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Our Mission

"Synthesising Problems and Risks into Opportunities"

Our Vision

"Unleashing the genius of individuals to be thinkers who focus on the problem as stated and synthesize information and knowledge to achieve a solution"

What can we help with?

Convergenius, a new Queensland based company has been formed to help companies solve their difficult **Work** problems.

Companies deliver **Work** through a number of disciplines such as LEAN, Project and Supply Chain Management across diverse sectors such as Construction, Maintenance, Infrastructure, Utilities, Industrial Services and Mining. These companies have one thing in common, ensuring **Work** is carried out safely and productively.

In Queensland alone, total workplace incidents cost the economy more than \$5.2b per annum, with each single injury having a social and economic cost of nearly \$40k. For example, based on 2008 data, the injury rate in the construction industry alone is 18 workers injured for every 1000 employees, with the balance of industry averaging 15 workers injured for every 1000 workers. In 2006-07 there were 114 work-related fatalities in Queensland and almost 30,000 serious injuries.
www.worksafe.qld.gov.au

Australia wide, work-related illness and injury costs an estimated \$57.5 billion per year in costs and lost productivity. www.aec.net.au

A new approach to safe **Work** delivery must be embraced. Convergenius embraces this new approach to **Safe Work** delivery.

Our Products & Tools

To assist with improving both safety and productivity performance, Convergenius has developed and brought to the market a number of solutions through innovative products and services:

- **ViisiSafe**
- **PHS & PrevHeat Model**
- **Contractor Management Systems**
- **Workforce Productivity Assessments**
- **Project Management Competency Assessments**
- **ViisIC – National Compliance Identification Access Cards**
- **ViisConnect**

ViisiSafe

ViisiSafe – a **Work** Delivery and Safety Compliance system is a cutting edge "Software as a Service" (SaaS) product enabling organizations to rapidly and cost effectively implement Safety Requirements Planning (SRP) and Safety Resource Planning (SRPII) solutions.

ViisiSafe will assist any de-centralised organization seeking to improve visibility and performance of their **Safe Work** delivery system.

ViisiSafe enables the capture of current safety management practices (CSMP's) and allows hazards and associated risks to be either controlled to standard (CTS) or controlled to unique (CTU) solutions therefore ensuring good safety practices.

With ViisiSafe as your safety execution system (SES), the mean time to control hazards (MTTC) will reduce hence shortening your hazard control horizons (HCH). With this improvement in control lead times (CLT) the organizations overall control effectiveness (OCE) is greatly enhanced.

Where event intervention is required, irrespective of the event classification type, the ViisiSafe improvement process can be activated to manage prompt realization of benefits through the innovation process.

Through the functionality embedded into ViisiSafe aggregated risk mitigation strategies (ARMS) can be assessed in such a way that a professional services safety assessment (PSSA) can be undertaken to underpin continuous improvement (CI).

ViisiSafe is your safety knowledge management (SKM) solution which will unleash your safety systems inherent value (SSIV).

Competencies are matched to tasks to ensure only competent people are allocated to do **Work**. Workflow management (WM) is at the core of ViisiSafe, which ensures responsible stakeholders are intrinsically tied into your SRP / SRPII and kept abreast of day to day events in **Safe Work** activities.

'we solve difficult work problems'

Management safety reporting (MSR) is a key feature of ViisiSafe and will enable anyone from the Managing Director through to the works supervisor and safety officer to understand levels of compliance at any **Work** site that has internet access, at any time.

The key functionality of ViisiSafe is:

- *Works and Safety management through work flow, with status reporting*
- *Hazard and Controls Register is "live" in the system*
- *Events are handled within the system*
- *Responsibilities are clearly defined for each role*
- *Hazards have been segmented for ease of identification and control (Site / Location / Equipment / Job)*
- *Visibility of Remote sites work and safety practices*
- *Document control is improved*
- *Notification through email and SMS proactively manages status*
- *Work packs "build" through the work flow process and are produced at the approval stage*
- *Compliance reports identify "red light" compliance issues*

The main benefits available from ViisiSafe are:

- *You have visibility of safety compliance thus reducing potential exposure and legal issues*
- *The planning of work is now intrinsically linked into the management of safety each and every day*
- *Hazard Identification and Risk management practices are supported by user friendly tools*
- *Appropriate controls as identified from within the risk register are easily identified*
- *The risk register is easily updated*
- *Compliance can be viewed and proven easily and in a timely manner*
- *Mobilise risk identification through field verification*
- *Work is able to be analysed by hazard categories and types with associated risk ratings and incorporates the number of people working who are exposed to these hazards*
- *Employee competency and training records are easily maintained with renewal date notifications*

The economic realities of ViisiSafe are:

- *Rapidly deployed*
- *Cost / benefit is measureable*
- *Allows you to compare Incident costs , Control Costs and the Avoided Costs*
- *Ongoing support is manageable*
- *Flexible fee / charging regimes exist*
- *You can do more with less*

PHS & PrevHeat Model

The PHS model allows prompt calculation of Predicted Heat Stress levels on people for known

Work processes using analytical data. The PrevHeat Model determines the possible risks associated with a known **Work** task based on **Work** place observations.

Both models are based on the SOBANE strategy for the management of risk and have been derived from the International Standard (ISO) 7933 Ergonomics of the thermal environment – Analytical determination and interpretation of heat stress using calculation of the predicted heat strain and associated standards.

In field monitoring, accompanied with robust management processes reduces heat stress exposures to a minimum and assists with higher productivity levels. This analysis has been derived from ISO 15265 Ergonomics of the thermal environment – Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions.

The PHS Model is useful as a job design and evaluation tool, is applicable to workers in moderate and hot **Work** conditions and is most applicable in the analysis of low varying conditions known best described as a sequence of constant climatic change.

The PrevHeat Model examines a number of climatic parameters, the clothing worn, people's current health conditions and the actual physical **Work** undertaken. The model evaluates the present situation; search's for possible improvements and then evaluates the situation after the improvements.

These models have been used to evaluate **Work** undertaken in process industries, asbestos removal, boiler operations, laundry and underground mining operations. Planned **Work** was modeled, with results showing employees would have suffered from heat stress within 15 minutes. Potentially a person was saved from suffering a major **Work** place injury.

Convergenius is working in conjunction with Professor Jacques Malchaire PH D, a contributing author of these international standards.

Contractor Management System

Whether your organization acts as a Principal, Contractor or Sub-Contractor, or even all of these at times, the responsibility for **Safe Work** delivery systems cannot be abrogated to any one organisation or individual. Outsourced **Work** must not only be managed effectively and efficiently from a commercial and quality perspective, there are a number of statutory obligations that must be met

across the contracting supply chain, irrespective of the project type.

Through establishing the end to end business process's (Supply Chain philosophy) Convergenius has developed methodologies and systems for business to manage risk and ensure compliance with all regulatory and environmental requirements. Convergenius has worked with the following standards.

ISO 9001:2000 Quality Management Systems
HB90.5 - 2000 Correlation Between ISO 9001:2000 and the HACCP Principles
AS/NZS 4801:2001 Occupational Health and Safety Management Systems
AS/NZS 4804:2001 Occupational Health and Safety Management Systems
HB211 - 2001 Occupational Health and Safety Management Systems; A guide to AS 4801 for small business
ISO 14001:2004 Environmental Management Systems
AS/NZS 4360:2004 Risk Management
AS/NZS HB240 - 2004 Guidelines for Managing Risk in Outsourcing
AS ISO/IEC 17050.1&2 - 2005 Conformity assessment - Suppliers
HB 18.22:2003 Guidelines for third-party certification and accreditation - Suppliers
ISO 10005:2005 Quality Management Systems - Guidelines for Quality Plans
HACCP - Hazard Analysis Critical Control Point Principals

A recent client who engaged Convergenius to capture specific knowledge in a Work delivery system in a large industrial processing (Capital Works and Maintenance) environment, gained triple ISO certification against Environmental, Occupational Health and Safety and Quality standards, met all legislative requirements, and also improved the business commercial outcomes and passed a Lloyd's of London audit first time!

Workforce Productivity Assessment

A main component of Safe Work delivery and outcomes is to ensure the workforce is productively engaged. Most organisations are not certain of what productivity levels are currently being achieved by their workforce, and are not aware of how they compare to benchmarked standards.

Typically organisations who have not undertaken any formal workforce productivity assessment are surprised when they discover their current performance may be as low as 50% or even less. Recent studies from a range of industries types such as:

- Industrial process plant
- Fabrication
- Projects
- Maintenance
- Industrial services

Found performance as low 10% on some Work fronts up to a maximum and isolated high of 60%. There was also evidence that the lowest productivity Work fronts had the most unsafe Work practices.

Convergenius has a proven methodology to capture the current Work process, undertake the infield observations necessary to establish productivity levels and make observation about both Risk and Opportunity areas. Through modeling, predicted future state productivity gains can be forecast with detailed organisational planning and Work based implementation strategies provided as a deliverable.

Project Management Competency assessments

Rapid Assess is a baseline and gap analysis tool used by organizations around the world to help understand where they are today in terms of Project Management competency as a group and identify where each individual within the group is particularly strong or in need of assistance across the 9 knowledge areas of Project Management spanning; Integration, Scope, Time, Cost, Quality, Human Resource, Communications, Risk and Procurement.

Rapid Assess can be implemented immediately within any organization in any industry. Implementations of Rapid Assess have occurred successfully in Engineering and Construction, Management Consulting, Telecommunications, Energy and IT Organisations globally.

Rapid Assess can be used to assess from 5 to 500 employees or more. Assessments take a maximum of 4 hours per person, with group assessments sessions preferred.

Convergenius has qualified assessors able to deliver these competency assessments now.

ViisIC – Global Compliance Identification Access Cards

Brisbane, Australia – Fastcards, a Smart ID and Credential Management company and Convergenius, Developers of the ViisiSafe software as a service product enabling organisations to rapidly and cost effectively implement safety and resource requirements planning, have announced an agreement to collaborate on a joint sales and marketing basis. Fastcards will provide a Smart Card credential management solution that enables ViisiSafe clients to check and verify credentials of workers in the field through mobile computing and contactless smart card technology.

Fastcards is an identity management services provider serving government and industry clients in addition to providing RFID tracking solutions for mining and industrial applications. The Company is an official issuing body of the Maritime Security ID Card www.msic.com.au and a provider of ID and RFID Solutions to Government, Mining and the Industrial Sector throughout Australia. Fastcards offers a unique patented Web Based Credential Management solution most recently deployed in conjunction with RFID tagged credentials at the World Youth Day 08 event in Sydney.

Scott Austin, Founder and President of Fastcards acknowledged: "The Convergenius Team are truly experts in the area of safety and resource planning and our product fits nicely as an extension of theirs. We will interface into the ViisiSafe back end enabling clients to manage their ID Card Holders in the field and thus ensuring compliance to Occupational Health and Safety monitoring is maximised through mobility".

Liam Stitt, Director and Senior Consultant at Convergenius is well known in the Australian Supply Chain circles has brought an experienced team together to build ViisiSafe around strict Compliance Requirements. "After May 1 2009 employers need to have implemented a strong compliance programme and ViisiSafe goes a long way to providing the process controls around compliance. The Fastcards solution just extends the product so nicely and closes the loop! Needless to say we are very excited about the collaboration", stated Liam. The Fastcards with the ViisiSafe connectivity will be sold under the ViisiSafe label through Convergenius.

Fastcards Pty Ltd (www.fastcards.com.au) is an identification technology company focusing on personalization, programming and issuance of ID credentials based in Brisbane, Australia. Fastcards offers a panel of services from online express ID cards delivery to customized ID management solutions. The products focus on secure credential management for corporations, governments, events as well as for mobility verification using RFID, and contact smartcard solutions including people ID and security cards.

ViisConnect

Business success is about doing things better, cheaper and faster. In a world of low inventories and just-in-time delivery, weak supply chains hand competitors a real advantage.

Viisibility can make a difference to your supply chain performance. Through our product ViisConnect, we provide supply chain solutions that allow companies to collaborate with business

partners irrespective of the systems that each partner uses - enabling a level of collaboration not experienced before in such a simple, seamless manner.

Viisibility provide internet-based applications that help companies improve the efficiency of their supply chains, making it easier for everyone in those networks to access, use and act on information. Our solutions add value to existing business information systems, extracting and presenting data in a way that everyone in a supply chain can see and understand.

Viisibility builds customised business communities on the Internet and provides secure access for supply chain partners where data from a range of systems is extracted, uploaded and then standardised. Information can be pulled from a variety of business systems such as financial, planning, manufacturing, accounting and ERP systems. Users are able to log in to find up-to-date information about their orders, dispatches, inventory and any other critical supply chain information.

The system has a messaging service, which alerts the appropriate person if there are changes to information, for example changes to a production timetable. There is also a workflow layer, which prompts action from the receiver of the message, as well as a reporting tool, which pushes out daily reports to appropriate receivers.

Viisibility can guide the workflow of supply chain members, send out alerts to people when information changes and provide regular reports on supply chain performance indicators.

The range of products include:

- ViisConnect for Supply Chain
- ViisConnect for Construction & Projects
- ViisConnect for Business Performance
- ViisConnect for Solving problems
- ViisConnect for Transport and Chain of Responsibility

Convergenius, through the joint venture partnership with Viisibility brings Australian organisations this future looking suite of "Software as a Service" (SaaS) products.