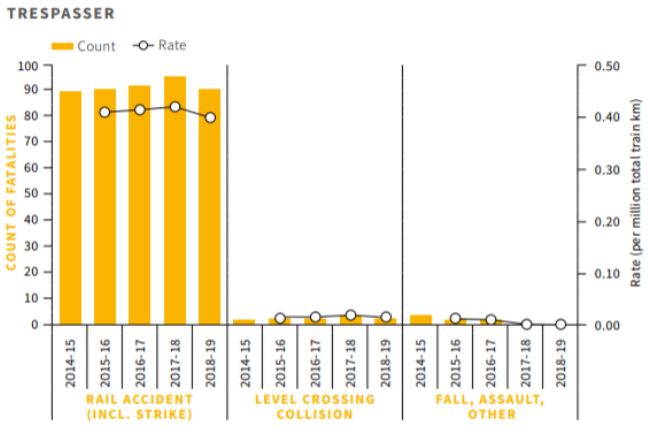
Contract Title	**North West Rail Link**
Customer Name	**Thales**
Size and Nature of Customer's Operations	Sydney Metro is a driverless rapid transit system operating in Sydney, New South wales. The system currently consists of one line that runs from Tallawong to Chatswood and consists of 10 stations and 36km of twin tracks, some of it underground. Unlike most driverless trains around the world which operate in self-contained corridors for safety reasons the Sydney train travels on traditional tracks which are accessible by people who may be travelling on regular trains. Challenge: This train system shares important segments with the traditional trains in Sydney which do not have the same protections against intrusions onto the track. Thales who is responsible for signalling and electrical systems for the train, selected iOmniscient as the partner to provide a key part of the safety system for this driverless train as shown below:  The Scope of work includes: • Detection of trespassers on the train tracks. • Notification of the control room when such events occur. • To ensure operators do not become complacent, false alarm must meet Thales' stringent criteria. **Detection of trespassers** Every year, Sydney Trains faces over 2,000 trespassing incidents resulting in an average fatality rate of 4% between 2018 and 2019. There have been zero fatalities on this train line since it commenced operations 

	Reducing false alarm: iOmnicient's Artificial Intelligence (AI) based Nuisance Alarm Minimization System (NAMS) arms every camera and helps to minimize the number of false alarms in this complex environment. Thales tested the system diligently right from the selection phase through to the pre-launch live trials.Thanks to NAMS, iOmniscient was able to meet the very stringent criteria set by Thales for operating with minimal false alarms. On 26th June 2019, this new train line, featuring a driverless train, started carrying passengers with MS Gladys Berejiklian, Premier of New South Wales and then Transport Minister in New South Wales Government travelling on the first train from Chatswood Station. 
Location of Engagement	Sydney
Dates Involvement (Started/Ended)	Feb 2019 – May 2019 For Implementation. iOmniscient continues to provide a maintenance service for its software.
Specific Involvement in the Project and Methodologies Used	iOmniscient is the technology provider of the software used to detect intrusion on to the track as required for the safe operation of the driverless train.