



Group Photo

Land Transport Authority, MTR Corporation Ltd. and RTRI Co-Host Information Exchange

The Railway Technical Research Institute (RTRI), the Land Transport Authority (LTA), and the MTR Corporation Ltd. (MTR) held an information exchange forum online on December 7, 2023. The forum was attended by 18 people from the RTRI, including Dr. Atsushi Furukawa, Executive Director of the Railway Technical Research Institute, 47 people from the LTA, including Mr. Leong Kwok Weng, Chief Engineer (Systems), and 48 people from the MTR, including Ms. Sha Wong, Head of E&M Engineering.

1. **Date:** December 7, 2023, from 14:00 to 18:30 (JST)
2. **Videoconferencing tool:** Microsoft Teams
3. **Organizer:** MTR
4. **Theme:** Digitalization, Innovation and Sustainability
5. **Background and Overview of the Forum**

RTRI, LTA, and MTR had hosted face-to-face information exchange forums on a rotating basis by each of the three parties since 2017 to strengthen partnership with Asian countries and

Presentation and Speaker

Time	Presentation	Speaker
14:00-14:15	Opening Remarks From Each Organization	Sha Wong (MTR), Leong Kwok Weng (LTA), Toru Miyauchi (RTRI)
14:15-14:40	Technical Study of Adopting Catenary Free Low-Floor LRV in MTR	Ken Fan (MTR)
14:40-15:05	Our Journey in Exploring Alternative Medium Capacity Transit Systems	Rico Chan (MTR)
15:05-15:30	Health Condition Monitoring and Maintenance Regime for Escalators	Edmond Yeung (MTR)
15:30-15:40	Break	
15:40-16:05	Singapore's Sustainability Journey in Rail E&M (Electrical and Mechanical)	Wang Wei Jun, John Yang, Jamie Lim, Eric Wong (LTA)
16:05-16:30	Sustainability Efforts in Planning, Design and Constructions -LTA's Experience	Lee Hoen May, Kelvin Goh, Samuel Teo (LTA)
16:30-16:55	Cutting-Edge Technologies for Railway Infrastructure Maintenance and Renewal	Chan Kim Hoong (LTA)
16:55-17:05	Break	
17:05-17:30	The Current Status of the Development of Decarbonization Technology for Railway Systems in Japan	Hitoshi Hasegawa (RTRI)
17:30-17:55	Development of International Standards for Ground-Borne Vibration and Ground-Borne Noise From Railway Systems	Kiwamu Tsuno (RTRI)
17:55-18:20	Track Geometry Monitoring and Management Systems in Japan	Daiki Saito (RTRI)
18:20-18:30	Closing Remarks	Sha Wong (MTR)

promote the transfer of Japanese railway technologies abroad. The most recent face-to-face opportunity was on October 31, 2019, when the 12th World Congress on Railway Research, WCRR 2019 was held in Tokyo. Thereafter, under travel restrictions imposed by the pandemic, we continued annual information exchange online.

Even with the pandemic subsiding over time, taking into account country-specific conditions, and just to be safe, we had

an information exchange forum online in 2023 similarly to the previous year. RTRI, LTA, and MTR each gave three presentations (see Table below). Each presentation was followed by lively and informative discussions with many questions and answers.