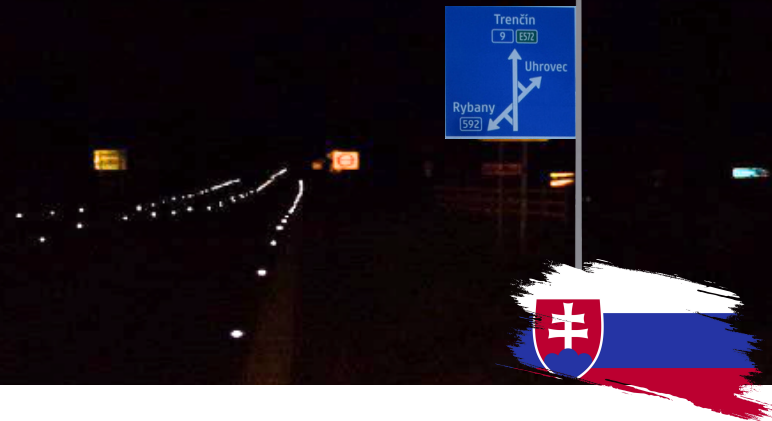


Case Study

Slovakia

Banská Bystrica



Background

The road network of Slovakia is dense and consists of motorways, expressways, 1st/2nd class state roads and local roads. Out of 18,000 km of public roads 1st class roads represent nearly a fifth.

Slovakia has adopted vision zero as the basis for their road strategy with erso (European Road Safety Observatory) reporting that statistically more than the average amount of fatalities occur in this country during rain and even more during night time. To address this 3 major 1st class routes were identified for route safety solutions by our local partner Hakom, in Slovakia.

Solutions required were across Central Slovakia on the first class roads of:

Site 1 - Banská Bystrica region - Mníchova/ Lehota

Site 2 - Banská Bystrica region - Žiar/ Hronom, Martin/Zvolen, Uderiná/ Vidiná

Site 3 - Svinia/Michalovce

Key Benefits ▼

- Clearer road layout and improved route safety
- Lower lifetime costs than traditional road studs
- 10 times greater visibility for drivers than traditional reflective road studs
- Long lasting, carefree operation with snow plough resistant housing
- Highlight roundabouts, sharp bends, dips in the road

Solution

Over 3000 SolarLite Flush (F) Active Road Studs stretching more than 250km were installed in 2022 at each of the 3 sites. This now provides drivers with a clearer indication of the road layout ahead whilst improving the safety of the route through clear delineation at night time:

Site 1 - Total length - 55km; one/double sided white and red LED studs.

Site 2 - Total length - over 111km; both one/double sided white and red LED studs.

Site 3 - Total length - over 87km; white and red one sided LED studs.

Many regions in Slovakia are prone to heavy snowfall from November through to March so our specially designed snow plough housings were also installed in order to protect the solar stud from any potential machinery damage.

The solar studs provided a cost-effective, environmentally friendly and long term solution to night-time road safety, with minimal damage to the studs from the snow ploughs. A testament to this successful solution is the procurement for a further 3,769 in 2023 and early discussions for a third phase in 2024.



SolarLite F with specially designed snow plough housings