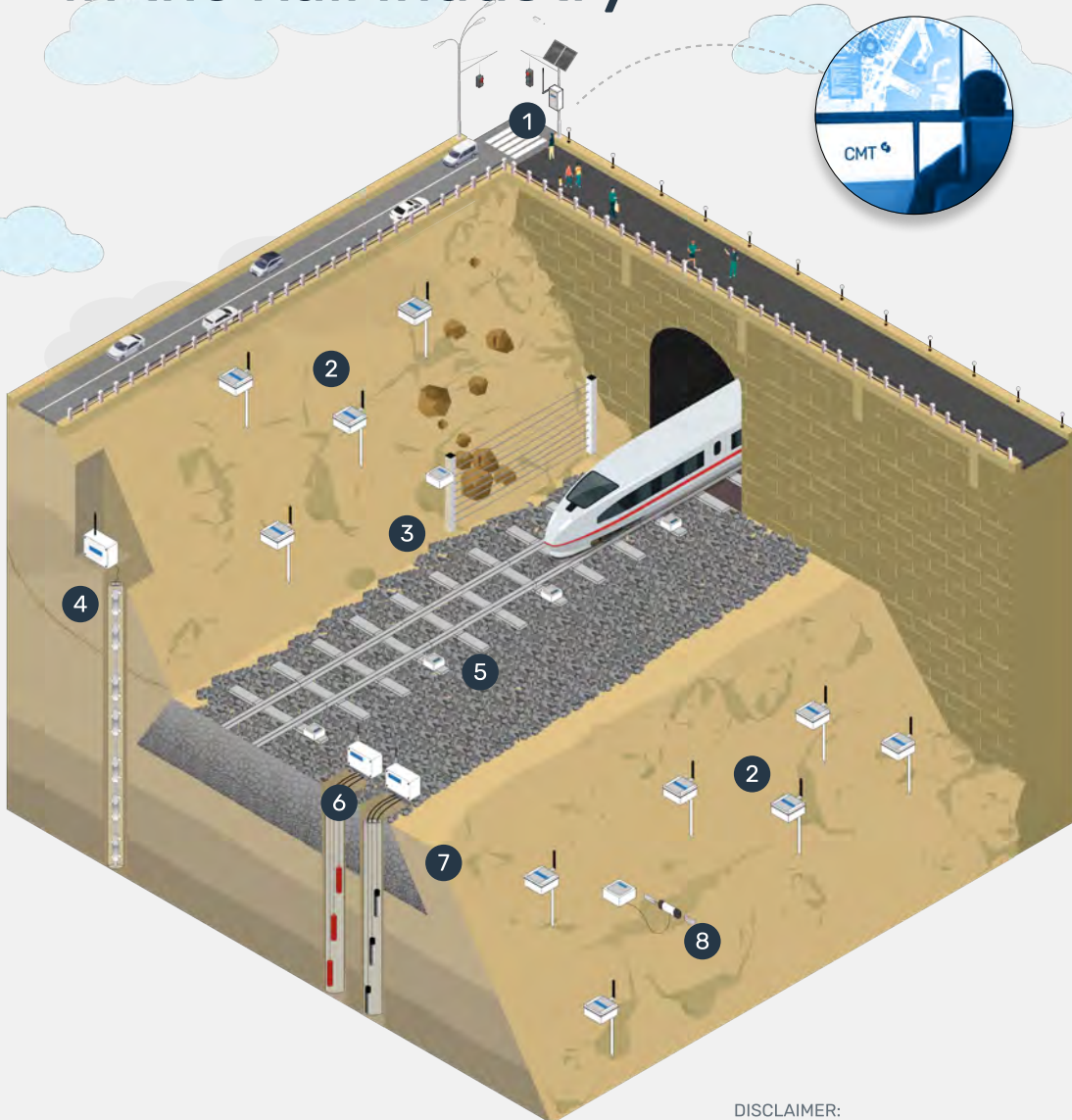


IoT Remote Monitoring in the Rail Industry



1 Remotely manage and monitor your network and all deployed devices either on-premise or through the cloud through a **Loadsensing gateway** sending data to the **Connectivity Management Tool (CMT)**. Integrate your data analytics software in CMT to create complete monitoring reports.

2 Monitor lateral displacement due to slope instability with the **Tilt90-x, wireless tiltmeter with external antenna**, mounted on a pole and installed on a slope.

3 Connect a rock detection system to a **Piconode**.

4 Monitor in-depth lateral displacements of the subsoil due to instability and/or presence of discontinuities using a string of in-place inclinometers connected to a **digital logger**.

5 Measure track conditions (cant, twist and height variation) with a **Tilt90-i, wireless tiltmeter with an internal antenna**.

6 Measure pore water pressure and water level variations associated with vertical displacement and bearing capacity of the soil with vibrating wire multipoint piezometers connected to a **vibrating wire 5-channel data logger**.

7 Monitor vertical displacements linked to soil settlement with a multipoint borehole extensometer (MPBX) connected to a **vibrating wire 5-channel data logger**.

8 Analyze soil cracks that can lead to soil failure with a crack meter connected to a **Piconode**.

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