

Probe IMT Group is an innovative company with an array of products and solutions that significantly improves both the design of digital mines and operation of collision avoidance, auto electrical, and integrated solutions for productivity and safety in the mining and construction sector.

our case studies

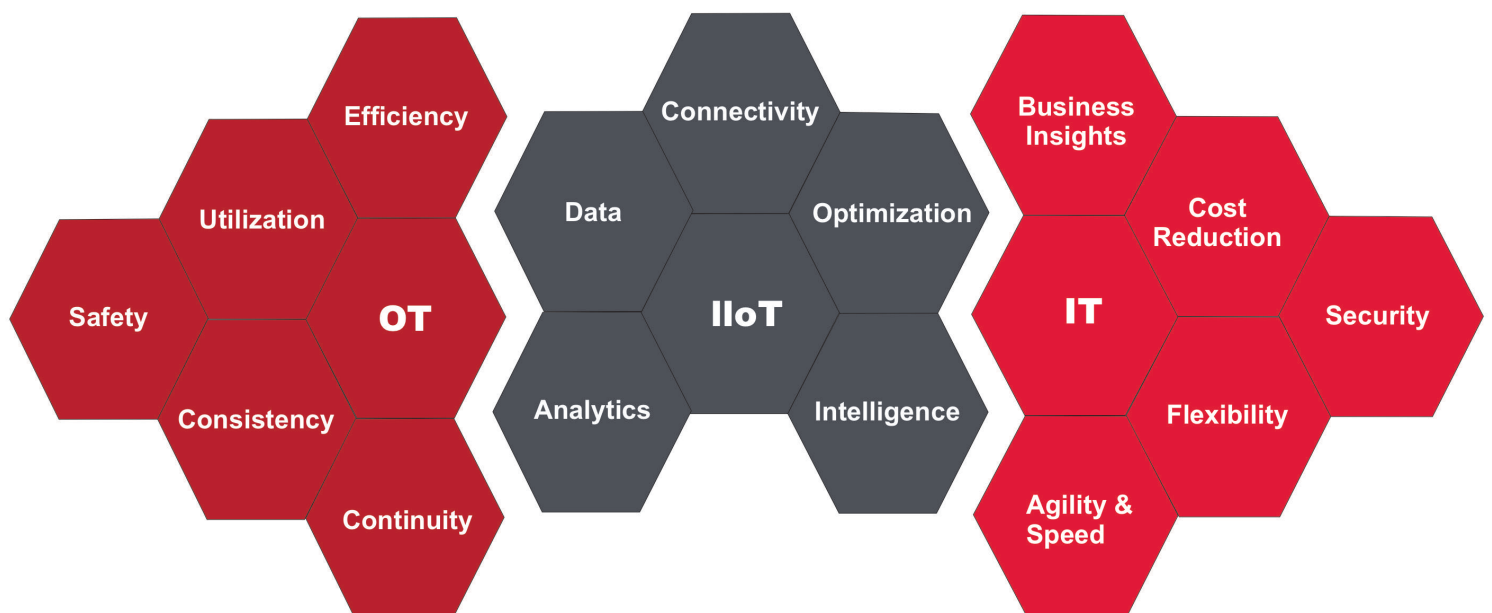


Integrated Solutions for Productivity and Safety

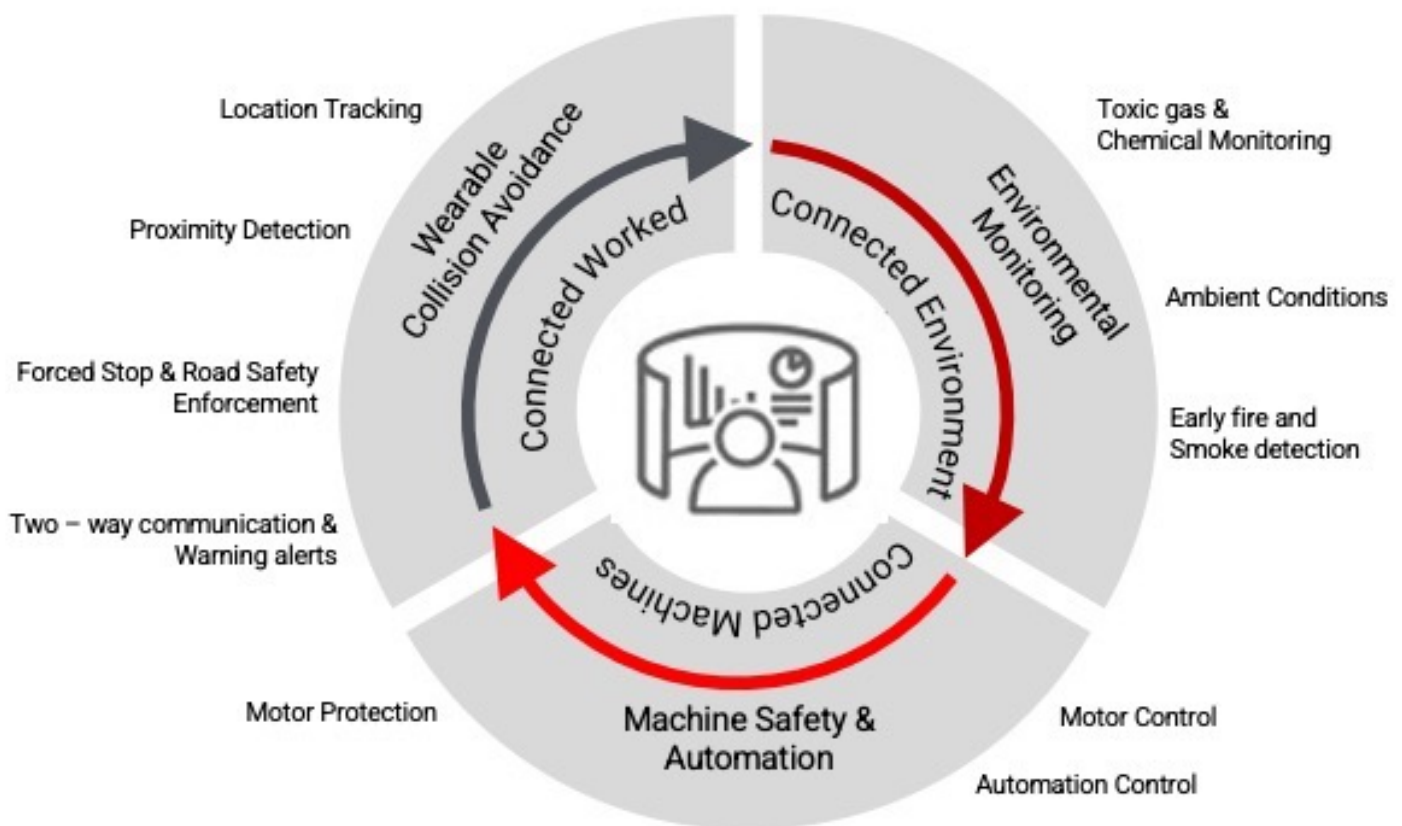


Probe IMT and its OEM partner M3SH, is partnering up with CSIR (The Council for Scientific and Industrial Research) and the University of Stellenbosch to form a strategic collaborative partnership to support SAMERDI's RTIMS research and solutioning programme.

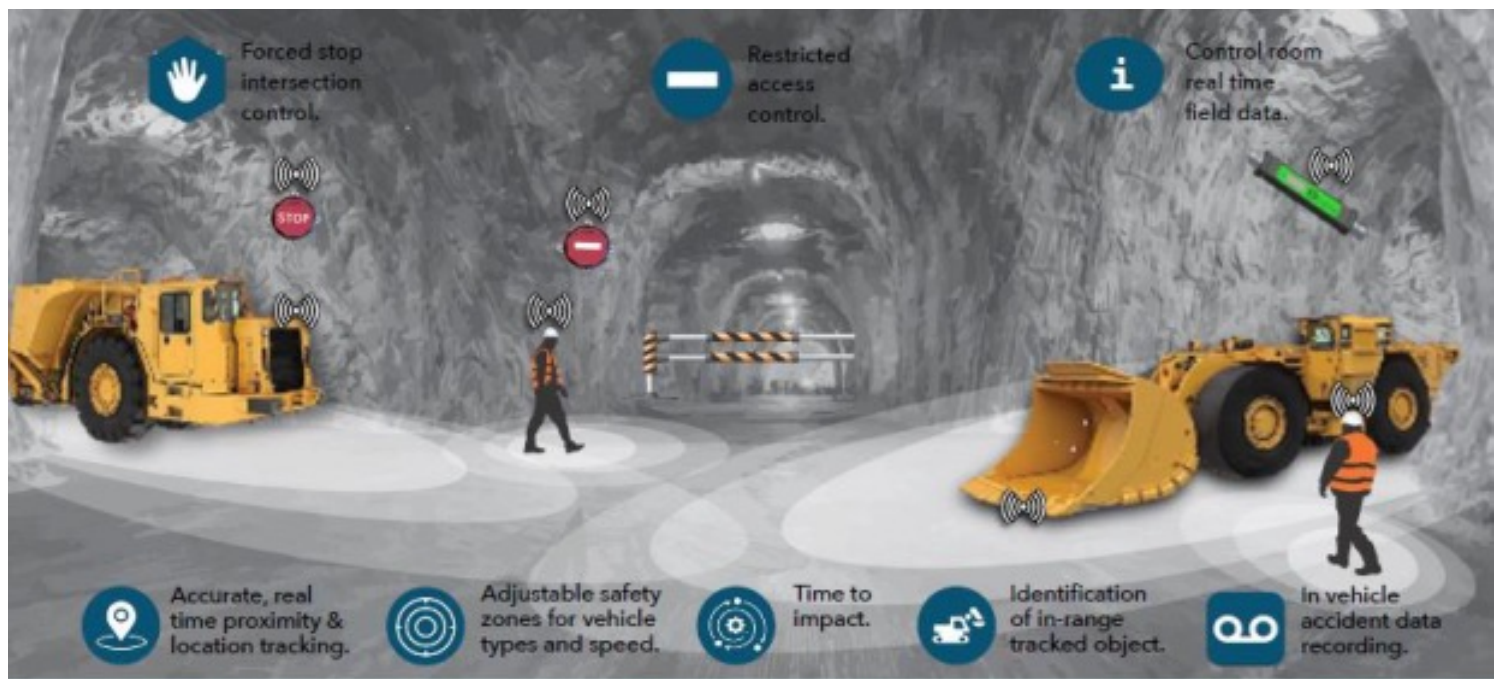
The scope of work highlighted below, represents the provisioning and implementation of a Connected Mine – Industrial Internet of Things (IIoT) solution that is inter-operable and built on open standards protocols. The proposed underground solution includes the following core predictability modelling and new business insights.



Functions: collision avoidance, proximity detection, location tracking, traffic management, personnel health & safety and environmental monitoring. The field data obtained, will provide the two identified research partners (University of Stellenbosch and CSIR) with the opportunity to conduct advanced data analytics and data extrapolations producing.



The adoption of such a system aims to bring together the benefits of Operational Technology (OT) and Information Technology (IT) – offering safer mine sites for workers, a digitally enabled workforce, more predictable mining operations, underground surveillance and intervention as well as the opportunity for automation.



M3SH FleetPRO wireless communication sensors and IEEE 802.15.4 open standard protocols:

SHF

Super High Frequency radio



Proximity detection sensors



Peer-to-peer distance and proximity detection

TOF

Time of flight

Real time wireless field data exchange / control room communication:

Surface Mining:

GNSS

Global Navigation Satellite System

Underground Mining:

i

M3SH iCable gateway device
Field-data router

OUR PHILOSOPHY

At Probe IMT Group of Companies, we do not merely seek to expand our footprint or business volume.

Our “business philosophy” is dedicated to earning the trust of our customers, by contributing idiosyncratic client service, as well as to grow with and encourage our employees to reach their full potential, which will ultimately improve their standard of living. We place listening to each other at the core of our very being.

We challenge ourselves to think objectively and to continuously improve our business through better ideas. Working as a team is imperative to the success of our organisation, “teamwork makes the dream work”.

Our “moral philosophy” allows us to treat customers, suppliers, and each other as we expect to be treated: with respect, honesty, and fairness. We serve as positive examples for each other and take pride in and show enthusiasm for our work. When necessary, we make short-term personal sacrifices to benefit our long-term interests.

Our “management philosophy” is consistent with our Promise, Vision, Mission and Values and we agree to practice these principles for our mutual benefit.

The future prosperity of Probe IMT Group of Companies is directly linked to the unity and prosperity of our internal and external stakeholders.



INTEGRATED SOLUTIONS FOR PRODUCTIVITY AND SAFETY

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