



AI-Powered Robotics Drone & Data Analytics Solutions Unified Platform Provider

2025 Presentation Deck

101 Defu Lane 10 Singapore 539222

Disclaimer

This presentation has been prepared by NovaPeak Pte Ltd (the “Company”) and is general background information about the Company’s activities at the date of this presentation. The information in this presentation is provided in summary form only and does not purport to be complete. This presentation does not contain all the information that is or may be material to investors or potential investors and should not be considered as advice or a recommendation to investors or potential investors in respect of the holding, purchasing or selling of securities or other financial instruments and does not take into account any investor’s particular objectives, financial situation or needs. By attending the presentation or by reading the presentation slides you agree to be bound as follows: This presentation has been made to you solely for information purposes. This presentation may be amended and supplemented as the Company sees fit, may not be relied upon for the purpose of entering into any transaction and should not be construed as, nor be relied on in connection with, any offer or invitation to purchase or subscribe for, underwrite or otherwise acquire, hold or dispose of any securities of the Company, and shall not be regarded as a recommendation in relation to any such transaction whatsoever. The contents of this presentation should not be considered to be legal, tax, investment or other advice, and any investor or prospective investor considering the purchase or disposal of any securities of the Company should consult with its own counsel and advisers as to all legal, tax, regulatory, financial and related matters concerning an investment in or a disposal of such securities and as to their suitability for such investor or prospective investor. This presentation and its contents are confidential and proprietary to the Company, and no part of it or its subject matter may be reproduced, redistributed, passed on, or the contents otherwise divulged, directly or indirectly, to any other person (excluding the relevant person’s professional advisers) or published in whole or in part for any purpose without the prior written consent of the Company. If this presentation has been received in error it must be returned immediately to the Company.

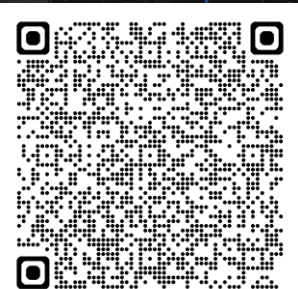
This presentation contains forward-looking statements. Such forward-looking statements involve known and unknown risks, uncertainties and other important factors which may affect the Company’s ability to implement and achieve the economic and monetary policies, budgetary plans, fiscal guidelines and other development benchmarks set out in such forward-looking statements and which may cause actual results, performance or achievements to be materially different from future results, performance or achievements expressed or implied by such forward-looking statements. Such forward-looking statements are based on numerous assumptions regarding the Company’s present and future policies and plans and the environment in which the Company will operate in the future. Furthermore, certain forward-looking statements are based on assumptions or future events which may not prove to be accurate, and no reliance whatsoever should be placed on any forward-looking statements in this presentation. The forward-looking statements in this presentation speak only as of the date of this presentation, and the Company expressly disclaims to the fullest extent permitted by law any obligation or undertaking to disseminate any updates or revisions to any forward-looking statements contained herein to reflect any change in expectations with regard thereto or any change in events, conditions or circumstances on which any such statements are based. Nothing in the foregoing is intended to or shall exclude any liability for, or remedy in respect of, fraudulent misrepresentation. The information in this presentation has not been independently verified. No representation or warranty, express or implied, is made as to the fairness, accuracy or completeness of the presentation and the information contained herein and no reliance should be placed on it. Information in this presentation (including market data and statistical information) has been obtained from various sources (including third party sources) and the Company does not guarantee the accuracy or completeness of such information. All projections, valuations and statistical analyses are provided for information purposes only. They may be based on subjective assessments and assumptions and may use one among alternative methodologies that produce different results and to the extent they are based on historical information, any they should not be relied upon as an accurate prediction of future performance. Any financial data in this presentation are solely for your information, as background to the Company and may not be relied upon for the purpose of entering into any transaction whatsoever. The financial information set out in this presentation is based on certain important assumptions and adjustments and does not purport to represent what our results of operations are on an audited basis or actually will be in any future periods. Furthermore, no representation is made as to the reasonableness of the assumptions made in this presentation or the accuracy or completeness of any modelling, scenario analysis or back-testing. The information in this presentation is not intended to predict actual results and no assurances are given with respect thereto. None of the Company, its advisers, connected persons or any other person accepts any liability whatsoever for any loss howsoever arising, directly or indirectly, from this presentation or its contents. All information, opinions and estimates contained herein are given as of the date hereof and are subject to change without notice.

Introduction: Managing Director Eugene Choy



NovaPeak was incorporated in 2022 with ISDN Holdings, a listed company in Singapore and Hong Kong. Eugene is the managing director of NovaPeak and helps to oversee the group's business development and industrial transformation.

He was a **committee member of TR 78**, the technical reference using drones for building facade inspection. He continues to advocate for best practices within the construction monitoring, survey and inspection industry.



Periodic Façade Inspection Building Inspection Criteria

In Singapore, Periodic Façade Inspections (PFI) are legally mandated under the Building Control Act and guided by Singapore Accreditation Council Technical Reference 78 (TR 78). Building owners are legally required to inspect façades every 7 years. This creates recurring, inelastic demand for inspection services—regardless of economic conditions.

With recent updates to TR78, the use of drones and AI is not just optional—it is prescribed for efficient, accurate, and safe inspections.

In a recession, businesses and governments may reduce discretionary spending—but they cannot ignore legal obligations.

PFI - HDB

PFI – Private / Commercial

PFI - Industrial

The Periodic Façade Inspection (PFI) regime was introduced in 2020 and has taken effect on 1 Jan 2022.

Buildings that are more than 20 years of age are to be inspected every 7 years.

All building must be surveyed using Drone to take photographs. 100% of façade must be carried out using this method.

Hotels

Shopping
Complexes

Telecom
Exchanges

Commercial
Buildings

Industrial
Buildings

Government
Flats

Built with Purpose, Inspired by the Future

MISSION

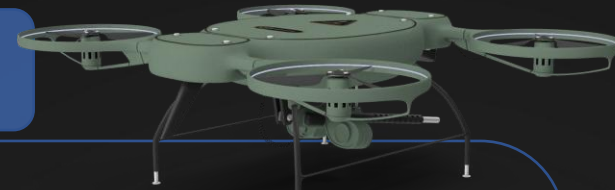
NovaPeak exists to redefine how the world inspects and maintains its critical infrastructure — through digital transformation powered by AI, drones, and data intelligence. We drive safer, smarter, and more sustainable operations across buildings, transportation, marine, and industrial sectors, enabling our partners to scale with precision and purpose.

VISION

To inspire a global shift in how industries manage critical infrastructure — by leading with AI-driven inspection solutions that make data truly actionable, reduce environmental impact, and preserve precious planetary resources for future generations.

FOCUS

The **focus of NovaPeak** is to revolutionize infrastructure inspection and maintenance through the integration of **AI, drone technology, and smart data platforms**. By digitizing and automating inspection workflows — particularly for façades, bridges, and other critical assets — NovaPeak aims to enhance **safety, regulatory compliance, operational efficiency, and sustainability**. It empowers industry professionals with tools for real-time analysis, defect detection, and compliance reporting, all aligned with standards like SAC-TR78.



Regular Interactions with various Stakeholders such as with BCA, Town Councils, Professional Engineers, Registered Architects, R&R Contractors, Term Contractors, Managing Agents



How do we aim to fulfil our Mission?

Through a range of products and services spanning
Training, Consulting, Technology Licensing & Novel Product Development,
NovaPeak aims to transform businesses to maximize their success with its bespoke survey & inspection techniques, power of artificial intelligence with data management.

Commercially
AI Ready
Defects
Detection

Proven Track
Records

Operational
Task Force to
Address
Bottlenecks

Organising
Technology
Forums

Local
Robotics, AI
& Systems
Integration
Team

Adhering to
& Advocating
Best Practises
& Standards

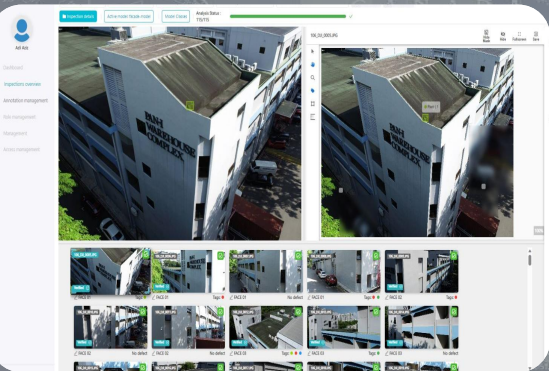
Strategic Differentiation



Industrial 1st Fully Unified
PFI Software Platform

Utilizes Regenerative AI while
others rely on Fixed-AI Model

LIVEINSPECT.AI



Proven &
Practical
Solutioning -
Zero Drone
Incident

The only
Centralized
Collaboration
Hub



The only DSP using Drone Tethering
Devices designed based on Military
& Aerospace Specifications



Recession-Proof Business
Demand is Regulatory -
Driven, not Optional

Public Safety – Inspections
cannot be Deferred

Compliance is Non-Negotiable
Infrastructure Risk Can't Wait

The only provider that offers
Technical Managers – End-to-
End Project Oversight



Façade Inspection using AI
& Robotics is Mandated by
Singapore Law – 1st in the World

NOVAPEAK
23 Months
Since Incorporation



Our inspection
Flight Prints – Notable Projects



Residential
Over 250



Commercial / Industrial
Over 70



Residential [HDB Cluster]

- Ang Mo Kio Ave 5/8/10
- Clementi Ave 2/3/4/5
- Toa Payoh Lor 5/6
- Yishun Ring Road & Ave 11
- Bedok Reservoir View
- Jurong West St 64/65
- Redhill Close



Residential [Private]

- Villa Des Flores
- Mandalay Mansion
- Cairnhill Astoria
- Arthur Mansions
- Beaverton Court
- Landridge Condo
- Hollywood Apt.



Commercial

- Jewel Changi
- Tang Plaza
- Sim Lim Square
- Hougang Mall
- White Sands Mall
- Robinson Point
- Four Points by Sheraton



Institution

- Chung Cheng High
- Maris Stella (Pri&Sec)
- Anglican High Sch
- Tao Nan Sch
- Damai Pri Sch
- Methodist Girls' Sch
- Rosyth Sch



Industrial

- 35 Tampines St 92
- Pan-I Complex
- 16 Tagore Lane
- 29 Tanjong Penjuru
- 623 Toa Payoh Lor 4
- Sharely Warehouse
- Cavan Haus

Extremely
High
Barriers to
Entry


Technology
Adoption
Incentives Up
to 50% Cost
Savings



"Backed by a strategic technology partnership with Panasonic, NovaPeak delivers enterprise-grade AI inspection solutions with the credibility and scale of a global tech giant."

Façade Defect Inspection

ACCREDITATION SCHEME
FOR INSPECTION BODIES



Accredited
Inspection
Body

Schedule

Certificate No. : IB-2025-216-K

Issue No. : 1

Date : 6 January 2025

Expiry of Certificate : 5 January 2029

Page : 1 of 1

NovaPeak Pte. Ltd.
101 Defu Lane 10
Singapore 539222

Inspection Field: Building Façade Inspection

Type A Inspection Body

TYPE OF PRODUCT	TYPE AND RANGE OF INSPECTION	INSPECTION METHOD, CODES OR STANDARDS USED
Building Façade	<p>Building Façade Inspection Using Unmanned Aircraft Systems (UAS)</p> <p>AI System Software Version: LIVEINSPECT.AI Version 1.0</p> <p>Defect detection:</p> <ul style="list-style-type: none">a. Concrete/Plaster Crackb. Spalling Concrete/Plasterc. Corrosiond. No Defect Scenario <p>Anonymization: Human and Vehicle</p>	<p>NP-SAC-02 (1 Aug 2024)</p> <p>TR 78-1:2020+C1:2021</p> <p>TR 78-2:2021</p>

Approved signatory

Eugene Choy
Khairulanwar
Kelven Yee

To be one of the **Industrial Pace Setters for AI & Drone Aided Inspection** & Survey activities with specialisation for Building Inspection employing LiDAR, RGB and Thermal analysis



SAC-TR78 Accredited as Type A Inspection Body using Drones & AI for Building Façade Inspection

BCA and IES, with Singapore Accreditation Council (SAC), has launched the accreditation programme for building façade inspection using Unmanned Aircraft System (UAS) on 12 July 2023

Note: An inspection body's fulfilment of the requirements of ISO/IEC 17020:2012 means the Inspection body meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid inspection results. The management system requirements in ISO/IEC 17020:2012 (Section 8) are written in language relevant to inspection body operations and are aligned with the pertinent requirements of ISO 9001.

Linking Operation Technology to Information Technology

4 Primary Areas

Supervisory Interfaces

(Wide Range of Data Reporting & Analysis Features,
Diagnostic Displays)
Output of Current & Historical Data Sets

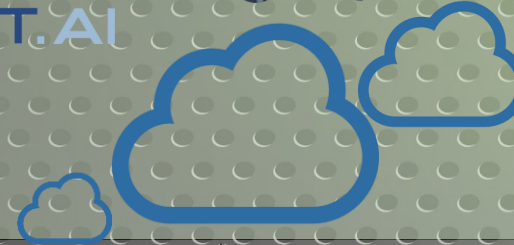


*Qualifying Suitable
Technology Platforms &
learning to be Cost Effective*

Cloud

(Farthest from Network Edge)
Big Data Processing & Data Warehousing
Greatest density of computer, storage,
and networking resources

LIVEINSPECT.AI



INTERNET

Slower
Processing Speed / Response Time
Faster

Edge Infrastructure

(Small Distributed Data Centers)
Realtime Data Processing, Data Visualisation,
At Source / On Premise



LAN/WAN

Edge Supporting Devices

(Survey, Inspection, Surveillance)
Drones, ROVs, Crawlers
Data Collection & Origination



SMART UAV



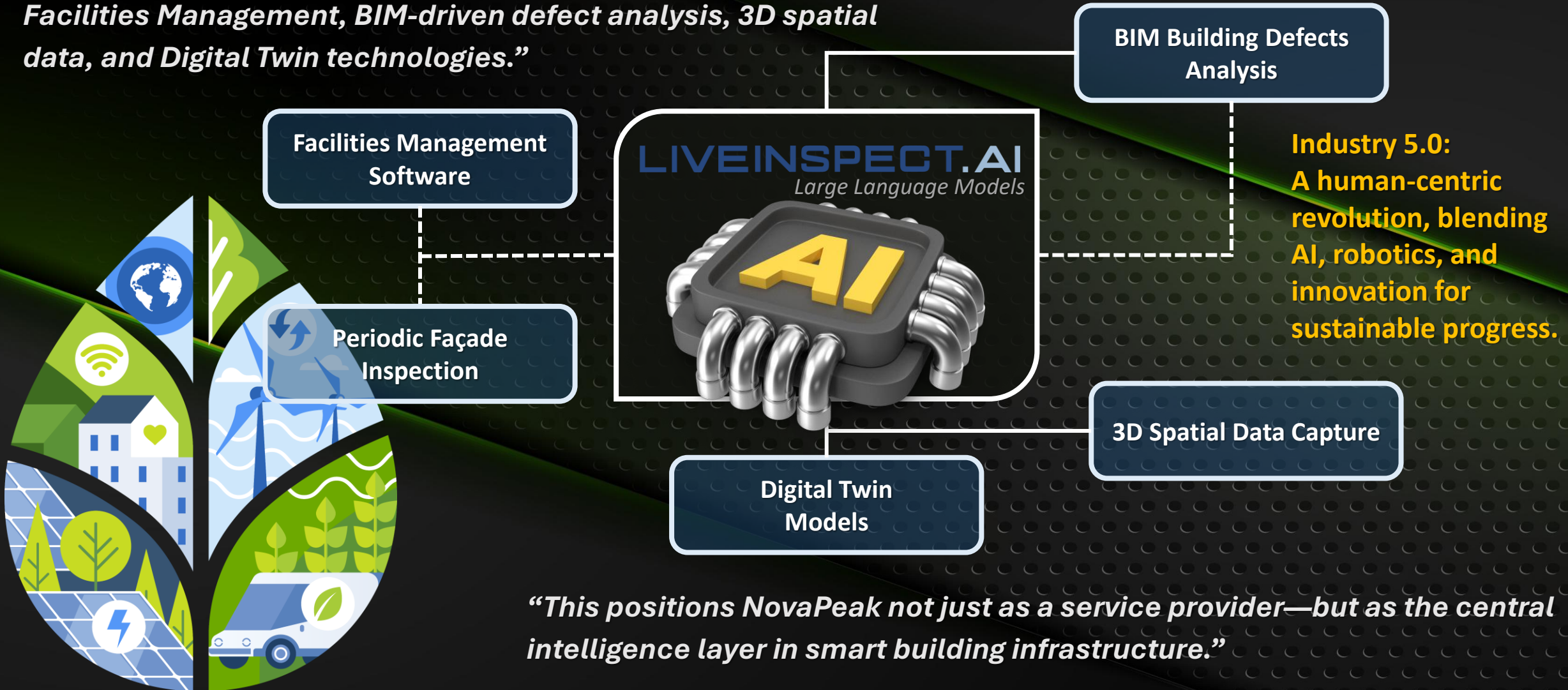
SMART WIFI



Improved Processing

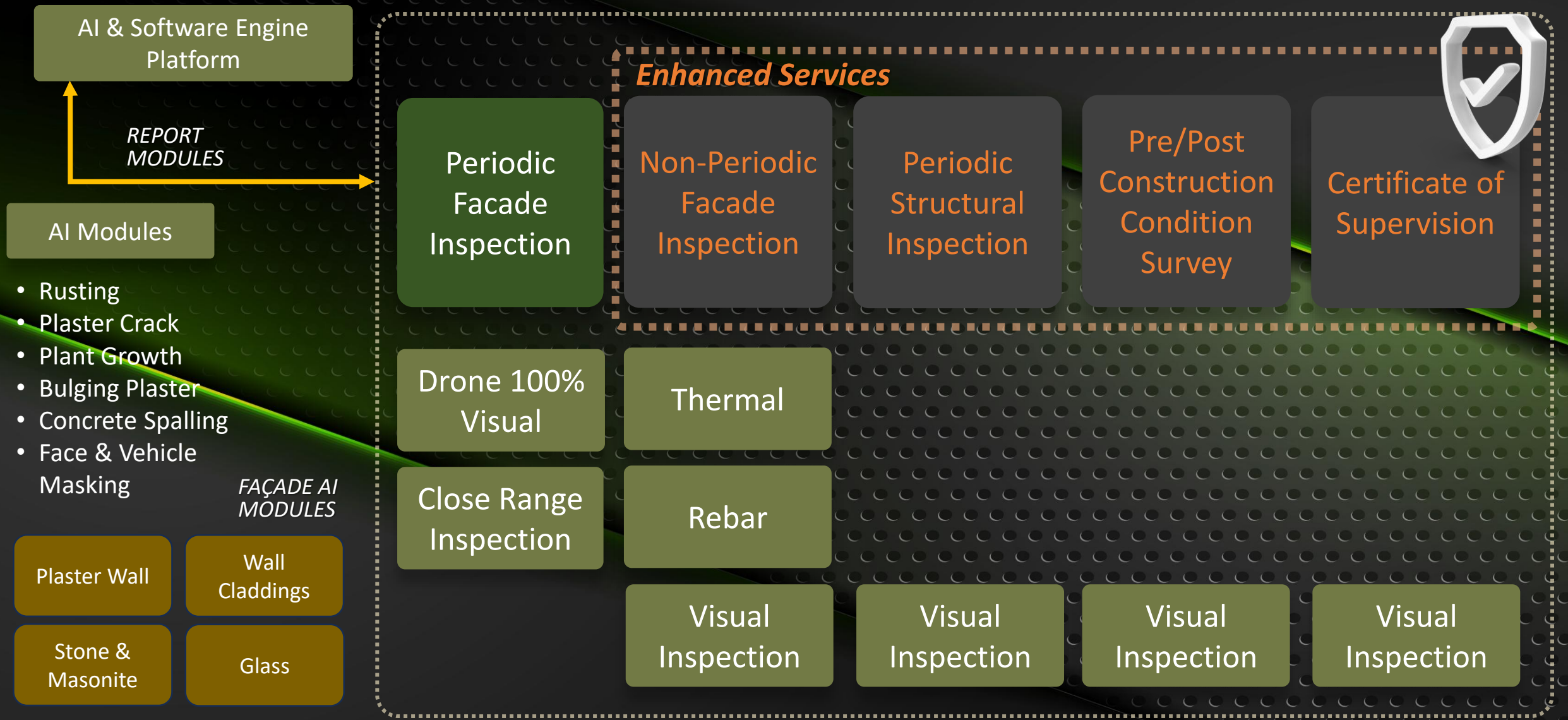
Future of Building Inspections & Lifecycle Management

“Integrating cutting-edge AI with strategic alliances across Facilities Management, BIM-driven defect analysis, 3D spatial data, and Digital Twin technologies.”



“This positions NovaPeak not just as a service provider—but as the central intelligence layer in smart building infrastructure.”

Expanded Solutions



Business Functions & Supporting Business Units

TOP LEVEL MANAGERS

SENIOR MANAGEMENT

STRATEGIZE & ORGANIZE / INTEGRATE RESOURCES
TO MEET ORGANIZATIONAL GOALS

Strategic
Positioning
& Planning

**Financial discipline
governance frameworks
expected of a public
company**

SALES & MARKETING

- Engage Clients
- Industry Knowledge Sharing
- Develop Marketing & Promotional Materials

CORPORATE
COMMUNICATIONS

BUSINESS DEVELOPMENT &
CONSULTANCY

- Entering into Dialogue Sessions
- Setting up Technology Forums
- Setting up Task Force
- Working on Establishing Industrial Standards

RESEARCH &
DEVELOPEMENT

- Develop Total Managed Solutions
- AI Platforms
- Software Platforms
- Information and Communication POC / POV

Supporting
Business
Units

FINANCE

CORPORATE

ACCOUNTS

INFORMATION TECHNOLOGY

MARKETING & PROMOTION

HUMAN RESOURCE

TRAINING & DEVELOPMENT

FIRST LINE MANAGERS

PFI TECHNICAL EXPERTS & DELIVERY MANAGERS

PROJECT
MANAGEMENT

- Ascertain Survey & Inspection Requirements
- Resource Planning
- Project Scheduling
- Prepare Permit Applications

SURVEY & INSPECTION

- Façade & Structural Inspection
- Visual, Thermal & Laser Scanning
- Drone Piloting
- Tapping

DATA MANAGEMENT &
DATA PROCESSING

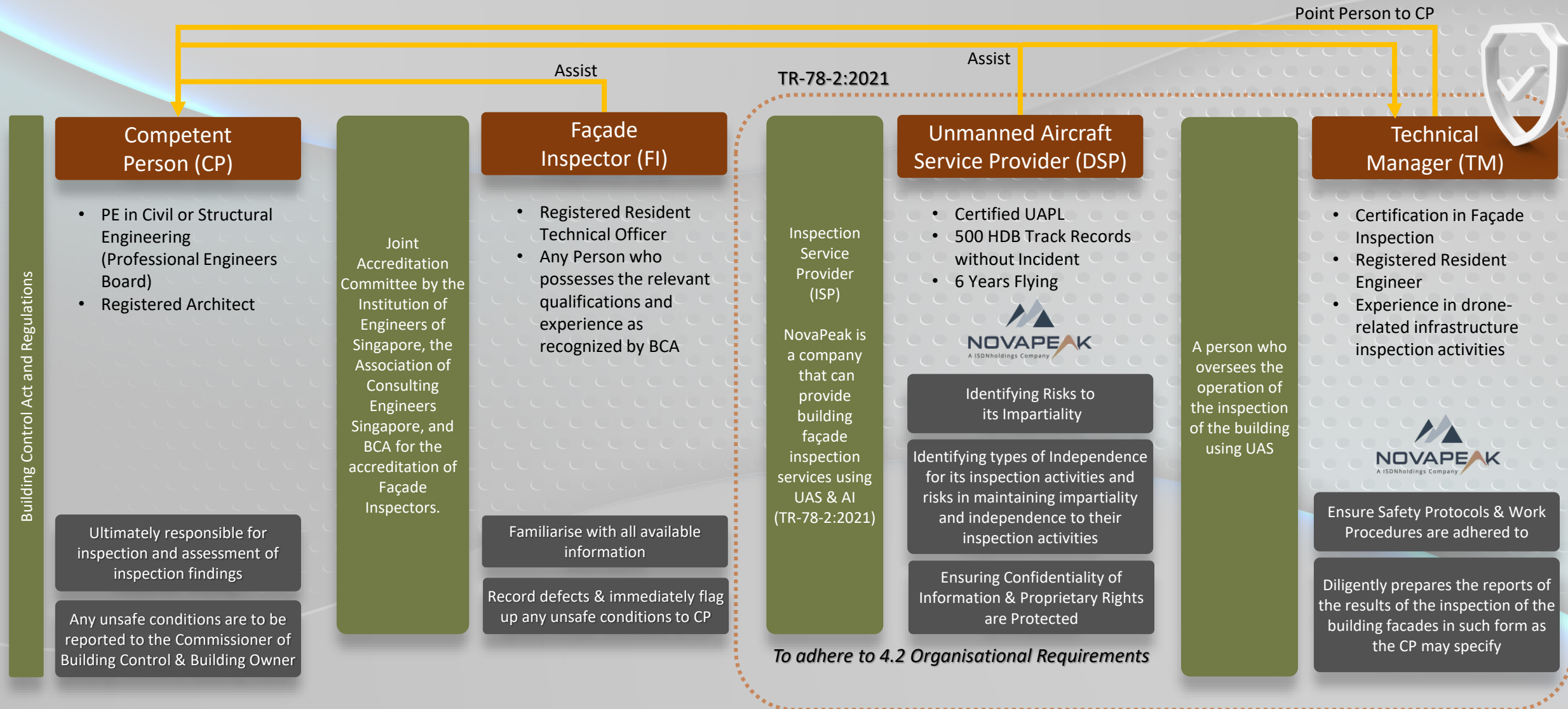
- Uploading Data Sets to AI Defect Detection Platform
- Archiving of Visual, Thermal & Laser Data
- Processing of Data Sets

REPORT PREPARATION &
SUBMISSION

- Manage Delivery
- Accurate Reports
- Timely & Quality Delivery



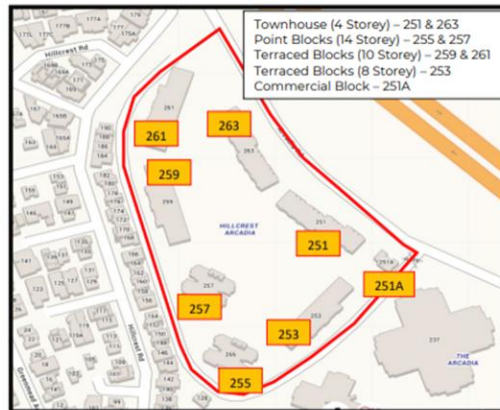
NovaPeak Technical Support Function to CP & FI



Preliminary Desktop Site Reconnaissance

“Appreciating the Scope of Inspection, Access Methods, Risk Levels, Approaches for Drone 100% Visual & 10% Close Range Tactile, Manpower Allocation and Project Budgeting”

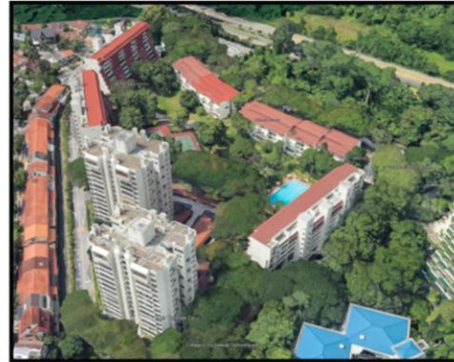
Area details



© 2023 All Rights Reserved
No part of this report may be reproduced or transmitted in any form or by any means, electronic, mechanical, including photocopying, or any other retrieval system, without permission in writing from NovaPeak Pte Ltd.

General View

Elevation 1



Elevation 2



© 2023 All Rights Reserved
No part of this report may be reproduced or transmitted in any form or by any means, electronic, mechanical, including photocopying, or any other retrieval system, without permission in writing from NovaPeak Pte Ltd.

Terraced Blocks 10 Storey – (259 & 261)



This Hillcrest Arcadia condo clusters building façade is 80% concrete wall, 20% glass window. The building cluster has 2, 4, 8, 10 and 14 stories. Some of the roads may access some parts of the buildings, while some buildings do not have road access. Thus, we can do boom lift system, manual tapping, and rope access method to cover up 10% close range inspection for this clusters.

Risk Management Drone Tethering

➤ **85%** Singapore Airspace is **No-Fly Zone**

Drone Inspection may be carried out with the Requisite Permits supplemented with use of Tethered Drones

Offenders will face fines of up to **S\$100,000**
a maximum jail term of 10 years or both

20 Storey **50 meters**



Public Liability Insurance Coverage
\$1m



40 Storey **100 meters**



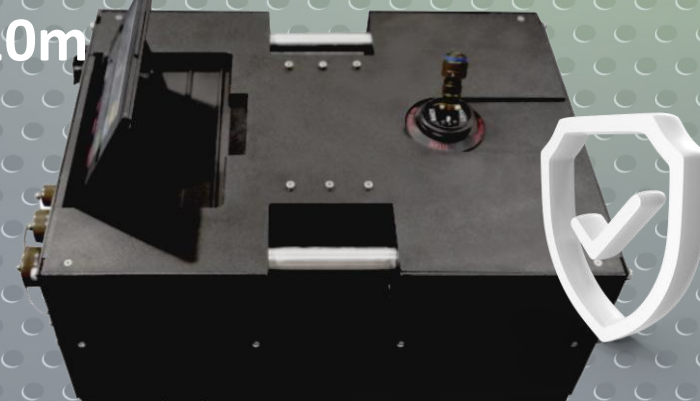
Public Liability Insurance Coverage
\$2m



60 Storey **300 meters**



Public Liability Insurance Coverage
\$10m



More than 30
Years of
Combined
Drone Flying
Experience

UAPL A
Rotorcraft 7kg,
25kg & Nil
Limitations

International
Filming Support
for Hollywood,
Singapore, Hong
Kong and China

Surveying
Experience
(Malaysia,
Australia)

UNMANNED AIRCRAFT PILOT LICENCE



Name of Pilot:
Choy Keng Loong Eugene
Date of Birth:
12 Aug 1975
Date of Issue:
17 Jan 2021
Issuing Authority:
**Civil Aviation Authority of
Singapore**

Bachelor of
Engineering (Hons)
Mechanical
University of
Aberdeen (Scotland)

Certificate of
Business
Administration
University of
Leicester (UK)

Unmanned Aircraft Pilot Licence



Name of Pilot:
Ahmad Lukman Bin Muji
Date of Birth:
18 Aug 1992
Date of Issue:
09 Oct 2023
Issuing Authority:
**Civil Aviation Authority of
Singapore**

Bachelor of Surveying Science and
Geomatics (Hons) University
Technology Mara (Malaysia)

UNMANNED AIRCRAFT PILOT LICENCE



Name of Pilot:
Khairulanwar Bin Ab Rahman
Date of Birth:
16 Nov 1993
Date of Issue:
13 Feb 2022
Issuing Authority:
**Civil Aviation Authority of
Singapore**

Master of Science
Construction Project
Management
Birmingham City
University (UK)

Marine Offshore Flying Experience

TETHER DRONE

CAAS Approved

Up to 300 meters

Unlocks No-fly Zones

Endurance up to 6 hours

Military & Aerospace Specifications

Façade Cleaning Drones

 **SAFE, EFFICIENT and COST-EFFECTIVE**



Fertilizer Spraying



Facade



Max. Takeoff Weight
7 kg



Flight Time
120 mins



Dimension (without propellers)
0.67 x 0.70 x 0.57 m



Pump Pressure
up to 180 bar



Patented Algorithm

Automatically positioned for precise targeting and applying effective pressure.



Effective Washing

Highly versatile. Choose from booster pump to industrial-grade high-pressure pump, depending on applications.



Safe-by-design

The electric power tether enables long, continuous flight for efficient operation with minimal downtime while preventing flyaway incidents.



Roof



Solar Panels

Industrial 4.0

Indoor Environment
Manufacturing

Cobots

Industrial 5.0

Outdoor Environment
Facilities & Assets
Management /
Inspection

Field
Operations

Front
Office

Back
Office

Robotics Platform
Planning
Knowledge Reasoning
Natural Language Learning
Computer Vision

Data Analytics Platform
Machine Learning

Artificial Intelligence

Hardware

Software

Panasonic

Panasonic R&D
Center Singapore

Robotics

Digitisation

Critical PFI Pain Points

1. Multiple Parties makes Coordination Difficult
2. Impossible to Standardise Data Collection & Photo Appendix (Drone & Close-Range Teams)
3. Uncapitalised Opportunity to Utilise NovaPeak's Drone Inspection Photo Appendix Generators
4. Difficulty Securing SAC-ready Drone Provider to Lock Down Future AI Detection Costs
5. Lack of Custom Close-Range Inspection & Reporting Platform
6. Difficulty Owning a Custom PFI Final Report Delivery Platform
7. No Access to Vision / Regenerative AI to formalise for a Total Manage Solution
8. Not Ready for Scaling to Service PFI Market once Regime is Matured (200,000 Buildings and growing)

Smart Enabling Solutions – up to **150%** overall time (manpower) Savings



Project Planner & Scheduler, Task & Resource Allocator

Contact: salesadmin@nova-peak.com +65 9155-0412

Onsite Inspection App

Massive Time-Cost Savings with Full Customisation Unique to Your Organisation

Standardisation of Inspection Methods

Data Archival Support to Continuously AI-Train Additional Defects to keep up with Growing Defects Regulatory Requirements

Defects AI Detection Modules (SAC 5 + 2 Defects)

Defects AI Detection Modules

Photo Appendix Generator

Photo Appendix Generator

Designed Specifically for **Certified Persons & Façade Inspectors**

Checklists, Inspection Report, Building & Location Plans

Defects Severity, Recommended Repair Methods & Timeline

Report Template

Singapore Accreditation Council (SAC)
* Conditions Apply

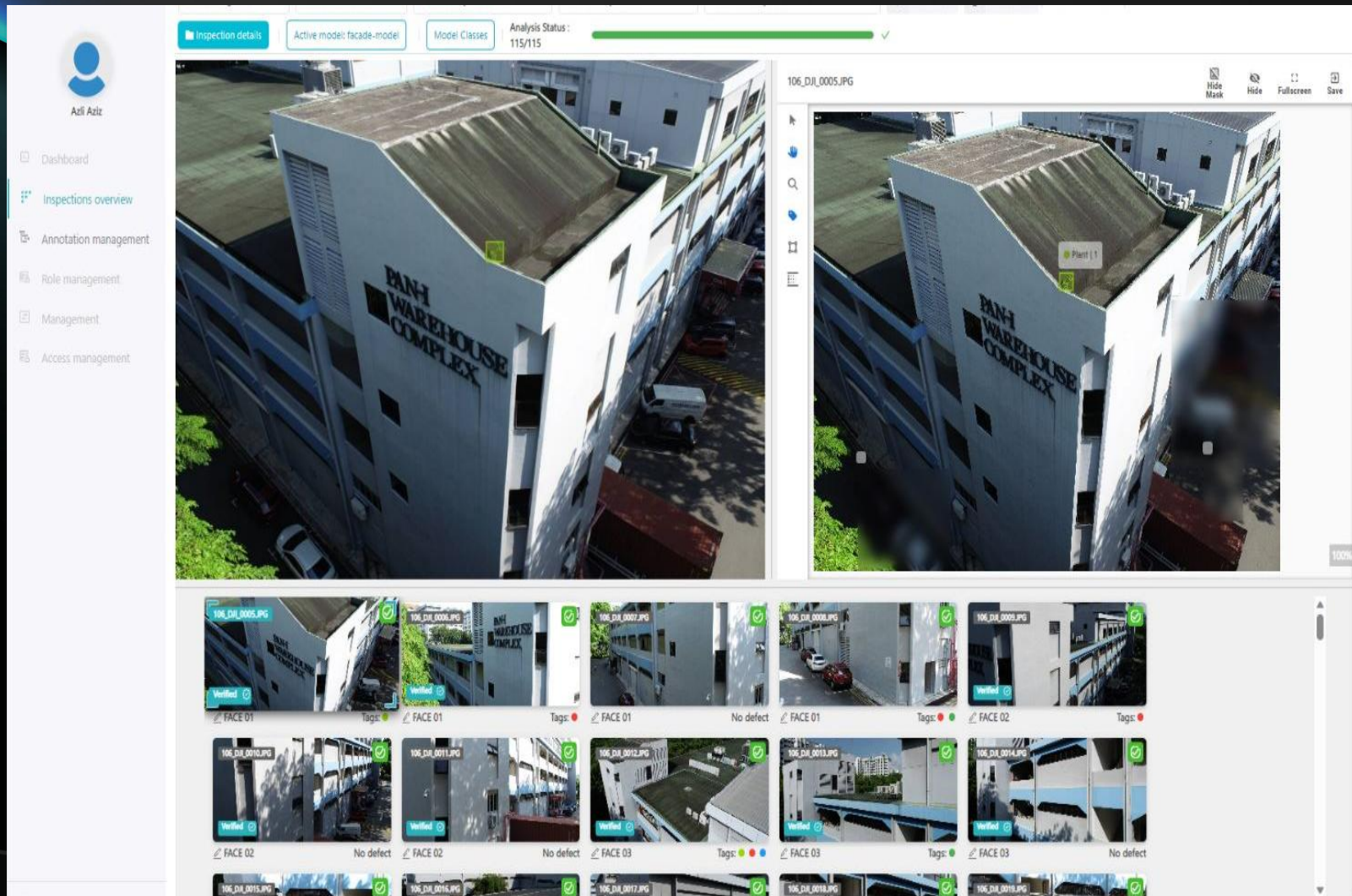
Presenter: Eugene Choy



Panasonic

Panasonic R&D Center Singapore





Simplify** the data collection methods and enhance analytics processes to meet inspection standards and **Produce Reports** that are both **Timely & Accurate

- Rusting
- Plaster Crack
- Plant Growth
- Bulging Plaster
- Concrete Spalling
- Face & Vehicle Masking



Pre-qualification as Productivity Solution Grant (IMDA & BCA) Technology Adoption Grants for LiveInspect for targeted launch Dec 2025.

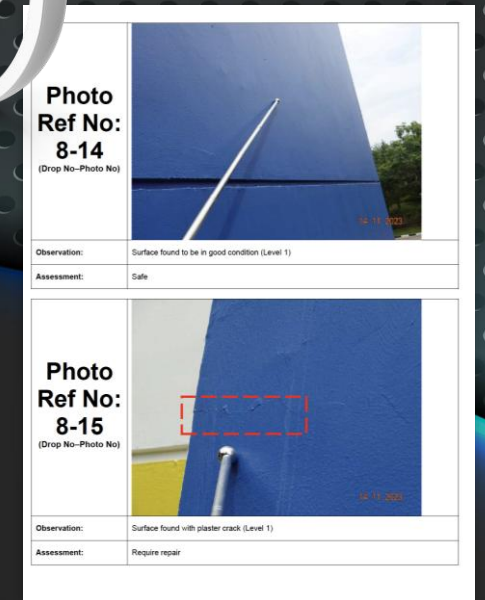
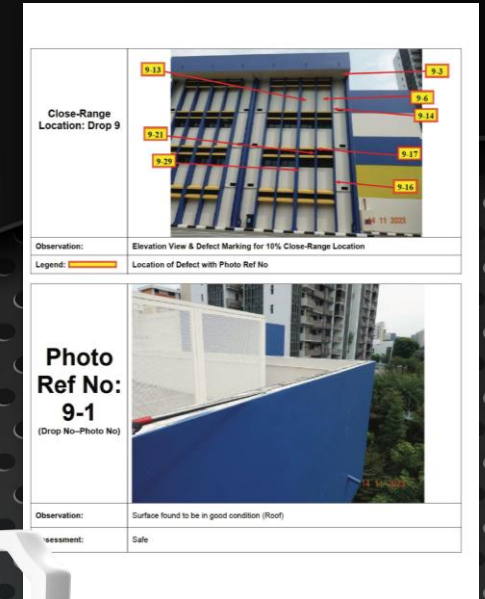
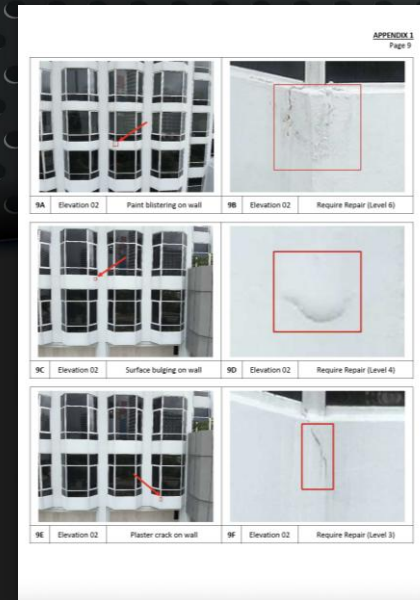
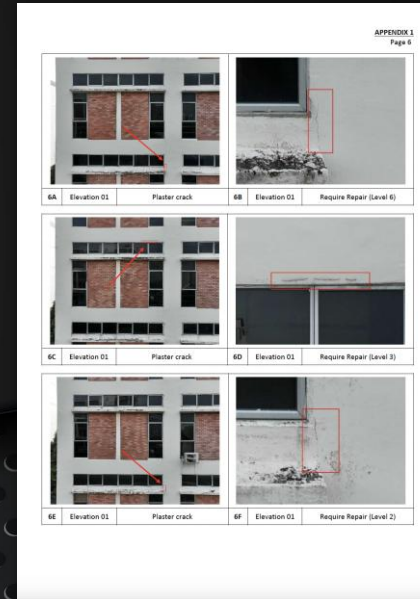


Preliminary Survey

C. List of unsafe facade defects that require immediate action					
S/N	Elevation	Image ID / Location*	Facade Type(s)	Description of Defect(s) (Indicate extent and severity)	Immediate mitigation measures put in place following evaluation of unsafe defects noticed as a result of inspection
51 Tannery Lane					
-	-	-	-	None	-
D. List of facade defects that require remedial action					
51 Tannery Lane					
S/N	Elevation	Image ID / Location*	Facade Type(s)	Description of Defect(s) (Indicate extent and severity)	Follow-up actions / recommendations (To complete within 6 months)
1	01	1A-D	Plaster wall/ Ledge	Concrete chipped	1. Hack and remove any loose concrete around the chipped concrete.
	02	7E-F			2. If there are corroded rebars exposed, brush down to remove rust stains from the rebar surface.
	03	12C-D			3. Apply anti-rust zinc rich primer paint to the exposed rebars.
	04	15A-E			4. Patch the affected area with polymer-modified cement mortar layer-by-layer until level with adjacent surface. Leave to cure and dry.
	05	16A-D			5. Paint over surface with primer and 2 coats weather bond paint with match colour, if required.
	06	30E-F			
	07	36A-F			
	08	41A-B			
	09	44C-D			
	10	50C-D			
	11	54C-D			
	12	58C-D			
	13	63E-F			
	14	69C-D			
	15	75A-B			
	16	77A-B			
	17	78A-B			
	18	79A-B			
	19	79B-F			
	20	84A-B			
	21	87E-F			
	22	91E-F			
	23	94A-D			
	24	97A-B			
	25	101E-F			
2	01	1E-F	Plaster wall/ Ledge	Plaster crack	1. Remove all cracked/loose plaster and wipe clean
	02	2A-F			
	03	3A-F			




100% Drone Appendix




10% Close-Range Report

Software & App for PFI



9:41

Login




Email

abc@novapeak.com

Password

Forgot password

Login



9:41

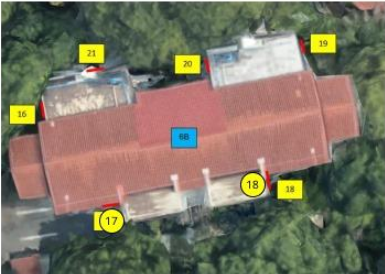
Projects

Project 01	FUJIFILM 10 New Industrial Road, Singapore 536201 0/6 Drops
Project 02	Nanyang Primary School 52 King's Road, Singapore 268097 16/28 Drops
Project 03	Tang Plaza 6/12 Drops
Project 04	Gem Residences 3 Lorong 5 Toa Payoh, Singapore 319459 8/8 Drops
Project 05	CASHEW HEIGHTS 99 - 105 CASHEW ROAD, SINGAPORE 679670 0/56 Drops

+ Create new Project

9:41

Blk 93



Description The Highest Block 22 storey

Drop Add new drop +

25

34

13

24

Drop 16 Drop 17 Drop 18 Drop 19

11

23

Drop 20 Drop 21

9:41

Projects

Project name (*)

CASHEW HEIGHTS

Description

5 Blocks in one PFI Notice

Blk 85

Blk 87

Blk 89

Blk 91

Cancel


Delete


Save

9:41

Drop 16

Drop 16 | 26 Feb 2025





Change drop image

Related defects

Defect 1

Defect 2

Defect 3

Add new defect

Presenter: Eugene Choy

© Copyright NovaPeak Pte Ltd 2025 Not for Distribution or Copy

Page 22 of 23



Eugene Choy (Managing Director)

+65 6844 0288

+65 9155 0412



eugene.choy@nova-peak.com

www.nova-peak.com



: : Critical Infrastructures : : Building Inspection : : Crane Inspection : : Tunnel Inspection : :

101 Defu Lane 10 Singapore 539222