

*We're working for
Western Australia.*



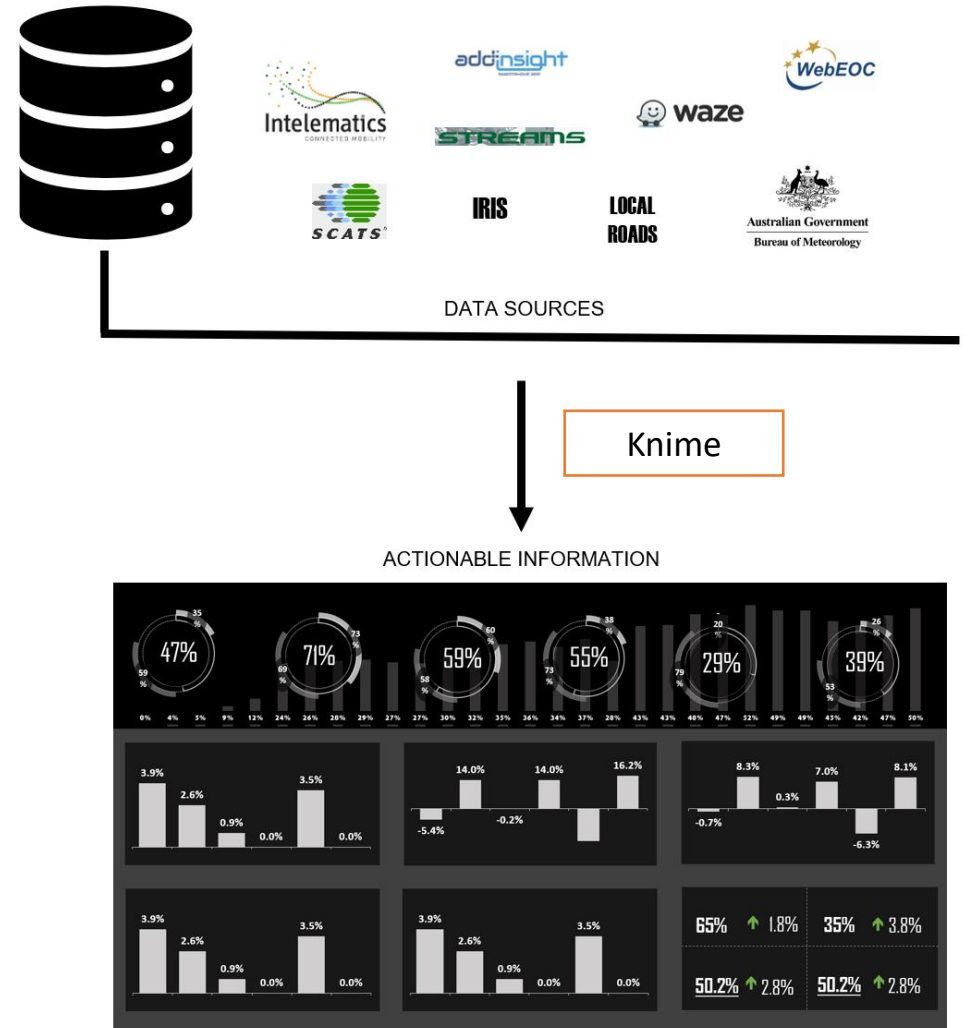
Knime Data Talks

Using Knime to Harvest Data for Perth's Smart Freeway

David Rey

Main Roads WA Network Operations Analysis

- Implement and maintain data systems to inform traffic congestion decision-making.
- Analysis and sharing of network performance information within Main Roads and the wider transport portfolio.



Perth's First Smart Freeway

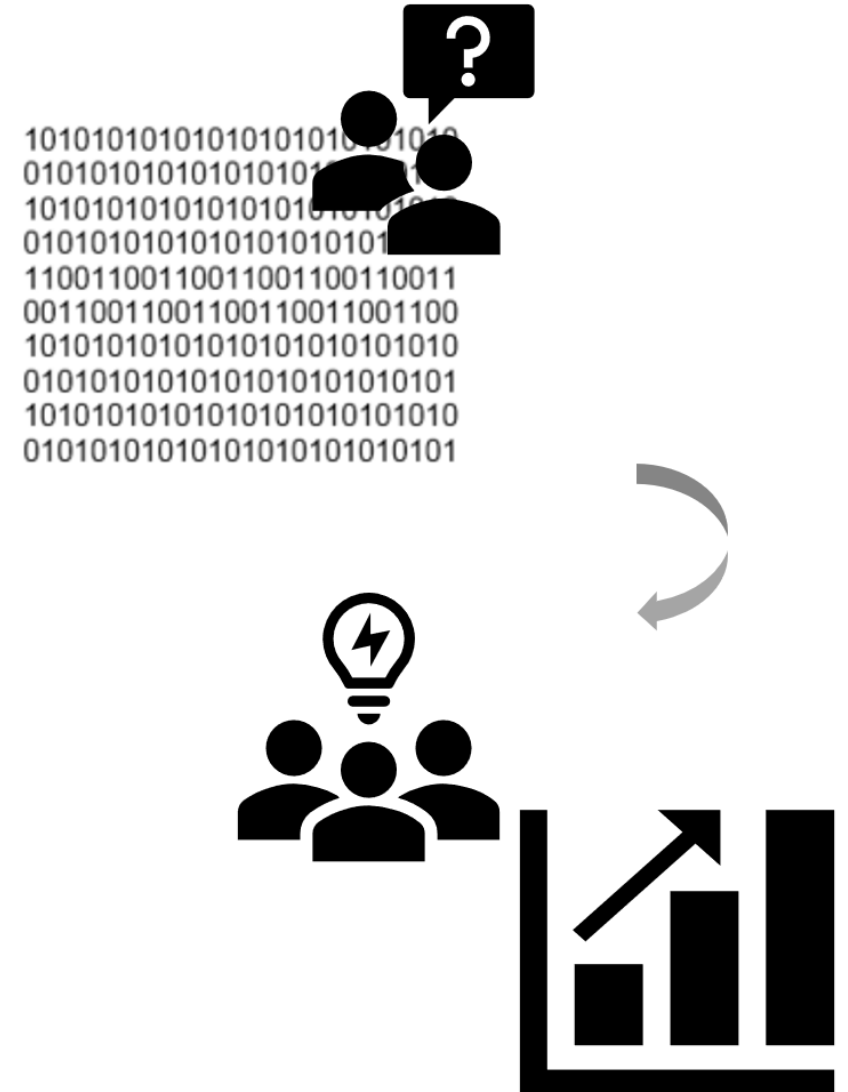
Freeway that use smart technologies to deliver more reliable journeys, a safer driving experience and reduced congestion while we make better use of existing road infrastructure.



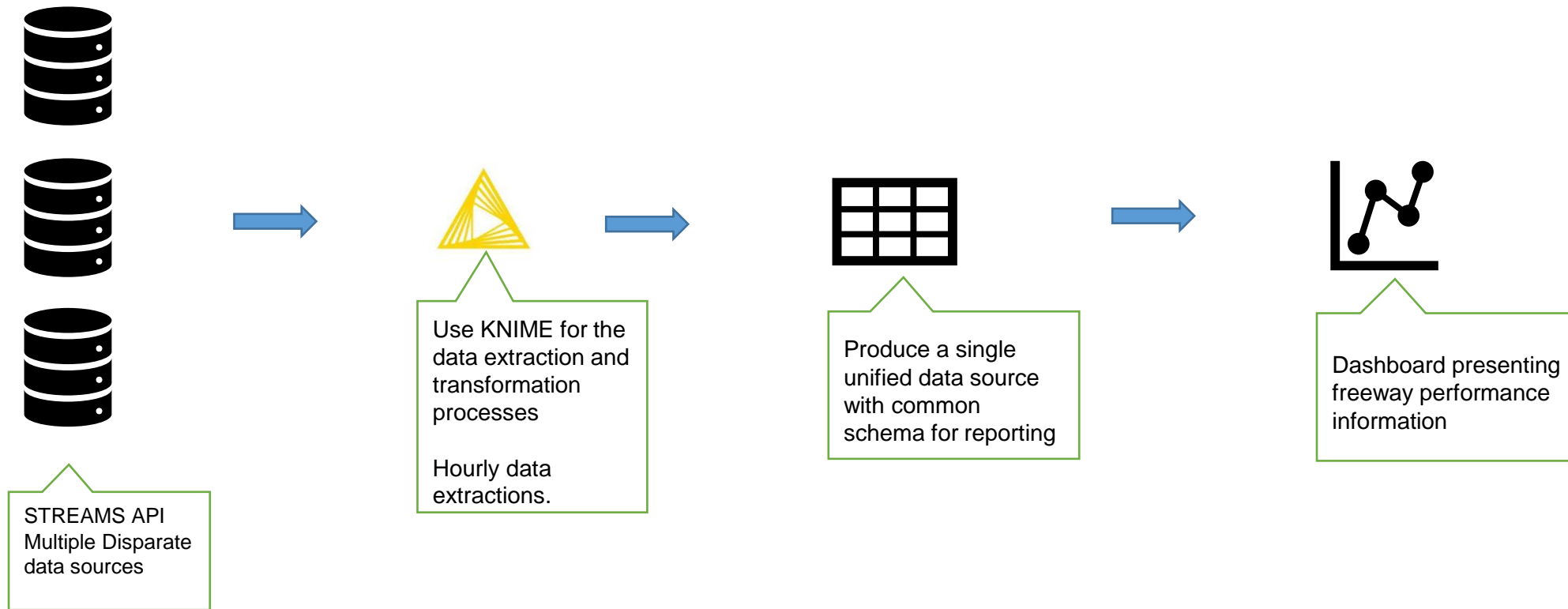
What was the challenge?

- The out of the box reporting tools of the Smart Freeway systems did not provide all the information required by the managers and operators.
- The raw data from the sensors is only accessible via different APIs with different schemas which makes it really difficult for the everyday users and executives to access
- The capabilities of visualisation tools such as Tableau and Power BI were not enough to shape the data as required. (Hourly data updates were required)

Challenge: collect and convert the road sensors' data to accessible information (*on demand*) that meet the reporting requirements for different audiences.



Solution Approach



Demonstration

- Knime workflows
- Daily dashboard
- Weekly high level report



Thank you