Smart Fence

OPPORTUNITY
Rockfall incidents on railway track and road carriageways can cause significant injury, infrastructure and vehicle damage, and delays, costing the economy millions of pounds.

Rockfall catch fences are mechanical structures which are used to protect railway infrastructures in mountain regions. The serviceability of these fences needs to be continuously checked and where a rockfall incident occurs a rapid response is required.

PROJECT
This project aims to design a remote condition monitoring system (CMS) to continuously monitor rockfall catch fences and to provide a real-time warning notification when a rockfall incident occurs. The CMS will change rockfall catch fences into smart protection systems and hence significantly enhance their ability in protecting railways.

OUTCOMES
• New CMS devices to be delivered to the market to monitor rockfall incidents of catch fences
• Increased company revenue
• Increased client savings
• Circa 50 jobs safeguarded and 10 created

SUPPORT
Total Project Value - £104k
CSIC Contribution - £30k

PROJECT DURATION
August 2017 - January 2018

Innovation Support: Product Innovation
Sub Sector: Infrastructure