P36: Monitoring highway and railway networks
Maturity score

Mean: 2.5	**STD:** 0.66

Constraints and limitations
• SAR signals have limited penetration through certain materials, which can obstruct the measurements of ground movement beneath these surfaces.
Relevant user needs
UN37: Projection of risk to portfolio assets into the future.

R&D gaps

• Not cost-effective as need very detailed height data and an understanding of subsidence risks

Potential improvements drivers

• Develop automated algorithms and systems for the detection of any subsidence. These algorithms can process large datasets quickly and provide real-time or near-real-time alerts to users when subsidence is detected, enabling prompt responses.
• Provide tools and services for long-term trend analysis, enabling users to assess subsidence patterns over extended periods.

Utilisation level review
Utilisation score

Mean: 1.80	**STD:** 0.75

No utilisation

• Users' lack of EO knowledge and skills to utilize the EO product.
• Unawareness of the existence of this EO product.

Low utilisation

Medium utilisation
• Higher cost of using the best available commercial EO product.

High utilisation

Critical gaps related to relevant user needs

Guideline gap

UN37: Projection of risk to portfolio assets into the future.