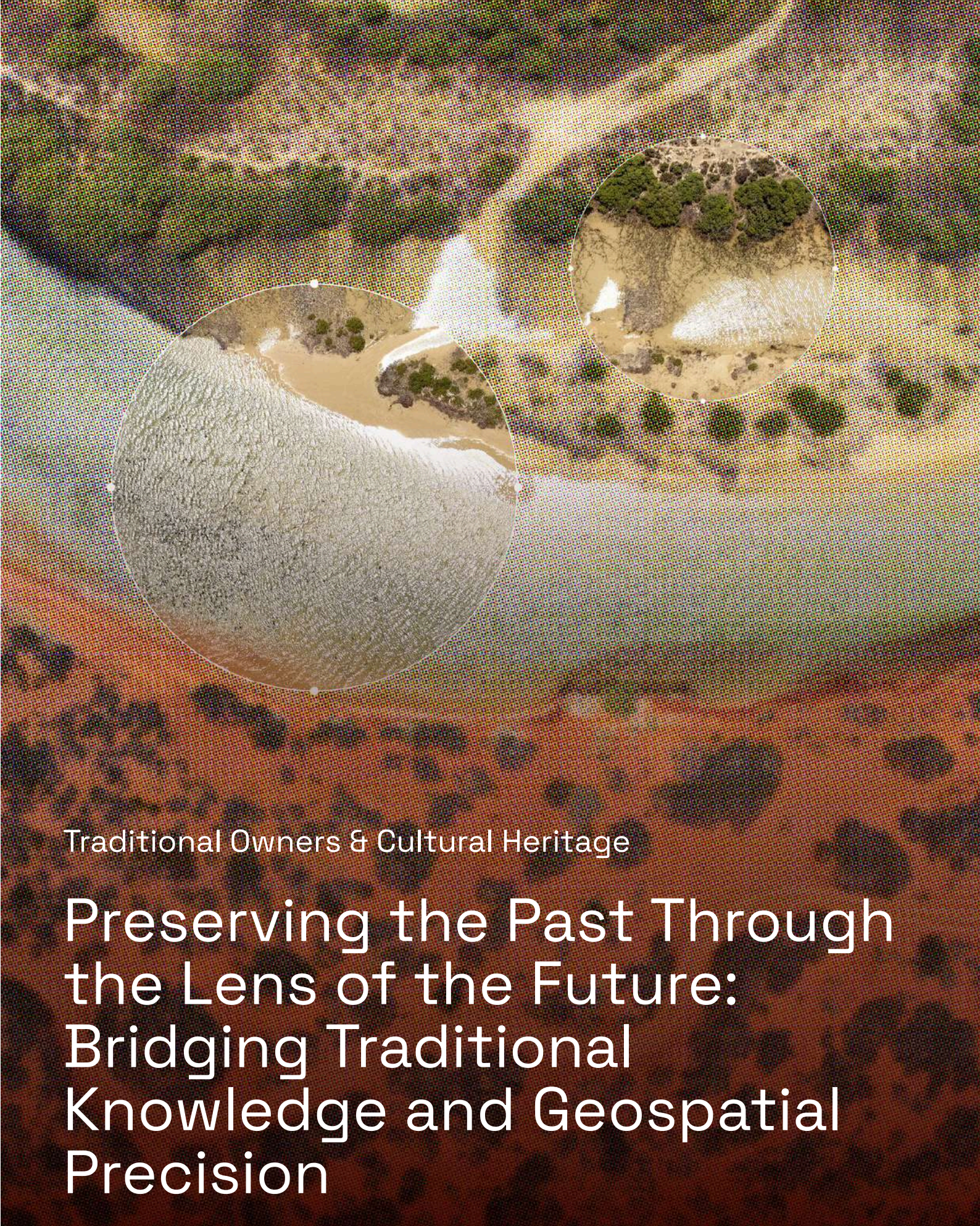

Traditional Owners & Cultural Heritage

Preserving the Past Through the Lens of the Future: Bridging Traditional Knowledge and Geospatial Precision

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Summary

Establishing an immutable 4D record to safeguard cultural heritage across shifting industrial landscapes.

BunjilView helps organisations document and safeguard culturally significant sites through advanced geospatial mapping and multi-source data capture. High-resolution drone imagery, aerial surveys, and environmental sensors combine to create secure, detailed digital records of heritage areas.

By centralising information, organisations can visualise site boundaries, manage access permissions, and share insights responsibly with approved stakeholders —ensuring culturally respectful preservation for future generations.

Snapshot

Project size	Up to 500 hectares daily of sacred landscapes, heritage sites, and culturally significant waterways
Technical aspects	Drone and satellite imagery, IoT and environmental sensor integration, 3D mapping, secure GIS data management
Impact	Preserved heritage, informed stewardship, reduced physical site disturbance, responsible data sharing

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The challenge

Documenting culturally significant sites can be complex and sensitive. Conventional methods often rely on in-person inspections, which can risk inadvertent disturbance, introduce environmental harm, or disrupt ongoing cultural practices. Fragmented data and inconsistent records make it difficult to track changes over time, coordinate stakeholder access, or ensure compliance with cultural protocols and regulatory requirements.

Without accurate, centralised documentation, the risk of damage to heritage areas increases, and decision-making is often reactive rather than proactive.

The solution

BunjilView captures detailed geospatial data using drones, aerial imaging, ground sensors, and satellite observations, integrating these streams into a secure platform. Dynamic 3D models and interactive maps provide a living record of each site, enabling organisations to visualise boundaries, track changes, and manage access permissions without physically disturbing the area.

Secure, centralised data allows stakeholders to collaborate responsibly, share insights with approved users, and support culturally aware decision-making. By combining traditional knowledge with advanced geospatial technology, BunjilView ensures heritage is documented accurately while respecting cultural protocols.

The impact

Documenting cultural sites with BunjilView delivers tangible benefits:

Remote, non-invasive monitoring	Protecting sensitive habitats by replacing frequent site disturbance with high-fidelity remote sensing
Centralised source of truth	Consolidating fragmented data into a secure, integrated platform for transparent stakeholder collaboration
Proactive stewardship	Moving beyond reactive damage control to identify and mitigate environmental risks before they escalate

Beyond the data: we ensure every digital record respects local cultural protocols, reducing environmental footprints while strengthening the connection to Country for future generations.

The future

As land use pressures and environmental changes continue, digital documentation of cultural sites will be essential for long-term preservation. BunjilView provides a single, secure source of truth for heritage records, enabling informed decisions, responsible collaboration, and proactive management.

By combining high-resolution geospatial data with culturally informed practices, BunjilView helps organisations safeguard Country, strengthen community engagement, and ensure that cultural heritage is preserved and respected for future generations.

Strategic consultation

Building your heritage baseline

Accurate documentation is the foundation of stewardship. BunjilView provides high-resolution digital records that respect cultural protocols while meeting modern regulatory requirements. Reach out to our team to move from fragmented records to a secure, precision-mapped heritage baseline.

Contact info@bunjilview.com.au for a documentation strategy session today.

Continue the series

Protecting Country requires more than a vision; it requires a unified platform for collaboration and the precision data to support strategic land use—visit www.bunjilview.com.au/insights and continue the series.

- **Next:** Proactive Heritage Monitoring & Risk Mitigation
- **Technical:** De-risking Projects through Cultural Intelligence

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Supply Nation CERTIFIED

NSWICC New South Wales Indigenous Chamber of Commerce

AAUS Australian Association for Unmanned Systems

BARS for RPAS Basic Aviation Risk Standard