

Capability Statement



IIAT (Infrared Inspections and Technologies) provides Holistic Condition Monitoring, Reliability & Predictive Maintenance services to clients across Australia and Internationally delivering Increased asset and component life cycles for fixed and mobile equipment and machines in heavy industries.

We have a demonstrated track record of improving asset life from **20% to 50% greater than recommended OEM specifications.**





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1. Contact Details

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Year established	2014
ABN	21 602 071 607



2. Capability Information

Main Business Activities and Industries Served

IIAT is a holistic condition monitoring company, commencing operations in 2014 with a dedicated focus on improving asset and component life cycles for machinery owned and operated in major heavy industries.

IIAT has a data library of more than 500,000 images and greater than 1m data points. This has allowed us to develop and implement bespoke statistical based predictive maintenance programs for customers that clearly demonstrate tangible & measurable increases in component life from 20% to 50% greater than the OEM Recommended Specifications.

It is because of quantifiable benefits that have been achieved, IIAT continues to partner with many leading companies within Heavy Industries.

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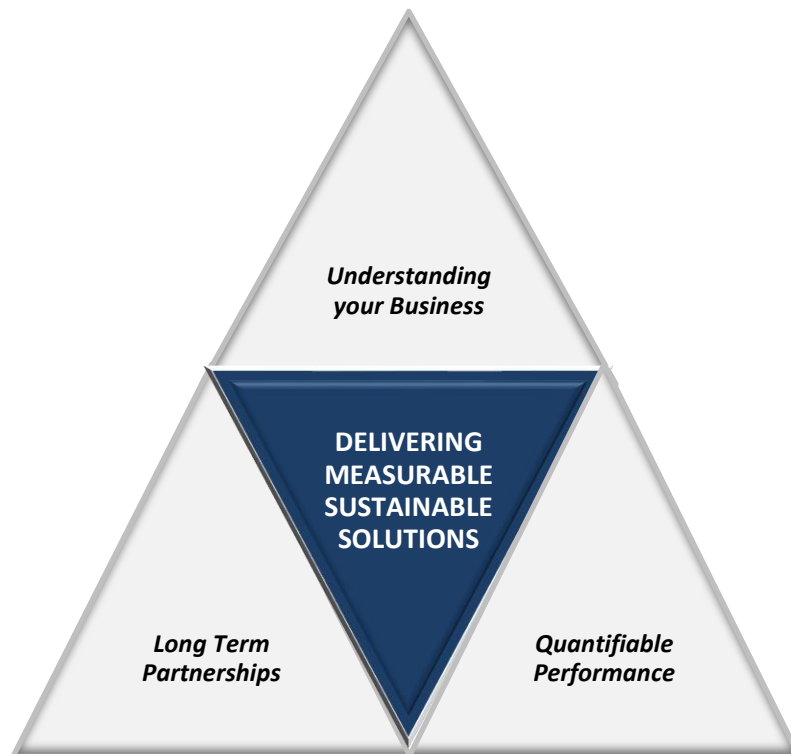




Company Values & What IIAT Stands For

Our Core Values of **ACCOUNTABILITY, RESPECT & TRANSPARENCY** drive us to be a business partner that is ALWAYS;

DELIVERING MEASURABLE SUSTAINABLE SOLUTIONS



Products and Services

- Remote Analytics and Reporting Services
- Remote Monitoring
- On-site Infrared Inspection Services:
 - Mechanical Surveys (Specializing in Heavy Mobile Equipment)
 - Electrical Surveys
 - Photovoltaic (Solar Panel) Inspections
- Infrared Training
- Reliability Consultancy Services



- Software Systems
- Underground Diesel Coal Mining Equipment Code D Inspections
- Vibration Analysis
- Airborne Structure Borne Ultrasound Analysis

Machinery Expertise

- Hydraulic Excavators and Face Shovels
- Bulldozers
- Wheel Loaders
- Haul Trucks
- Drills
- Draglines
- Electric Face Shovels
- Fixed Plant - open cut and underground.
- Steel Mills
- Power Generation & Refineries
- Food processing

100+ Years of Technical Expertise

The founder of IIAT, Jeff Erichsen, has worked as a heavy earthmoving equipment fitter in the mining, construction, and adjacent industries for over 25 years. He is a trained Category 3 qualified Thermographer, an AINDT Certified Category 2 Thermographer and is a qualified Category 1 Airborne/Structure Borne Ultrasound Technician.

Having accumulated thousands of practical hours since inception in late 2012, Jeff is internationally recognised as a specialist in heavy mobile mining, construction and earthmoving equipment and fixed plant.

Jeff is also an active committee member of AUSPTA (Australian Professional Thermography Association Inc) & his team are regularly invited to present their findings and methodologies to the association members and visitors at their bi-annual conferences.

The IIAT team consists of condition monitoring experts across thermography, vibration analysis and ultrasound supporting customers across Australia and around the world.

Specialised Capabilities

By integrating robust data collection and pro-active maintenance procedures with Augmented Reality headwear, an integrative web-based training platform and our specialized data analysis and reporting capabilities, we are able to offer an end-to-end remote condition monitoring solution for all industries, regardless of geographical location.

This solution will not only ensure you have our specialties at your fingertips anywhere in the world, but also offers step by step workflow instructions and compliance recording to ensure both data collection and remedial action is carried out to our high standards.



IIAT is also working with technology providers to develop complementary & assistive technologies such as:

- Wearable Data Collection Devices (Patent Pending)
- Artificial Intelligence capabilities.
- Remote Sensor Integration

Training and Operational Standards

All Team Members are trained to the following standards:

AS/ISO 18436 at a minimum of Category 1 for each modality of condition monitoring.

ISO 13379

ISO 18434

Professional Industry Recognition

All IIAT Team Members are professionally certified and trained with one or more of the following National and Global Industry Bodies:

1. Australian Professional Thermography Association (AUSPTA)
2. Australian Institute of Non-Destructive Testing (AINDT)
3. Advanced InfraRed Resources in Canada
4. Infrared Training Centre in Sweden

Capacity

IIAT are consistently supporting clients across Australia and internationally in both a service and remote training and analytics capacity.

3. Management Systems

Safety Management System

IIAT is fully committed to achieving and maintaining high standards of health and safety at our operations.

1. In all our operations, our aim is to provide the safest and productive environment for our Team Members.
2. In our clients' operations, we ensure that our Team Members understand and follow our client's safety management requirements, which include active participation in their safety initiatives.
3. Our vehicles, tooling and equipment are all supplied and maintained to the highest safety standards to ensure the safety of our Team Members and our clients.

These high standards will be achieved with both management and Team Members of the company, actively demonstrating commitment and involvement in the conduct of health and safety programs through our risk management processes and procedures.



We believe that all accidents and injuries are preventable by all Team Members diligently identifying, controlling, and managing risk in the workplace. Management is responsible for developing, implementing, and maintaining appropriate policies and procedures to mitigate risks. This is accomplished through providing leadership by example, resources and training required to achieve and by maintaining a workplace where risk is as low as reasonably achievable.

This demonstrated commitment will develop a safety awareness culture and encourage commitment and involvement of all our personnel.

We require workplace health and safety to be regarded as an integral part of our company's operation. The safety of the public, sub-contractors and our own Team Members is the responsibility of all levels of management and is to be so always demonstrated.

Environment Management System

IIAT is committed to responsible environmental management and pursuing acceptable and sound environmental practices within the community.

IIAT will at all times operate within the requirements of environmental legislation and any licence conditions.

IIAT will seek continuous improvement in performance by taking into account community concerns and advances in environmental knowledge. This commitment will extend to all areas of operation, including planning, implementation and performance of all maintenance, transport and other operations performed directly by IIAT or any persons working under their directive.

Management will provide any persons working under their directive with details of legislative and license requirements that apply to their work situation and to provide the necessary training and resources to carry out their responsibilities.

IIAT requires any persons working under their directive to operate in an environmentally responsible manner, and to immediately communicate breaches of environmental practice to management. It is the responsibility of every person working under IIAT's directive to immediately take all necessary steps to report any incident that breaches environmental legislation, license requirements or good practice.

IIAT requires the active co-operation of all levels of management and all Team Members; to ensure the above goals are always achieved.

Safe Work Policy



IIAT is committed to preventing injury and illness through providing a healthy and safe working environment and if required making occupational rehabilitation available for any employee who may sustain a work-related injury or illness.

This policy has been developed to comply with the requirements of relevant legislation and regulations covering workplace injury rehabilitation and management, and workers compensation.

The success of Workplace Rehabilitation relies on everyone participating in the earliest return to work possible for any injured person. This may require employee assistance to find suitable duties during the course of the rehabilitation period.

Insurances

- Public Liability
- Work Cover Insurance
- Vehicle and Tooling Insurance

4. Working with Industry and Others

Infrared Inspections and Technologies plays an active role within industry, participating in a number of groups and networks including:

- AUSPTA (Australian Professional Thermography Association) of which Jeff Erichsen is an elected committee member.
- AINDT (Australian Institute of Non-Destructive Testing)
- Resource Industry Network (RIN)
- Bowen Basin Mining Club
- Various LinkedIn Groups:
 - Medical Infrared Thermography
 - Australian Coal Mining
 - Infrared Systems for Industrial Applications & NDT
 - Machine Reliability and Condition Monitoring
 - Thermal Imaging for Inspection and Preventative Maintenance
 - Plant Reliability and Maintenance Professionals
 - Infrared Training Centre