

# Turning decades of disconnected data into a single, conservation - ready intelligence platform

*With Microsoft Fabric and One51, NSW National Parks and Wildlife Service brought together biodiversity, fire, and visitor data to make faster, smarter decisions.*

## Protecting some of Australia's most iconic landscapes needs better data

The NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW) safeguards over 895 national parks and reserves – 9.6% of the state's landmass. Its National Parks and Wildlife Service (NPWS) protects biodiversity, manages fire risks, preserves Aboriginal cultural heritage, and delivers visitor experiences to millions each year.

NPWS's ambition was clear – to become a performance- focused organisation powered by timely, trusted data. But decades of environmental, operational, and visitor information were trapped in disconnected systems, limiting the agency's ability to respond to emerging environmental threats and increasing reporting obligations.

## When data silos slow down conservation outcomes



Disconnected datasets from 20+ systems made cross-program insights difficult.



Manual reporting processes slowed responsiveness to new regulatory and operational needs.



Lack of a centralised platform hindered integration of biodiversity, fire, and visitor data, impacting proactive conservation and risk management.

## A platform that could unite people, programs, and possibilities

NPWS needed more than a technology upgrade – they needed a secure, government-compliant platform that:



Unified datasets across biodiversity, fire, operations, and visitor engagement.



Supported field teams with fast, reliable access to current data.



Enabled AI-readiness for predictive conservation and operational planning.

## Why One51 was chosen to deliver the vision

Following a rigorous government tender, One51 was selected for its track record in delivering Microsoft Fabric solutions at scale in complex public sector environments.



Integrated over 135 datasets from 20 legacy systems into a unified Fabric and OneLake platform.



Built dashboards for biodiversity tracking, hazard reduction reporting, and visitor experience insights.



Established security and governance aligned with NSW Government frameworks.



Onboarded staff across conservation, operations, and fire management, ensuring skills transfer for long-term adoption.

## What's next for NPWS

With the foundation now in place, NPWS can explore AI-driven conservation modelling, advanced risk forecasting, and more sophisticated visitor experience analytics – all built on the same unified platform.

If your organisation wants to turn fragmented data into a single, trusted source of operational insight, One51 can help you get there.

*Connect with us to cut through the complexity.*

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