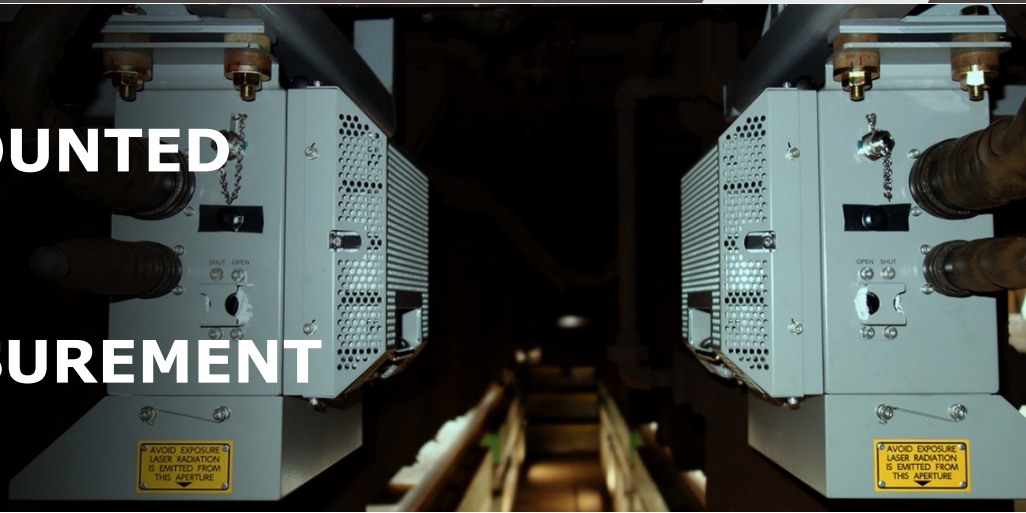
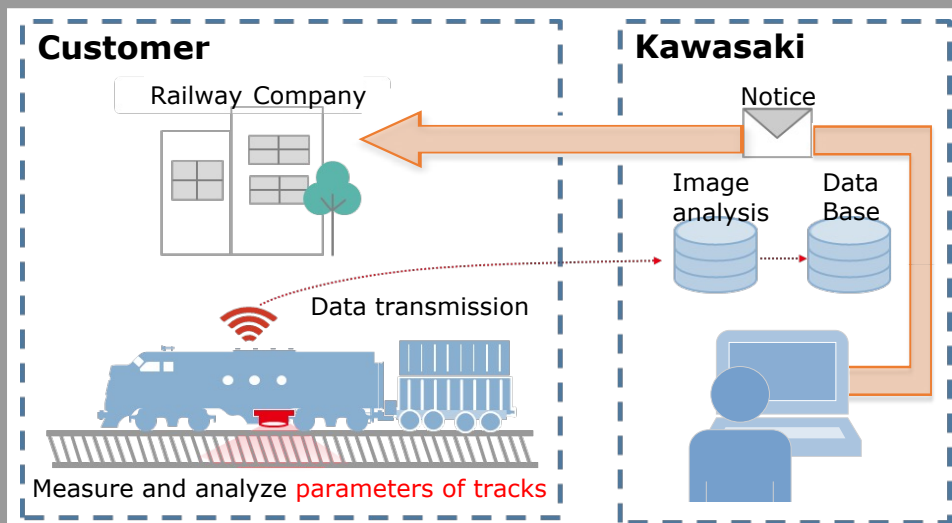


KAWASAKI LOCOMOTIVE MOUNTED AUTONOMOUS TRACK GEOMETRY MEASUREMENT SYSTEM



Kawasaki is excited to introduce the newest product for the North America rail industry. The Locomotive Mounted Autonomous Track Geometry Measurement System (LATGMS) can be mounted securely on a locomotive/passenger car and provides critical data, more frequently, faster, more precise and automatically.

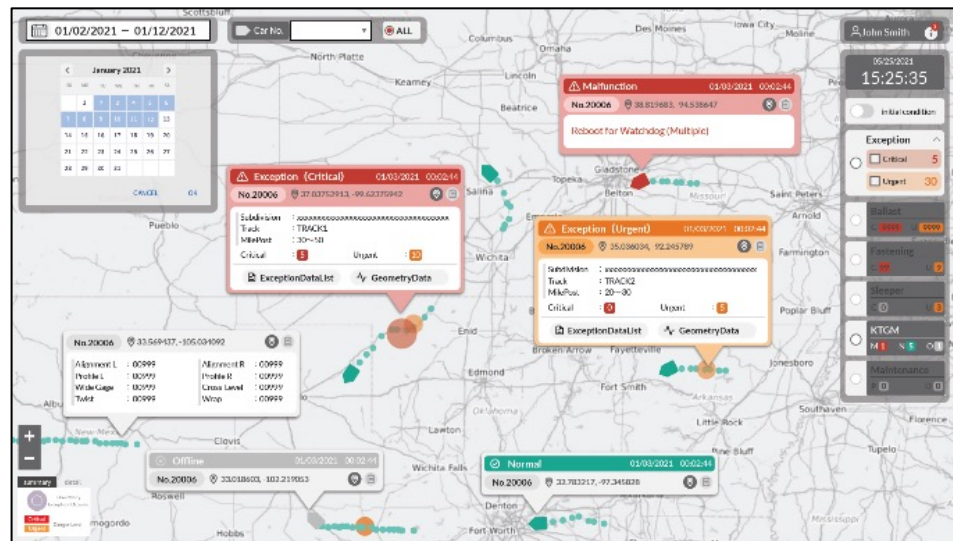


LATGMS continuously measures and analyzes parameters of tracks - including gauge, profile, alignment, cross level and twist - during normal service operations. In the event that the LATGMS detects irregularity of tracks, a notification is timely sent. Collecting data during normal service operations may decrease the frequency of inspections by dedicated track inspection cars and visual inspections by inspector.



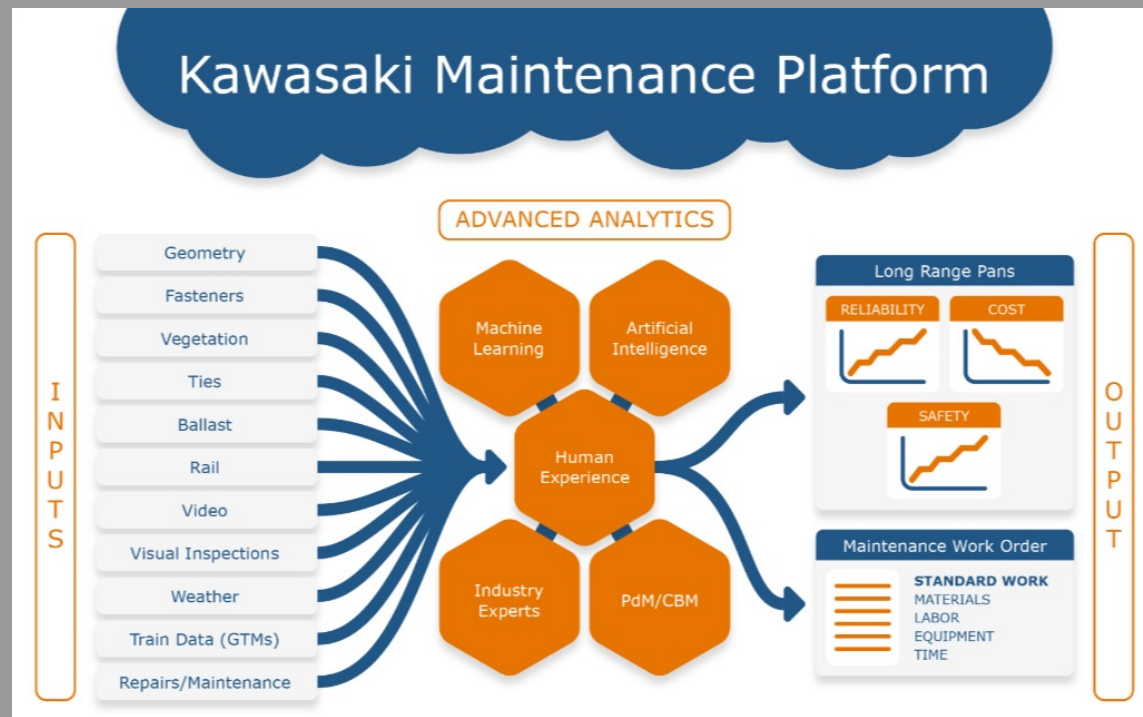
Features of the KAWASAKI LATGMS

- Increase frequency of inspections while shipping goods
- Future predictability by trend analysis
- Retrofittable on locomotives/passenger cars with a few components
- Proven and reliable in US rail condition



Future Technologies

Our vision is to deliver a platform for the rail industry that provides all track monitoring data, provides software solutions to analyze and predict maintenance needs, and offer services to execute the work.



Specification Sheet of LATGMS

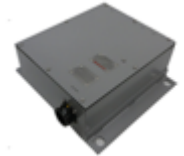
DAQ Unit



Camera Unit



Communication Unit



	DAQ Unit	Camera Unit	Communication Unit
Dimensions	14.4" x 15" x 4.8"	11.9" x 14.8" x 8.5"	12.3" x 11.4" x 4.2"
Weight	27 lbs	20 lbs	14 lbs
Dust and Water Proof	IP 54	IP 66	IP 54
Quantity / Locomotive	1	2	1
Laser Class	-	IIIa	-
General Requirement	IEC 60571		
Operating Temperature	-40 °F to 122 °F		
Relative Humidity	Up to 95% no condensation		
Shock and Vibration	IEC 61373 category 1, class B		
Electromagnetic Compatibility	IEC 62236-3-2		
Operating Speed	UP to 80mph		
Installation Interval	1 feet		
Operating Voltage	74VDC (to DAQ)		