

Strategic  
Partnership



**TALISMAN**  *aarvee*

# CAPABILITY STATEMENT

A Formal Co-Operation Agreement  
Delivering Value Where Others Can't

# A Partnership Built on Expertise & Execution

Talisman Technical and Aarvee have come together in a formal Co-Operation Agreement to pursue business opportunities where a combined offering delivers superior value to clients. This partnership is not a full merger—both companies retain their independence—but it allows us to collaborate strategically on select projects that benefit from integrated solutions across mining, engineering, and technical services. This is about answering a growing client need.



Aarvee is a multi-disciplinary engineering consultancy, specializing in transport, water, energy, and infrastructure. Combining local expertise with global High Value Engineering (HVE) resources, the company delivers cost-effective, high-quality solutions at scale.

*“We engineer smarter, more efficient solutions—leveraging a global model to deliver real value where it matters.” – Sneha Redla International Director*

## TALISMAN

Talisman Technical is a leading mining and ESG advisory, providing technical expertise spanning the resources, infrastructure, energy, agriculture, insurance and utilities sector. With deep industry roots in coal and multi-commodity mining, Talisman provides strategic, operational, and ESG-driven solutions that maximise asset value and simultaneously manage risk.

*“We deliver results—not just recommendations. Our team blends operational experience with technical expertise to create real-world impact. We are from industry, for industry.” – Grant Polwarth, Director, Talisman*





## Our Partnership

In today's evolving resources and infrastructure landscape, projects demand faster, more integrated, and cost-effective solutions. The traditional approach of coordinating multiple vendors often leads to delays, misalignment, and budget overruns. The Talisman-Aarvee partnership directly addresses these challenges by bringing world-class mining, engineering, and operational expertise together under one strategic approach, with trusted partners who have walked a mile in your shoes.

This integrated model delivers streamlined solutions that eliminate inefficiencies and duplication across projects. Timelines are accelerated through agile leadership and execution while costs are optimised through specialised technical expertise and resource management. This approach ensures projects move from concept to completion with greater certainty and value.

## The Challenge

Complex projects routinely suffer from fragmented service delivery, with organisations juggling multiple vendors and consultants across development phases. This lack of integration creates unnecessary delays, cost overruns, and operational inefficiencies. The market needs a faster, integrated approach that streamlines execution and optimises resources.

## The Solution: An Integrated Approach



**Integrated Solutions:** One team delivering comprehensive capabilities across mining advisory, engineering design, technical services, and project management.



**Commercial Value:** Optimised cost structure through streamlined delivery methods and Aarvee's specialised High Value Engineering capabilities.



**Technical Precision:** Engineering-first approach grounded in practical mining experience, ensuring solutions that work both in theory and in practice.



**Agile Delivery:** Founder-led decision-making that eliminates bureaucracy, accelerates timelines, and adapts quickly to changing project requirements.

Talisman provides comprehensive solutions for the resources sector, including ESG and Sustainability Advisory, Operational Resourcing, Safety Management, and Mining Advisory. Our all in approach with clients helps us to understand their challenges and provide industry-leading solutions to help them achieve a sustainable future.

## Talisman Services | Mining Advisory



### Mine Design

- Short, medium & long term designs
- Mining method design and evaluation
- Design optimisation and strategy
- All with industry standard software including Deswik and Vulcan



### Mine Scheduling

- Short, medium & long term scheduling
- Mining & dumping
- Processing and logistics
- All with industry standard software including XPAC, Deswik and Spry



### Haulage Design and Analysis

- Haulage modelling and scheduling using industry standard software
- Analysis of haulage networks
- Evaluation of haulage network improvements



### Ventilation & Water Management

- Ventilation design
- Gas management and spontaneous combustion management
- Strata Control
- Water management



### Mine Infrastructure Engineering

- Mine infrastructure and equipment engineering
- Equipment design and selection



### Studies

- Mining engineering support across all study phases
- Concept, pre-feasibility and feasibility
- Financial evaluation
- Productivity simulation and estimation



### Operational Planning & Control

- Operational Processes
- Operational planning and readiness
- Production and productivity evaluation
- Productivity simulation and estimation



### Project Management

- Risk evaluation
- Contractor selection
- Marketing and Logistics
- Project execution



### Mine Management & Personnel

- Mine management and personnel evaluation
- Interface with other consultants and suppliers



### Data Analysis & Benchmarking

- Benchmarking based on extensive in-house databases
- Technical analyses of mining technology



### Environment, Health & Safety

- ESG and decarbonisation strategies to support mine development & approvals
- Safety, health & statutory compliance
- Environmental compliance & approvals



### Cost and Financial Analysis

- Mine capital and operating cost estimation
- Financial modelling

## Talisman Services

### Environment, Social, Governance & Compliance



#### ESG Frameworks & Strategies

- Develop ESG frameworks and policies
- Set up reporting metrics and systems
- Identify and respond to global ESG trends



#### Integrated Management Systems

- Develop, review, and implement H&S and environmental management systems
- Integrate disaggregated management systems



#### Governance & Assurance

- Develop and implement ESG governance and audit programs
- Facilitate site and corporate assurance activities
- Support ESG commitments and membership obligations



#### Management & Executive Advisory

- Supply senior H&S and Sustainability executives to corporate and site roles
- Support leadership with strategy and solutions



#### Finance, Market & Business Advisory

- Advice on ESG for finance and insurance markets
- Identify and deliver on ESG credentials to meet requirements
- Provide experienced ESG practitioners for strategic support



#### Emergency Response

- Develop and review emergency response systems
- Crisis management frameworks
- Corporate and site-level readiness



#### Business Improvement

- Clarify roles and decision making processes
- Streamline processes and routines to reduce waste, improve service delivery, and support compliance
- Identify opportunities to better use systems and data



#### Critical Risk Management

- Develop and implement critical risk systems and controls
- Establish reporting metrics and management frameworks
- Introduce software for critical control and event analysis



#### Specialist Environment Support

- Deliver specialist environmental and compliance services
- Support projects, operational changes, and legal requirements
- Provide site-based coverage across environmental disciplines



#### Specialist Safety Support

- Deliver specialist safety and compliance services
- Support operations and projects with transactional activities
- Provide site-based coverage for safety, health, and compliance



#### Decarbonisation

- Help clients transition to a decarbonised future
- Leveraged existing data and systems for improved efficiency
- Develop solutions to streamline workflows and automate reporting



#### Risk Management Frameworks

- Develop enterprise risk management frameworks
- Facilitate integrated operational risk management
- Implement critical control systems



#### Due Diligence Support

- Provide ESG due diligence support
- Cover health, safety, risk, & compliance matters
- Assess community, environment, governance, and approvals



#### Environmental Approvals

- Environmental approvals and approvals project management for greenfield and brownfield changes
- Compliance monitoring against approval conditions

# LOOP

Decarbonisation Solutions

From concept to execution, Loop Decarb manages the full decarbonisation process end-to-end. With deep operational experience, Loop effectively navigates the interface between active mining and decarbonisation activities, reducing risk while maintaining production. All aspects are integrated—including health, safety, environmental risk, and management systems.

## LOOP Services | Decarbonisation



### Decarbonisation Strategy

- Develop practical decarbonisation strategies align with production goals
- Provide peer reviews, policy advice, and regulatory guidance
- Guide clients toward low-cost, high-impact abatement pathways



### Emissions Reduction Pathways

- Develop a fit-for-purpose decarbonisation pathway with site teams
- Identify and model abatement opportunities across all emission streams
- Prioritize projects using marginal abatement cost curves for execution planning



### Gas Reservoir Characterisation & Strategy

- Characterize gas reservoirs to understand fugitive Scope 1 emissions
- Assess gas content, composition, saturation, and permeability
- Develop production models to inform drainage plans and NGRS reporting



### Engineering, Studies & Program Approvals

- Deliver full study programs for integrating new processes into active sites
- Manage HSE systems, approvals, compliance, and change processes
- Integrate with mine planning and LOM to deliver drill-ready solutions



### Drilling, Drainage, Project Management & Reporting

- Use gas production models to design effective GHG drainage ahead of mining
- Deliver just-in-time drilling align with mine plans and safety standards
- Manage drilling, well field operations, and all reporting integration



### Beneficial Use & Offtake

- Assess and prioritise gas use via marginal abatement cost curves
- Deliver beneficial use solutions like CNG trucks and power generation
- Explore offtake agreements based on site location and viability





As multidisciplinary design consultants, Aarvee operates across all major sectors including mining, rail, roads, ports and energy offering end-to-end solutions that are technically robust, the right price and sustainable.

## Aarvee Services | Engineering



### Mining and Processing

Design and advisory services for open-pit mining operations, crushing and screening systems, material handling, mineral processing, and associated non-process infrastructure.



### Transport and Logistics

Engineering support for haul roads, stockpiling systems, mine-to-port rail and road networks, and port infrastructure for efficient bulk material export.



### Water and Environmental Services

A strong in-house team offering surface water, groundwater, and coastal modelling, including mine water management and environmental assessments to meet compliance and sustainability goals.



### Energy and Renewables

Design and integration of renewable energy systems such as solar farms, battery storage, and hybrid power solutions to support off-grid mining operations and reduce carbon footprint. We also provide feasibility and grid connection studies for renewable and transmission infrastructure.



### Rail Systems

Complete design solutions for rail infrastructure including track, civil structures, Overhead Electrification (OHE), and Signalling & Communications, leveraging our in-house and global delivery teams



### Construction Phase and As-Built Support

Full lifecycle services including RFI management, post-IFC design changes, as-built documentation, and delivery of asset management packages.



### Infrastructure Development

Planning and design of processing plants, conveyor systems, load-out facilities, and port terminals, aligned with operational efficiency and long-term maintenance strategies.



### Digital Engineering

End-to-end GIS and BIM support for mining and transport projects, ensuring digital integration, spatial accuracy, and data-rich models for design, construction, and operational use.



### Remote Communications and Operational Technology

Integration of wireless networks, CCTV, digital radios, and industrial IT systems to ensure safety, monitoring, and secure operations across remote sites.



### Advisory and Feasibility Services

Strategic planning, feasibility studies, approvals support, and logistics optimisation—delivering insights across technical, commercial, and operational domains.



### Asset Management Systems

Integrated asset lifecycle planning and management solutions, combining spatial data, design documentation, and maintenance insights for informed decision-making.

# Leadership Team

Our leadership team brings together the best of mining, engineering, infrastructure and strategic execution—ensuring every project benefits from deep industry expertise and hands-on leadership.

**TALISMAN**

**aarvee**



## Grant Polwarth

**Director Talisman Technical**

Grant holds a Bachelor of Mining Engineering (Honours) and a Graduate Diploma in Mine Ventilation. He has held senior leadership roles throughout the mining industry, including Managing Director of Lake Coal, and co-founded Fitzroy Australia Resources as CEO and Managing Director before co-founding Talisman.



## Sneha Redla

**Aarvee International Leader and Corporate Director**

Sneha is an Engineering Professional and Corporate Board member and a Director of the Australian Business. The daughter of the founder Sneha has 10 years' experience in the design and delivery of projects in Australia and has led the exponential growth of the companies Rail division and international expansion into more than 20 countries.



## Justin Joubert

**CEO Talisman Technical**

Justin is a mining executive with over 16 years' experience leading operational and corporate teams. He has worked across all stages of the mining life cycle, including mine approvals, greenfield operations, brownfield expansions and mine closure.



## David Bell

**Regional Leader ANZ**

David is a Project Management professional with more than 35 years industry experience in the delivery of major projects and programs across ANZ. David has 20+ years consulting experience including foundational roles in the establishment of Consulting businesses for HDR, MWH, Stantec and as Managing Director Australia for Atkins Realis.



## Shaun Hansen

**Head of Mining Advisory**

With over 20 years of experience in the mining industry, both in Australia and internationally, Shaun brings demonstrated capability both as a Mining Engineer and as a Technical/Operational Leader.



## Ramesh V

**Global Design Centre Leader, Australian Company Director, Talisman/Aarvee pre contracts Board member**

Ramesh is an Engineering professional with more than 10 years' experience in the design and delivery of projects in Australia and has co-led the exponential growth of the companies Rail division and international expansion into more than 20 countries.



## Ivan Budd

**Head of ESG Advisory**

Ivan has 20 years of ESG and safety expertise in large resource organisations, specialising in management systems for governance, implementation, and continuous improvement.



## Damir Panzich

**Market Sector Leader WA, Talisman Aarvee pre contracts Board member**

Damir is an engineering professional more than 25 years' experience in the design and delivery of complex projects and specialist services to the resources sector. Damir has developed and led his own engineering businesses and is an acknowledged industry leader in the finance and development of resources projects across the Asia/Pacific Region



## Mark Halligan

**Sector Leader Energy and Power**

Mark is an engineering professional with more than 25 years' experience in the design and delivery of projects and services to the Mining, Oil and Gas, Energy, Power and renewables sectors across Asia Pacific. Mark has held executive roles with several major consultancy organisations

# Contact Us

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