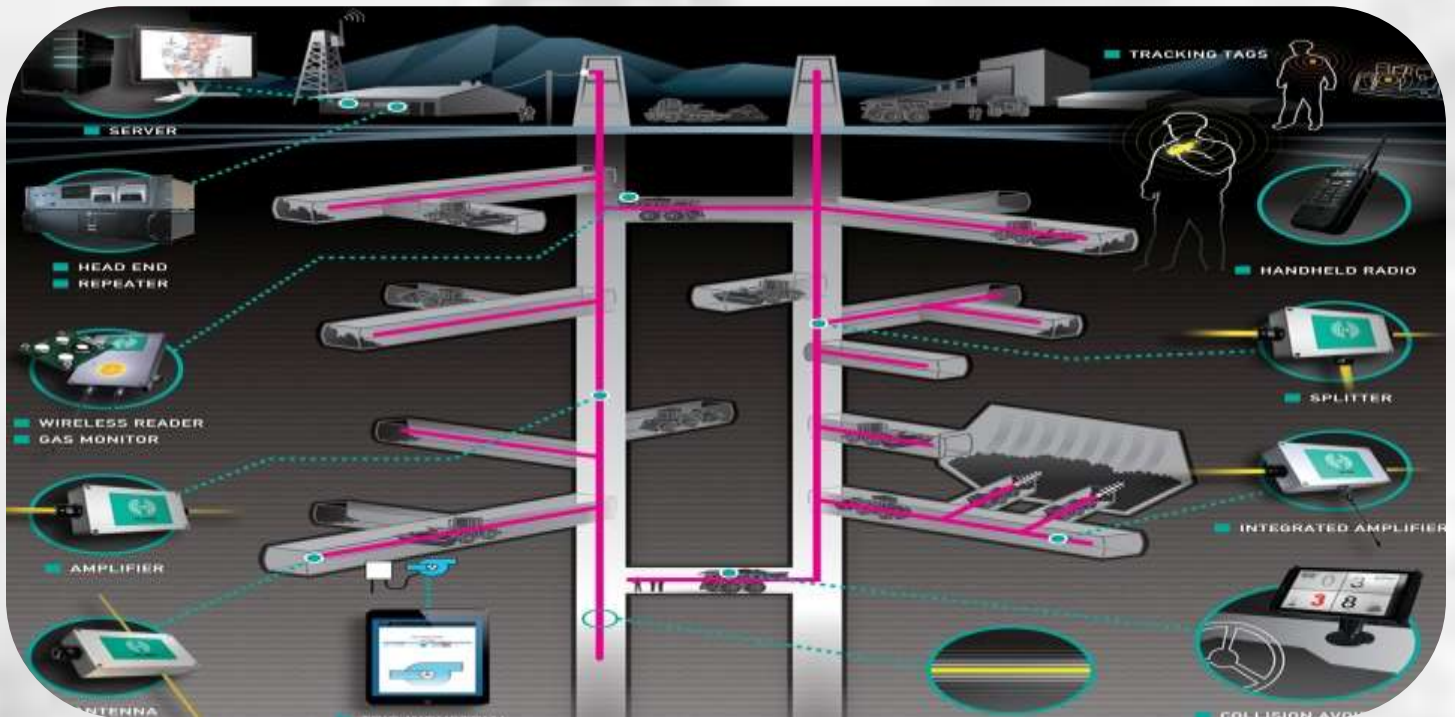


UG Asset Tracking with Anti-Collision System



TranzTel Technologies India intends to introduce its long-range asset tracking system in the Indian U/G Mining Industry. An anti-collision system can be integrated with this system to make the working zone safer.

The operating principle is simple. We nestle a uniquely coded active RFID Tag in every asset moving underground namely a miner caplamp, a coal cart or a loader. The fitted tag will intermittently emit signal which will be picked up by strategically located access points throughout the mine. These data will be sent over the network continuously to the control room above ground, thus keeping the central database updated. A software will interpret and analyze these data and present them in a comprehensive customised form on a monitor screen. As a result, zone operation monitoring, traffic control, asset management can be carried out more efficiently.

An anti-collision system can be integrated with this tracking system. Low-range sensors can be housed on moving machines to catch the emitting signals from the tags in the miner caplamps present within a 4m radius. Once spotted, the device will send a signal appropriately for immediate machine immobilization thus avoiding a potential man-machine collision.