

INTELLECT
SYSTEMS



Capability Statement



Intelligent Solutions™

The background image shows a large industrial crane with a complex lattice structure and multiple long jibs, positioned at a mining or construction site. The crane is set against a clear blue sky. In the foreground, there is a wide, reddish-brown dirt road with visible tire tracks, leading towards the crane. The overall scene is brightly lit, suggesting a sunny day.

We are a specialist provider
of end-to-end industrial
technology solutions in Control
Systems and Automation,
Electrical, Industrial IT and
Communications.

A company built on reputation.

Core values, personal support and a proven systematic approach underpin every project solution.

The Intellect Systems logo is a stylized 'IS' composed of several overlapping geometric shapes in shades of blue and green. To the left of the logo, the words 'INTELLECT' and 'SYSTEMS' are displayed in large, 3D, metallic-looking block letters. The background of this section is a dark blue gradient with horizontal light blue stripes at the top and bottom.

INTELLECT SYSTEMS

Intellect Systems is a Western Australian company founded in 2005 and since 2011 a member of the Resource Development Group of companies. Our knowledgeable and pragmatic team have provided comprehensive and intelligent solutions in the industrial technology sphere for some of the largest projects in Australia.

At Intellect Systems we are passionate about our work and driven by the challenge of providing creative, innovative and sustainable solutions through a variety of industries and conditions. Our objective is to not only deliver a successful project within budget, schedule and safety constraints but to also identify and execute strategies that enhance wider project economics. Thinking outside of the box and value adding through innovation and real world operational experience is what we do best.

Since inception our core values of trust, agility, quality and innovation have acted as the cornerstone of our development and form the principals of our operation to date. When our clients engage Intellect Systems they are not only guaranteed that they will receive unbiased advice, personal support and a quality product but will be left with a sense of collaboration. A large component of our success is a result of our ability to create sustaining relationships, this is why so many of our clients continue to engage us long after our initial scope is completed.

We drive our project delivery process through the combination of efficient engineering solutions, proven repeatable processes and emerging technologies. Our insight into a range of industrial environments and specialist skill-sets across diverse technology platforms translates to genuine process gains and improved operational efficiency for our clients.



Intellect Systems is a member company of the Resource Development Group (RDG), an ASX listed company incorporated to build a leading integrated resource and mining services business.

RDG presently consists of Intellect Systems, Ecologia Environment, Engenium and Pacer Corporation. The individual strengths and expertise of the member companies provide services across different phases of the project development life cycle in the resource, mining and infrastructure sectors both domestically and internationally.

RDG continues to develop and operate businesses both upstream and downstream of their current service offering with expertise provided by the member companies, this will allow RDG to continue its development as a vertically integrated services business.

RDG also offers clients the combined capability of its subsidiary companies to fast track their projects into production.



Resource
Development
Group

What we do.

Comprehensive capabilities and resources scalable to suit any project life cycle.

Our vertical structure of service provision is focused around our specialist capabilities in the area of Control Systems and Automation, Electrical, Industrial IT and Communications. These capabilities together with our systematic processes and methods for project delivery ensure we provide seamless integration of our services over the complete project life cycle offering.

Engineering Design

Intellect Systems provide leading engineering solutions that deliver real world results by integrating proven process with innovative technology and design, for efficient and effective implementation and positive return on investment.

Control Systems and Automation

- › PLC and HMI Programming and Integration (Allen Bradley, Schneider, GE, Siemens, Miri.)
- › DCS Programming and Integration (Yokogawa, Emerson and Honeywell)
- › SIS Programming and Integration (ICS Triplex, HIMA, Yokogawa, Emerson, Honeywell)
- › RTU Programming and Integration (Miri, Bristol Babcock, Koyo)
- › Flow Metering and Monitoring (AGA) Programming and Integration
- › High Availability Safety Systems Programming and Integration
- › Advanced Process Control and Tuning
- › Robotics, Motion Control Systems and High Speed Applications
- › Technical Documentation (Software Philosophies, Functional Specifications, Acceptance Testing Procedures, Work Instructions, Training documents)
- › Acceptance Testing and Validation
- › Control Systems Execution Management
- › Remote Operations

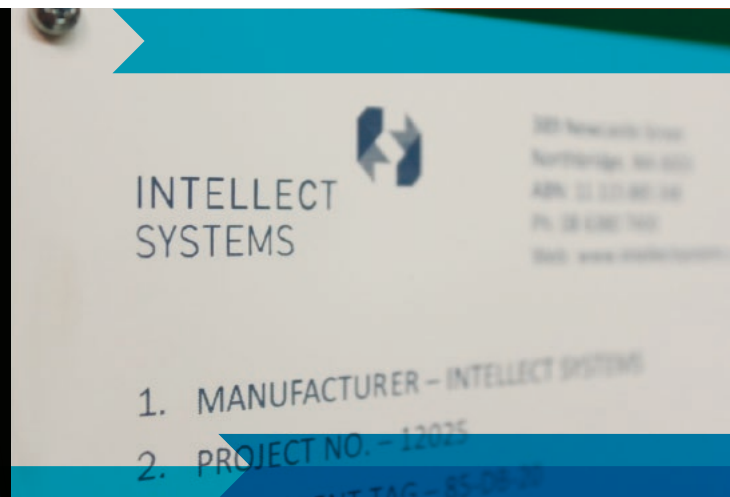
Electrical and Power

- › Electrical Design and Drafting (Block Diagrams, Schematics, General Arrangements, IO and Software Lists, Terminations, Loop Diagrams and Single Line Drawings)
- › Instrument and Equipment Lists and Datasheets
- › Lighting and Power Design (HV to LV)
- › Power System Studies (Load Flow, Short Circuit, Harmonic Analysis, Motor Starting, Transient Stability Analysis, Protection Study, Fault Analysis, Arc Flash)
- › Power Factor Correction
- › Earthing and Lightning Protection Design
- › Hazardous Area Design and Classification
- › HAZOP, CHAZOP and Safety Audits

Industrial Information Technology and Communications

- › Rail and Signalling Systems
- › CCTV and Security Systems
- › VOIP and Telephony Systems
- › WAN and LAN Design
- › Radio Network Design
- › Fibre Optic Network Design
- › Redundancy and Fault Tolerant System Design
- › Manufacturing Execution Systems and Historians
- › Communications System Modelling
- › Control and Field Networking (Profibus, DeviceNet, ControlNet, Modbus)
- › Ethernet Design and Networking (Modbus TCP, ProfiNet, Ethernet IP, DNP3.0)





Manufacturing and Validation

The success of a truly integrated end-to-end solution is having the people that design the system implement the system. The close collaboration of our engineering and in-house manufacturing, incorporated with our proven project delivery and quality procedures, ensures a fluid and swift transition from design to site delivery with less rework.

Staging and Testing

- › Simulation and Modelling
- › Software and Hardware Factory Acceptance Testing
- › Software Validation and Type Testing

Manufacturing and Fabrication

- › Hardware Resale
- › Motor Control Centres (VSD, DOLS, Soft Starters, Power Monitoring)
- › Control Systems and Electrical Panels
- › Remote Telemetry Unit Cubicles
- › Power Distribution and UPS Cubicles
- › Instrumentation Panels and Skids
- › Operator Interface Panels
- › Industrial Server Racks and Communication Cubicles
- › Testing and Training Devices

Optimisation and Site Services

With the continuous advancements of technology and processes it is vitally important that your investment is regularly maintained and refined to perform at optimum levels. Intellect Systems has optimisation and support teams on standby competent in a wide range of commissioning and operational support environments allowing us to provide fast response times to reduce unnecessary down time. We offer a range of services to integrate our own projects as well as providing standalone commissioning, completions, optimisation, and maintenance services to both greenfield and brownfield systems.

Asset Support and Maintenance

- › Technical Support Agreements with up to 24/7 Standby and 1 Hour Response Time
- › Electrical, Instrumentation and Control Systems Shutdowns
- › Provision of Control Systems and Electrical Maintenance Personnel
- › Monthly and Weekly Process Health Checks and Diagnostics
- › Preventative Maintenance Routine Development
- › Hardware and Spares Maintenance
- › Vendor and Sub-Contractor Management
- › Operational Support and Maintenance Engineers

Process Optimisation

- › Hardware and Process Audits
- › Process Integrity Reviews
- › Design Validations and Verification
- › Hazardous Area Verifications
- › Compliance Audits
- › Needs Analysis, Identification and Scoping
- › Design Verification

Commissioning and Completions

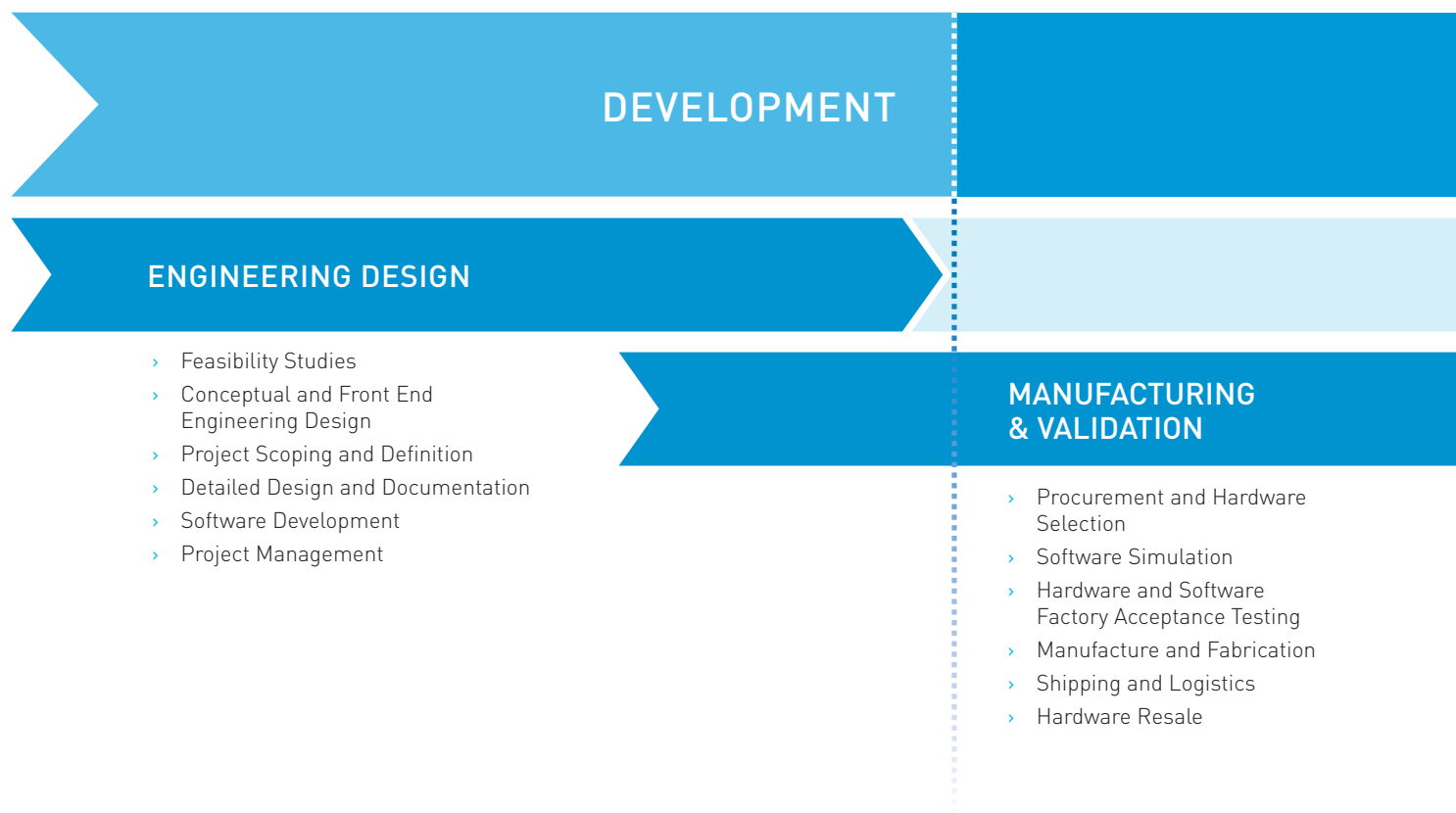
- › Site Acceptance Testing
- › Pre-Commissioning
- › Commissioning and Performance Testing
- › Commissioning Engineers, Electrical Technicians and Support Personnel
- › Punch Listing and Closeouts

Competency and Training

- › Customised Training Courses
- › Operations and Maintenance Manuals
- › Site Specific Operator and Maintenance Personnel Training

What makes us different.

We are a relationship and results driven company that can deliver specialist end-to-end industrial technology solutions to any project.

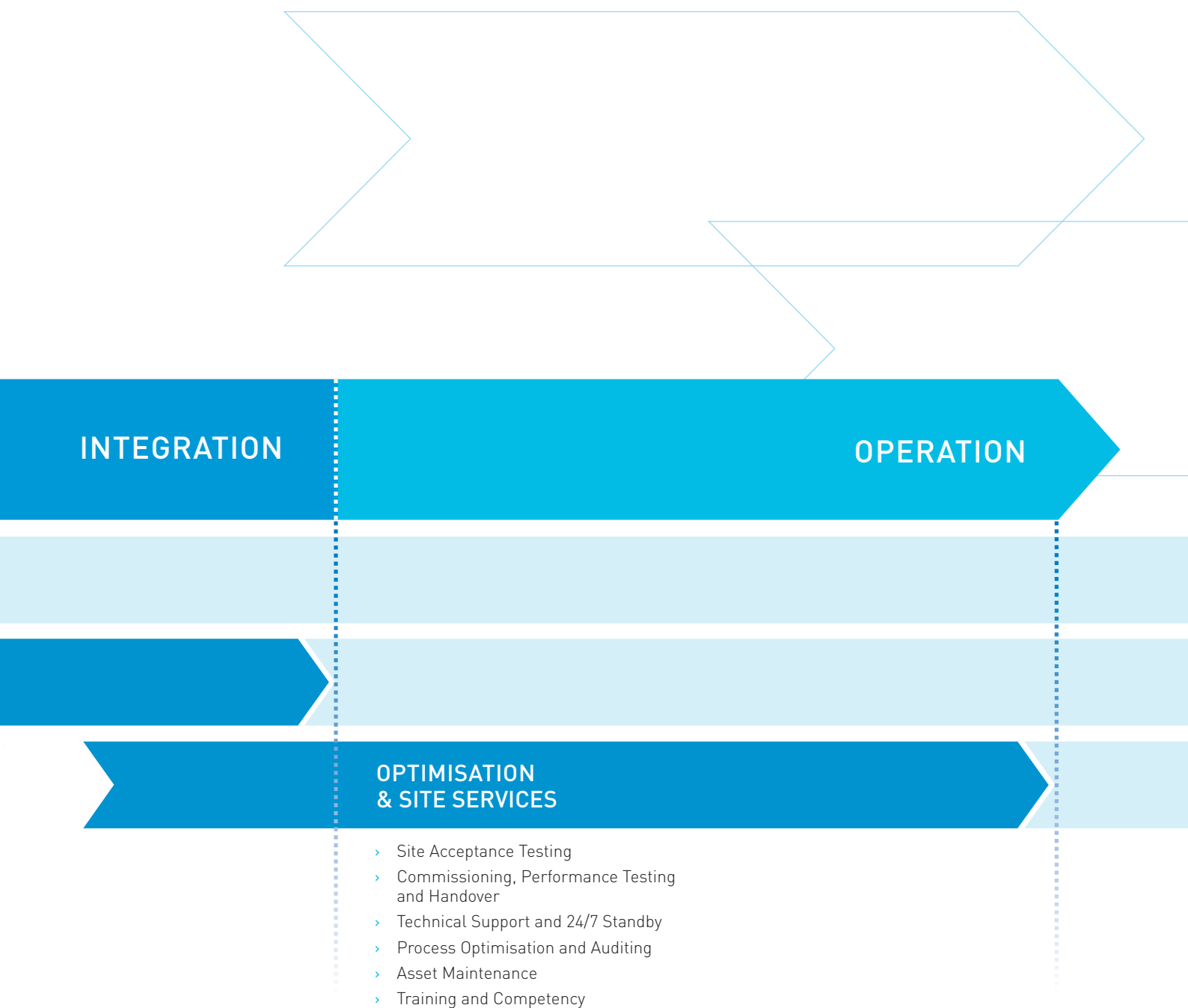


At Intellect Systems we understand project dynamics and that change is inevitable. No matter who our client, blue chip or small startups, we take ownership and work collaboratively to minimise the impact of change to ensure effective and efficient outcomes. Our lean and flexible approach allows us to adapt to transient environmental and project requirements, a characteristic that sets us apart from our competition.

We don't talk, we listen. The Intellect approach focuses on being receptive to our client's needs in an effort to accurately identify the fundamental drivers and formulate a strategic plan of attack.

We prefer to work face to face and engage our clients on all levels, we understand that a key to delivering a comprehensive and sustainable solution requires the input from not only corporate stakeholders but maintenance and operations personnel as well.

We are a specialist, not a generalist. The resource, industrial and manufacturing sectors are full of complex technologies and Intellect Systems have built a solid reputation as a specialist industrial technology solution provider offering robust and innovative solutions across a range of industries.



Intellect Systems boasts broad industry experience and have developed a diverse range of partnerships with manufacturers and vendors. This experience has allowed us to build a comprehensive in house knowledge base of proven systems and standards that we use to streamline our task execution, value that is then passed onto our clients.

Although we have our affiliations we are vendor neutral so we can offer our clients flexibility along with an unbiased opinion. Our close vendor ties also provide us with intimate and often exclusive access to industry know how as well as emerging technologies and innovative concepts.

What really makes us unique is our ability to execute and deliver end-to-end technology projects by providing a turnkey design and construction service to our clients under one roof. This means we offer a complete project delivery service from concept to design, manufacture and implementation and provide continuity by supporting our projects into operation and maintenance. Our clients see genuine value in the reduction of commercial and technical interfaces with the added benefit of fast tracking their projects into production.

When our clients engage Intellect Systems they are guaranteed efficient execution, progressive project delivery and seamless solution integration, this is what we strive to achieve, and is what the Intellect Systems vertical service model is designed to deliver.

Where we operate.

Proven real world operational experience adapted to your business and industry.

Each industry sector that we operate in has its own unique set of requirements and solutions, ranging from proven and established processes to technologically ground-breaking concepts. Intellect Systems' varied industry exposure along with comprehensive process and optimisation experience ensures we are uniquely positioned to provide valuable insights that have a direct and tangible impact on project economics and ROI.

We maintain a high level of proficiency in the following sectors.

- › **Materials Handling**

Conveying, along with specialised OEM and customised solutions for stacking, reclaiming, ship loading, car dumping, stockyard management and anti collision systems

- › **Mineral Processing**

Crushing, grinding, flotation, gravity and electro-winning circuits

- › **Oil and Gas**

Off-shore and on-shore oil and gas production and processing

- › **Utilities**

Water purification, wastewater filtration, desalination, batching, power generation along with specialised gas compression, transmission, metering and delivery packages

- › **Rail and Infrastructure**

Motorways, tunnel and bridge solutions along with rail communications and signalling

- › **Manufacturing**

Baking, bottling, plastics, composite fibres, refrigeration and glass manufacturing along with robotics and high speed applications

- › **Specialised Applications**

Condition monitoring, research and development and OEM application development





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