



# Avetta Summit

User Conference

SYDNEY, AU

# Worksite Safety

Driving Continual Contractor  
Safety Improvement



# Safe Harbor Statement

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User Conference | SYDNEY



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# Agenda

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## **Continuous Improvement**

Looking Beyond Injury and Illness Data

**02**

## **Looking Forward**

Subcontractor Safety Management

**03**

## **A day in the life**

Things that keep you up at night

**04**

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Summary



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# Continuous Improvement

Looking Beyond Injury and  
Illness Data

# Our Inherited Challenge...



**Muted:**  
Traditional Metrics



**Low Signal Strength:**  
Present State of Risk



**Captive:**  
to Compliance



**Amplify:**  
Leading Metrics  
& Monitoring



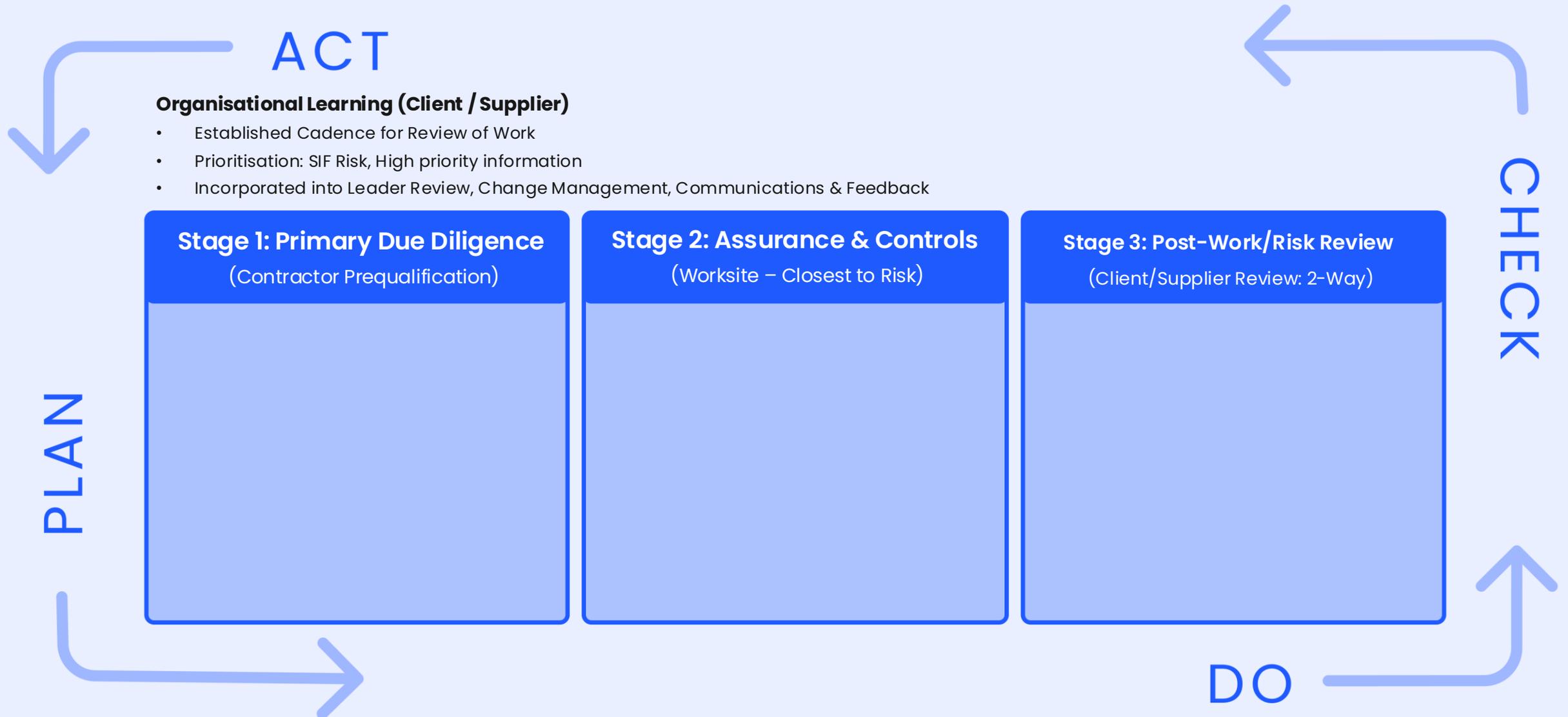
**Power Up:**  
Capacity & Insights



**Unlock:** Assurance  
& Organisational  
Learning



# Continual Improvement Lifecycle



# Key Performance Indicators

## Leading

- Proactive
- Predictive
- Measures of process and inputs to drive the desired outcome
- **How we want the system to look**

## Lagging

- Reactive
- Outcome-based
- Represent whether the outcome has been achieved
- **Is the system working as expected?**



# What did we learn in Dallas & Calgary

## Already Collecting

- [Contractor] Health and Safety, Training or Observation Programs
- Regulatory Compliance
- Risk Assessments and Permit to Work
- Reviews, Inspections and Audits
- Senior Leader Tours



- Near Misses & Incidents
- Fitness for Work – D&A
- 360° Culture Feedback
- Verification of Competency
- Effective Corrective action timelines
- Active Site Monitoring

## Not Currently Collecting



**Specify a performance monitoring system of leading and lagging indicators and identify the expected results to provide early warning of any deficiencies within operations**

WorkSafe WA, 2024

Health and safety leading and lagging performance indicators: Guide.

# Australia and New Zealand Context



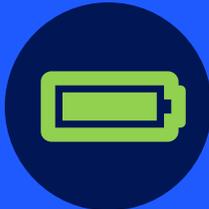
**Amplify:**  
Leading Metrics &  
Monitoring



**Reg. Required  
Performance  
Monitoring**



**Power Up:**  
Capacity & Insights



**ESG & Psychosocial  
Safety Legislation**

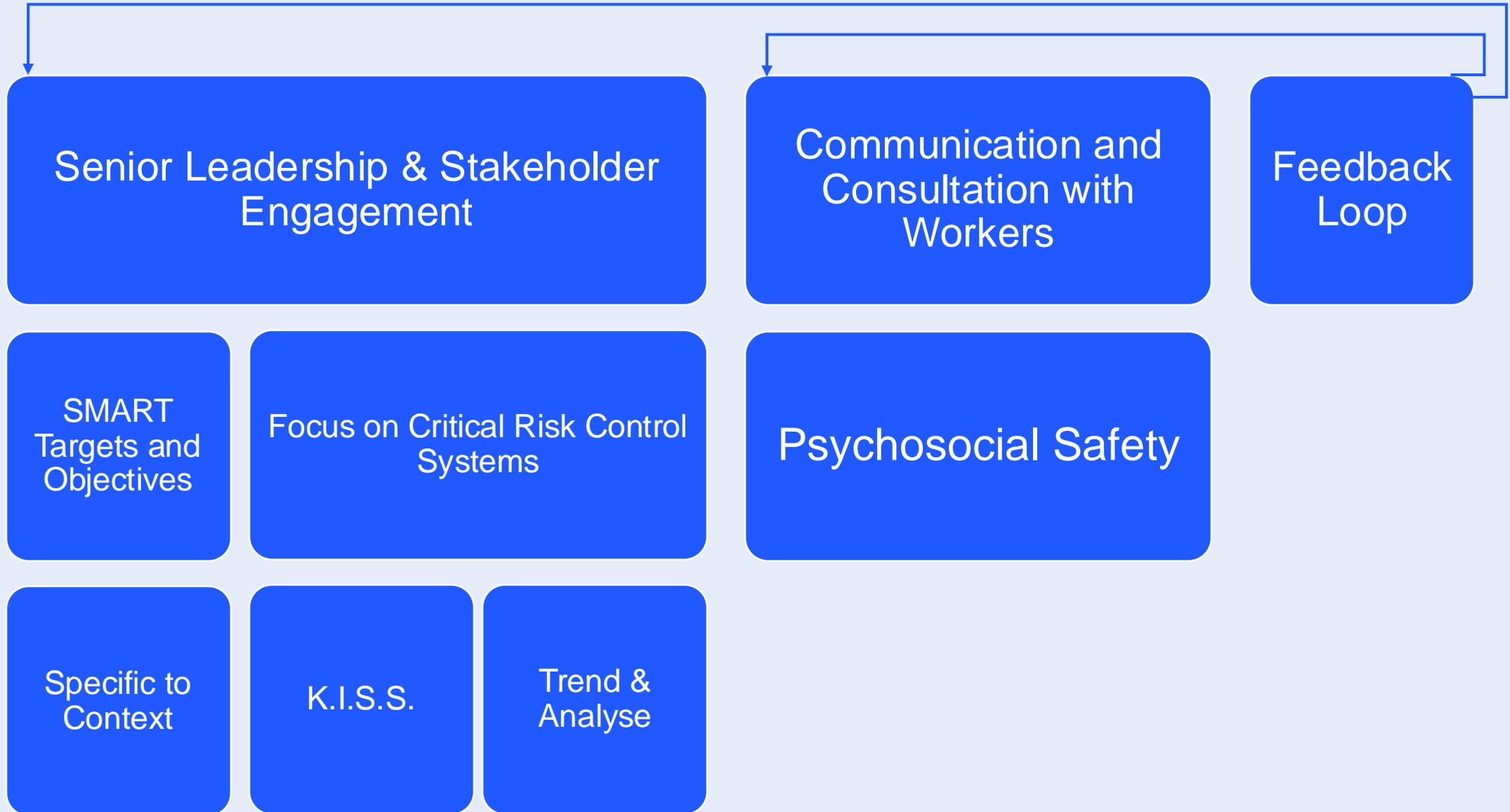


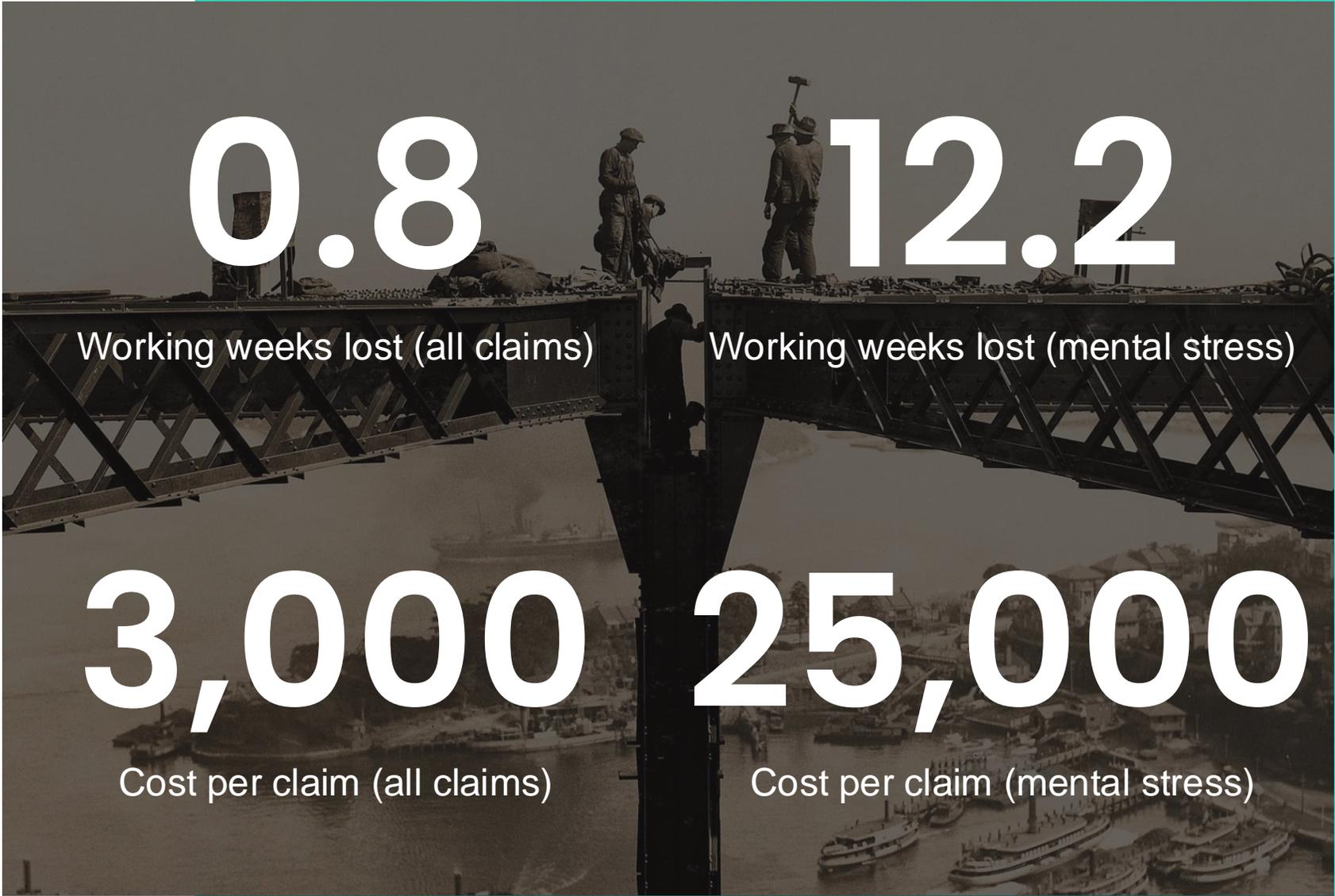
**Unlock:** Assurance  
& Organisational  
Learning



**PCBU Officer Due  
Diligence**

# Best practice performance monitoring system





0.8

Working weeks lost (all claims)

12.2

Working weeks lost (mental stress)

3,000

Cost per claim (all claims)

25,000

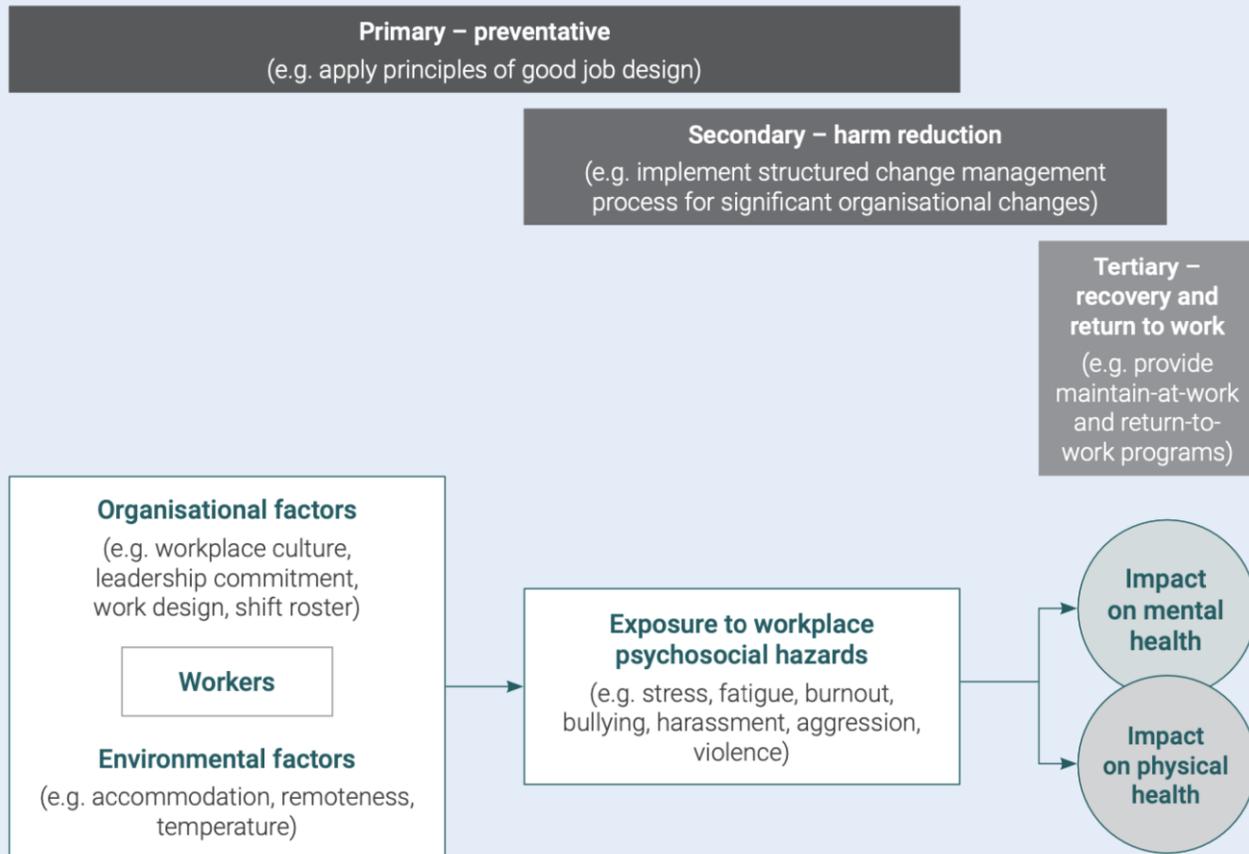
Cost per claim (mental stress)



**when you can measure what you are  
speaking about, and express  
it in numbers, you know something  
about it**

Lord Kelvin

# Psychosocial Safety



- Uncontrolled psychosocial hazards lead to stress.
- Stress occurs where perceived demands of work exceeds their ability or available resources
- **Prolonged, frequent or severe** exposure to stress can cause psychological and physical harm.
- **Human Factors:**
  - The **JOB**
  - The **INDIVIDUAL**
  - The **ORGANISATION**



management

minimise

health

role

hazards

identify

workers

information

measures

supervisors

processes

risks

control

training

consultation

workplace

physical

systems

tasks

eliminate

psychosocial

policies

safety

support

behaviours

# Psychosocial Safety Offering



## ESG Assessment

Included within Supplier Self Evaluation and ESG Assessment program



## Manual Audit Questions

Psychosocial Safety procedures assessed during Manual Audit Process



## Dedicated Supplier PQF

Available for addition into compliance collection and flagging



**COMING SOON**

# Activity



Health & Safety



ESG & Sustainability



Business Risk

Clients  
Suppliers  
Contractors



Doing Well



Opportunity for Improvement



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# Looking Forward

## Subcontractor Safety Management

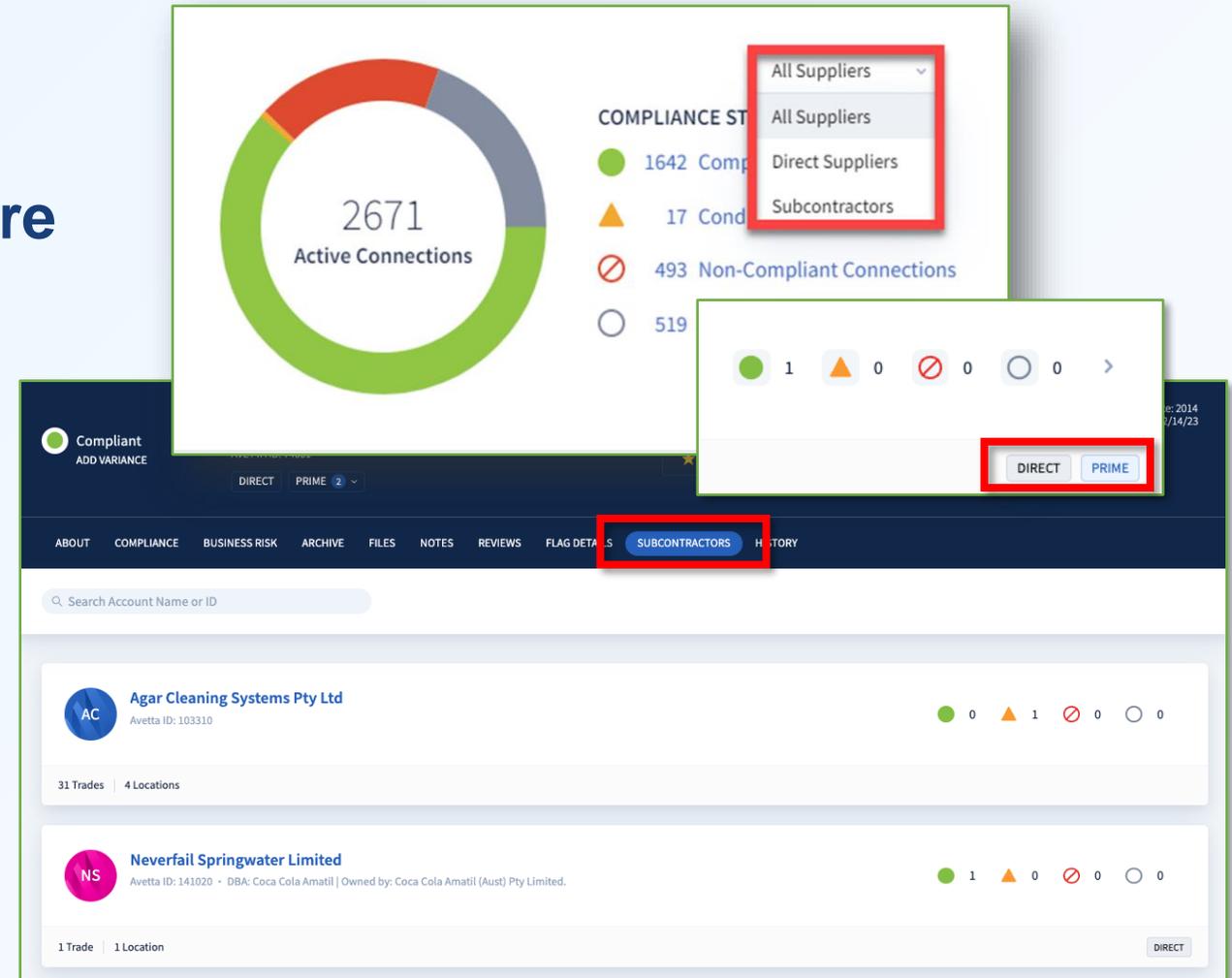
# Subcontractor Management

60-70% of contracted work is outsourced to subcontractors.

59% of supply chain disruptions are caused by subcontractors.

Avetta's Subcontractor Management feature provides:

- Client visibility into contractors and subcontractors – from tier 2, 3, 4, and beyond!
- Configuration options to mandate uniform requirements – or unique requirements – based on relationship type.
- Increased responsibility, involvement and visibility for primes managing subcontractors.
- Analytics tools available to evaluate the broader contractor / subcontractor base to ensure supplier diversity goals are met.



# The Subcontractor Challenge

**Who are my subcontractors?**

Limited visibility of subcontractors beyond direct supplier relationships. Spend lists are little help.

**I do not have the time.**

Significant effort to identify, prequalify, review and monitor subcontractor compliance.

**What is the risk?**

Lack of access to subcontractor performance data and training practices can introduce safety, business and reputational risks; competing company behaviors and values may impact quality.

**How would I enforce this process?**

Without a sophisticated enforcement process, subcontractor management programs are ill-adopted.

# Subcontractor Management Value



## Visibility

Provide clients and contractors with visibility to subcontractor compliance across all relevant risk pillars.



## Efficiencies

Streamline and automate subcontractor management process, reducing manual efforts for both clients and contractors.



## Risk Exposure

Reduce inherent risk exposure to unvetted Tier 2, 3 etc. subcontractors by communicating values and expectations down the supply chain.



## Insights

Access, visualise, and analyse underlying subcontractor performance and compliance trends through powerful analytics.

*Subcontractor Management supports our largest customer segment: onsite contractors + clients interested in mitigating health and safety risks.*



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## A day in the life

### Things that keep you up at night

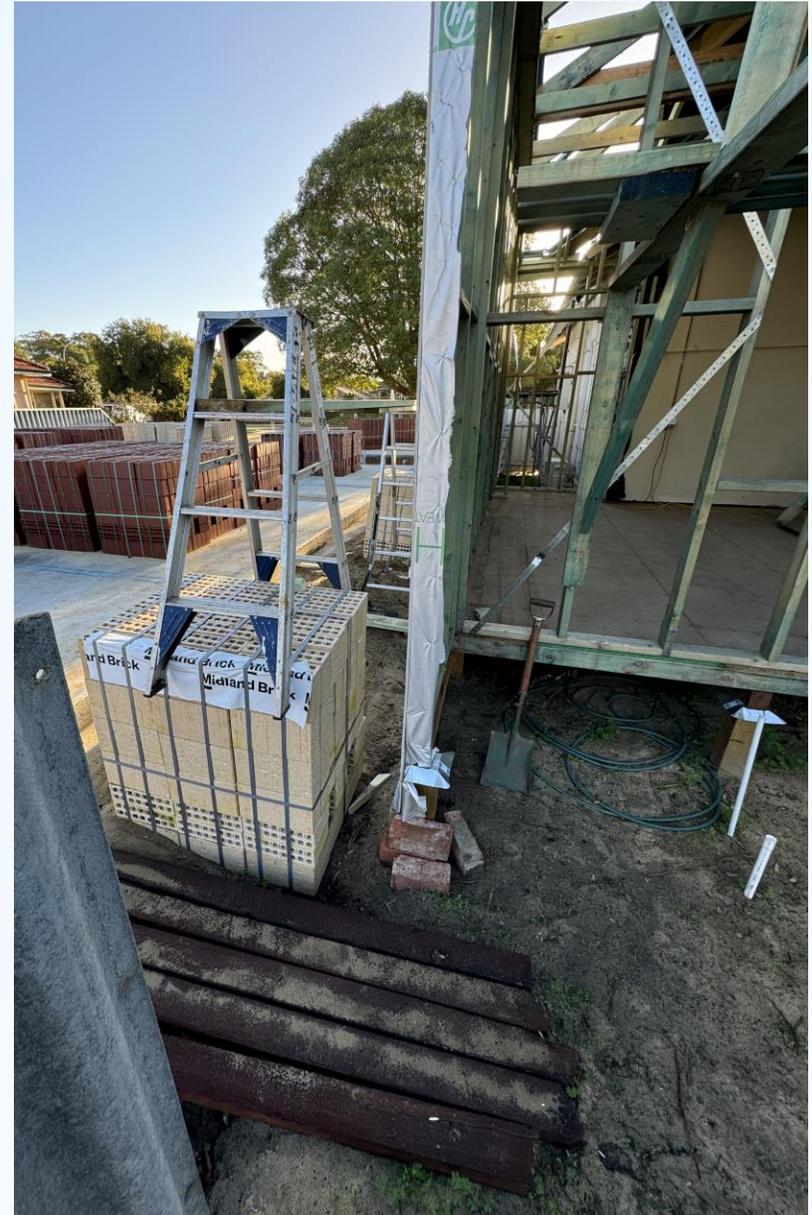
**A work request has been issued to a  
Supplier to build an extension to an  
existing office**

**Suppliers are pre-qualified,  
Workers are trained and competent**

**To monitor the work, you plan on  
conducting a safe act observation  
during execution**

**You arrive to the work location and  
discover the work has been  
subcontracted out to another party**

**These are images of the site you take  
during the work**



# Around the room

## Bad & Ugly

- Subcontracted to another party without knowledge
- Makeshift Scaffolding
- Ladders on a brick stack / sand
- Two planks of wood supported by ladders
- No fall prevention / protection

## Good

- *Not much...*
- There is *some effort* being made to stabilise the ground conditions



**Confession**



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# AskAva

## In-platform Generative AI

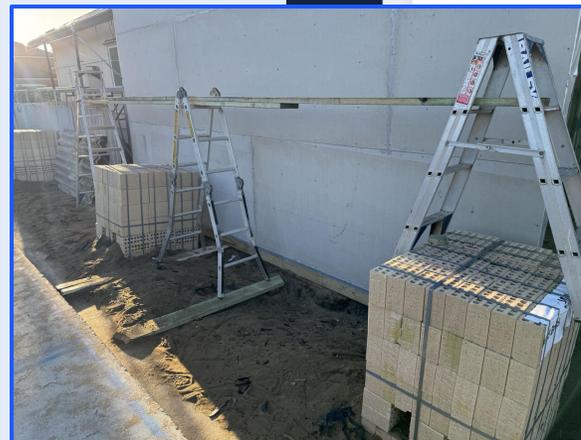
# How Can AI Assist?

*An expansion to AskAva*

- *Provide safety recommendations based on an uploaded image of current worksite conditions*

**i ROADMAP**

The screenshot shows a software interface for "Work Requests" with a "Job Hazard Analysis" section. The interface includes a sidebar with navigation options: Home, Analytics, Network, Messages, Projects, Resources, and Help. The main content area has a "Work Activity" section with a "+ Step" button and a "Supporting Documentation" section with an "Add file" button. An "AskAva" AI assistant overlay is present on the right, titled "Safety recommendations for the uploaded image". It features a "Photo Upload" section with a "Would you like suggestions to improve the worksite?" question and an "Analyse photo" button. A blue arrow points from a photo of a worksite (showing ladders and materials) to the "Add file" button in the "Supporting Documentation" section.



# How Can AI Assist?

*An expansion to AskAva*

- *Identify high-risk activities and equipment:*



## Stepladders on Bricks

- The stepladders are placed on unstable, uneven surfaces (the pallets of bricks), significantly increasing the risk of falling.

## Makeshift Scaffolding

- The wooden planks placed across the ladders are being used as scaffolding. This setup is unstable and not designed for heavy loads.
- The A-frame ladders appear to be used as supports for the scaffolding rather than for their intended purpose.

## Unstable Ground:

- The sandy ground may not provide a stable foundation for ladders or scaffolding.
- Increased risk of slipping, tripping, or falling.

# How Can AI Assist?

*An expansion to AskAva*

- *Provide recommended controls:*



## Elimination:

- Do not use & remove makeshift scaffolding.

## Substitution:

- Install professionally designed scaffolding that can be securely assembled and anchored.

## Engineering Controls:

- Use base plates under scaffolding to stabilise on sandy, uneven ground.

## Administrative Controls:

- Train workers on safe ladder and scaffold use
- Regularly inspect equipment
- Implement safe work protocols for working at height

## Personal Protective Equipment:

- Ensure workers wear appropriate PPE, including hard hats, safety harnesses, non-slip footwear, and gloves.

# How Can AI Assist?

*An expansion to AskAva*

- *Risk Scores and Injuries:*



## Inherent Risk

- **HIGH:** *The current setup has a high likelihood of causing accidents, primarily due to the instability of the makeshift scaffold and the uneven, sandy ground.*
- **CONSEQUENCE:** *Fractures, Head Injuries*
- **LIKELIHOOD:** *Likely*

## Residual Risk

- **LOW:** *By implementing proper scaffolding, stabilising the ground, conducting regular inspections, providing training, and ensuring the use of PPE, the risks can be significantly mitigated.*
- **CONSEQUENCE:** *Sprains, Strains*
- **LIKELIHOOD:** *Unlikely*



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# AvettaOne Product Verticals Summary

# Managing Risk Holistically



## Avetta Analytics

### Worker Compliance

Manage Worker Access

*Keep Workers Safe,  
Sustainable & Trained*

### Worksite Safety

Project/Job Risk Assessments

*Controls & Safeguards*

### Supplier Prequalification

Company Due Diligence

*Safe & Sustainable Companies*

## Avetta Mobile Applications