



BUSINESS AREA: STRATEGIC CONSULTING

Case Study

National Heavy Vehicle Regulator GIS Strategy

The NHVR commissioned the development of a strategy to better understand and realise the opportunities to leverage geospatial data and technologies.

The National Heavy Vehicle Regulator (NHVR) provides industry leadership and drives sustainable improvements to safety, productivity and efficiency across the heavy vehicle transport sector. Critical to the execution NHVR's goals is the provision of reliable geospatial solutions and techniques to support key functions across the business and its stakeholders.

Spatial Vision worked closely with NHVR in scoping geospatial capabilities to meet present and future challenges. Priority areas were identified and roadmap actions were developed and prioritised. NHVR's motivation for this future is as follows: "Reliable and accessible geospatial intelligence underpins our vision of a safe, efficient and productive heavy vehicle industry serving the needs of Australia".

Implementing the strategy is key to improved vehicle access, safety, efficiency and sustainable productivity across the heavy vehicle transport sector. It also enables NHVR to support the transport industry proactively through building geospatial data and technologies infrastructure for sharing business intelligence.

"Spatial Vision helped us understand how we could use geospatial solutions better to deliver safety and productivity outcomes for the heavy vehicle industry in Australia."

David Carlisle

NHVR Solutions, National Heavy Vehicle Regulator

Customer Profile

www.nhvr.gov.au

Company

National Heavy Vehicle Regulator

Location

National with Queensland Head Office

Industry

Transportation

Products

Geospatial Strategy Roadmap

Solution

A Geospatial Strategy Roadmap that defines actions to develop and mature geospatial capabilities across the organisation. Implementation will drive the collection and utilisation of geospatial intelligence to improve service delivery, infield compliance monitoring and ultimately public safety.

Benefits

- Support sustainable improvements to safety, productivity and efficiency
- Improved road safety by targeted enforcement by Compliance Officers
- Improved access for heavy vehicles alone can deliver \$7 billion* in benefits through the reduction of time and cost for the heavy vehicle industry, with flow on benefits to other parties in the supply chain

*National Transport Commission, 2018



The Issue

Heavy vehicles perform a vital role in moving freight in Australia. According to the National Transport Commission, Improved access for heavy vehicles can deliver \$7 billion in benefits through the reduction of time and cost for the heavy vehicle industry.

NHVR is responsible for regulating heavy vehicles and administering the Heavy Vehicle National Law. In addition, many safety monitoring services delivered by different jurisdictional agencies are actively being transitioned to the national body.

In NHVR's current state, evidence-based geospatial technologies are used ad-hoc by many, but are not delivering their full potential value in the areas of route planning, network management, analytics, reporting and compliance investigations.

The Solution

As the lead organisation driving improvement to safety and compliance, NHVR recognised they were underutilising their resources and commissioned 4 a strategy to create a roadmap to develop mature geospatial capabilities across the organisation.

NHVR engaged Spatial Vision to review its current business practises to define what a future state would look like by making more effective use of geospatial resources.

Our consultants conducted intensive workshops with NHVR business teams to identify their current and future needs for geospatial intelligent data and services. This collaboration highlighted the need to focus on proactively supporting the vehicle transport industry with geospatial capabilities, fostering self-servicing by staff and customers, and growing a geospatially-aware business culture.

Three priority streams were identified for implementation over the next three to four years:

1. Geospatial Data Infrastructure

Laying the foundations of technology and data for organisational geospatial capabilities

2. Operations

Building applications and tools that facilitate and improve operational efficiency

3. Live

Supporting timely and transparent access to geospatial intelligence for NHVR and industry stakeholders.

The strategy roadmap defined deliverables and actions that will be developed in a staged approach. It embraced NHVR's strategic directions, policies and initiatives to achieve NHVR's vision for "reliable and accessible geospatial intelligence that underpins a safe, efficient and productive heavy vehicle industry serving the needs of Australia".

The Benefits

The overall objective is to build and sustain a geospatially-capable, transparent, efficient and safe heavy vehicle transport sector. Full implementation of the strategy will realise significant benefits to NHVR operations, the transport industry, customers and the public. Customers include drivers and operators seeking route information and permits, as well as road managers. Road managers are both jurisdictional agencies and local government responsible for road infrastructure.

Some examples of benefits include:

- ✓ Streamlining the route permit approval process for drivers
- ✓ Reduced work load on NHVR customer services and road managers Introduced spatial product initiatives enable improvement of processes to visualise and extract statistics for compliance checks
- ✓ Better evidence base for NHVR and road managers to make investments decisions
- ✓ Better tactical planning and monitoring of compliance field operations and scenarios for major events
- ✓ Increased road safety for the public and drivers

Our geospatial strategy assists NHVR, the transport industry and other stakeholders in creating an efficient and productive industry now and into the future. To learn more, [please get in touch](#).

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