SCATS

Move Smarter

# Unified data model, APIs and AI agents

*Turning SCATS data into an asset anyone can use*

SNUG - September 2026

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NSW GOVERNMENT

## Agenda

| | | |
|---|---|---|
| 01 | The opportunity | Today it is difficult to access all SCATS data |
| 02 | Phoenix overview | Our high-level approach — the four pillars |
| 03 | Unified data warehouse | One trusted model across all SCATS data |
| 04 | AI agent framework | Ask questions in plain language, get answers |
| 05 | Cloud & infrastructure agnostic | Runs anywhere |
| 06 | Live demonstration | See Phoenix in action |



THE OPPORTUNITY

## SCATS Data is rich but hard to access

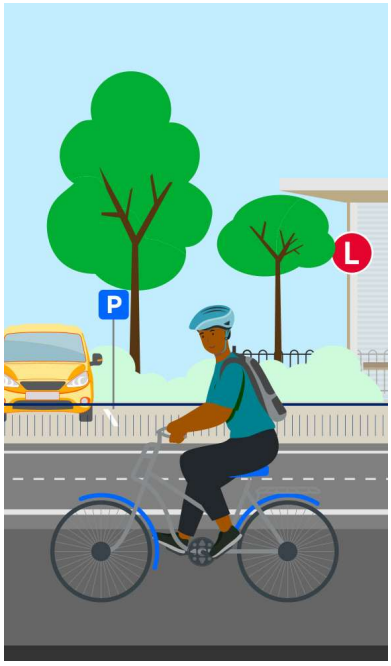
**Today**

- High-value SCATS data locked in special files
- Every new question means a new custom extract or a specialist's time
- Different tools and requires documentation to understand the definitions
- Hard for analysts, partners and innovators to self-serve

**Future**

**WITH SCATS PHOENIX**

- One trusted model, one set of APIs, one place to ask
- Ask in plain English - no SQL, no specialist queue
- A platform we can extend and offer as a product

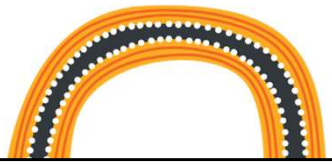



The data has always been valuable — the problem was ACCESS.
Every question used to need a specialist and a custom extract. Phoenix flips that to self-service.

PHOENIX OVERVIEW

## Our high-level approach: four pillars

| Unified Data Warehouse | SCATS Intelligence Layer | Cloud & infrastructure agnostic | Single point of access |
|---|---|---|---|
| All SCATS data brought together into one consistent, trusted model. | Ask questions in plain language;<br><br>AI agents do the analysis for you | Runs on any cloud or on-prem | One set of APIs and one experience for every user. |



Frame it as 'four design choices we made'. WHAT and WHY, not HOW. Example line:
'We deliberately kept it open and cloud-agnostic — because we're building a product we can put anywhere our clients need it.'

Plant the commercial seed here: 'single point of access' is the thing we can sell.

PILLAR 1

# Unified Data Warehouse



We have modelled most of the SCATS world in one database - regions, sites, detectors, signal phases and timing, detector volumes.

**Regions & sites** **Detectors & lanes**

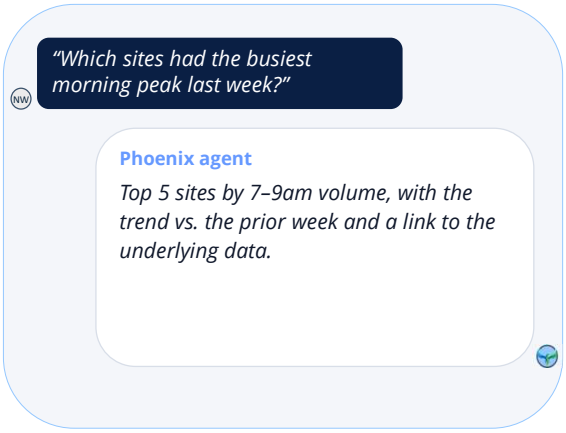
**Subsystems** **Signal phases & timing**

**Detector volumes** **Strategic inputs**

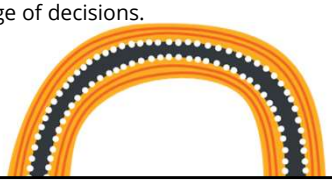
- **One version of the truth —** consistent names and definitions across every team and tool.
- **Built for scale —** high-volume time-series data sits alongside reference data without slowing anything down.
- **Ready for AI —** a clean, well-described model is exactly what AI agents need to answer questions reliably.

PILLAR 2

# An AI Agent Framework




- **Plain-language access -** ask a question, get an answer.
- **Answers you can trust -** agents work from the unified model and can show their source.
- **A framework, not a one-off -** new agents for new jobs - reporting, monitoring, planning support.
- **Human in control -** agents assist and explain; people stay in charge of decisions.



PILLAR 3

# Cloud & infrastructure agnostic

Phoenix is built on open standards, so it runs where you need it - any major cloud or on-premise.

| Portable by design | Lower risk | Deploy to the client |
| --- | --- | --- |
| Move it, scale it or lift-and-shift it — Phoenix isn't tied to one provider | Open standards mean fewer surprises and no dependence on a single vendor's roadmap | We can stand Phoenix up inside a client's own environment, data boundary and SCATS Console. |

## Now let's see Phoenix for real.

Live demonstration

WHY IT MATTERS

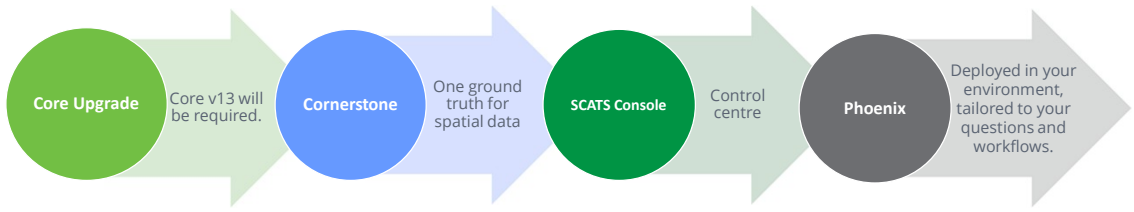
## What Phoenix means for you

| | |
|---|---|
| **Faster answers** | Questions that took days now take seconds. |
| **One source of truth** | Everyone works from the same trusted data. |
| **Wider access** | Anyone with access to Cornerstone, SCATS Console and Phoenix will be able to get insights to traffic data. |
| **Future ready** | A platform to build new agents and services on. |

WHAT'S NEXT?

# The Phoenix Roadmap

Today is a demonstration of how traffic will be managed in the future. Here's how Phoenix grows into a product and tool that will be accessible to you.




**We've shown you what's possible. The next step is working with you to getting Phoenix on your screens.**

Phoenix — a single point of access to all SCATS data.

Q&A

## Thank you

For more information or a deep dive into any of today's topics,
please contact SCATS Help at scatshelp@transport.nsw.gov.au or visit scats.nsw.gov.au