

# COMMUNICATION, AUTOMATION AND DIGITAL MINE SOLUTIONS

German/Australian Mining Delegation

> Presented by Tiaan Tromp - Chief Sales Officer

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# WHO WE ARE AS A COMPANY

### **OUR VISION & MISSION**





#### VISION

Nerospec SK's expertise makes **Mines, Machines and Miners safer, efficient** and **more productive** through our communication, automation and digital machine solutions.

#### **MISSION**

We deploy **independent** Mining machine communication, control and automation solutions for Mines worldwide.

We connect machines, creating valuable decisionmaking insights on demand.

We adapt **leading-edge technologies** to the underground mining environment.

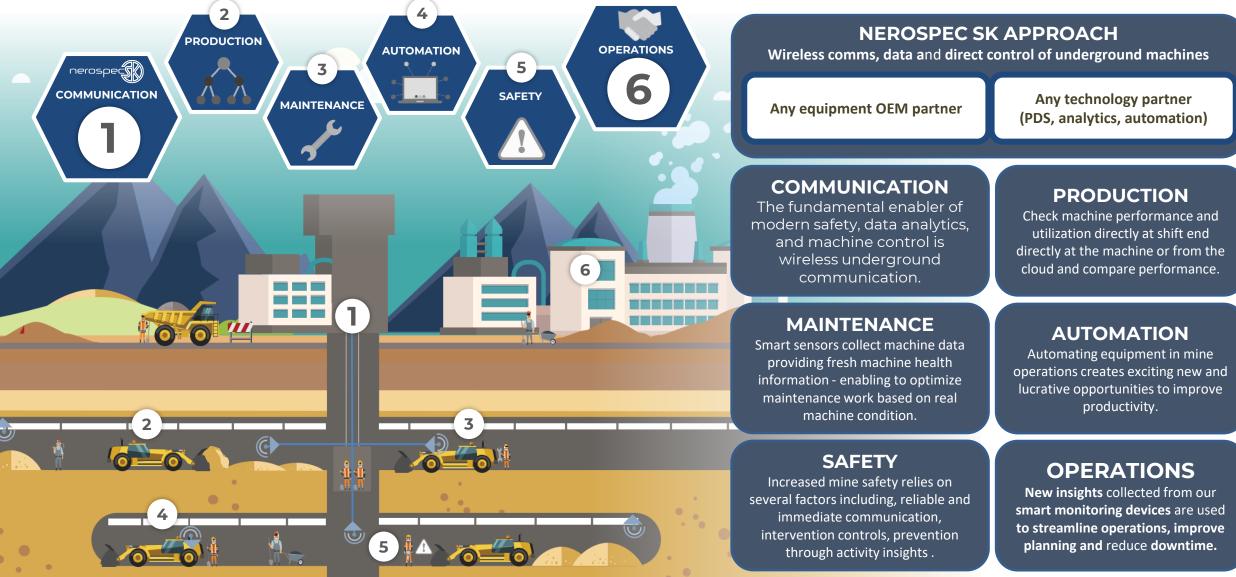
We are passionate, experienced and committed to delivering the 4'th Industrial Revolution to the Mining sector.

## **OUR** APPROACH

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## APPLICATION OVERVIEW





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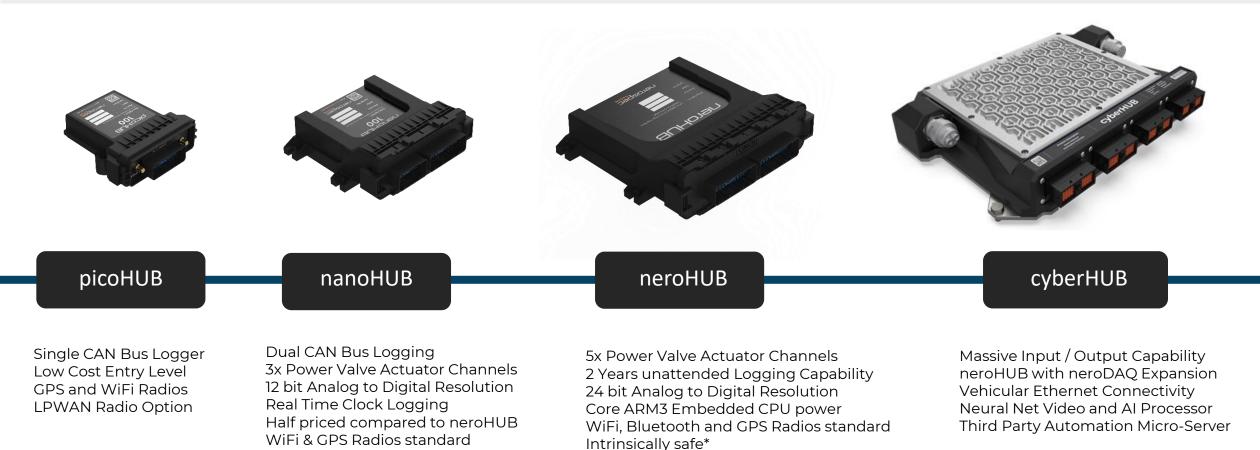
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## HARDWARE APPROACH

### WORKING TOWARDS SAFETY

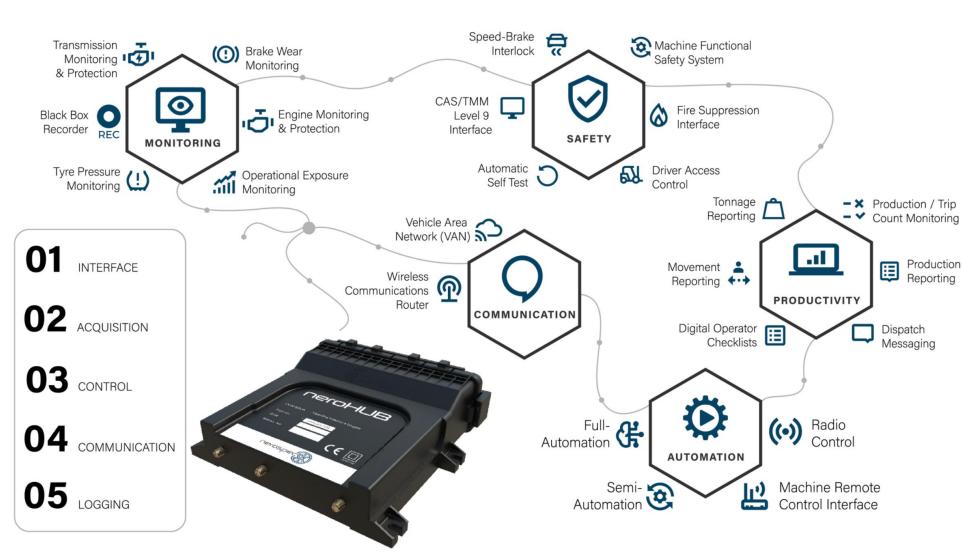


#### 01 INTERFACE 02 ACQUISITION 03 CONTROL 04 COMMUNICATION 05 LOGGING



### THE HUB FAMILY SUITE FOR A COMPLETE CONNECTED MACHINE SOLUTION







picoHUB



nanoHUB



neroHUB



cyberHUB



## **SOFTWARE** APPROACH

1 1 the Standard

## **SOFTWARE** INFRASTRUCTURE



## **Optimisation Insights**

#### **SIMAC**®

**SIMAC®** stands for **Short Interval Monitoring And Control.** This front end dashboard provides insight into mine **Safety, Production, Monitoring, Automation, Operations** and **Maintenance**. Valuable insights include heat maps generating high man and machine interactions, which assists safety decisions. Other insights include production metrics such as TMM utilisation and graphs comparing machine performance over a shift.

#### HUBsum

**HUBsum** or operational summary can be collected from the machine in less than 10 seconds. An industry first made possible by onboard edge computing technology. Little data can be viewed on any android device or PC. Within the APP the operator or supervisor can break down the display time into various time periods for ease of viewing. It can range from hourly to monthly segments and even predetermined shifts. Little data is able to store up to 91 active hour buckets of data. Everything from distance travelled to cylinder head temperature. It will automatically log SBI and PDS interactions and provide a summary of time spent in those states.



## **CONNECTED** MACHINE VIDEO

Play Video...





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