

ITALIA GIAPPONE **IDEAS & FUTURE** XXVIII ASSEMBLEA

MILANO NOVEMBRE 2016 – PALAZZO REALE 25/11

Panel 2: Transportation
Mr. Andrea Certo - MERMEC CEO

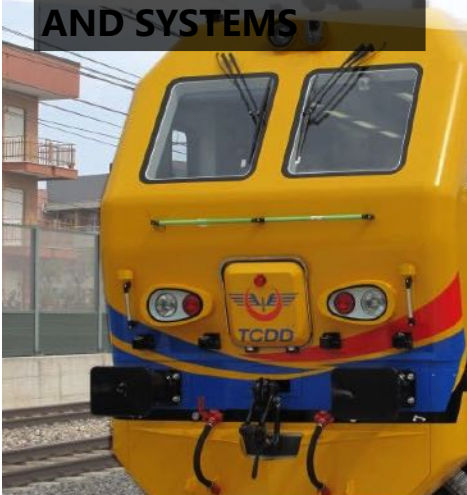


About MERMEC

World's leading supplier of integrated solutions for railways infrastructure inspection and automatic train protection

We help railways worldwide to increase safety saving time and money

MEASURING TRAINS
AND SYSTEMS



SIGNALLING
SYSTEMS



MEASURING
SERVICES



Customers in more than 54 countries

All market segments served, from high-speed to rapid transit



Unique blend of competence & know-how

More than 20 years spent helping railways and rapid transits worldwide

INSPECTION & MEASURING SYSTEMS



TRACK RECORDING CARS



ALL-IN HOUSE

From design to
manufacturing

360° APPROACH

Everything designed with the
complete picture in mind

SIGNALLING SYSTEMS

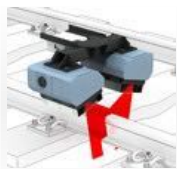


MAINTENANCE AND RENEWAL PLANNING

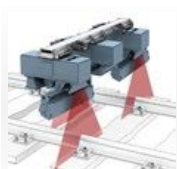


Measuring systems and vehicles

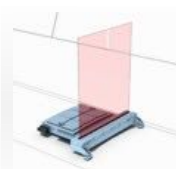
The wider and deeper portfolio on the market side



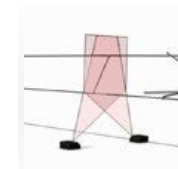
Track Measurement



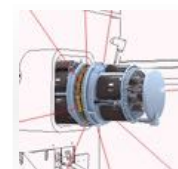
Track Inspection



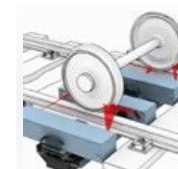
Catenary Measurement



Catenary Inspection



Tunnel Inspection



Train Monitoring



Measurement of Signalling & TLC

60+ types
Measuring Systems

4 models
Recording Cars



Measuring Services



1.

LIDAR SURVEY



- LIDAR points
- Georeferenced Photos and Videos (aerial view)

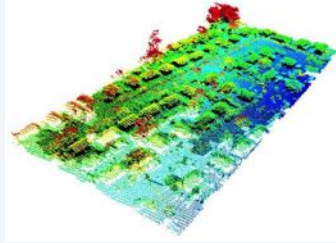


2.

DIAGNOSTIC VEHICLE SURVEY



- Georeferenced Localisation
- Condition Data
- Photos and Videos (infrastructure view)

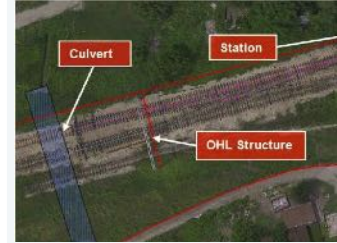


3.

GEOGRAPHICAL DATA PROCESSING



- Corrected Geographical Data
- Digital Terrain Model
- Orthophotos

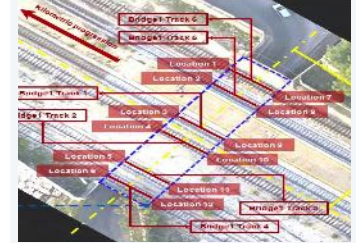


4.

OBJECTS EXTRACTION



- GPS and Track Referenced Objects including Track centerline



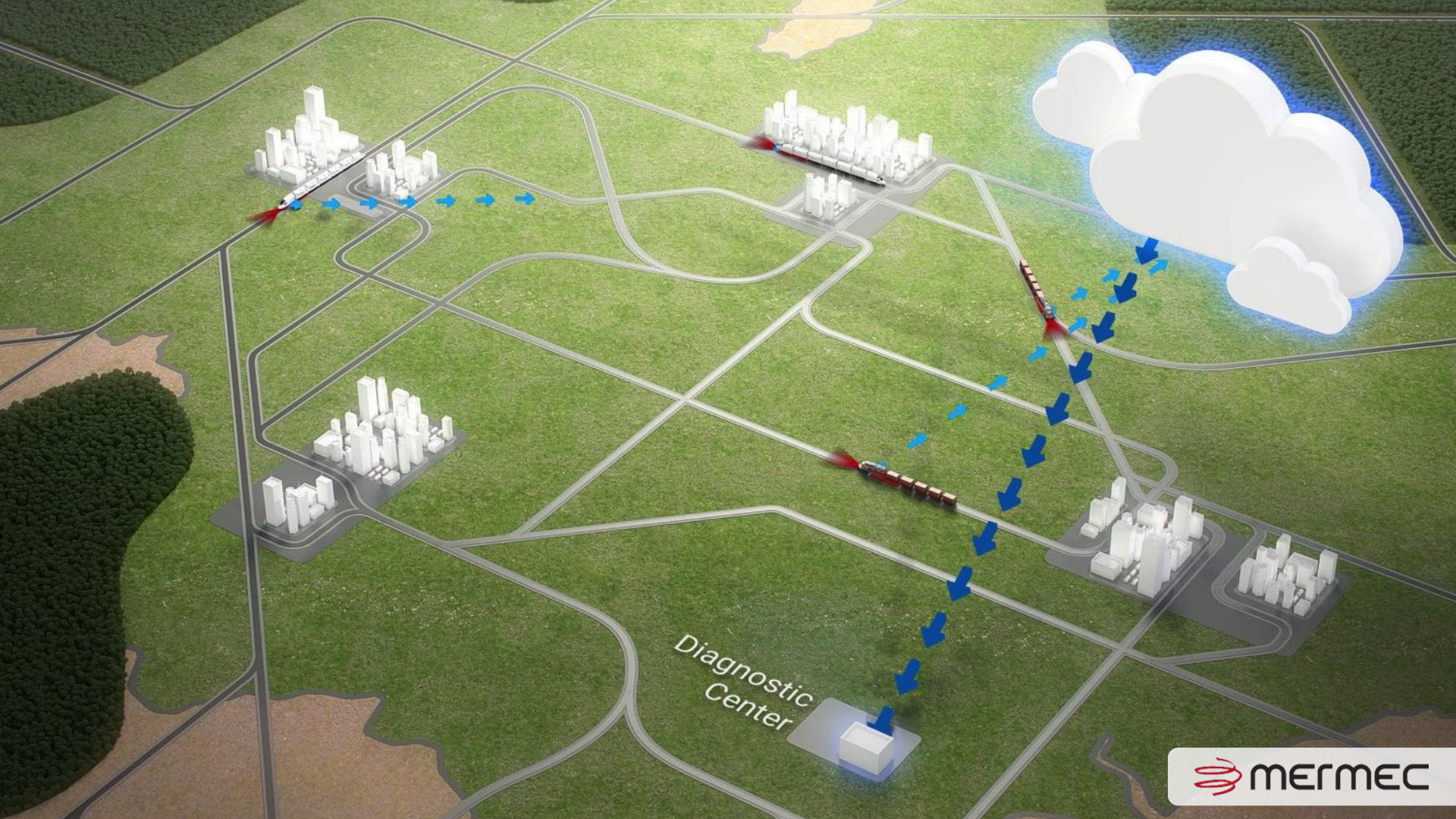
5.

ASSET CHARACTERISTICS POPULATION AND DATA TESTING



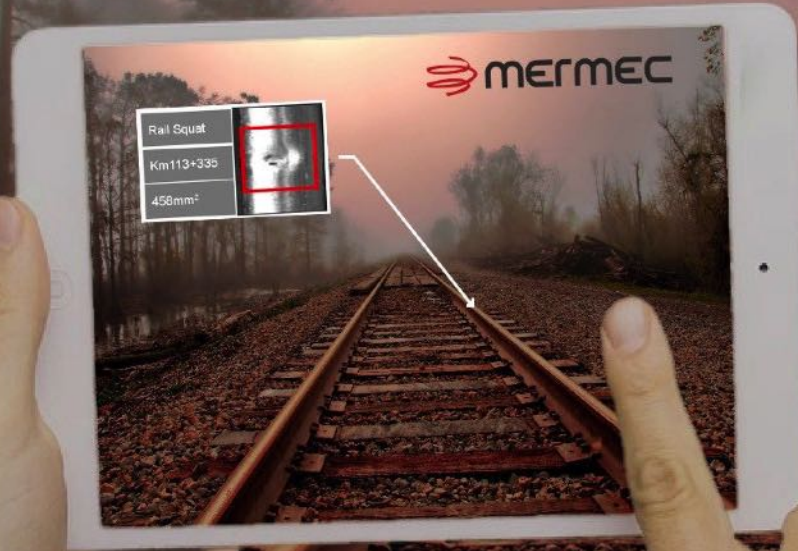
- Tested and validated Asset Database





Diagnostic
Center

Augmented Reality Defect Validation



Liikennevirasto

Finnish Transport Agency



10 + 5 Years Service Contract |

+140 Acquired Parameters |

Green Propulsion |

 mERMEC

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