



Enabling Workforce
Intelligence **at Scale**

Workforce Optimisation

in Port Operations

The **Missing Link**
in Productivity Improvement



Sivaram Gollapudi

Principal Solution Architect /
Principal Product Manager
JIVI Solutions



ASEAN Ports & Logistics 2026 | Kuala Lumpur, Malaysia



WORKFORCE
INTELLIGENCE



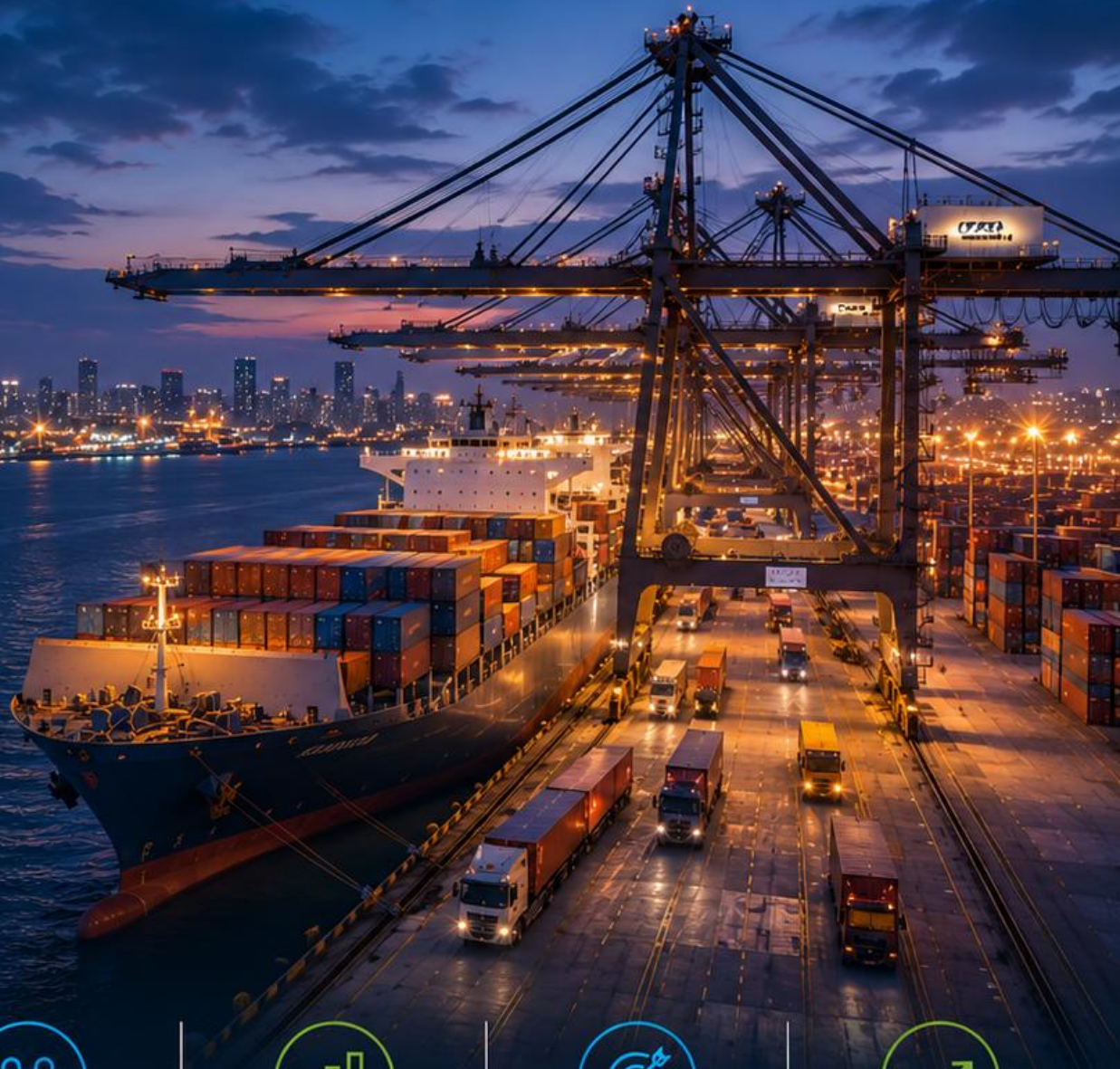
OPERATIONAL
VISIBILITY



SMARTER
DECISIONS



SUSTAINABLE
PRODUCTIVITY





PORT INVESTMENTS

Ports have become operationally intelligent.



INFRASTRUCTURE

World-class terminals built for scale and efficiency.



EQUIPMENT

Advanced cranes, vehicles and technology.



OPERATIONAL SYSTEMS

Digital platforms driving visibility, planning and execution.



AUTOMATION

Process automation improving safety, speed and accuracy.



THE MISSING LINK

Workforce decisions are still often reactive.



STILL LARGELY REACTIVE

Decisions made under pressure, not with full visibility.



MANUAL COORDINATION

Heavy reliance on calls, messages and spreadsheets.



LIMITED REAL-TIME INSIGHT

Fragmented data across systems and teams.



Operational excellence is only as strong as the **workforce decisions** behind it.





The Questions That Decide Productivity

Every decision. Every shift. Every hour.



AVAILABLE?

Do we have the right people available, right now?



QUALIFIED?

Do they have the right skills and certifications for the job?



FATIGUED?

Have they worked too long or need adequate rest?



REDEPLOY?

Can we redeploy the right people to the right place?



Better **Workforce** Decisions
Better **Operational** Outcomes





From Workforce Management to **Workforce Intelligence**

OLD THINKING Workforce Management



NEW THINKING Workforce Intelligence



Operations don't need more data.
They need **better workforce decisions.**



THE JIVI Workforce Intelligence Framework

From Workforce Management to Workforce Intelligent Operations



WHY IT MATTERS



Better decisions
made with real-time context.



Better alignment
between people, skills and demand.



Better outcomes
in productivity, service and safety.



A **JIVI methodology** for continuously aligning workforce capability with operational demand.



WORKFORCE READINESS ASSESSMENT



OPERATIONAL INTELLIGENCE STARTS WITH WORKFORCE READINESS.

IS TODAY'S WORKFORCE READY FOR TODAY'S OPERATION?



OPERATIONAL CONTEXT



Vessel / Operation Container Vessel – Berth 4



Required Workforce **142**



Required Certified Operators **35**



Operation Window 06:00 – 18:00



WORKFORCE READINESS STATUS



WORKFORCE AVAILABILITY

● **READY**

Sufficient workforce available



SKILLS AVAILABILITY

● **READY**

Required skills and certifications available



COMPLIANCE STATUS

● **READY**

All compliance requirements met



OVERTIME EXPOSURE

● **MONITOR**

Approaching operational threshold for Team B



LEAVE IMPACT

● **READY**

No operational impact



OPERATIONAL INSIGHT

Current workforce readiness supports planned vessel operations.



MANAGEMENT ATTENTION

Monitor overtime exposure for Team B.



BUILDING THE **WORKFORCE INTELLIGENT PORT**



Where people, operations and intelligence come together to drive performance.

WHAT IT DELIVERS



BETTER DECISIONS

Make the right workforce decisions, every day.



SAFER OPERATIONS

Ensure compliance, wellbeing and safety.



HIGHER PRODUCTIVITY

Right people, right skills, right time.



OPERATIONAL AGILITY

Respond faster to change.



LOWER COSTS

Optimise resources and reduce inefficiencies.

THE FUTURE PORT



INFRASTRUCTURE



EQUIPMENT



OPERATIONAL SYSTEMS



WORKFORCE READINESS



OPERATIONAL INTELLIGENCE



WORKFORCE INTELLIGENT PORT

Sustainable performance through people, process and intelligence.

OUR BELIEF



Operational Intelligence begins with **Workforce Readiness.**

OUR MISSION



Helping organisations make better workforce decisions.

OUR VISION



Building Workforce Intelligent Operations.