



**DUPONT  
SAFETY & SUSTAINABILITY  
AWARDS**

**DuPont  
Sustainable  
Solutions**

**OPERATIONAL IMPROVEMENT AWARD - GLOBAL WINNER**

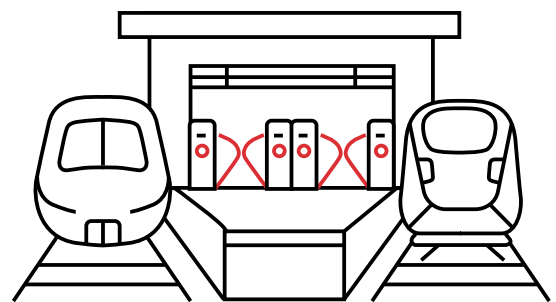
# SMRT Trains

The pioneer Mass Rapid Transit operator in Singapore, SMRT Trains Ltd. won the Global Operations Improvement Award at the 14th DuPont Safety and Sustainability Awards for its innovative Kaizen-based operational improvement program.

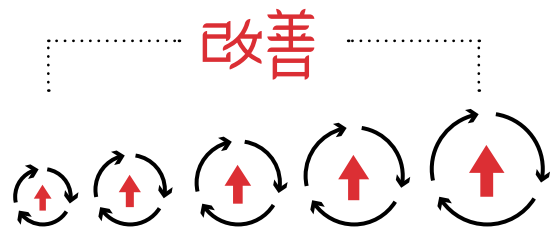
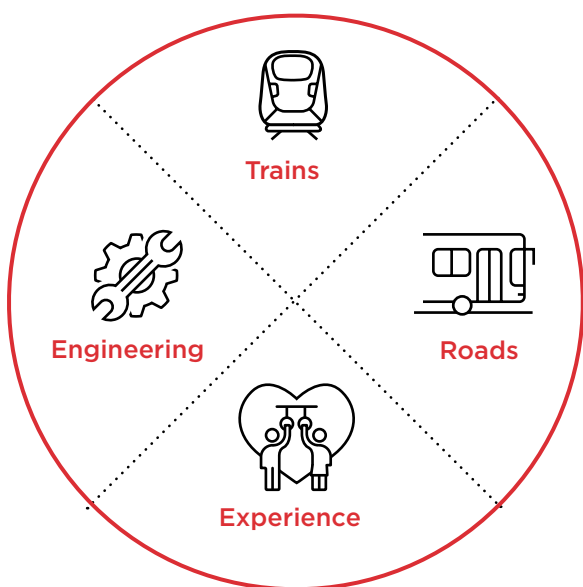


Every day, millions of commuters in Singapore use SMRT Trains. The Mass Rapid Transit operator has been providing transport services since 1987 and today operates and maintains four lines and a light rail transit system that cover over 148 km of rail track and connect 108 stations across the city-state.

Committed to enhancing its rail capability and engineering expertise to deliver best-in-class transport services and a positive experience to users, **SMRT Trains in April 2019 reorganized into four business units:**

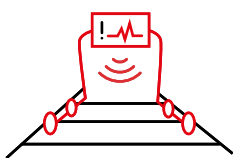


To realize its operations improvement objectives, **SMRT Trains adopted the Kaizen management philosophy** which encourages innovative initiatives that deliver continual improvements in workflows achievable by every SMRT employee.

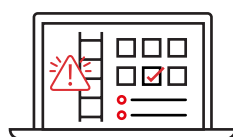


Overall SMRT Trains' innovative operational improvement program has delivered a significant increase in operating efficiencies, asset uptime, quality and consistency. With its record of 1 million Mean Kilometers Between Failure (MKBF) achieved in October 2019, SMRT Trains is today one of the world's most reliable metro system.

One outcome of this approach was the development of **SMRT Trains' award-winning laser track trolley (LTT)**.



Besides **saving approximately 9,000 man-days & S\$ 6.4 million** per inspection cycle, the LTT greatly enhances safety, reliability, efficiency and resource optimization.



Another result was the creation of a **new Track Access Management System** that automates booking of track access and thus improves management of maintenance activities during limited engineering hours. This new system has already delivered **estimated manhour savings of S\$ 1 million/year.**

A third achievement is the new **Mobile Operation and Maintenance System** which has allowed SMRT to cut travel time to maintenance sites, reduce paperwork and eliminate manual processing.



**Manhour savings equate to approx S\$ 2.9 million.**

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**With its record of**

# 1 MILLION

**Mean Kilometers Between Failure (MKBF)**



**SMRT Trains is today one of the world's most reliable metro systems.**