OZIUS

**Harness chaos.
Change the future.**

Finding structure in nature's chaos

by merging AI technology and environmental science.

Discover Ozius Biome®, our technology engine that allows you to identify in-depth knowledge gaps in human understanding of the chaos of nature.

Our technology fuses trusted earth observation data with an advanced AI-enabled analytics engine, generating current and comprehensive data layers.

Harness the natural chaos of credible data to make well-informed decisions, and create a different future, with us.

What is Ozıus Biome®?

Ozıus Biome® is the ability to make better decisions.

It is real time visibility married with extreme levels of technical prowess from an award winning team.

It is science merged with artificial intelligence, using the best of both.

It is a world-first method of analysis that can examine thousands of hectares in minutes.

Importantly, it is powerful knowledge that can unlock previously unseen opportunities, while achieving serious time and budget savings.

How does Ozıus work?

1. Define the problem and a pathway forward.

We will work with you to consider all dimensions of your situation and all variables along with any connected impacts.

Things we will take into consideration include:

- Environmental change and risk
- Social impact
- Stakeholder engagement
- Regulatory reporting needs
- Market impacts

After that we will establish the plan to move forward with the project.

2. Identify goals and needs for business success.

We develop a deep understanding of your unique business needs and draw on our expertise in business analysis, change management, environmental science, and data science to create project goals and define a detailed criteria for success.

All data is treated with complete confidentiality.

3. Design a tailored solution for decisions and improvement.

After examining and evaluating all the available solution options, we will recommend a tailored technical approach to solving whatever challenges have been identified in both the built and natural landscapes.

4. Analyse data and discover new insights

The tailored solution we created for you will be built and data will be analysed across multiple variables using our AI-enabled analytics engine, Ozius Biome®.

The use of Ozius Biome® ensures we overcome any bias and dramatically increase the accuracy of the analysis.

The new insights provided will enhance decision making efficiency and effectiveness and create new opportunities for business improvement.

5. Integrate with your enterprise systems for ongoing benefit.

Your results and outcomes from working with Ozius Biome® are tailored to meet your ongoing business needs. All data and insights generated can be integrated with your existing enterprise systems to ensure you have full access to all the information required in the way that is easiest for you to utilise. You maintain full control of your information without any hidden or ongoing costs.

Who is Ozius?

Since inception in 2014, Ozius has proven itself as a leading provider of environmental, ecological and biodiversity assessments to Government organisations and NGOs.

Ozius Biome® is our flagship product, combining large volumes of data using machine learning with credible datasets to give our clients knowledge and business intelligence based on fact.

Our delivery of robust, accurate environmental landscape assessment reporting and monitoring positions us as industry-leaders, encompassing a unique level of technical prowess.

By combining advanced spatial technology and environmental science, our clients see more, know more and achieve more in areas such as:

- Fit-for-purpose monitoring and assessment
- Identifying environmental risks and landscape opportunities
- Delivering spatial expertise to inform policy development and decision making.

OZIUS biome

An off-the-shelf dataset snapshot reporting system that answers your environmental forestation questions in minutes.

From the towering heights of the canopy, right down to ground, and across thousands of hectares, biome provides data reporting with an introductory level of analysis.

Since it launched in July 2022, Ozius Biome® has helped a range of industries to make more informed decisions by identifying environmental risks and landscape opportunities using combining advanced spatial technology and environmental science.

Our team

Alisa Starkey
Founder and Chief Science Officer

With a background in Marine Ecology, Alisa learned the benefits of utilising Earth Observation data when completing her Honours at the University of Wollongong.

She has dedicated her career to fusing artificial intelligence, remote sensing data and environmental science to solve some of our most complex environmental questions for public and private sector customers.

A Member of the Environment Institute of Australia and New Zealand (EIANZ), Alisa has been involved in numerous publications on using remote sensing to assess environmental impacts of natural and human induced change including monitoring gully erosion and change, vegetation trend analysis, and more recently collaborated with aquatic ecologists from government authorities in NSW and QLD to integrate remote sensing into Water Resource Planning projects.

Dr Peter Scarth
Director and Chief Technology Officer

Peter leads the artificial intelligence and data science research at Ozius, working across disciplines to develop rigorous data management systems and validated mathematical models.

These models measure and map both major and more subtle changes in global ecological systems using large earth observation data sets linked to field and social survey systems.

By engaging with stakeholders across academia, government and industry he aims to build and extend data systems and build "long science" to address wicked problems in the land management space through the application of time series biophysical image analysis.

As an application developer, Peter has a particular interest in synthesising difficult-to-use data to provide answers to challenging problems. Peter is a member of Institute of Electrical and Electronics Engineers (IEEE) and Ecological Society of Australia (ESA).

Sam Gillingham
Principle Software Engineer

Sam is a qualified software engineer with specific interest in cloud-based processing and presentation of scientific data, with a particular focus on efficient processing of remotely sensed data.

With nearly 20 years of public and private sector experience in Australia and New Zealand, he has developed and managed numerous high profile software systems within the natural environment and research sectors contributing to dozens of scientific papers and journal articles.

Tim Hackwood
Environmental Systems Analyst

Tim is an environmental and operations management professional with extensive leadership and project management experience, particularly in ecological restoration, vegetation assessments, and flora and fauna surveying.

Deeply passionate about Australia's national environment, Tim's focus at Ozius is to help customers answer complex ecological questions using the power of artificial intelligence and remote sensing technologies.

Ben Starkey
Managing Director

Ben has a background in Urban Planning and Development leading high performing teams in both public and private sectors, and has been nationally recognised for hiscontribution within this industry in Australia.

At Ozius, Ben is able to bring his passions for stakeholder engagement, business improvement and space technology together to help customers transform their decision making and business processes.

Wayne Schulz
Non-Executive Director and Chairperson

Wayne has over 20 years of professional corporate finance experience focusing on valuations, due diligence, strategic reviews and mergers and acquisitions. He has worked and lived in Australia, Papua New Guinea, and South Africa.

He previously worked for the largest listed private equity group in South Africa, Brait South Africa Limited, and was the Group's Corporate Finance Manager as well as being a director for several investee companies.

Industries

Ozius Biome® delivers a whole new level of precision, delivered fast, to these industries.

From the height of the forest, right down to the ground, through our waterways and across tens of thousands of hectares, Ozius Biome® brings clarity to chaos.

Who needs Ozius Biome®

Natural Capital and Biodiversity

Holistically manage biodiversity and natural resources with the aid of cutting-edge technology using Ozius Biome® allowing you to quickly evaluate new projects, while monitoring and auditing existing projects for environmental and sustainability impacts.

Whether its supply chain reporting, carbon sequestration, or environmental regeneration, you can easily identify areas in need of conservation or restoration and make effective decisions using real-time data delivered quickly and efficiently.

Finance and Insurance

The use of geospatial data and analysis as used in Ozius Biome®, opens new avenues for risk modelling and management, valuation modelling, and identifying natural capital investment opportunities.

The timeliness, comparability, scalability, and reliability of the data can be used to enhance financial analysis and decision-making.

Infrastructure and Utilities

Make sustainable and responsible decisions with confidence using Ozius Biome® to generate accurate, real-time data.

Mitigate the social and environmental impacts of energy production and consumption and scope expansion opportunities without waiting months for research results. Working with Ozius Biome® you'll have the confidence to know our spatial products are rigorously tested and adopted by some of the largest companies in the world for environmental and operational reporting needs.

Defence Agencies

Bushfire management, soil management, training area management activities and usage, climate adaptation and mitigation, impact assessment, and more are all made more effective with the use of Ozius Biome®analytics engine.

We have deployed and tested the platform's change and anomaly detection capabilities in open and classified data sets with the Australian Geospatial-Intelligence Organisation (AGO). With real-time, accurate data, nation-wide decision-making can be kept aligned with strategic aims and actions for sustainable environmental management.

Agriculture

Monitor, measure and manage clearing and regeneration activities, surface water storage and access, reduce environmental impacts across your landholdings. Using our instant reporting capabilities, you can gain a snapshot and environmental baseline to aid reporting on deforestation, identifying bushfire management opportunities or grazing rotation. Leverage the power of fast, accurate data to improve sustainability and efficiency.

Energy and Resource Mining

Complying with environmental regulations and mitigating potential environmental damage has never been easier.

Measuring the environmental impact of existing and future operations is a vital part of the decision-making process. Imagine being able to access and analyse long-term data quickly and accurately without the need for lengthy field research and desktop assessments.

Access and monitor ongoing vegetation and landscape variables any time in a format that makes sense to you, enabling you to report with up-to-date data and make informed decisions without delay. With Ozius Biome®, you can overcome challenges, increase productivity, and enable data-driven decision-making.

Universities and Research Institutions

Make informed decisions about where and when to conduct field research projects, gain greater insights for a huge range of studies, and gain efficiencies by receiving the data you need in minutes rather than months! Build on existing data to create metrics and meaning. In Australia, Ozius Biome® is supporting research into threatened and endangered species such as the Koala, by providing free data products to researchers.

Outcomes

Ozius Biome® gives business the most comprehensive, powerful environmental snapshot of hectares, in minutes. It's a whole new level of accuracy, delivered fast.

Gain better visibility

With access to data that covers thousands of hectares, you can gain a better view of large areas that would otherwise be difficult to access.

Faster, more streamlined research

With data at your disposal that allows you to optimise field site selections and resource allocations, your research will be faster and more targeted.

Faster, more-informed decision making

Our clients report a dramatic reduction in time spent on investigations and with more accurate, consistent, time-specific data, decision making becomes more effective and efficient.

Identify investment opportunities

Identify and monitor carbon trading opportunities through integrated business intelligence data. Scan large areas of land to assess investment opportunities.

Monitor changes over time and space

Using historical data combined with fast, sophisticated analysis and ongoing monitoring, you can quickly identify anomalies, trends, and area of concern at multiple scales. This is especially useful in identifying areas of deforestation, erosion, and economic and social impact.

Rare event detection

Be notified of rare events affecting your high-value assets. Respond to key events and receive updates on current projects as the landscape changes, optimise how you react and adapt in the field.
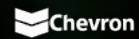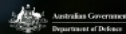
Prepare for bushfires

Better prepare for bushfire season with improved data for risk modelling and identifying landscapes that require backburning.

Our clients

NSW GOVERNMENT | Queensland Government | RioTinto | GLENCORE | Australian Government Department of Defence | Chevron | SA Power Networks

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30 minutes with Ozius saved me three days in the field.

The work Ozius produced gave us the confidence to apply these findings over an entire catchment that we could never visit on the ground.

Queensland Government Water Planning
and Ecology Team 2017

"

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ozius.earth | info@ozius.com.au