

A large, dark-colored autonomous mining truck with orange accents is positioned in a dimly lit underground tunnel. The truck's headlights are on, illuminating the rocky walls of the tunnel. The truck is facing towards the right side of the frame.

Sandvik Mining Automation

Revolutionizing Work Health & Cleanliness

32nd OHSA Annual Conference, Tullamore
April 2025

Brian Carroll (Sandvik)

Our number 1 priority

Safety first

Sandvik Ireland – LTI Free since 2012



Emergency
exit



Assembly
point



Protective
equipment



Emergency
number



First
aid kit



In case
of emergency



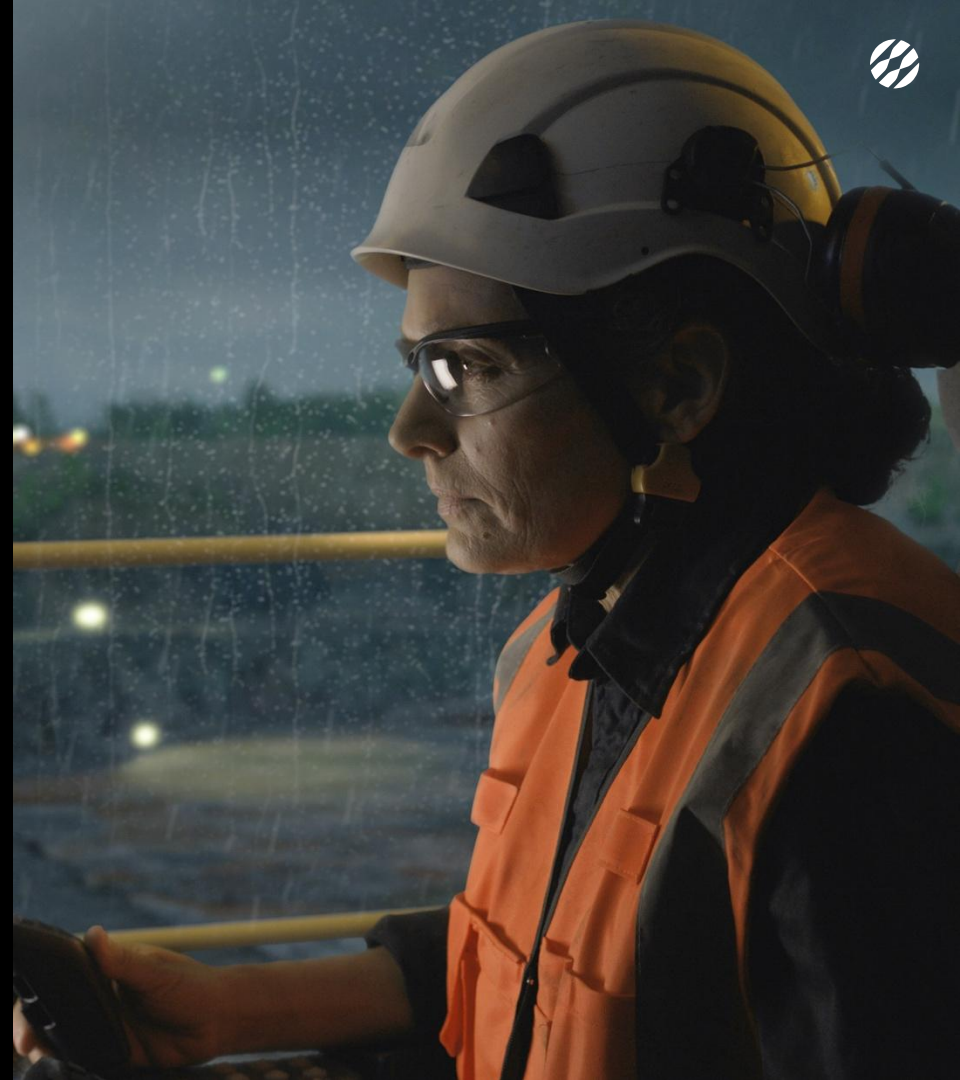
Psychological
safety



Health and
well-being



Cyber
security



Brian Carroll



- Regional Manager – Sandvik Ireland & UK
 - General Manager – Sales Entity UK&Ireland
- Kilkenny, Ireland
 - (close to Vedanta Resources The Lisheen Mine and Lundin Galmoy Mines projects)
- Married to Siobhán since 2009
 - 2 daughters, Isabella (12) & Emma (11)
- Interests
 - Family, Running, Athletics, DIY, Gardening, Hiking, Hurling, Rugby & Liverpool FC
- Career
 - 1999 – Tamrock (Sandvik) – Apprentice Plant Fitter (mechanic)
 - 2003 – Sandvik – Plant Fitter (mechanic)
 - 2005 – Sandvik – Rebuild Facility Workshop Supervisor
 - 2009 – Sandvik – Workshop Manager
 - 2012 – Sandvik – Works Manager Ireland
 - 2015 – Sandvik – Parts Service & Warranty Lead and Sales Manager Mining Ireland
 - 2021 – Sandvik – Operations Manager IRE & Manager of UG Eq. Sales - ST NWE
 - 2023 – Sandvik – Business Line Manager P&S – SA NEUR
 - 2024 (Oct) – Sandvik – Regional Manager Sandvik Ireland & UK – ST CEU & UK/Ireland





Sandvik Ireland and UK

Where we are...



Sandvik Mobile Crushers PU
BALLYGAWLEY

Sandvik DI Logistics
DUBLIN



Sandvik Rebuild and Repair Workshops - Ireland & UK
PORTLAOISE



Sandvik Mining and Construction Ltd
SWADLINCOTE

What is our sales offering...



Mechanical cutting



Rotary drilling



Rock tools



Rock drills



Loading and hauling



Automation



Surface drilling



Underground drilling and bolting



Parts and services

What we do (excluding sales)...



Rebuild Programme



Sandvik Ireland & UK offer a comprehensive like – new rebuild program for your equipment at a much lower cost than a comparable new machine

- Detailed audit inspection
- Disassembly down to the bare chassis
- Full recondition of major components
- Reassembly
- Performance testing
- Full repaint
- Customer inspection – FAT & SAT Tests
- Warranty assured on delivery



Component Repair



Sandvik Ireland & UK have the capability to offer a wide range of repair options for all your hydraulic cylinders and components which will and maximise your machines productivity at the lowest possible cost

- Machine Hydraulic Components
- Hydraulic Cylinders (including 3rd party)
- Transmissions
- Powertrain components
- Rockdrills
- etc



OEM Aftermarket Expertise



Sandvik Ireland & UK offer a comprehensive range of parts & service options to ensure that you receive maximum production from your equipment

- Detailed technical audits
- Onsite Support
- Major component service exchange options
- Operator training
- Permanent Onsite Service Team/Mine Contract
- Dedicated Field Service Technicians





Public Perception of the Mining Industry



Public Perception of the Mining Industry



Dirty Unattractive Industry

Difficulty in recruitment and employee retention



Environmental Impact

Long-lasting damage and harm to our environment



Dust, Noise and Fumes

Enclosed environment underground makes work conditions difficult



Rockfalls and Danger

Danger from unsupported ground and loose rock



Serious Injuries

Work is hazardous with danger around every corner



Fatalities

Potential for loss of life is part of the job and isn't surprising



Future Perception of the Mining Industry



Healthy, Content and Effective Employees

Here you can add a bullet list or just plain text.



Cleaner and Efficient Mining

Here you can add a bullet list or just plain text.



“Sunshine” Mining

Fresh clean surface/remote environment



Sandvik Digital Technology



Automation in Action

Equipment Infrastructure AutoMine®

Standard Mining equipment retrofitted
or factory build with Automation kits
onboard. Diesel and Battery machines



Underground Infrastructure AutoMine®



Wi-Fi Access Points



Interface Field Cabinets



Lazer Gate Barrier

"Closed off" underground production areas controlled from elsewhere.
Auto-shutdown areas



Surface Infrastructure AutoMine®

Remote/Removed control stations for
underground Operations – removing
the operator to a safe clean
environment





Sandvik LH517 Loader – 17 tonne payload
Northparks Mine - Australia



BU Automation Offering Solutions

AutoMine® Underground

- **AutoMine® Loading and Hauling**
 - Loaders
 - Trucks
- **AutoMine® Underground Drills**
 - DL series



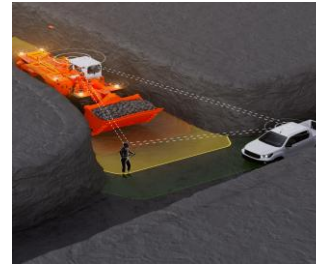
AutoMine® Surface

- **AutoMine® Boom Drills**
 - DI650i (AutoCycle Ready/AutoMine® features)
 - Pantera DP1100i P1500i, DP1600i
- **AutoMine® Rotary Drills**
 - DR410i
 - DR412i
 - DR413i
 - DR416i



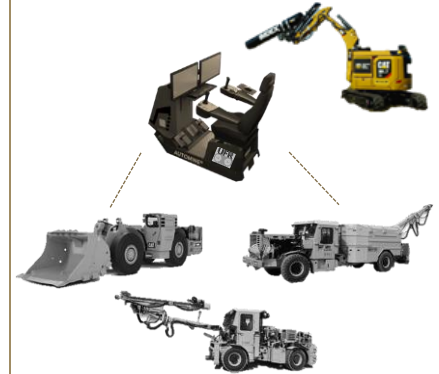
Newtrax – OEM Agnostic

- **Collision Avoidance System (CAS)**
 - OptiMine® Proximity Detection System (PDS)
 - OptiMine® Advanced Proximity Detection System (APDS)
 - Collision Avoidance System (CAS)
- **Operations Management**



UFR – OEM Agnostic

- **UFR Autonomy**
- **UFR AutoLog**
- **UFR HolePrep**
- **UFR Haulage**



Connected sites

+200 My Sandvik
digital services

+100 OptiMine®/
Newtrax

+110 AutoMine®





The future of mining

Electrification

Sustainable Shift in safety, productivity and efficiency

Automatic Execution

Fully Autonomous operations with AutoMine®

Data and Analytics

Increased productivity with powerful data collection and analysis

End-to-End Mine Optimization

Comprehensive and integrated from planning to execution





WELCOME TO
NEW BOLIDEN
Tara Mines

NEW BOLIDEN
TARA MINES
ESTABLISHED 1997



brian.carroll@sandvik.com

Thank You

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