Some data producers may be subject to integration costs and will not be managed efficiently, which can lead to loss of life, environmental damage and heavy fines.

**OUR SOLUTION**

Tailings Insight – Plus is a fully managed solution, which provides the gold standard in real-time TSF monitoring, ensuring your data gets from the mine-site to the cloud, providing smarter, faster decision making, improved safety standards and regulatory compliance. Our solution makes certain that mining companies who are most serious about the effective management of their TSFs have all the tools to lead on Environmental and Social Governance (ESG), and those TSFs which are particularly important to focus on are monitored around the clock. Miners, auditors, insurers and regulators can view every data point, from every TSF, instantly, via one application for a single monthly fee.

The solution combines Inmarsat’s Tailings Insight – Cloud application, global L-band satellite connectivity, LoRaWAN (Long Range Wide Area Network) edge connectivity, sensor integration, installation, training and ongoing support. Data is transferred from sensors via LoRaWAN, across our ultra-reliable L-band satellite network and into the application. We provide a service level agreement (SLA), so you can be confident all the necessary data is available whenever you need it. Our application offering, Tailings Insight – Cloud, offers a fully customisable interface, providing real-time visibility of your sensor network. Features include top down and cross section perspectives on sensors built on and into dams, data on pond elevation, piezometric pressures and inclinometer readings, as well as many other customisable data inputs*. It also incorporates advanced alarm monitoring capabilities, data archiving, journaling and easy-export functionality. For a full list of the features of Tailings Insight – Cloud, which can be procured as a standalone option, please see corresponding solution sheet.

**CONNECTION SERVICES**

- Long Range Wide Area Network (LoRaWAN)
- Broadband Global Area Network (BGAN)

**FEATURES**

- A fully managed service that includes robust connectivity, integration, training and ongoing local improved for simplicity and peace of mind
- Tailings Insight – Cloud – industry-leading and feature rich application that enables you to view all tailings data in one place and in real-time
- Ultra-reliable connectivity – the solution includes Inmarsat’s L-band BGAN global satellite connectivity that operates with 99.9% uptime and LoRaWAN edge connectivity
- Security – our networks and data management practices are secure and exceed industry guidelines
- Service level tiers – tailor your solution to your individual requirements with our tiered approach to SLAs
- Reliable backup - standalone infrastructure in the event of damage to on-site electricity or connectivity networks. Can be used as a reliable backup to cellular connectivity

**BENEFITS**

- Faster decision-making to support proactive management and reduce safety risks
- Build transparency – data is accessible to your choice of personnel, regulators, auditors and insurers
- Developed to surpass upcoming tailings monitoring standards, improving company Environmental and Social Governance (ESG)
- Simple relationship – one global provider, with a 40 year history in safety services, for tailing monitoring on all-sites
- Reliable backup – standalone infrastructure in the event of damage to on-site electricity or connectivity networks. Can be used as a reliable backup to cellular connectivity

**OUR CHALLENGE**

The mining industry is under increasing pressure to manage the risks posed by tailings storage facilities (TSFs). Gaining greater insight into the status of TSFs is crucial to improving management, but traditional, manual and siloed processes are unable to provide the detail necessary to enable this on a company level. Real-time monitoring and data aggregation platforms that provide company-wide reporting on conditions on tailings storage facilities are increasingly being viewed as a requirement to meet tightening regulatory standards. However there are challenges preventing real-time tailings monitoring varies on a site-level; in many cases connectivity is either unreliable or non-existent, or offline because nobody is responsible for its upkeep, meaning there is no way to get data off-site. Without consistent connectivity, critical data will not be monitored or analysed, and dams will not be managed efficiently, which can lead to loss of life, environmental damage and heavy fines.

For more information

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* Some data producers may be subject to integration costs

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ABOUT INMARSAT

Inmarsat is the world leader in global, mobile satellite communications. It owns and operates the world’s most diverse global portfolio of mobile telecommunications satellite networks, sustaining business and mission critical safety & operational applications for more than 40 years. It is also a major driving force behind technological innovation in mobile satellite communications, sustaining its leadership through a substantial investment and a powerful network of technology and manufacturing partners. Inmarsat operates across a diversified portfolio of sectors and holds leading positions in the Maritime, Government, Aviation and Enterprise satcoms markets, operating consistently as a trusted, responsive and high-quality partner to its customers across the globe.