



**talis**  
consultants  
ASSET MANAGEMENT



# TALIS CONSULTANTS

## WHO WE ARE

Talis was established in 2012 and is a medium sized, versatile consultancy with a particular focus on client service across the public and private sectors. We are a multidisciplinary team with established capabilities in the areas of:

- Assets
- Engineering
- Environment
- Noise
- Spatial
- Waste



## WHAT WE DO BEST

### FIT-FOR-PURPOSE SOLUTIONS

At Talis we recognise the necessity to develop tailored project solutions that are cost effective and fit for purpose. Best practice asset management is achieved by adopting a life-cycle approach, which uses transparent, informed decision-making processes, that takes into account the whole-of-life implications of acquiring, operating, maintaining and disposing of assets.

### WE UNDERSTAND PUBLIC INFRASTRUCTURE

Our multidisciplinary team have a diverse work history, having either worked for or provided consultancy services to local and state governments and private enterprises. We have in-depth knowledge and understanding of government processes, including governance, procurement and design standard requirements which contributes to the successful delivery of both government as well as private projects.

### WE UNDERSTAND PUBLIC WORKS FUNDING

Talis' multidisciplinary team and expertise

- Diverse work history with funding mechanisms for public works projects.
- In-depth knowledge of government processes, including governance, procurement and design standards
- Expertise contributes to successful delivery of government and private projects

### DIVERSE RANGE OF CLIENTS

- Client-focused culture and local government knowledge
- Commitment to providing effective, tailored solutions with technical expertise
- Success in delivering solutions for both private and public sector clients
- Clients include Main Roads WA, Port Authorities, BHP, Chevron and others





# OUR SERVICES

Assets exist solely to facilitate the delivery of a required service to the community. The asset life cycle begins at the conceptual phase and requires ongoing management decisions:

- Guided by sound STRATEGY that is
- informed by business INTELLIGENCE
- formed by the use of INFORMATION
- based on relevant and reliable asset DATA.

In this way, an effective Asset Management Process will see evidence-based decision making, ensuring the right money is spent on the right asset at the right time. It arms organisations with the corporate intelligence necessary to shape their future. It is about prioritisation of resource allocation, productivity and sustainability, meeting current and future services needs and is ultimately about cost reduction and risk management.



## DATA

- Infrastructure inventory & condition data capture
- Data capture specification development
- Software configuration and development
- Data management
- Spatial data collection / conversion
- High speed data capture - roughness, rutting, texture, digital video
- CCTV inspection

## INFORMATION

- Data analysis
- Reporting
- Data improvement
- Process optimisation
- Specialised GIS services
- Asset management plans
- Deterioration and depreciation curves

## INTELLIGENCE

- Business analysis
- Level of service development
- Predictive modelling
- Identification of funding requirements / gaps
- Spatial analysis and modelling
- Infrastructure valuation
- Dashboard development

## STRATEGY

- Frameworks, strategies and plans
- Health checks and maturity assessments
- Integrated planning and reporting
- Capacity and capability building
- Peer reviews
- Organisational change management

# PUBLIC WORKS INFRASTRUCTURE



## ASSET CLASSES

ROADS

FOOTPATHS

BUILDINGS

DRAINAGE

## CONSULTING TO LOCAL GOVERNMENTS





Asset Management shapes the future. It is about prioritisation of resource allocation, productivity and sustainability, as well as planning for assets to meet current and future service and business needs. At Talis we offer an integrated, multidisciplinary set of services and strategies required to enable long term asset management.



**PARKS**

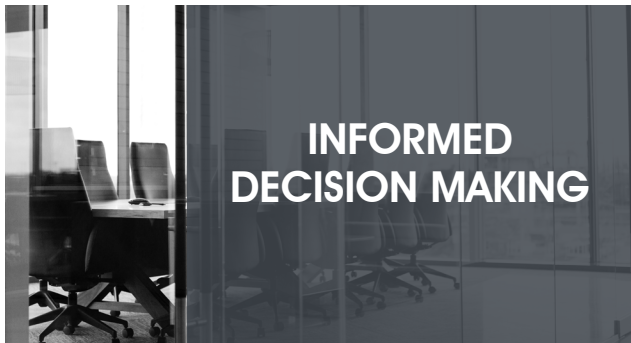
**BRIDGES**

**WASTE**

**FLEET**

**NATURAL**

Talis distinguishes itself through its extensive local government experience and intimate knowledge of government processes. This allows our team to provide advice, guidance, and assistance across all facets of corporate strategic planning, and to work in partnership with our clients to provide the right asset management solutions.





# PUBLIC WORKS MAINTENANCE CONTRACTORS & SERVICE PROVIDERS

## Consulting Services to Maintenance Contractors and Service Providers

Maintenance providers and infrastructure owners have very specific Asset Management needs. We provide specialised resources and consulting services to optimise long-term contract value and ensure the right money is spent in the right place at the right time.

- True Quantifier of Effective Asset Management
- Emphasis on Budgets and Deliverables
- Outsourcing from State Government
- Very Real Outcomes
- Public Private Partnerships
- Long Term Contracts



**Analysis**



**Performance Modelling**



**Maintenance & Renewal Optimisation**



**Data Management & Business Intelligence**



**KPI Reporting**



**Risk Management**

The services we offer to maintenance contractors and infrastructure owners, supported by our digital capability and tools, enable them to make long term strategic decisions across the whole asset life cycle.



# DATA CAPTURE TECHNOLOGY

Asset management relies on accurate data to make informed decisions. With advancements in technology, data capture has become a fundamental aspect of asset management. Data Capture Technology involves the use of lasers, cameras, sensors and other tools to collect and analyse data in real-time, providing valuable insights into the condition of assets.

## Laser Pavement Profiler

Talis has recently acquired the state-of-the-art CS9500 Inertial Laser Pavement Profiler System with technology that provides the functionality to scientifically capture valid road roughness, rutting and texture data. The vehicle is equipped with:

- First laser profiler in Australia to be unaffected by low speeds and constant stopping
- Accurately survey road networks of high traffic volume at peak times
- Scans the entire width of the lane up to 4.2m
- Simultaneously measures wheel path, transverse profile, texture and 2D/3D surface for land surveying and machine control applications



## Hawkeye 2000 Profiler

Talis utilises a Hawkeye 2000 Plus Inertial Laser Pavement Profiler System to scientifically collect automated road roughness, rutting and texture data across sealed road networks. The survey unit utilises:

- 11 laser sensors and 2-line scanners to digitally scan and profile the entire width of the lane
- A series of High-res pavement cameras
- High accuracy GPS
- 360-degree camera with unimpeded view of the road that can be utilised for the assessment of geolocated surface defects and traffic facilities.

## Footpath Survey Unit

Talis utilises an e-Trike that is specifically designed to be operated safely on footpaths. The vehicle is friendly to the environment both in carbon footprint and noise emissions. The Trike is equipped with:

- Specialist GPS for accurate data capture
- Digital image capture
- High-Definition (5K) digital video recording
- Onboard computing for the real time capture of inventory, condition and defect Information





## TALIS CONSULTANTS SERVICES

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