

ECORA

Solutions



Institutional Presentation

Mar 2026



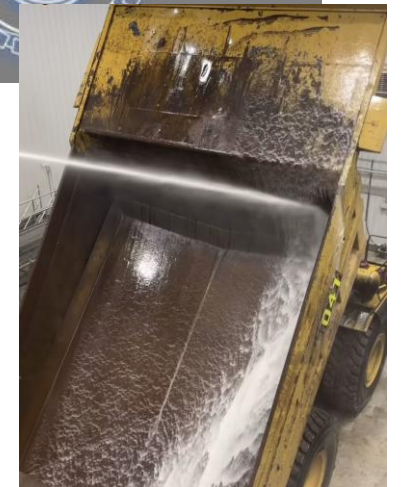
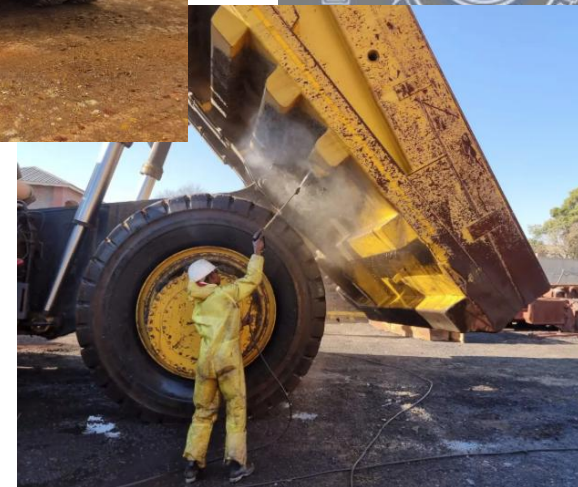
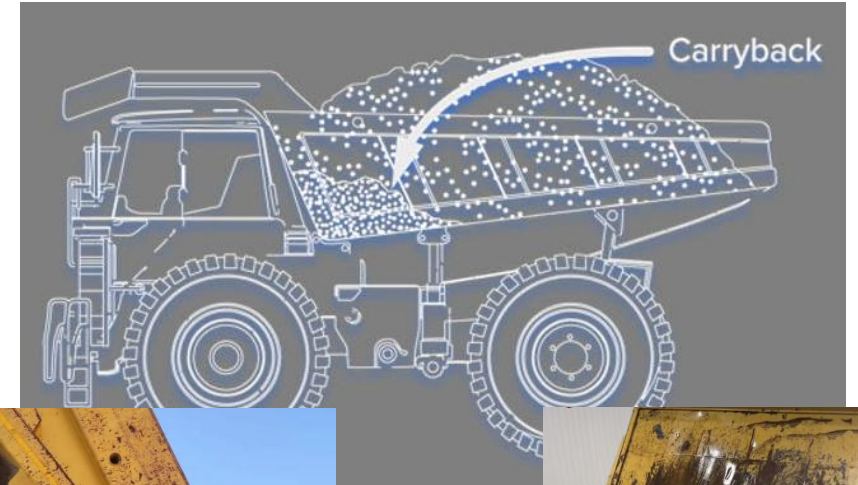
ECORA Solutions is an Australian company focused on facilitating the material movement in industrial environments.

Using **high technology materials** combined to **data, analytics, automation** and an **experienced team** has tailored solutions to solve issues related to build up material in mining on a sustainable way, returning more than 20x the investment.

How much build up material is costing you every single day?



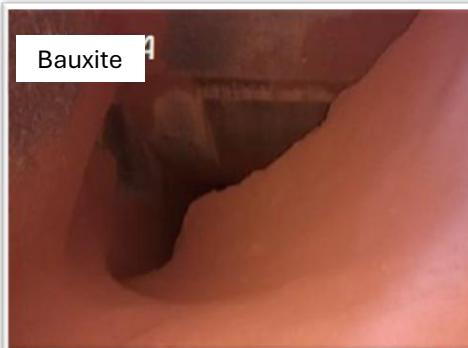
- ~ 3 to 15% of every load is lost to carryback
- ~ 30 min downtime for cleaning
- Labor costs due to high dependency on human interaction
- Water waste to clean machinery
- Fuel consumption with carryback after unload
- Shorten life of parts demanding more maintenance
- Operational risk demanding controls to maintain safety and compliance



*Imagine
your
machinery
running at
the best
capacity,
every time*

*No
headaches
with build
up material
any more*

BEFORE



AFTER



BEFORE:

- Losses of 150,000 tonnes/year due to carryback and downtime

AFTER:

- Reduction of 56% on carryback and 50% of downtime
- Reduction on fuel consumption and cost of cleaning

BEFORE:

- average of 33% of material stick to the wagons
- average unload time of 2:17 min per wagon

AFTER:

- 86% improvement on unloading, achieving 1:43 min/ wagon
- Low dependency of human intervention,
- Protection through oxidation

BEFORE:

- accumulated material after 30 minutes of operation

AFTER:

- Run for 6 hours without stopping for cleaning
- Reduction of loading time with less adherence of material with improvement of 153 tonnes/ hour
- Bring more safety to operation and reduced dependency of human intervention

BEFORE

- Chute clogged every 20 minutes

AFTER:

- drain efficiency improved 1200%, with stops only after 4 hours of continued operation
- Reducing exposure to hazards and labour costs
- Improve equipment lifetime and productivity
- Reduction on water and energy consumption





Why chose *ECORA Solutions*



Up to 95% Reduction In Carryback

Move More Material At The
Same Time

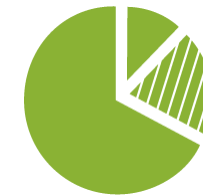


Up to 30% Improvement On Load Volume

More Material Moved Every Day



Eco-Friendly Sustainable Mining Solution



Up to 50% Reduction In Water Usage

Require Less Machinery
Cleaning



Up to 30% Reduction In Downtime

Improve Operational
Efficiency



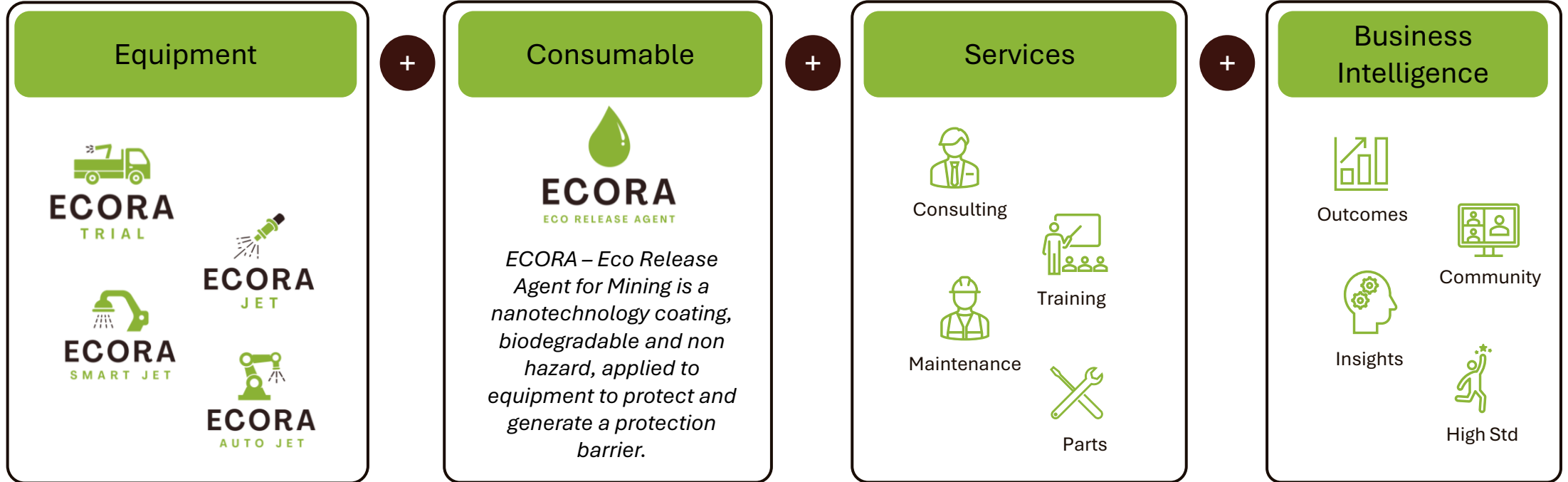
Up to 30% Cost Reduction

Less Dependency On
Labor For Cleaning



Our solutions bring together four integrated components to achieve the best outcome for you

Each of the four integrated components — equipment, consumables, services, and business intelligence - plays a critical role, and their combination delivers exceptional results. By aligning technology, eco-friendly release agent, automated application systems, expertise, and data, we ensure every solution is precisely tailored to each site's needs — driving performance, improving reliability, and achieving extraordinary outcomes.



Implementation: Fast, Safe, Scalable and Efficient



The Ecora solution is seamlessly integrated into the maintenance cycle reducing the changes on the current facilities, processes and controls, simplifying the implementation.



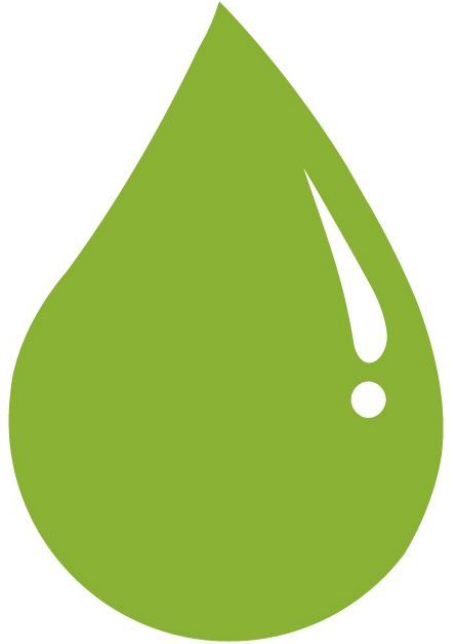
ECORA Jet is a versatile application option designed for targeted or on-demand use of the Eco Release Agent. It is ideal for situations where machines are not highly mobile, where limited volumes of consumable are needed, or where access is restricted. Its key advantage is mobility — it can move around the mine to apply the product wherever it's needed, such as for large excavators or other stationary equipment.



ECORA Smart Jet is a semi-automated application system integrated into the mine's existing equipment cleaning routine, designed to minimise operational disruption. It's ideally suited for medium to large-scale operations, delivering high efficiency with very low impact on daily processes. By fitting seamlessly into the start-of-day routines, Smart Jet brings greater agility, reduces manual intervention, and ensures consistent application across the fleet. Its adaptable design allows it to be configured for all equipment sizes, making it a flexible and scalable solution for modern mining operations. It can be installed indoors and outdoors.



ECORA Auto Jet is a fully automated solution that integrates the latest data and analytics technologies — including load scanners, visual systems, physical and ultrasound sensors — to optimise the entire application process. This system is ideal for large-scale, high-intensity operations running continuous shifts, where labour availability is a challenge and operational control is critical. Implementing ECORA Auto Jet involves a comprehensive site study and close collaboration between teams to ensure maximum safety and performance. It's a powerful option for medium to large equipment fleets, designed to seamlessly enhance efficiency while reducing manual intervention.



ECORA
ECO RELEASE AGENT



This patented nanotechnology forms a thin film capable of reducing shear stress and preventing material adhesion.

It penetrates metal, UHMW panels, ceramic panels, fiberglass, and many other surfaces to form a highly effective barrier.

ECORA – Eco Release Agent is patented globally, and Ecora Solutions is the exclusive and approved distributor for service in Australia.

Characteristics:

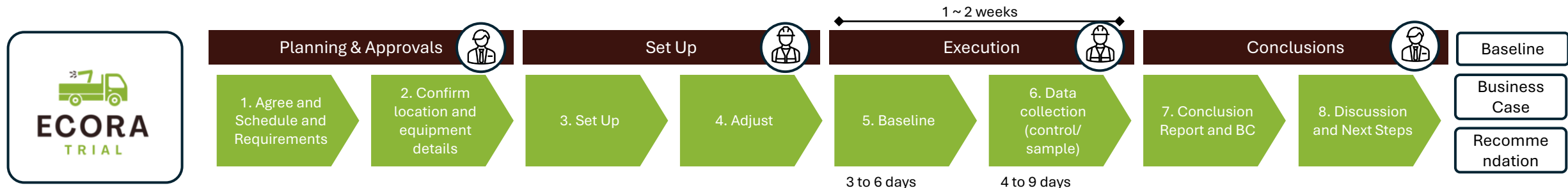
- Biodegradable, non-toxic, and inert non-stick coating;
- USDA Biobased internationally certified and approved by the environmental departments of Brazil's leading mining companies;
- 99.8% biodegradable, inert, and non-toxic, with a triple-zero Hommel Diamond rating. Safe for humans and the environment.
- Approved by major mining companies worldwide.

Note: technical information available on the SDS upon request



How can we start? With ECORA Trial

The Ecora Trial is a 1 to 2 week trial where the operational and management team can test the solution and understand the real outcomes considering the exact context of their mines with the full support and guidance of ECORA expert team.



What do we need from you (mine)?

- 1. Fleet size :** number of equipment, type of equipment, facility/ garage/ storage, etc
- 2. Material:** Type of material moved and volume
- 3. Pain points, concerns issues and risks:** downtime, cleaning time and frequency, equipment damage, water usage for cleaning, etc
- 4. Processes, mine routine and scheduling:** number of trips per truck/ equipment before cleaning, volume of carry back, etc.
- 5. Compliance & Onboarding:** required controls and constraints
Note: Recommended to do with at least 4 trucks as a sample

Simple questionnaire and approvals to run a trial

What do you get from the TRIAL?

- 1. Baseline :** performance operation snapshot
- 2. Measured performance with ECORA:** basic indicators, cost vs. benefit
- 3. Recommendations:** quick wins and best practices
- 4. Business Case:** with insights on how to improve your productivity.
- 5. Risks and Issues:** list risks and issues with approximately impacts
- 6. Working with ECORA:** how your life will look like working with ECORA! 😊

Complete Report and Business Case

Carolina C. Cordeiro – Director
Carolina@ecorasolutions.com

Bernardo Arbex Campolina – Director
Bernardo@ecorasolutions.com



ECORA
Solutions

