



MSE EXCELLENCE AWARDS

Together, a Liveable and
Sustainable Singapore

MSE EXEMPLARY INNOVATION AWARD 2026

is presented to

Chee Jun Hong

who contributed to

Project AIM - Automated Inspection & Mapping

National Environment Agency

For pushing the boundaries of conventional thinking to achieve
significant impact.

Ms Grace Fu

Minister for Sustainability and the Environment
and Minister-in-charge of Trade Relations



Ministry of Sustainability
and the Environment
— SINGAPORE —

Project AIM—Automated Inspection and Mapping

Presented by Aida Meisera, Assistant Director (PHOPD) and Chee Jun Hong, Assistant Manager (DPC)

Team AIMpact is revolutionising urban inspections by using AI and video analytics to automatically detect cleanliness issues and map public assets, reducing audit completion time by over 80%.



Chee Jun Hong (second from right) and Aida Meisera (extreme right) taking home the Gold!

What was going through your mind right before you presented to the international audience?

Aida: As the last group to present, I felt the weight of the moment but was also excited to share the work our team had put in throughout the years.

Jun Hong: To be honest, I was very nervous as this was my first international experience. But I must thank everyone in our NEA ICQCC delegation who came specially to support the team.

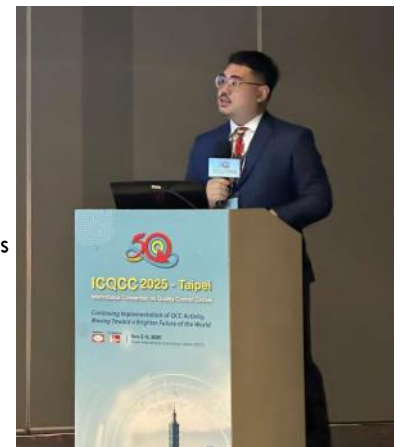


How did other international participants react when you explained you were using AI to detect litter?

We were happy when the audience was curious about how we developed our AI model. They were genuinely intrigued by our project and our continuous process of improving our ConOps. The engagement felt authentic and really reinforced Singapore's position as a technology leader in the region.

What was the biggest challenge in teaching AI to distinguish between "normal urban mess" and actual cleanliness issues?

AI is like a child that you must continuously teach and train on what we define as litter versus what is not. We spent months manually differentiating cases to improve both the recall and precision of the model.



Last slot, no problem! The team pushed through their nerves and nailed their project presentation.



The project attracted international interest and sparked networking opportunities across borders!

How do you envision this technology shaping Singapore's future as a smart city?

This technology will significantly improve our efficiency and resource allocation. Instead of relying on manual inspection or public feedback, we can proactively predict potential littering hotspots based on historical data, allowing us to deploy resources more efficiently and address problems before they escalate.

More importantly, it frees up our officers from harsh and laborious tasks so they can focus on higher-value work. It's incredibly fulfilling knowing that our work today is laying the foundation for Singapore's smart cities of tomorrow. The thought that our innovation could influence urban management beyond Singapore makes the long hours completely worthwhile.



CERTIFICATE OF RECOGNITION

AWARDED TO

**AIM – AUTOMATED INSPECTION AND MAPPING
[DPC, PHOPD]**

FOR NEA EXEMPLARY INNOVATOR AWARD

InNEAvation
Awards 2025



Ng Chun Pin
Deputy Chief Executive Officer
(Planning, Corporate and Technology)
National Environment Agency