

**Product:** hydroEye AI

**Customer:** Public Utilities Board, Singapore

**Vertical:** Water / Wastewater

## PROBLEM

Sewer overflows can lead to infrastructure damage, public safety and environmental health concerns. In order to prevent sewer overflows in Singapore's wastewater network, the **Public Utilities Board (PUB)** began a pilot trial with SpaceAge Labs in January 2021.

## SOLUTION

This trial saw SpaceAge Labs installing some 40 IoT devices in sewer manholes across the wastewater network in the areas of Little India, Geylang and Serangoon Gardens, which were more prone to chokages and subsequent overflows. These battery-operated wireless IoT devices are installed inside the harsh, confined conditions within a sewer manhole, providing PUB with real-time alerts when wastewater levels within the sewer system rises too high. When alerted, PUB officers would quickly check for blockages downstream. More importantly, the **hydroEye AI** solution provides early feedback to PUB officers to act in advance to clear any blockages in the sewer pipes and prevent overflows. Through the use of its real-time monitoring solution, SpaceAge Labs was able to inform PUB on areas that are likely to be blocked, so that PUB could take proactive, preventative actions to prevent overflows.



## IMPACT

When SpaceAge Labs embarked on this pilot with PUB, they knew that they could monitor water levels in sewer manholes at high blockage and flood risk areas, like Little India, Geylang and Serangoon Gardens. These areas have a high restaurant concentration and tend to have faster build-up of fat, oil and grease in the sewer network which will eventually lead to a blockage if not cleared. Over a twelve-month period from Jan 2021 to Dec 2021, **SpaceAge Labs has successfully alerted PUB to 10 events** within the wastewater network. PUB promptly cleared these blockages before any overflow events happened. SpaceAge Labs is pleased with the results of its remote monitoring solution and hopes to continue to partner PUB and provide them with a comprehensive monitoring solution catering to their needs.