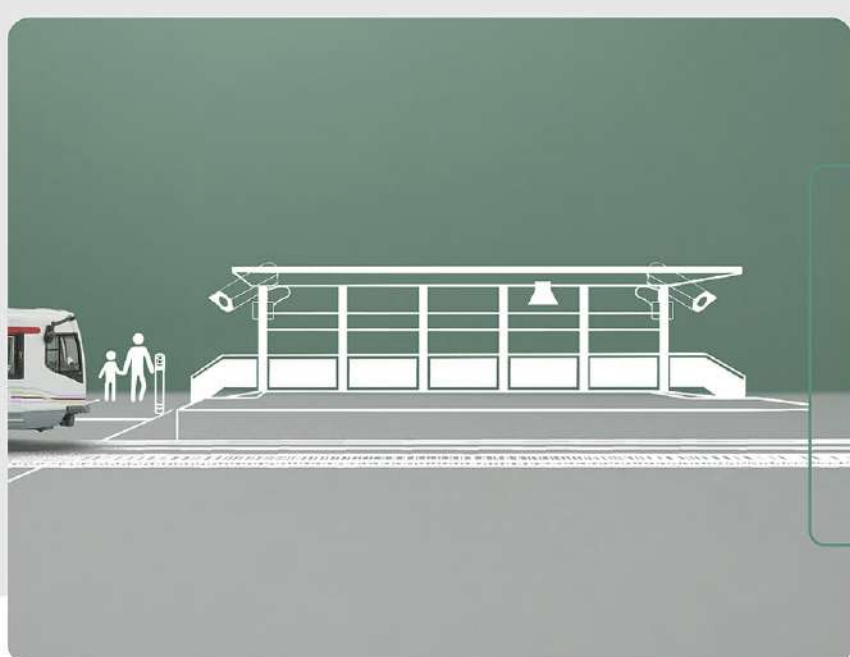


Integrated Speed & Position Supervision System (iSPS)

iSPS is a unique integrated digital solution for improving railway operational safety. Hong Kong Light Rail has experienced a 58% reduction on selected incidents (including conflicting train movements, train contact and platform duty related incidents) since the installation of the system

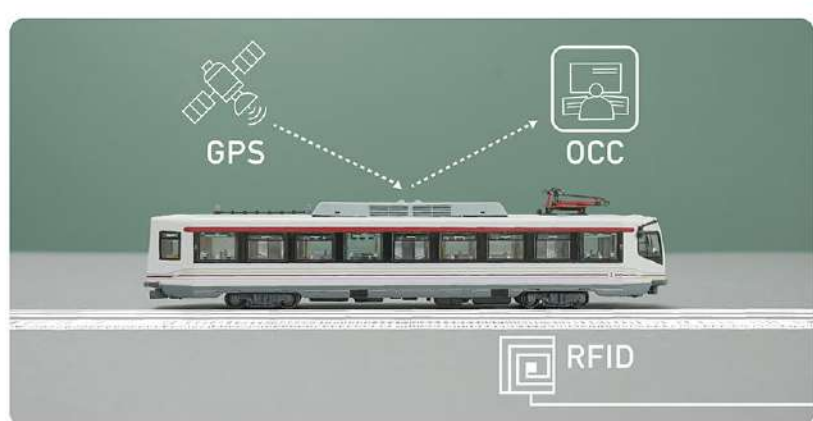
↓ 58%



Our Solution Highlights:

- Created from an operator's perspective
- All-in-one solution: design, installation, training & maintenance
- Easy-to-install
- Remote monitoring via app and web

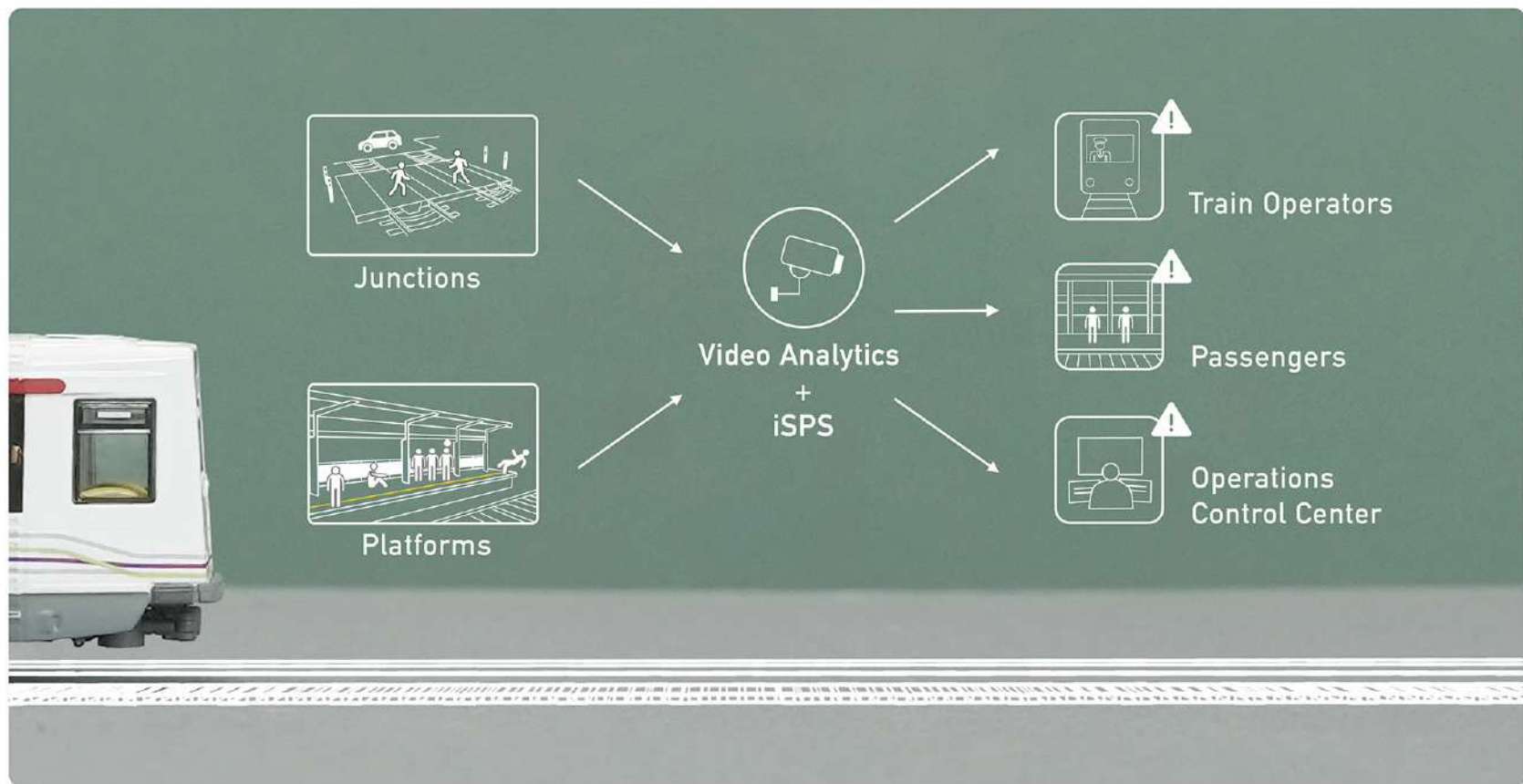
Product Features:



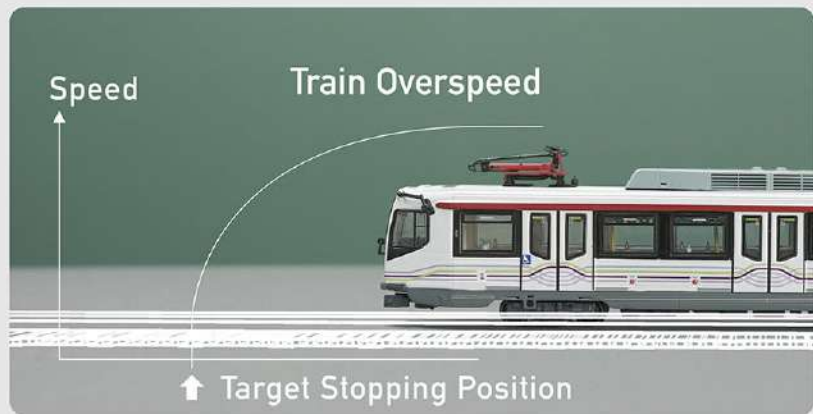
Equipping train with GPS receiver, RFID reader, and LTE technologies for real-time monitoring



iSPS panel provides visual & audio alerts to train operators



Integrating positioning and video analytic technologies with existing railway systems



Real-time speed and position monitoring with audio alert to train operators / OCC and automatic braking



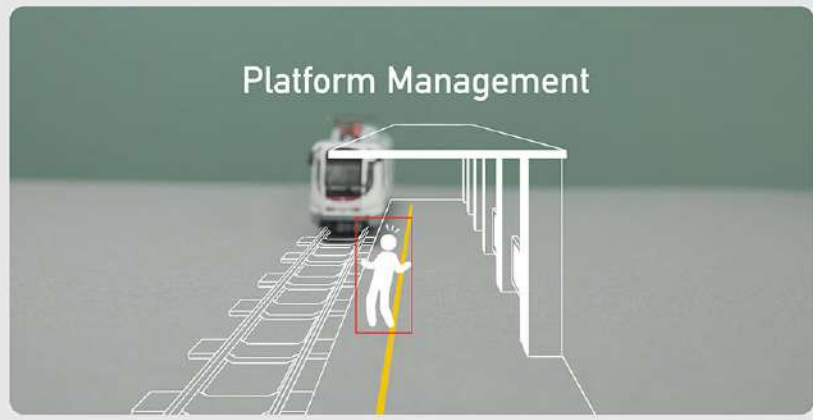
Prevent trains contact with audio alert to train operators and automatic braking on occasions where two trains are getting close



Alert at OCC and to train operators upon detection of intruding road vehicles



Audible and visual alert to road users and train operators



- Recognizing human posture and intrusion in danger zone
- Public announcement and alert to train operators for passengers beyond yellow line
- Detection of objects along tracks within station

Customizable modules to meet the needs of various operators

- | | | | |
|--|---|---|---|
|  Speed Supervision |  Platform Management |  Fleet Management |  Conflicting Movement |
|  Turnout Management |  Junction Management |  Close-up Monitoring | |



iSPS has achieved the standards listed below:

- EN50155 Railway Applications – Electronic Equipment Used on Rolling Stock
- EN50121-3-2 Electromagnetic Compatibility : Rolling Stock - Apparatus
- EN61373 Railway Applications – Rolling Stock Equipment – Shock and Vibration Tests
- EN45545-2 European railway standard - fire- safety
- Safety integrity level (SIL) -2 in accordance to IEC 61508