

EXCELLENCE IN
SAFETY

WINNER

KUMBA IRON ORE/ HEXAGON MINING

“ Safety through innovation ”

Mzwandile Buthelezi of Anglo American Kumba Iron Ore and Fabien Ritter of Hexagon Mining were instrumental in the launch of HxGN Mine VIS, the world's first vehicle intervention system for mining that detects and prevents collisions by automatically slowing down or even stopping a haul truck if an imminent collision is detected.

Both worked together to develop a solution that would create an additional layer of safety around Hexagon's Collision Avoidance System (CAS) currently protecting vehicle operators at Anglo American Kumba Iron Ore's Sishen mine in South Africa.



HxGN Mine VIS is now being installed at the mine, well ahead of government regulations compelling mine operators to install vehicle intervention technology on vehicles by June 2019.

VIS is a Level 9 system that takes control of a machine in certain situations if the operator does not react appropriately to a CAS warning. Depending on the situation, VIS can automatically cut the propulsion, apply the retarder or even activate the service brakes.

Sishen mine contacted Hexagon Mining about a system in 2014. The mine had conducted an extensive risk assessment of its operation to understand major risks.

Together with the customer, Hexagon Mining defined a step-by-step approach to develop a solution.

VIS is integrated with CAS and uses the same sensors and user interface, thus protecting the customer's initial investment. CAS is used in more than 25 000 mine vehicles worldwide.