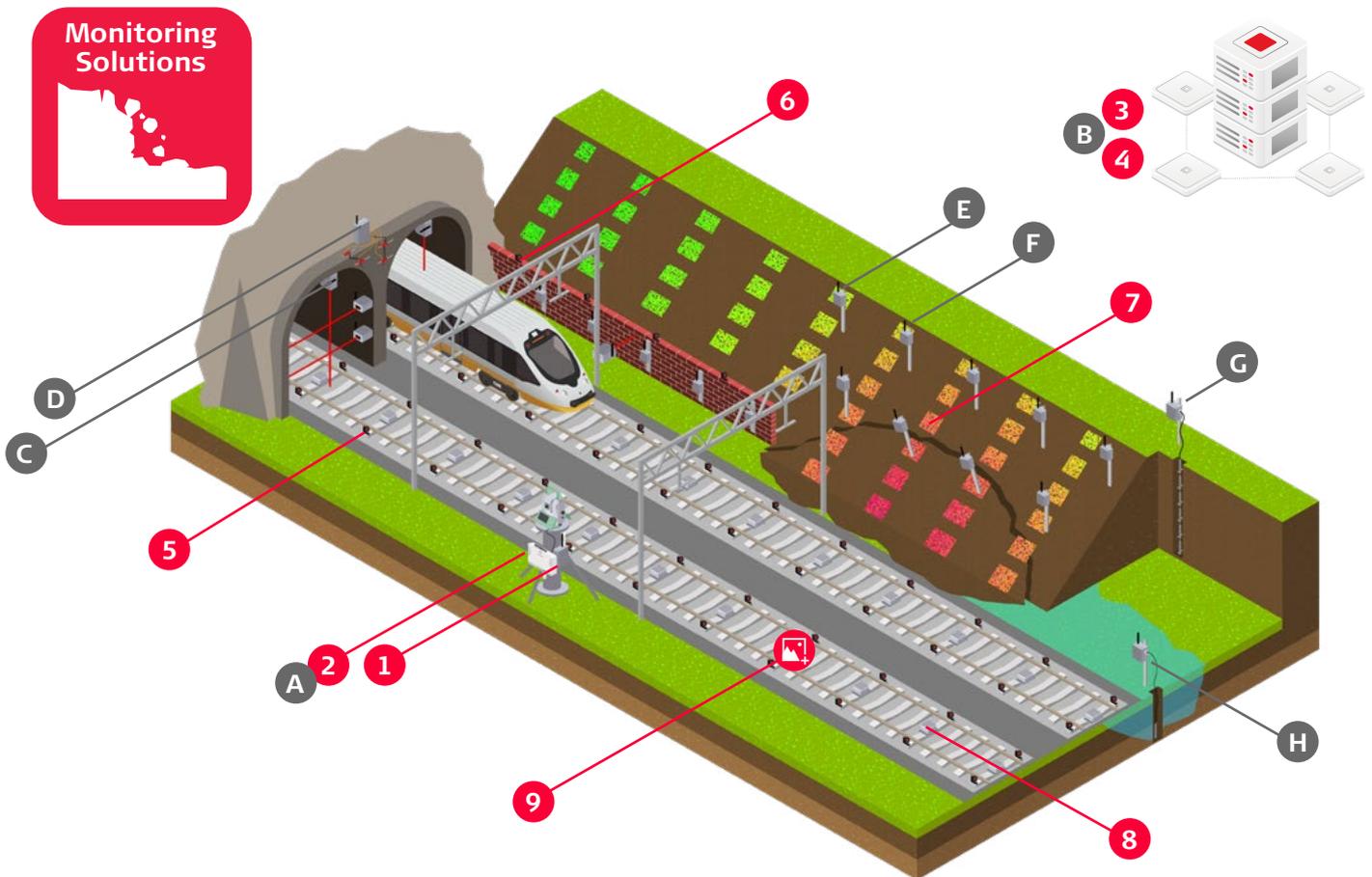


# Integrated Monitoring Solution Railway



## Leica Geosystems solutions

1. Leica TM60 I or MS60 total station for 3D measurement, imaging and scanning
2. Leica ComBox60, power & communications controller with GeoMoS Edge
3. Leica GeoMoS Monitor data acquisition & computation software
4. Leica GeoMoS Now! data analysis & visualisation software / service
5. Leica GMP104 Prisms measuring 3D absolute track geometry
6. Leica GMP104 Prisms measuring absolute 3D structure position
7. Remote detection of slope failure using fully automated 3D laser patch scanning technology via GeoMoS and MS60
8. Automated track geometry changes computed and alarmed via GeoMoS
9. Remote image capture / live video stream of embankment via TPS telescope camera

## 3<sup>rd</sup> party solutions

- A. Wireless smart data hub for geotechnical sensors
- B. Geotechnical sensor data import into Leica GeoMoS via AnyData
- C. Wireless sensor distance & tilt measurement for convergence / compression
- D. Wireless interface with locally connected crack gauges
- E. Wireless sensor distance & tilt measurement for clearance / offset and verticality of trackside wall
- F. Wireless tilt sensors to monitor landslide installed with ground anchors
- G. Wireless interface with locally connected In Place Incliner
- H. Wireless interface with locally connected water level gauge

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- when it has to be **right**

**Leica**  
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