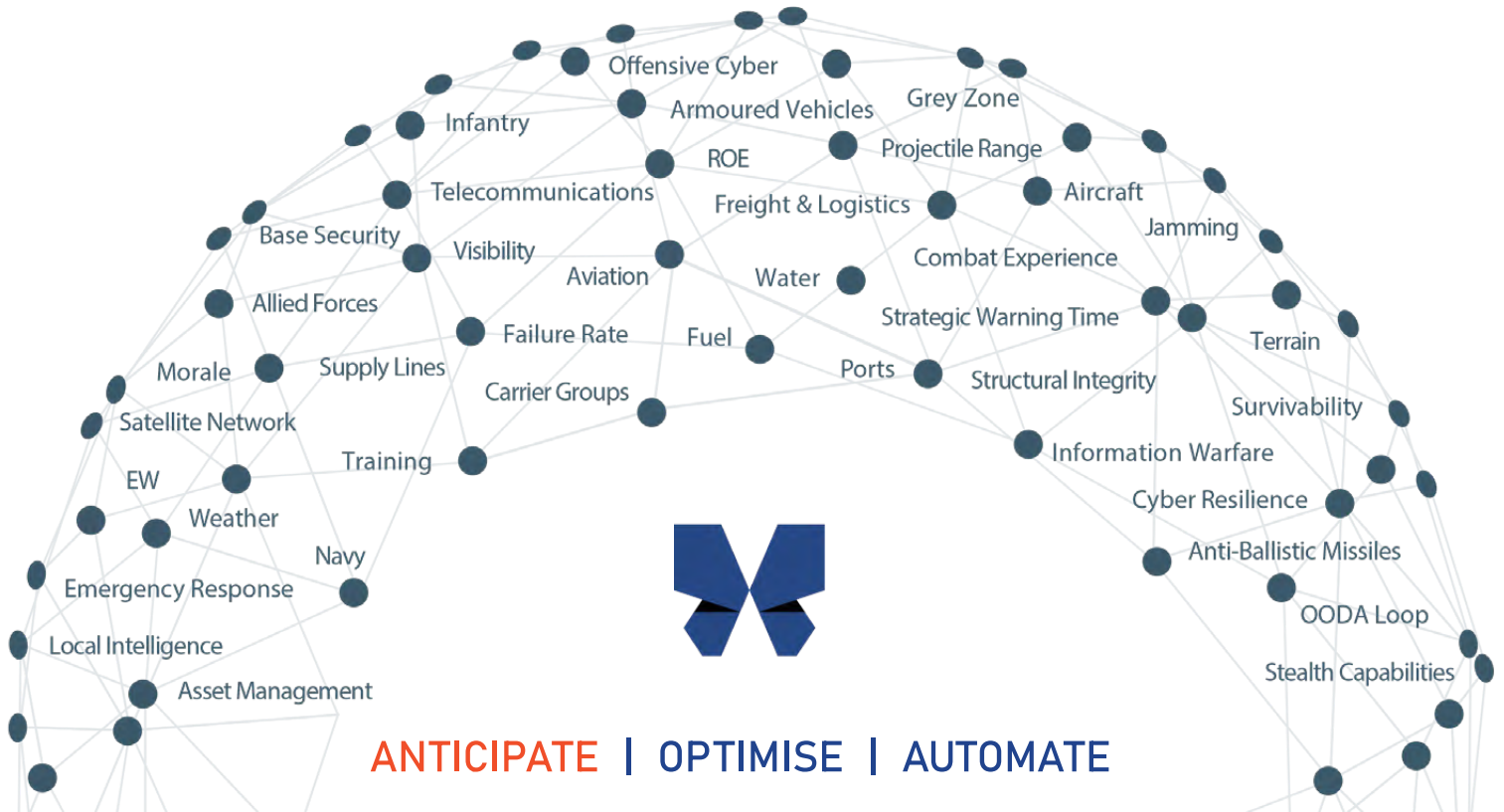


Sentient Defense[®]



www.sentientdefense.com



INTERACTIVE, SCALABLE, MULTI-FACTORIAL DECISION SUPPORT CAPABILITIES VIA INTEGRATED OPERATIONAL INTELLIGENCE & MULTI-DOMAIN SIMULATIONS.



- ANTICIPATE Your Adversary
- OPTIMISE Efficiency, Lethality and Survivability
- AUTOMATE Problem Solving, Cost and Risk Reduction

Faster, Safer, More Effective

From mission planning through to rapid tactical decisions mid-mission, Sentient Defense[®] will ensure the best possible outcomes are achieved.

Over 30 years of R&D have yielded an engine that can produce fine-grained high-fidelity simulations that can comprehensively analyse a practically unlimited number of variables using data extracted from any system.

Sentient Defence's multi-physics simulation capabilities makes visualising, exploring and comparing possible outcomes when making complex decisions easy and accessible to any user out of the box.

Why is Sentient Defense[®] Different?

Powered by Sentient Hubs' next generation technologically agnostic Apex Platform, Sentient Defense[®] can integrate hardware, software, data sources, vendors, actors & organisations, and more, in a practically unlimited number of configurations.

Unlike anything seen before, Sentient Defense[®] is the first platform that can produce dynamic simulations of the interactions between natural and artificial environments as ecosystems: Digital twins that emulate the physical world today and tomorrow, allowing you to determine what could and what should be.

Sentient Defense[®] outperforms the capabilities of even the most advanced AI systems available in the world and remains unmatched by any product on the market.

Reduce Uncertainty in Complex and Dynamic Environments

"The capabilities demonstrated by Sentient Hubs are unique in the market. This innovative Australian company has developed a product that is truly unparalleled in its ability to help solve complex policy problems so well and so quickly. It is a game changer."

Kirsty Linehan
Public Sector Innovation Partner
Oracle



Sentient Hubs was recently awarded Winner Best New Disruptive Platform.
[Click here to watch Sky News coverage.](#)

SENTIENT DEFENSE[®] TACTICAL SOLUTIONS

ADAPTABLE | SCALABLE | ACCESSIBLE

What Do YOU Want to Know?

The Minerva[®] Family of Platforms from Sentient Defense[®] Ensures that Superior Outcomes, Enhanced Thought Leadership, and decisive strategic advantages are achieved in every domain of warfare. Minerva[®] platforms are accessible to operators of all levels of seniority and can support any mission at any stage – from the inception of a plan to command and control in-theatre.

Minerva[®] | Superior Outcomes & Enhanced Thought Leadership

- The Minerva[®] Platform makes identifying the best possible course of action easier and faster for decision-makers through next generation Interactive Simulation & Forecasting that reveal the complexities of a field of operations in their entirety, live, and with unparalleled accuracy.
- Explore, Compare, Quantify and Anticipate all Benefits, Consequences and Risks before enacting policies, executing orders, launching operations, or making procurements.
- Fully Transparent, Easy to use, minimal installation and training requirements.
- Minerva[®] is a fully scalable and adaptable technologically agnostic platform capable of incorporating more variables in its simulations than any competitor.

Jupiter[®] | Ultra-Precise Solutions for the Most Complex Strategic Problems

- Offering the same advanced decision-making support as Minerva[®], the Jupiter Platform is an even more powerful, high-performance variant.
- Jupiter delivers a significant enhancement of the Minerva[®] platform's analytical capabilities by concentrating processing power on specific domains.
- Jupiter was designed for when there's no margin for error by performing the most specialised and complex simulations imaginable.
- Jupiter is ideal for high-stakes operational planning, R&D scenarios, space warfare and/or when handling exceptionally volatile sets of variables such as geopolitical interactions/relationships & socio-economic dynamics.

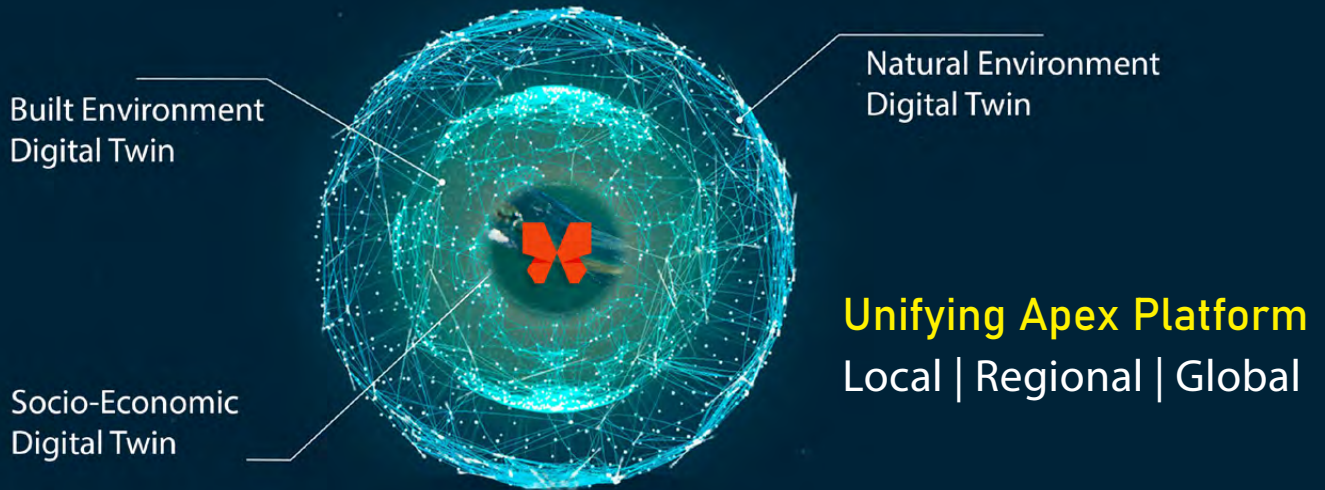
Juno[®] | Dominate the Battlespace with Compact and Portable Clarity

- Juno is a cut-down, light-weight, intermediate platform that offers the holistic capability of Minerva[®] with the operational focus of Jupiter in a package small enough to be carried by infantry on a laptop, or as a modular augment suitable for vehicles.
- Juno is designed to augment and enhance existing defence systems while still providing a competitive edge through delivery of strategic insights that permit users to anticipate threats and quickly make mission assessments of situational conditions and hostile elements.
- Juno is intended to serve as a dynamic mission intelligence analysis and enhanced leadership support tool that can augment tactical command and control responsibilities pre and mid-mission.
- Juno has the same planning functionality of other Sentient Defence platforms, but is optimised for mission performance, operational risk management & ensuring asset survivability & lethality:
 - ▶ When communications with central command are lost, Juno can emulate the best approximation of how C2 would want a team or deployed unit to proceed.
 - ▶ If mounted to armoured fighting vehicles or aircraft, Juno can calculate optimal movement and firing solutions that ensure maximum energy efficiency, strike precision, and asset survivability for one unit.
 - ▶ When unanticipated developments such as sudden changes in atmospheric conditions or barriers to target destination are encountered, Juno can ensure mission continuity and efficiency is preserved.

'Apex' Platform: Connect | Converge | Transform

Sentient Hub Linking Diverse Systems, Stakeholders and Data Sources

Sentient Hubs makes it easy to integrate a virtually unlimited number of hardware, software, and data sources over time – from local start-ups, to global vendors. Deliver secure access to contextualised insights across all domains.



Convergence: Built, Environmental and Societal Digital Twins

Better understanding the inter-dependencies between natural systems like climate, and demand for transport, energy and water, offers new opportunities to improve outcomes.



How will a 5% decrease in trade affect:
Traffic, air quality, demand for power, water and the economy?

Better quantify the full cost of decisions on the environment, society and the economy.

Siloed planning costs more and delivers less...



THE ADVENT OF 'SUPER-SIMS'

Unifying BIM, GIS, and Multi-Physics Simulations



Bridge Data Gaps

Visualise Complex Inter-dependencies & Impacts

The advent of machine learning, IoT and Digital Twins has opened up incredible new opportunities, however assessing risk and prescribing optimal options across complex, multi-modal environments has remained hard, expensive and slow. It's been impossible to get a realistic and dynamic overview of the big picture. To move at speed with decisions during disruption – and rely on fewer 'judgement calls'.

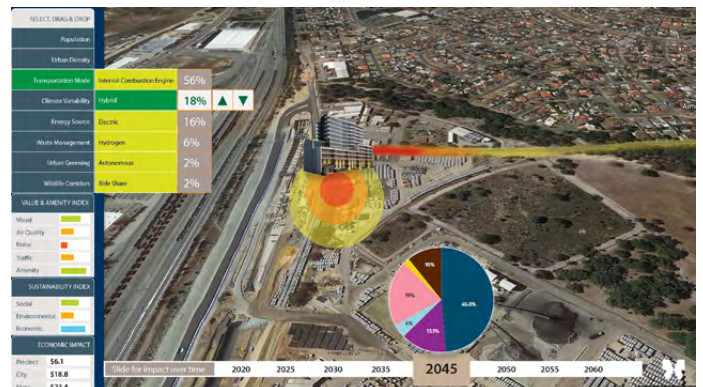
Sentient Hubs improve outcomes across the asset lifecycle: from complex 'What if?' Scenario Planning (CAPEX) to Proactive Adaptive Operational Intelligence (OPEX). The Platform is 100% technology neutral and vendor agnostic. It sits above and outside existing platforms and ecosystems – linking them to create interactive 'super simulations'.



ANTICIPATE | OPTIMISE | AUTOMATE

Through automation, complex scenarios that previously required months to model can now be set up in minutes. Decision-makers at every level can easily adjust, visualise and share impacts.

Adjust and visualise changes to assumptions across infrastructure, 'siloed' operations, and dynamic external variables.



UNPARALLELED CAPABILITY



“The capabilities demonstrated by Sentient Hubs are unique in the market. This innovative Australian company has developed a product that is truly unparalleled in its ability to help solve complex policy problems so well and so quickly. It is a game changer.”

Kirsty Linehan - Public Sector Innovation Partner
Oracle

“Government decision makers can no longer afford to make investment and policy decisions based only on what is known, particularly in high pressure situations and complex scenarios.

Sentient Hubs offers an unrivalled capability to assist governments in understanding the unknowns, such as unintended consequences and unforeseen impacts, leading to better supported decisions and ultimately, better outcomes.”

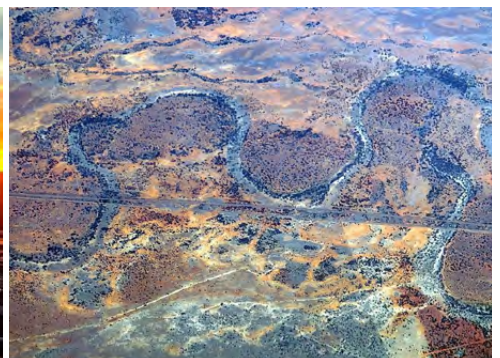
Andy Wood - National Lead Civilian Government
Microsoft Australia

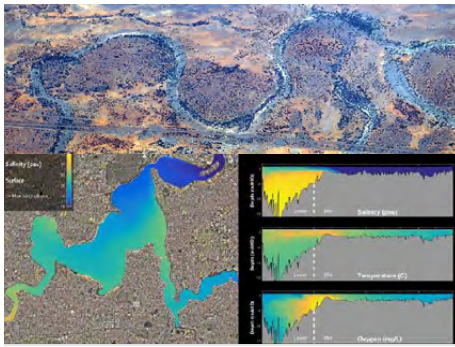
“Based on my experience, absolutely agree the capabilities demonstrated by Sentient Hubs are unique in the market at this time.”

Michael Rillstone - Head of Business & Platform Solutions
Atos Australia and New Zealand

“I have been working with Sentient Hubs for the past few months. I have been very impressed with the capability and flexibility of their latest software. I am not aware of similar products in the electric power industry and I encourage potential users across all industries to look very closely at the new Sentient Hubs software as a strategic analysis tool for their business.”

Dr Robert Barr AM
Electric Power Consulting Pty Ltd





WATER SECURITY MANAGEMENT

Ensuring Water Safety & Quality

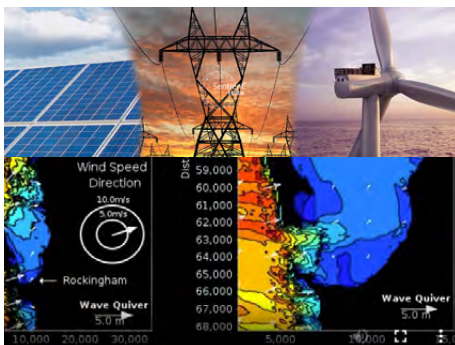
- Integrated Systems Modelling (catchments, uptake, losses, etc.)
- Water Quality Risk Visualisation
- Reduced Treatment and Utility Costs



AIR QUALITY PREDICTOR

Improve Health Outcomes & Livability

- Anticipate Location, Concentration, and Duration of Particulate
- Proactively Adapt Industrial Operations and Mitigations
- Fully Compliant with Environmental Protection Agencies



ENERGY ECOSYSTEM SIMULATOR

Anticipate the Impact of Renewables

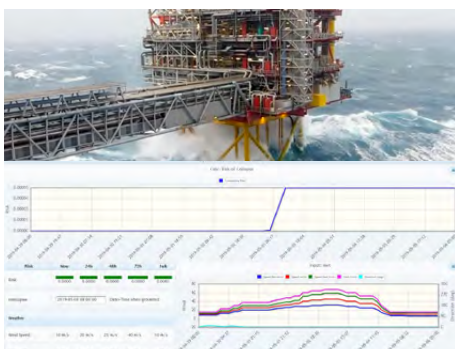
- Anticipate Variable Supply & Demand Across the Energy Ecosystem
- Improve Network Resilience & Service Reliability
- Reduce Operating (Spinning) Reserve Costs



LINKING TRANSPORT ECOSYSTEMS

Improve Operational Scheduling | Defer CAPEX

- Next-Generation Collaborative Decision Making
- Interactive Scenario Planning (Multi-Modal Peak Capacity)
- Proactive Adaptive Scheduling & Disruption Response



DYNAMIC STRUCTURAL RISK DASHBOARD

Improve Safety | Reduce Damage & Cost

- Dynamically Visualise & Assess Structural Risk
- Reduce Operator Judgement Calls for De-manning
- Fully Compliant with International Safety Regulation.

ANTICIPATE | OPTIMISE | AUTOMATE



Sentient
Defense

Sentient Defense
info@sentientdefense.com
www.sentientdefense.com
2 Brook Street
East Perth, Western Australia 6004