



delonix
SOLUTIONS

Capability Statement

All Services



November 2024

going further

Going Further at Delonix Solutions	3
EPCM Expertise	4
Design, Drafting, and Shop Detailing	5
Metallurgical Testwork Process Engineering	8
Process Plants	9
Materials Handling Solutions	9
Mechanical Engineering	10
Piping Engineering	10
Structural Engineering	11
Civil Engineering	12
Industrial Infrastructure & Buildings	12
DEM Analysis & Advanced FEA	13
Electrical Controls & Buildings	14
Delonix Solutions Automations	14
3D Scanning & Surveying	15
Safety in Design	16
Delonix Solutions Softwares	17



Going Further at Delonix Solutions

Who We Are

Delonix Solutions is an East Perth-based engineering company specialising in delivering Engineering, Procurement and Project Management solutions for the mining sector.

Our experienced team of 70+ professionals provides end-to-end services, from feasibility studies to detailed engineering services, including brownfield and greenfield mineral processing plant design, expansion, and improvements.

Our Mission

Delonix Solutions is committed to delivering optimum project outcomes for our clients as we act in their best interest.

We achieve this by fostering a vibrant corporate culture, leveraging global collaboration, and employing cutting-edge technology to provide competitive, responsive, and flexible engineering solutions across the resources, rail, and infrastructure sectors.

Delonix Approach

Delonix Solutions is committed to Safety in Design. We integrate safety considerations into every stage of the design process, from concept to completion. Our rigorous design review process, conducted by a combined project team, ensures compliance with all relevant regulations and standards.

By proactively identifying and mitigating risks, we deliver safe, efficient, and sustainable projects.

We are able to respond quickly and scale our approach to meet your needs.

What Sets Up Apart

Advanced engineering expertise

Our team possesses deep knowledge in advanced minerals processing, hydrometallurgy, and materials handling. We're able to overcome difficult requirements while maintaining design simplicity.

Cutting-Edge design tools

We optimise designs and ensure structural integrity using tools like FEA, discrete element modelling, and laser scanning.

Integrated design and fabrication

Our integrated approach, using Tekla, streamlines the design and fabrication process, improving efficiency and accuracy.

Data-driven insights

We utilise advanced reporting tools like Vantage Point to extract valuable insights from data, enabling informed decision-making and continuous improvement.

Delonix Solutions has extensive experience in roles such as owner's engineer, project manager, EPCM provider, design engineering consultant, and commissioning manager.

We excel in multi-disciplinary engineering design and value engineering, ensuring smooth transitions from study to execution and operation.



goingfurther

EPCM Expertise at Delonix Solutions

Specialising in Engineering, Procurement, and Construction Management, we excel in delivering fully integrated solutions across diverse sectors including oil and gas, petrochemicals, power generation, mining, manufacturing, and infrastructure.

Process Engineering Consultants: We Determine A Cost Effective Solution.

Our team integrates Structural, Mechanical, Civil, Electrical, and Process engineering disciplines seamlessly under EPCM contracts, ensuring efficient project execution and minimizing delays.

Tailored Solutions

We specialise in processing plants, equipment, facilities, and infrastructure projects, offering flexible contract structures that adapt to project needs.

Client-Centric Approach

From feasibility study to construction, our dedicated engineers and managers collaborate closely, safeguarding client interests and ensuring optimal project outcomes.

Proven Success

With extensive experience and a commitment to excellence, Delonix Solutions is recognised as Perth and WA's leading EPCM provider, leveraging robust information systems and technology to overcome project challenges.

Additional Services

- Project Management
- Procurement and Supply Chain Management
- Construction Management
- Cost Estimating
- Scheduling
- Cost Control

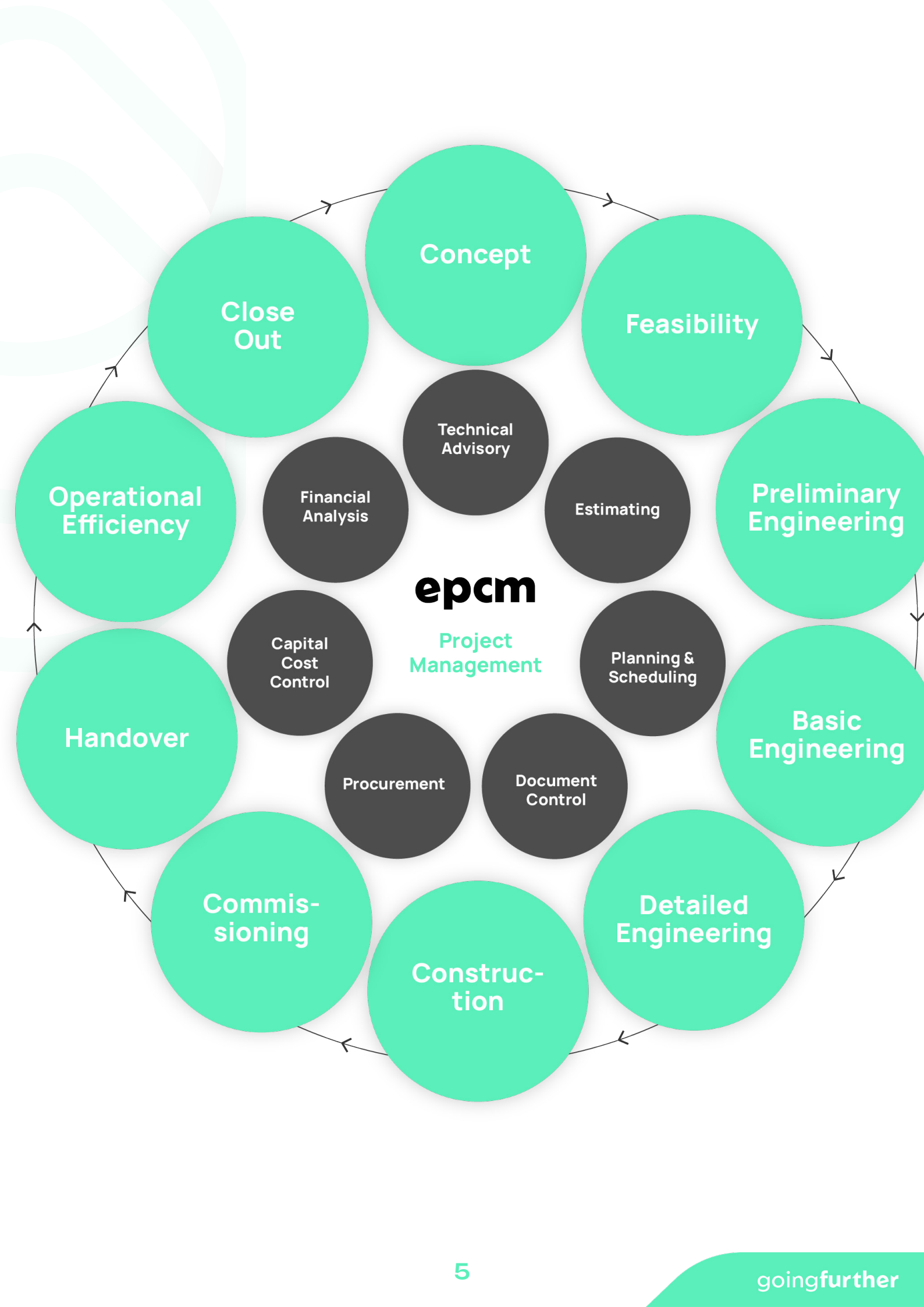
Northern Star – KCGM

Fimiston South growth project

Delonix Solutions provided engineering design for the following areas of the project:

- Enabling Earthworks and Civil Design Overall
- Full Plant 3D Scanning and Surveying





Design, Drafting, and Shop Detailing

Benefits of Working with Delonix Solutions:

Integrated Solutions

At Delonix Solutions, we pride ourselves on offering fully integrated solutions that encompass design, drafting, and shop detailing, ensuring that every aspect of your project is handled seamlessly. Our approach ensures cohesive project execution, minimising the risk of discrepancies and enhancing overall project efficiency.

Experienced and Skilled Team

Our team comprises principal designers, lead SMO designers, and layout designers with extensive experience across various systems and project types. This depth of experience ensures that we can handle projects of any complexity, delivering high-quality results every time.

Customisation and Flexibility

We understand that every client has unique requirements. Our team is adept at customising our services to match client-specific CAD procedures and numbering systems. Whether you prefer Bentley, AutoCAD, Tekla, or another system, we have the expertise to adapt and integrate these systems into our workflow, ensuring your project runs smoothly.

Multi-Disciplinary Expertise

Our expertise spans multiple disciplines, including concrete, structural, mechanical, piping, and civil design. This multi-disciplinary approach ensures that all aspects of your project are considered and integrated, leading to a more comprehensive and coordinated project delivery.

Our Experience and Team Procedures

Consolidated Team Procedures

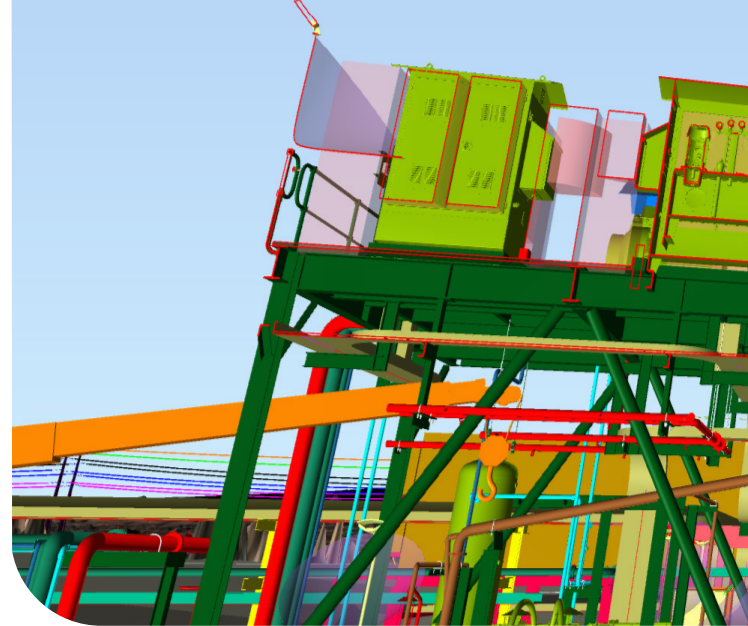
Our experienced team follows well-established procedures to ensure consistent and high-quality outcomes.

Focus on Design Management

Our emphasis on design management sets us apart, ensuring projects are delivered efficiently and effectively.

Communication

We prioritise clear communication with clients and stakeholders throughout the project lifecycle.



Workflow and EPCM Team Integration

Our workflow ensures seamless integration with EPCM teams, covering:

- Concrete Design
- Structural Design
- Mechanical Design
- Piping Design
- Civil Design

Technology and Ability

Multi-File Format Integration

Efficiently integrate various file formats for streamlined project workflows.

Point Cloud Data Visualisation

Utilise web-based visualisation tools for precise project mapping.

Tekla Integration

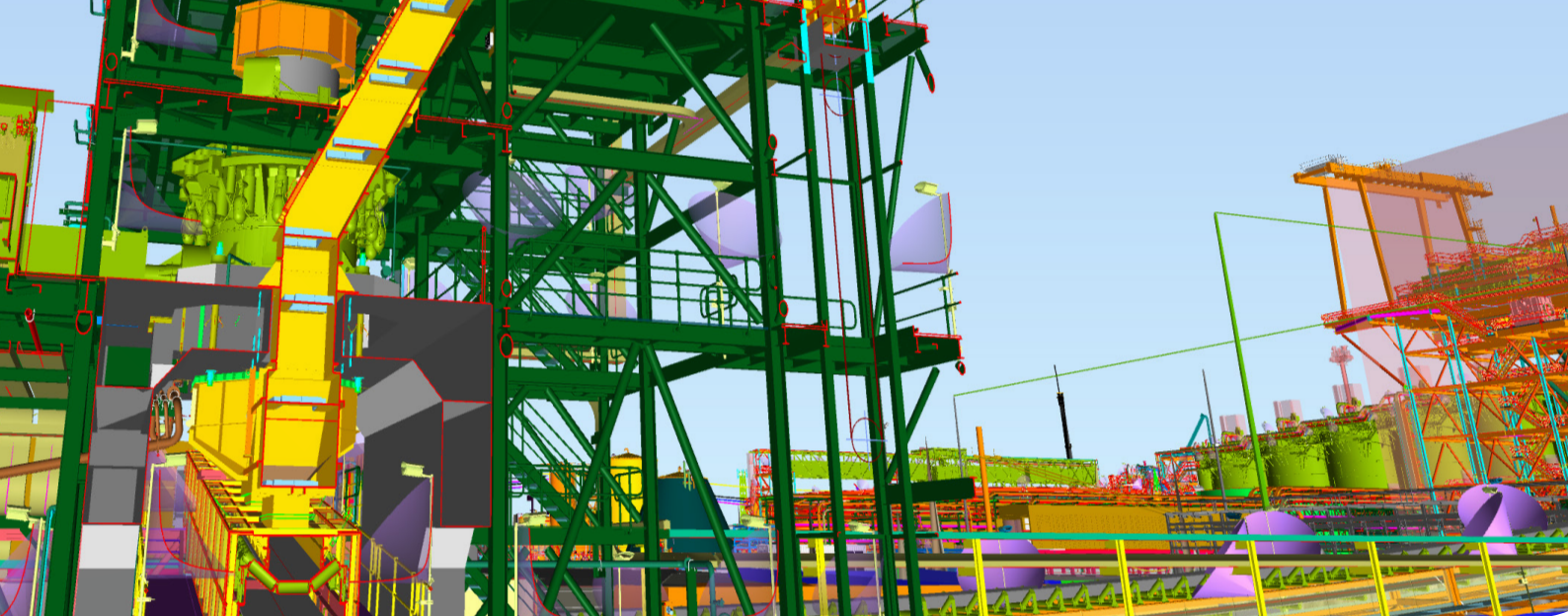
Ensure seamless engineering to shop detailing integration using Tekla.

Cloud-Based Systems

Employ cloud-based CAD systems for enhanced collaboration and data management.

Location and Global Centre of Capabilities

With a global reach and local expertise, Delonix Solutions is positioned to deliver top-tier design and drafting services from our headquarters in East Perth to clients worldwide.



Design Management System

At Delonix Solutions, our Design Management System is at the core of our operations, ensuring that all projects are executed with precision, efficiency, and transparency. Our system integrates cutting-edge technology and best practices to deliver exceptional results, aligning with our clients' specific needs and project goals.

Comprehensive Project Oversight

Our Design Management System utilises the Vantage Point platform, which offers full visibility on project deliverables and activity levels. Key features include:

Project Office Mobilization or Remote Location:

Flexibility to manage projects either from a dedicated project office or remotely, ensuring continuous progress and communication.

Timesheet Control: Detailed timesheet management to track labour and resource allocation, ensuring accountability and efficiency.

Weekly Updates: Regular updates provide stakeholders with insights into project progress, milestones, and any potential issues, enabling proactive management and timely decision-making.

Multi-CAD System Integration

We employ a multi-CAD system approach, leveraging the strengths of various CAD platforms to meet the diverse needs of our clients. Our capabilities include:

Bentley Systems: For comprehensive infrastructure design and project delivery.

AutoCAD: Widely used for its versatility in 2D and 3D design applications.

Tekla: Specialised in structural engineering and construction detailing, ensuring accurate and detailed fabrication drawings.

Client-Specific CAD Procedures

Our team is proficient in adopting and integrating client-specific CAD procedures and numbering systems. We welcome designers and drafters with expertise in different CAD systems, ensuring that we can:

Adapt to Client Preferences: Use the systems and formats that our clients prefer, ensuring a seamless and customised project experience.

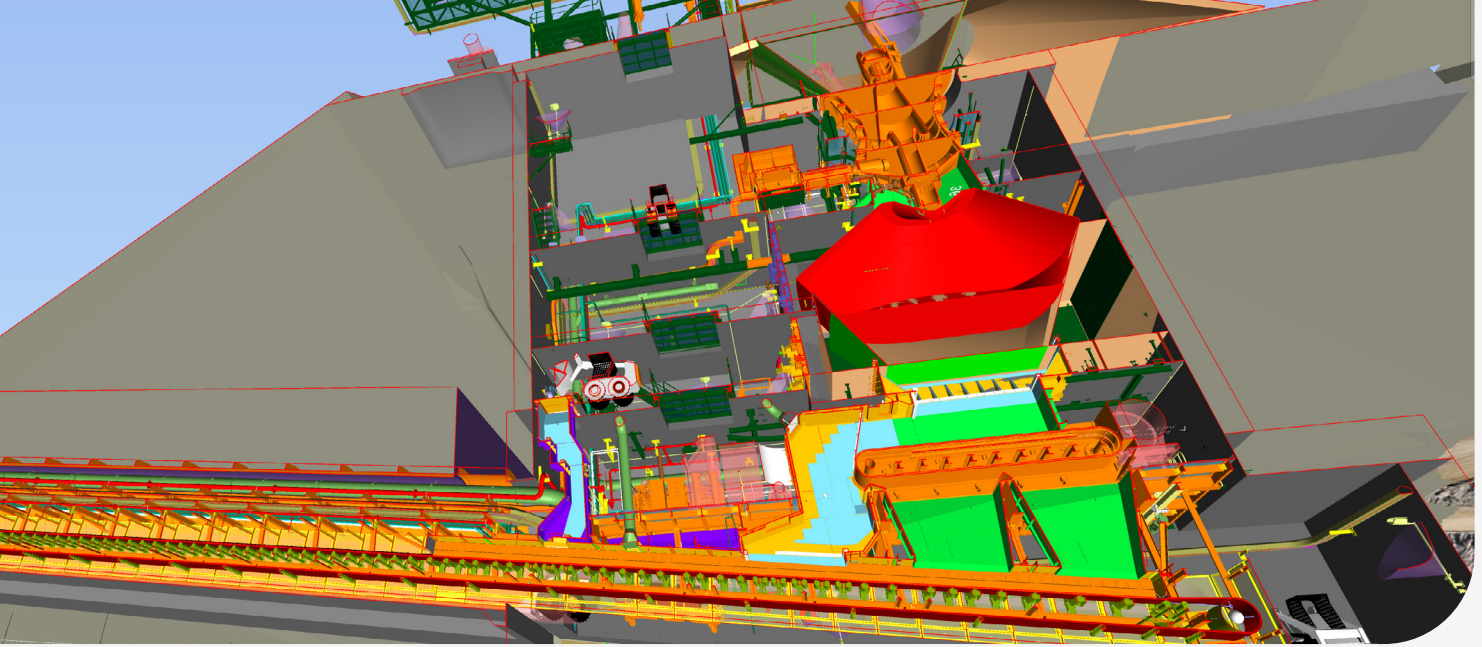
Utilise Multiple Systems in a Single Project: Employ different CAD systems within the same project, enhancing flexibility and precision.

Focused Communication and Collaboration

Effective communication with clients and stakeholders is paramount in our procedures. We ensure that all parties are kept informed throughout the project lifecycle, facilitating collaboration and ensuring that project goals are met.

Robust Quality Control

Our Design Management System includes rigorous quality control measures to ensure that all designs and drawings meet the highest standards of accuracy and detail. Regular design reviews and safety assessments are integral to our process, ensuring compliance with relevant acts, regulations, and standards.



Design, Drafting, and Shop Detailing Project Experience

Northern Star - KCGM Project

At KCGM, Delonix Solutions provided detailed design and fabrication packages for various aspects of the gold mining operation. Our services included the creation of comprehensive engineering drawings, ensuring the precise and efficient construction of infrastructure and processing facilities. Our involvement in this project highlights our capability to handle complex and large-scale mining projects, delivering results that meet stringent industry standards.

Lucky Bay Garnet Project

For the Australian Garnet project, Delonix Solutions delivered advanced design services aimed at improving process efficiencies. Our team developed detailed design plans and shop detailing drawings for the processing plant, focusing on enhancing operational efficiency and productivity. The successful execution of this project demonstrates our ability to deliver high-quality design solutions in the mineral processing sector.

Lynas Corporation - Kalgorlie Rare Earth Plane Project

Delonix Solutions provided specialised design and shop detailing services for Lynas Corporation, focusing on structural and mechanical systems. Our expertise in utilising advanced CAD systems like Tekla and AutoCAD enabled us to create detailed and accurate shop drawings, facilitating the seamless fabrication and installation of critical components. This project showcases our proficiency in handling complex design challenges and delivering precise detailing work.

MRL - Onslow Project

In the Onslow project, we developed comprehensive shop drawings and fabrication packages for various industrial facilities. Our team's attention to detail and commitment to quality ensured that all designs were executed flawlessly, contributing to the successful completion of the project. This project underscores our ability to provide reliable and detailed design services across different industrial sectors.

FMQ - Kansanshi Project

Delonix Solutions played a key role in the Kansanshi Copper-Gold Mine project, providing detailed designs for workshop extensions and new facilities. Our scope included the design of welding workshops, HV workshops, auxiliary washbays, and office and warehouse spaces. Our ability to deliver tailored design solutions that meet specific client needs is exemplified by our work on this project, highlighting our versatility and expertise in the mining sector.

Metallurgical Testwork Process Engineering

Process Engineering Consultants: We Determine A Cost-Effective Solution.

Delonix Solutions offers expert metallurgical test work and Process Engineering services to optimise processing solutions for your mining projects. Our team of recognised specialists provides early insights into project potential by analysing metallurgy and ore characteristics.

Key Services

Metallurgical Test Planning

We develop, budget, and schedule comprehensive test plans tailored to your project's needs, including sampling requirements.

Management and Coordination

We manage and coordinate test programs with laboratories, interpret results, and deliver detailed metallurgical summary reports.

Process Engineering Expertise

Our experienced team simplifies the development of practical and cost-effective process flow sheets to maximise project yield.

Commodities Expertise

- Iron Ore
- Manganese
- Mineral Sands
- Rare Earths
- Lithium, Nickel and other battery metals
- Gold and other precious and base metals

Proven Capabilities

- Development of test work programs
- Coordination and management of metallurgical test work
- Evaluation and validation of test work results
- Conceptual flow sheet development for processing optimisation

Pilbara Minerals - Pilgangoora Lithium Project P68o Expansion

Project Capital Value: AU\$ 500 millions

Delonix Solutions provided engineering design for the following areas of the project:

- Overall Plant Site
- Mill Building
- Ancillary Crushing Plant
- Pipeline Design
- Mine Services Area including multiple vehicle Workshops, Fuel and lubrication facility, washdown areas



Process Plants

Process Plant Design and Optimisation

Delonix Solutions offers extensive expertise in designing and optimising Process Plants across various commodities and mineral types. Our specialists excel in developing robust solutions, from straightforward crushing and screening circuits to complex processing plants requiring beneficiation through methods such as gravity separation, flotation, magnetism, or leaching.

Commodities Expertise

- Iron ore (scrubbing, jigging, cyclones, classifiers, spirals)
- Manganese (dense media separation)
- Mineral Sands (heavy minerals separation)
- Nickel (grinding, flotation, thickening, filtration, High Pressure Acid Leach, Solvent Extraction, Electrowinning)
- Copper (flotation)
- Rare earth metals (hydromet)
- Diamonds (grinding, dense media separation)
- Coal (wash plant)
- Gold (grinding, CIL, heap leach, gravity circuit, BIOX, Pressure Oxidation)
- Other precious and base metals

Process Flow Diagram Development

We specialise in creating robust Process Flow Diagrams crucial for effective mining project development.

Metallurgical Test work Expertise

Our team conducts thorough Metallurgical Test work to determine ore performance metrics such as product grade, recovery rates, and optimal process equipment sizing.

At Delonix Solutions, we ensure your Process Plants are designed and optimised to maximise efficiency and profitability across diverse mining operations.

Materials Handling Solutions

Delonix Solutions specialises in providing comprehensive materials handling solutions crucial for iron ore, coal, and bauxite mining operations. Our multidisciplinary team covers mechanical, structural, electrical, piping, instrumentation, and process disciplines to deliver efficient designs from mine to port.

End-to-End Supply Chain Expertise

We integrate processing, handling, storage, and transportation insights to ensure functional and efficient designs tailored to your materials handling processes.

Materials Handling Solutions

- Truck dump receipt
- Rail car dumpers
- Conveyors and feeders
- Hoppers, transfer stations, and sample stations
- Ship loading
- Logistics (road, rail, and slurry pipelines)

Capabilities

- Design and specification assessment for port infrastructure from conceptual to detailed levels.
- Inspection and reporting on existing port facilities.
- Preparation of service delivery standards reports.
- Recommendations for port improvements, including sidings and bulk commodity loading facilities.
- Support for study reports, approvals, and regulatory requirements.
- Assessment of operational service standards and new facilities investment.

Mechanical Engineering

Mechanical Engineering Expertise

Delonix Solutions specialises in advanced mechanical engineering and material handling services tailored for the Resource and Heavy Industry sectors. Our experienced team provides comprehensive solutions from conceptual design through to construction supervision, focusing on cost-effective and sustainable solutions.

Key Services and Capabilities

- **Mechanical Systems Design:** We design a wide range of equipment including crushers, conveyors, feeders, mills, tanks, flotation cells, pressure vessels, heat exchangers, pumps, compressors, fans, turbines, and more.
- **Engineering Expertise:** Our team utilises state-of-the-art technology and industry best practices to ensure designs surpass regulatory standards.
- **Advanced Analysis:** Services include Discrete Element Modelling (DEM), Finite Element Analysis (FEA), fatigue analysis, and vibration analysis using ANSYS software to ensure efficiency, safety, and reliability.
- **Customised Solutions:** We collaborate closely with clients to deliver tailored designs that meet project-specific requirements and provide value-added solutions.

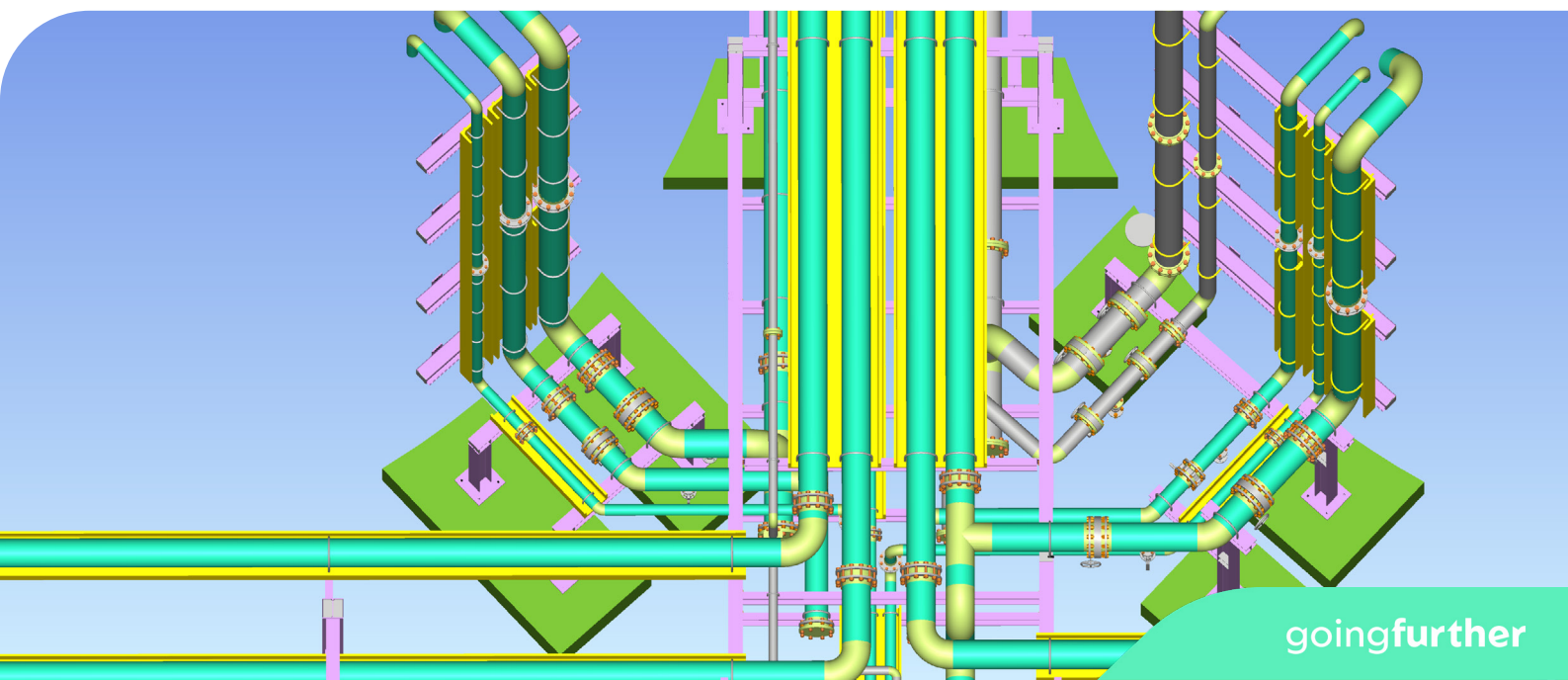
Piping Engineering

Piping Design Expertise

Delonix Solutions specialises in providing expert piping design services tailored for the resource and heavy industry sectors. Our experienced team delivers innovative and cost-effective solutions from conceptual design to construction supervision, using cutting-edge software and analysis tools to ensure efficiency, safety, and reliability.

Key Services and Capabilities

- **Comprehensive Piping Design:** We offer conceptual and detailed engineering design, construction documentation, and supervision, ensuring designs meet specific client needs.
- **Application Expertise:** Our expertise covers piping systems for process plants, storage facilities, pipelines, and more, utilising industry-standard software for Pipe flow and Pipe Stress Analysis.
- **Specialised Support:** Services include piping stress analysis, hydraulic calculations, pipe supports, and equipment nozzle loads, with experience in designing metal, plastic, fiberglass, and lined piping systems.
- **Client-Centric Approach:** We collaborate closely with clients to ensure designs align with their unique project requirements, emphasising exceptional results and fostering strong client relationships.



Structural Engineering

Structural Engineers to the Resource and Industrial Infrastructure Sectors

Delonix Solutions is a trusted provider of innovative structural engineering solutions tailored to meet your specific needs. We take pride in our team of experts who bring extensive expertise in optimising structural designs to minimise construction costs and maximise operability. As leaders in advancing construction techniques, we specialise in delivering high-quality solutions for process plants, industrial buildings, and large-scale infrastructure projects.

Key Services and Capabilities

Our structural engineers possess decades of experience across a diverse range of capabilities.

- **Mine and Process Plants:** Designing robust structures that support efficient mining and processing operations.
- **Ports and Loadout Facilities:** Engineering solutions for safe and efficient handling of bulk materials and goods.
- **Industrial Facilities:** Designing structures that enhance operational efficiency and safety in industrial settings.

Advanced Design Tools

To ensure the efficiency, safety, and reliability of our designs, we employ state-of-the-art software and analysis tools such as ANSYS for finite element analysis and discrete element modelling. This enables us to simulate and optimise structural performance under various conditions, delivering resilient and cost-effective solutions.

Customised Solutions

We understand that every project is unique. Our team collaborates closely with clients to develop tailored solutions that align with specific project requirements and goals. From initial concept through to detailed design and construction supervision, we prioritise client satisfaction and project success.

Whether enhancing existing infrastructure or developing new facilities, you can rely on Delonix Solutions for expertise, reliability, and unmatched dedication to your project's success.





Civil Engineering

Civil Engineering Consultants With Experience in Remote Areas

Delonix Solutions offers a comprehensive range of multidisciplinary Civil Engineering Services, leveraging diverse skills and extensive experience to deliver cutting-edge engineering solutions for complex challenges.

- Earthworks design
- Construction management
- Pavement design
- Hydrological & hydraulic modelling
- On-site detention design
- Road design
- Erosion & sedimentation control
- Flood modelling
- Hydraulic structures design

Delonix Solutions combines innovative engineering practices with environmental stewardship to deliver exceptional outcomes for diverse civil engineering challenges.

Industrial Infrastructure & Buildings

Industrial Infrastructure Design and Construction Management

Delonix Solutions offers end-to-end management of industrial infrastructure projects, from strategic planning and feasibility studies to detailed design, construction management, commissioning, and handover. Our team includes key personnel with extensive experience in major mine and industrial projects across Australia and internationally. This expertise enables us to deliver solutions that optimize capital costs and enhance ongoing operational efficiency and maintenance.

Industrial Infrastructure Expertise

Our experience spans a wide range of projects including construction camps, bore fields, communication systems, roads, earthworks, concrete and steel structures, airstrips, offices, workshops, warehouses, ammonium nitrate facilities, fuel storage, security installations, and more.

Project Management

We excel in project execution strategy, scope management, budget control, schedule management, and effective contracting and procurement strategies.

First Quantum Minerals

Kansanshi Copper Gold Mine

Delonix Solutions provided engineering design for the following areas:

- Welding workshop extension
- New HV workshop
- Auxiliary washbay
- Additional manual washbay
- HV workshop office & warehouse



DEM Analysis & Advanced FEA

Discrete Element Method (DEM)

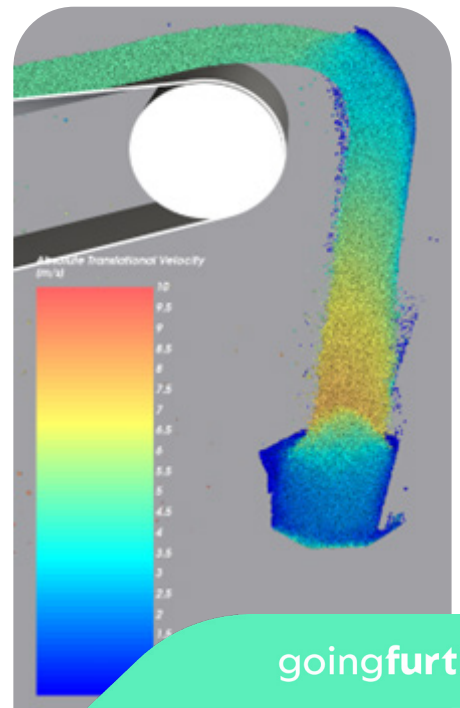
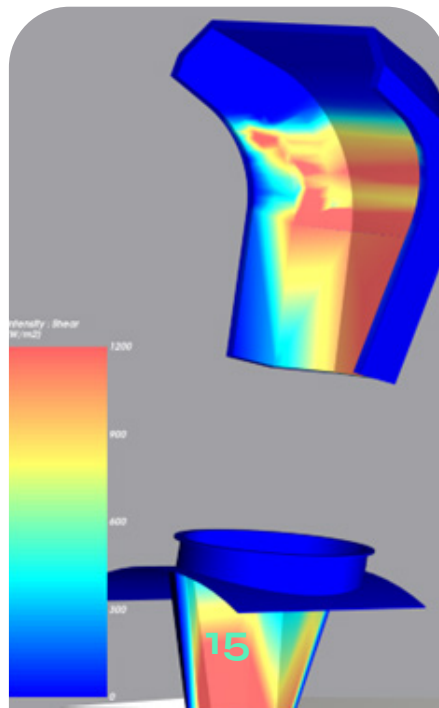
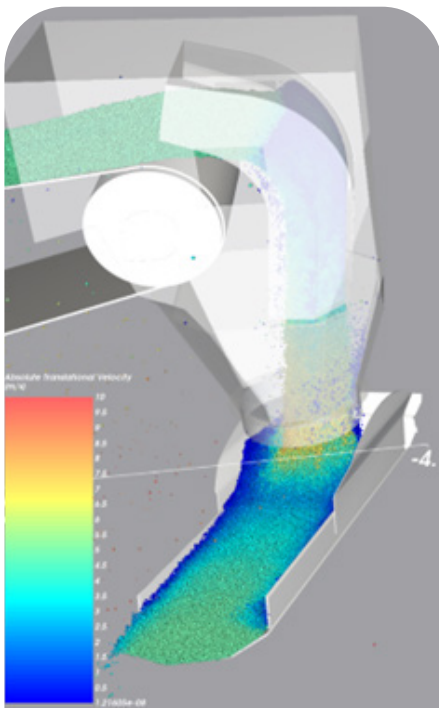
Delonix Solutions specialises in employing Discrete Element Method (DEM) simulations to enhance operational validation and optimise equipment for bulk material handling. Our expertise includes:

- **Geometry and Configuration Optimisation:** We optimise equipment geometry and configuration to enhance the flow, handling, and storage of bulk materials.
- **Fluid-Solid Interaction Simulations:** Coupling DEM with Ansys Mechanical and/or Ansys Fluent, we analyse how fluids interact with granular solids on mechanical equipment.
- **Equipment Wear Life Prediction:** Predicting long-term equipment wear from bulk materials helps in proactive maintenance planning and optimising equipment longevity and performance.
- **Cost-Effective Concept Development:** Using DEM simulations as a cost-effective alternative to physical prototyping, we simulate various scenarios to analyse material flow characteristics and develop efficient solutions.
- **Granular Material Movement Simulation:** Accurately modelling granular material movement helps us analyse interactions with equipment like transfer chutes and ship loaders.
- **On-Site Reproduction and Quantification:** Conducting DEM simulations on-site replicates and quantifies existing materials handling setups.

Finite Element Analysis (FEA)

Finite Element Analysis (FEA) services to optimise structural integrity and performance:

- **Structural Optimisation:** Quantifying optimal designs to enhance structural strength and efficiency using FEA simulations. Early-stage analysis ensures structures meet rigorous performance criteria.
- **Dynamic Analysis:** Performing dynamic simulations to evaluate structural response under varying loads and conditions, ensuring resilience and safety in complex environments.
- **Thermal Analysis:** Utilising FEA to analyse thermal distribution and effects within structures, optimising heat management and operational efficiency.
- **Fatigue Analysis:** Predicting potential fatigue failures in components and structures subjected to cyclic loading, aiding in maintenance planning and durability enhancement.
- **Material Characterisation:** Simulating material behaviours under different conditions to inform material selection and improve performance in diverse applications.
- **Concept Validation:** Using FEA as a cost-effective tool to validate design concepts, simulate scenarios, and refine solutions before physical prototyping, saving time and resources.



Electrical Controls & Buildings

Comprehensive Electrical Controls and Instrumentation Engineering

Delonix Solutions offers end-to-end electrical controls and Instrumentation engineering services, covering everything from initial study phases through to detailed design and commissioning.

Our capabilities include:

- Design of HV/LV systems and electrical substations.
- Power generation, transmission, and distribution solutions.
- Development of switchboards, motor control centres, and lighting/power systems.
- Comprehensive power system studies including load flow, short circuit, and harmonic analysis.
- Expertise in power factor correction, earthing, and lightning protection design.
- Integration and programming for PLC, HMI, DCS, SIS, and RTUs.
- Specialised programming for high availability safety systems, flow metering, and monitoring.
- Implementation of advanced process control systems and high-speed applications.
- Creation of detailed technical documentation such as software philosophies, functional specifications, and training materials.
- Conducting acceptance testing and validation to ensure system reliability and performance.

Delonix Solutions Automations

Delonix Solutions excels as a premier provider of versatile automation solutions tailored to diverse production needs:

Automation Expertise

We specialise in automated product handling, batching, packaging, palletising, and industrial safety applications. Our capabilities extend to production line relocation, covering materials like powders, cereals, plastics, sugar, and dried fruit.

Key Services

- Loose cereal blending and batching
- Packaging and palletising systems
- Industrial robot applications
- Vacuum conveying systems integration, including Piab Vacuum Conveying Systems
- System partnership with Kuka Industrial Robots

Partnership Approach

With extensive systems integration experience, we collaborate closely with clients and stakeholders, integrating preferred equipment seamlessly into automation projects.

Applications

Our expertise in materials handling and vacuum conveying supports automated batching and blending applications across a wide range of products and throughput rates.

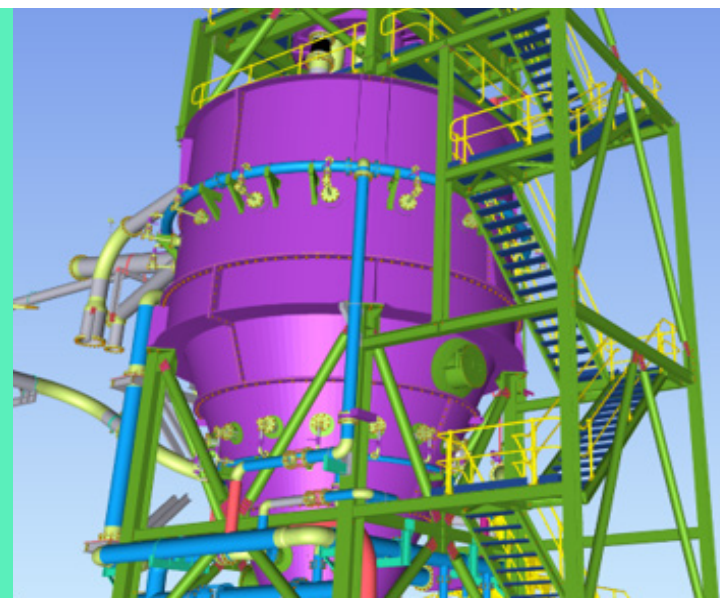
Delonix Solutions is committed to delivering cutting-edge automation solutions that enhance operational efficiency, safety, and reliability across various industrial sectors.

CSI

Australian Garnet Project

Delonix Solutions provided engineering design for the following areas:

- Process improvements
- Detailed design and fabrication packages



3D Scanning & Surveying

Precision 3D Scanning

At Delonix Solutions, we are pioneers in delivering cutting-edge engineering and technological solutions to the resources, rail, and infrastructure sectors.

With a relentless focus on innovation and efficiency, we leverage advanced tools and methodologies to drive project success and operational excellence for our clients.

Our expertise spans a broad spectrum of services, from precision 3D scanning and aerial surveying to comprehensive data handling and advanced reality capture.

We are committed to empowering industry leaders to achieve their business objectives with state-of-the-art technologies and a highly experienced team.

Aerial Scanning

Our aerial 3D scanning capabilities provide accurate mapping and surveying of large sites.

Advanced Reality Capture

We create digital twins of physical objects and infrastructures, enhancing visualisation, modelling, and real-time access to plant conditions. This technology improves mine planning, design, predictive maintenance, troubleshooting, and safety management.

Comprehensive Data Handling

Our scans produce dense 'point cloud' data, which requires robust IT infrastructure. Our RealClouds Global™ platform offers cloud hosting, enabling clients to easily access, visualize, and interact with point cloud data.

Experienced Team

With a team of approximately 65 experts, we specialise in innovative CAD engineering and provide high-quality surveying and mapping outputs.

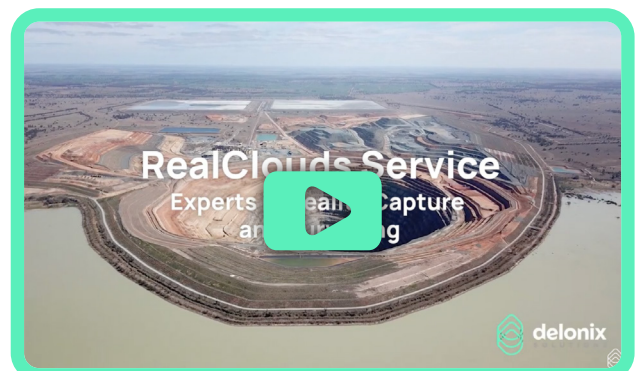
Committed Technology Partner

Delonix Solutions is dedicated to the digital transformation of the resources and heavy industry sectors. We empower clients like Pilbara Minerals, Northern Star Resources, Lynas Corporation, First Quantum Minerals, BHP, and CBH to operate more efficiently, safely, and sustainably.



RealClouds Global™

Our proprietary platform facilitates dynamic interaction with 3D models, allowing for the addition of notes, photos, and other elements, making it a powerful tool for remote project management and collaboration.



delonixsolutions.com/realclouds-global



Safety in Design

At Delonix Solutions, Safety in Design is paramount in our commitment to delivering projects with utmost safety across their lifecycle. Our approach ensures designs are safe to construct, operate, and maintain, adhering rigorously to relevant acts, regulations, and standards.

Integrated Safety Culture

Our design teams embed a prevention through design ethos into daily processes. This proactive approach ensures safety considerations are integral from conception to completion.

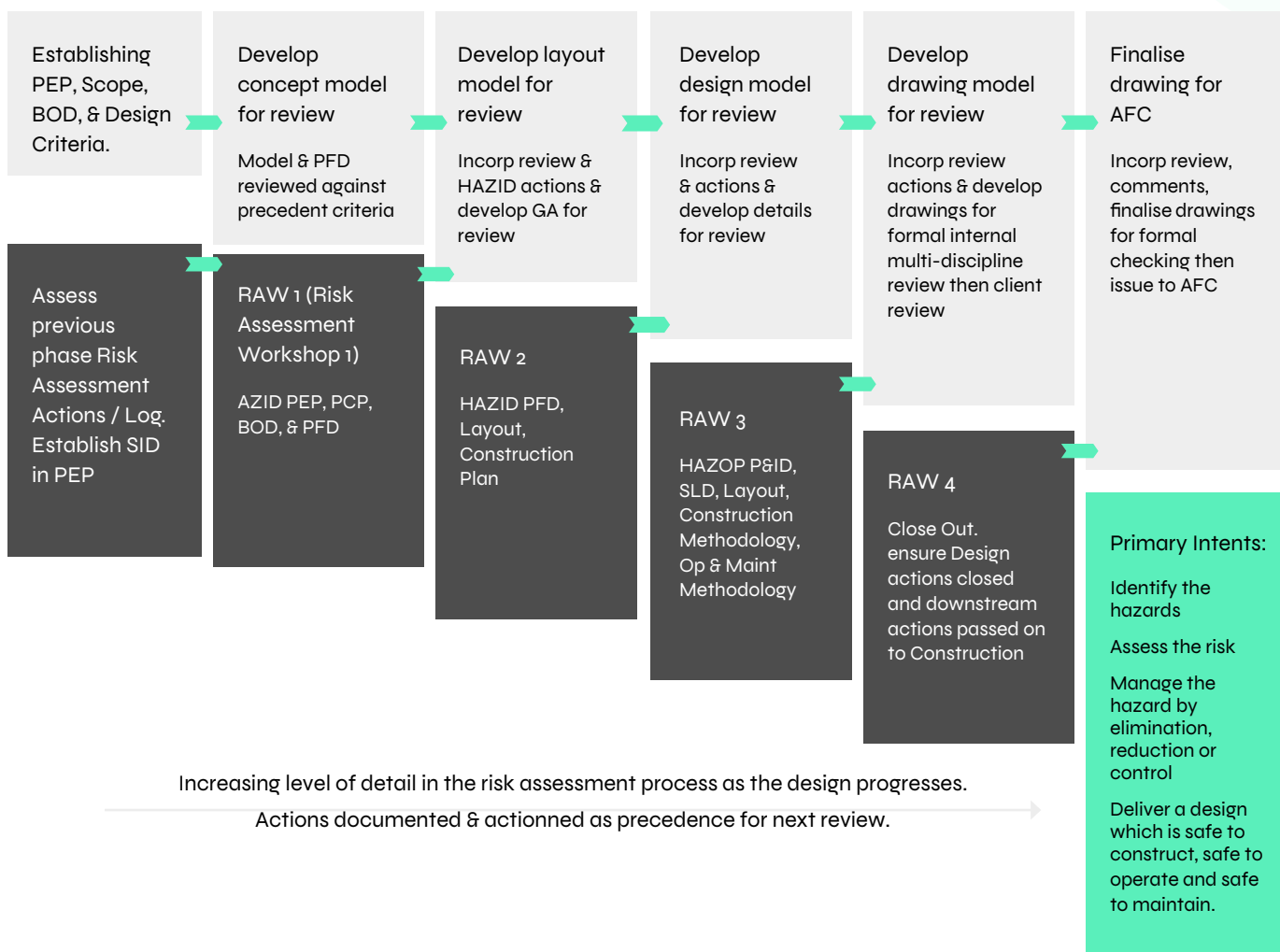
Formal Review Processes

We conduct periodic Safety in Design reviews with combined project teams to identify and mitigate risks comprehensively. These reviews evaluate designs against the Basis of Design, enhancing processes related to procurement, fabrication, transport, construction, operation, and maintenance.

Enhanced Efficiency and Reliability











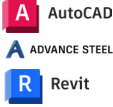






Prioritising Safety in Design not only safeguards personnel and stakeholders but also boosts project efficiency, reliability, and sustainability.

DELONIX DESIGN / SID METHODOLOGY



Delonix Solutions Softwares

Delonix Solutions use a range of software to assist design, as shown below:

12D Model, Civil 3D Civil Design		FLOWEX, Autopipe Pipe Flow Design		Open Plant Piping Design	
Ansys FLUENT† Computational Fluid Dynamics (CFD)		Helix and Sidewinder Conveyor Design		ROADflow Drainage Design	
Ansys Workbench Finite Element Modelling (FEA)		Leica Cyclone Point Cloud Registration		SOLIDWORKS, SPACECLAIM and Inventor Mechanical Design	
Ansys ROCKY Discrete Element Modelling (DEM)		Leica Infinity Surveying Software		SpaceGASS, ANSYS Workbench Structural Engineering	
AutoCAD, ADVANCE STEEL and Revit Concrete, SMP Design		MS Share Point, MS Office Project Management		Tekla Structures Concrete, SMP Design and Fabrication Drawing	
Beltstat		Navisworks 3D Model Sharing Too		TUFLOW Civil Design	
Delttek Vantagepoint, Delttek PIM, Delttek FIMS Project Management					

Steelwork / Chute And Launder Design And Detailing

Delonix Solutions employs Tekla, an advanced shop detailing package, to execute design and shop detail modelling. We generate shop detail drawings, associated lists, and dxf/nwc files, enabling us to deliver progressive shop details to fabricators for early site delivery.

Raceways / Cable Management Design And Detailing

Delonix Solutions utilises Tekla, a sophisticated design package, for modelling and generating the cable tray schedule and associated reports. This approach facilitates the incremental release of tray and cable requirements to suppliers, ensuring timely delivery to site.



delonix
SOLUTIONS

Head Office, Perth, WA

Level 1- 45 Royal Street, East Perth 6004

P +61 (0)8 6460 0300

E info@delonixsolutions.com

delonixsolutions.com



in Let's Connect



goingfurther

