

With a focus on creating safer, more efficient work environments, tackling driver shortages and supporting ESG goals, we created Indigo Drive; a full-stack self-driving system to deliver autonomy faster, and more cost effectively, using your existing vehicles.



### **Boost Productivity**

Fully synchronised vehicle operations to ensure total site optimisation.



### **Enhance Safety**

Remove people from harm's way and reduce chances of human error.



### **Increase Efficiency**

Remove driver downtime allowing assets to work at 100% potential capacity.



### **Simplify Operations**

Our software allows vehicle supervisors instant visibility of all assets (AVs and non-AVs).



### **Retrofit Quickly and Easily**

Add to any vehicle type quickly and easily with minimal vehicle modification.



### **Make Operational Savings**

Reduce fuel costs, emissions and tyre wear and see OPEX savings from reduction in personnel costs.

## **Features**



Driverless or remote vehicle control



Detect, stop and go and pedestrian detection



Accurate path following



Integrates with existing fleet management systems



Plan and allocate tasks



Secure communications and GPS / GNSS localisation



**CAN** or robotic actuation



Built for harsh weather and environments



High-availability redundant architecture



Functionally safe architecture meets IEC612508: 2010 and IS017757: 2019



## Plan and go

Indigo Drive's user-friendly task planning software ensures vehicles take the most efficient routes, reducing fuel consumption and time to complete operations.





As vehicles detect obstacles, they alert the vehicle management system preventing others from facing the same issue. Once an obstacle is flagged, the vehicle management system generates a new route, or an operator can remotely access and assess the situation.

Indigo Drive also digitises key vehicle data, providing powerful insights to fleet operators. The vehicle's speed, location, fuel level, diagnostic status and distance-to-target can all be relayed to inform operational decisions, maintenance scheduling, and logistics planning.

## Your site, your way

A scalable, full stack, high-availability ecosystem. Cyber-secure and built for functional safety.



### Radio Network Base Station

Connecting the vehicle supervisory system to the network - whether in an office, site cabin or vehicle.



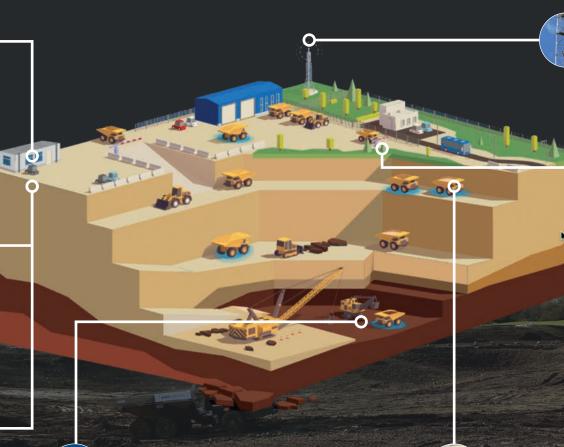
#### **Server Room**

High-availability servers manage vehicle fleets and site operations. Provided on or offsite as preferred.



#### **Control Room**

Manage multiple vehicles at once via a user-friendly software interface.



### Radio Network Repeater Station

Boost coverage and redundancy across even the largest site.



### Site Traffic Management System

Keep personnel and the public out of harm's way with automated traffic lights, barriers and other site safety systems.

### **Vehicle Automation System**

Create safer driving operations using our smart perception system (LiDAR, camera, and radar) and reliable vehicle control using robotic or Controller Area Network (CAN) technology.



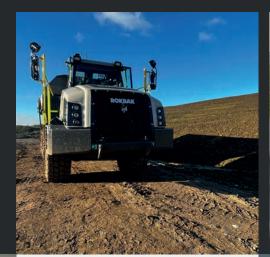
In-cab driver system allows manual and autonomous vehicle operation.

# With you, every step of the way

Wherever you are in your autonomy journey, we'll collaborate with you as partners, ensuring you reach your goals.



## We provide...



### **Fleet Conversion**

Conversion of existing fleets and sites, to benefit from autonomy, across a range of industries, whatever the vehicle type.



### **Vehicle Actuation**

For those already using autonomy with an existing tech stack needing additional vehicle actuation.



### Site Simulation

Exploration of a site's potential for autonomy using our digital twin environment that accurately simulates and tests any scenario.



### **OEM Collaboration**

Partnership with OEM's who need a helping hand adding autonomy to a product.

### Ideal for...

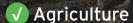














## About us

As part of the global AB Dynamics plc group, we have a heritage of driving vehicle safety and are market-leaders in vehicle actuation, control and automation. With offices around the world, our innovations solve global challenges.

Have a question?
Contact: info@abdsolutions.com



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