buildings.	Netatach Pte Ltd	Food
16	Pollination using mini-drones	Large scale automated pollination of fruits and fruited vegetables within indoor farms.	Polybee Pte Ltd	Food
17	Sustainable food protein production	Production of low-cost, food-grade protein through the fermentation of microalgae.	Sophie's Kitchen Pte Ltd	Food
18	Upcycling food waste	Converting fermented food waste into fish feed.	Temasek Life Sciences Laboratory	Food
19	Urban recirculation aquaculture system	Indoor vertical system for high-volume fish production.	Temasek Life Sciences Laboratory	Food
20	Bio-based pesticides	Alternative pesticides based on plants and gene repression techniques.	Temasek Life Sciences Laboratory	Infectious Disease Management
21	Therapeutics for viruses	A quick response platform to produce therapeutics for mass disease outbreaks such as Dengue, and Zika.	Tychan Pte Ltd	Infectious Disease Management
22	Smart noise barrier	Smart and tunable noise absorber to reduce noise pollution for specific frequency ranges.	Temasek Laboratories	Noise
23	Food waste tracker	Image recognition technology to reduce food waste in hotels and commercial kitchen.	Good For Food Pte Ltd	Waste Management

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24	Black soldier flies	Organic waste converted using black soldier flies into animal feed and fertiliser for sustainable food production.	National University of Singapore	Waste Management
25	Biodegradable plastics	Biodegradable polymers to replace single-use plastics such as straws and paper coating for cups and disposable food packaging.	RWDC Industries Pte Ltd	Waste Management
26	Fire monitoring analytics	Ground fire activity monitoring through satellite imaging.	National University of Singapore's Centre for Remote Imaging, Sensing and Processing	Weather and Climate

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