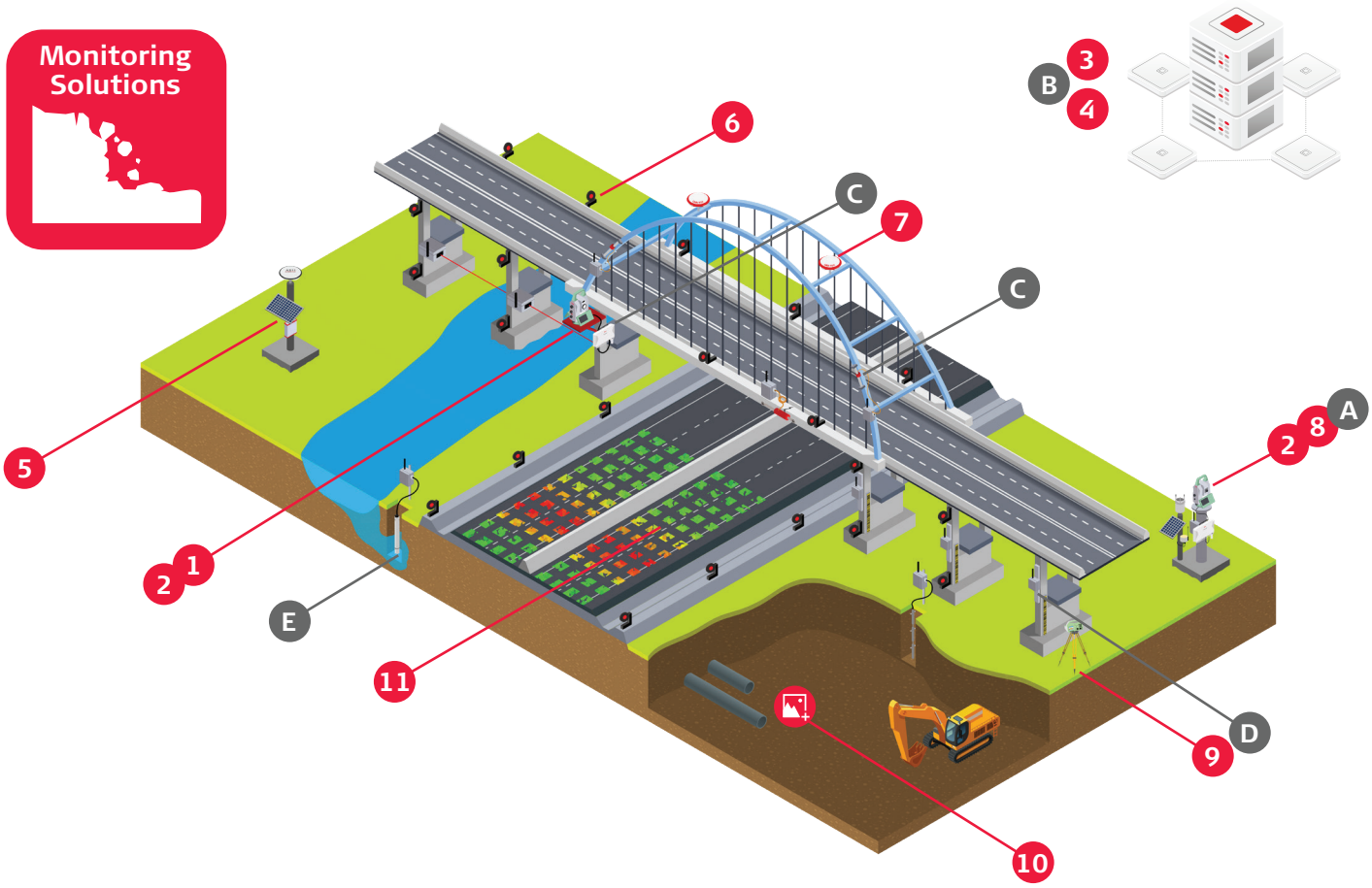
Integrated Monitoring Solution
Highway Monitoring



Leica Geosystems solutions

1. Leica MS60 MultiStation 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 AS11 / GM30 GNSS absolute 3D monitoring
6. Leica GMP104 prisms measuring absolute 3D structure position
7. Leica GMX910 Smart Antenna for positioning via RTK & Leica GNSS Spider verifying structural deformation / movement
8. Leica TM60 I total station for 3D measurement and imaging
9. Leica LS15 precise digital level used as part of manual campaign monitoring & barcode targets for precise detection of settlement
10. Remote image capture / live video stream of structure via TPS telescope camera
11. Remote detection of surface deformation using fully automated 3D laser patch scanning technology via MS60 and GeoMoS

Integrated 3rd party solutions

A. Wireless sensor network smart data hub
B. Wireless data import into Leica GeoMoS via AnyData
C. Wireless interface with locally connected VW strain sensor connected to structure
D. Wireless tilt sensors to monitor structural rotation
E. Wireless interface with locally connected water level sensor