



GLOBAL CONFERENCE 2025

ENTERPRISE RISK MANAGEMENT:
RISING FROM THE ASHES

UTILISING DATA ANALYTICS AND AI
AS KEY RISK MANAGEMENT
ENABLERS

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The Power of Data Analytics & AI

Turning Data into Insights for Strategic Decision-Making

Transforms raw data into actionable insights, empowering organisations to make evidence-based decisions for growth in real-time

Competitive Advantage and Market Trends

Analytics reveals emerging market trends, giving companies a competitive edge and enabling swift, informed responses to changes

Enhanced Customer Experience

Personalisation through analytics & AI improves customer experience, fostering loyalty and meeting unique individual needs efficiently

Operational Optimisation

Identifies inefficiencies, reduces errors and speeds up workflows leading to streamlined operations and reduced costs across the organisation



The Power of Data Analytics & AI (Cont'd)



Predictive Analytics for Forecasting

Predictive analytics uses historical data to anticipate trends, enabling businesses to plan proactively and make informed decisions



Enhancing Security with Analytics

Strengthens security by detecting real-time anomalies and helping to protect sensitive information from threats



IoT and Big Data Integration

Analytics harnesses high volumes from IoT devices, enabling real-time monitoring and predictive maintenance for smarter operations

Data Analytics/ AI in
Risk Management:
*Game-changers in
modern risk
management, helping
organisations shift
from reactive
firefighting to
proactive foresight*



Data Analytics/ AI in Risk Management



1. Risk Identification & Prediction

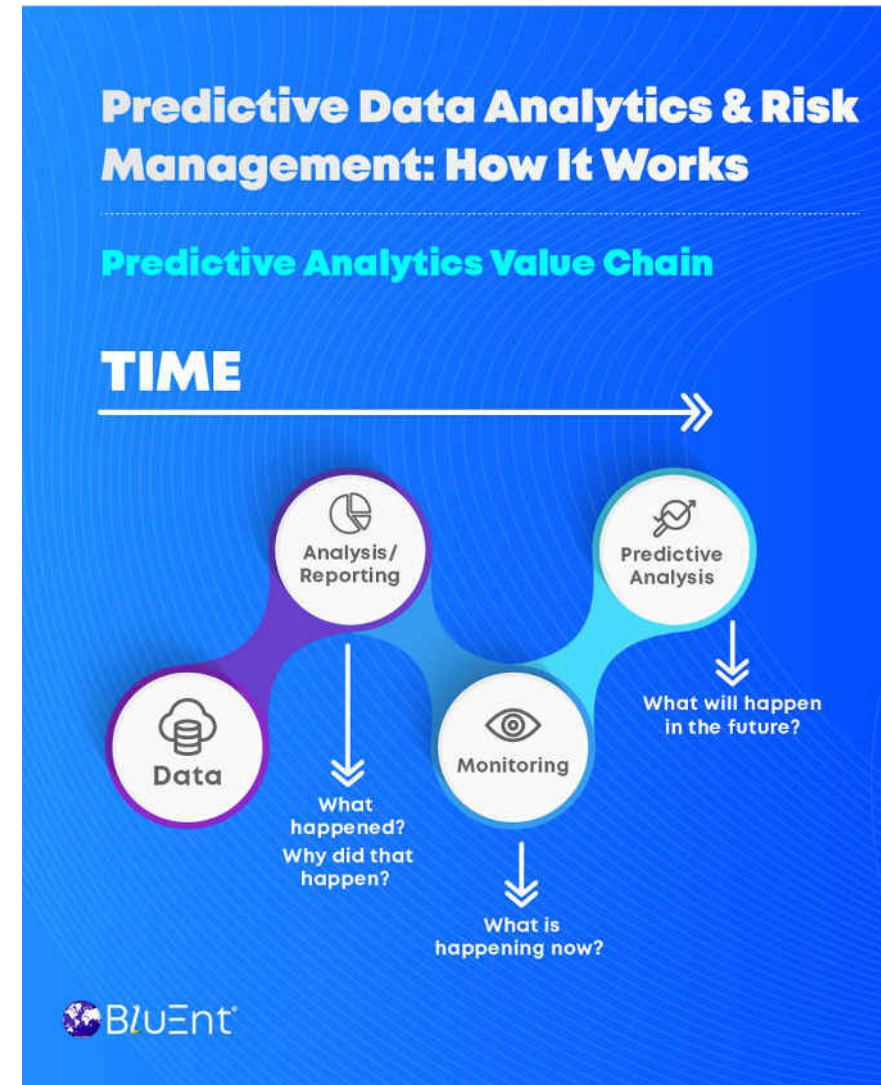
- **Data mining & machine learning** detect patterns and anomalies that signal emerging risks
- **Preventative risk management** - predictive analytics forecast potential threats / emerging risks —like financial fraud or supply chain disruptions—before they escalate
- AI models can simulate stress scenarios to test organizational resilience

2. Enhanced Decision-Making

- AI processes vast datasets faster than humans, enabling **real-time insights**
- It reduces bias by relying on objective data rather than subjective judgment
- Decision-makers get **risk scorecards and dashboards** to prioritise threats effectively

3. Instantaneous Threat Surveillance - Fraud Detection & Cybersecurity

- AI-driven real-time analytics equip organisations with swift identification and response capabilities for new and evolving risks
- Help prevent **identity theft, phishing, and payment fraud** by learning from historical data
- In cybersecurity, AI detects anomalies in network traffic and predicts vulnerabilities



Data Analytics/ AI in Risk Management



4. Compliance & Governance

- AI ensures regulatory compliance by tracking changes and automating reporting
- It improves **data governance** through classification, tagging, and lineage tracking
- Organisations can avoid penalties and reputational damage by staying ahead of compliance risks

5. Operational Efficiency

- AI identifies inefficiencies and potential breakdowns in business processes
- It supports **automated vendor due diligence** and flags supply chain risks
- Helps optimise resource allocation and reduce costs tied to risk mitigation

6. Integrated Risk Management Systems

- AI-powered platforms unify data from internal systems, third-party sources, and even the dark web
- These systems offer a **multidimensional view of risks**—financial, operational, cyber, reputational, and more
- They enable continuous monitoring and adaptive response strategies

Case study : Using data analytics & AI - an example in practice



**Leading Certified
Sustainable Palm
Oil Producer**



**Assets in more
than 10 countries
globally**

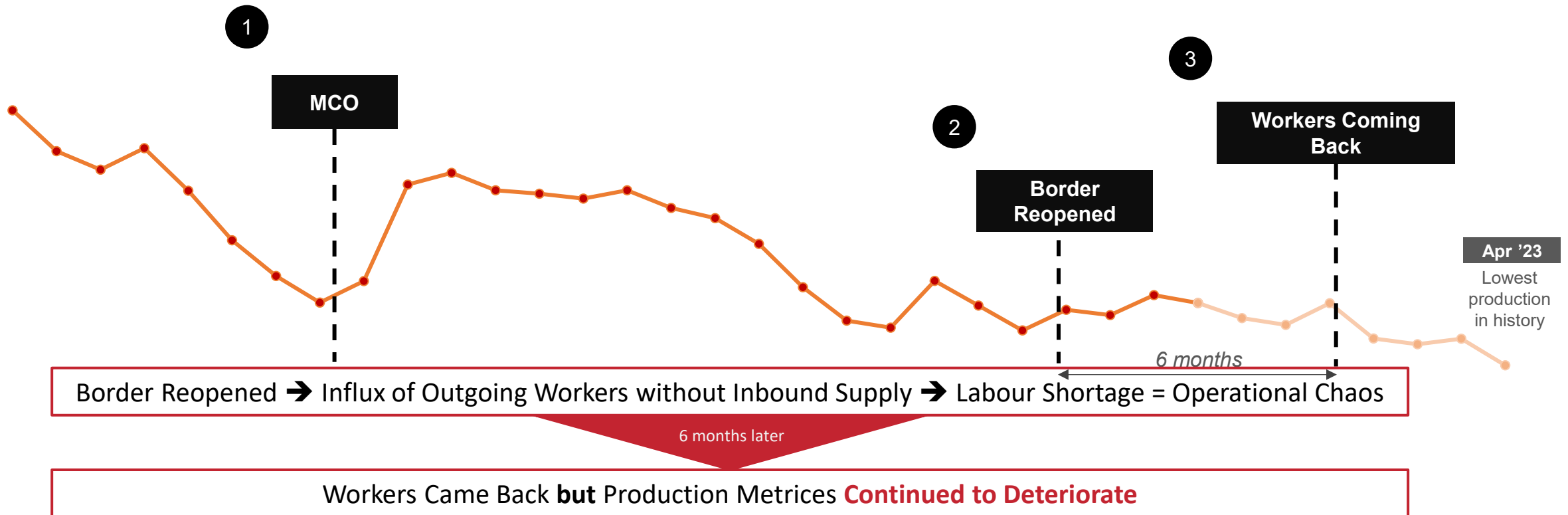


**>600k ha of
landbank
worldwide**



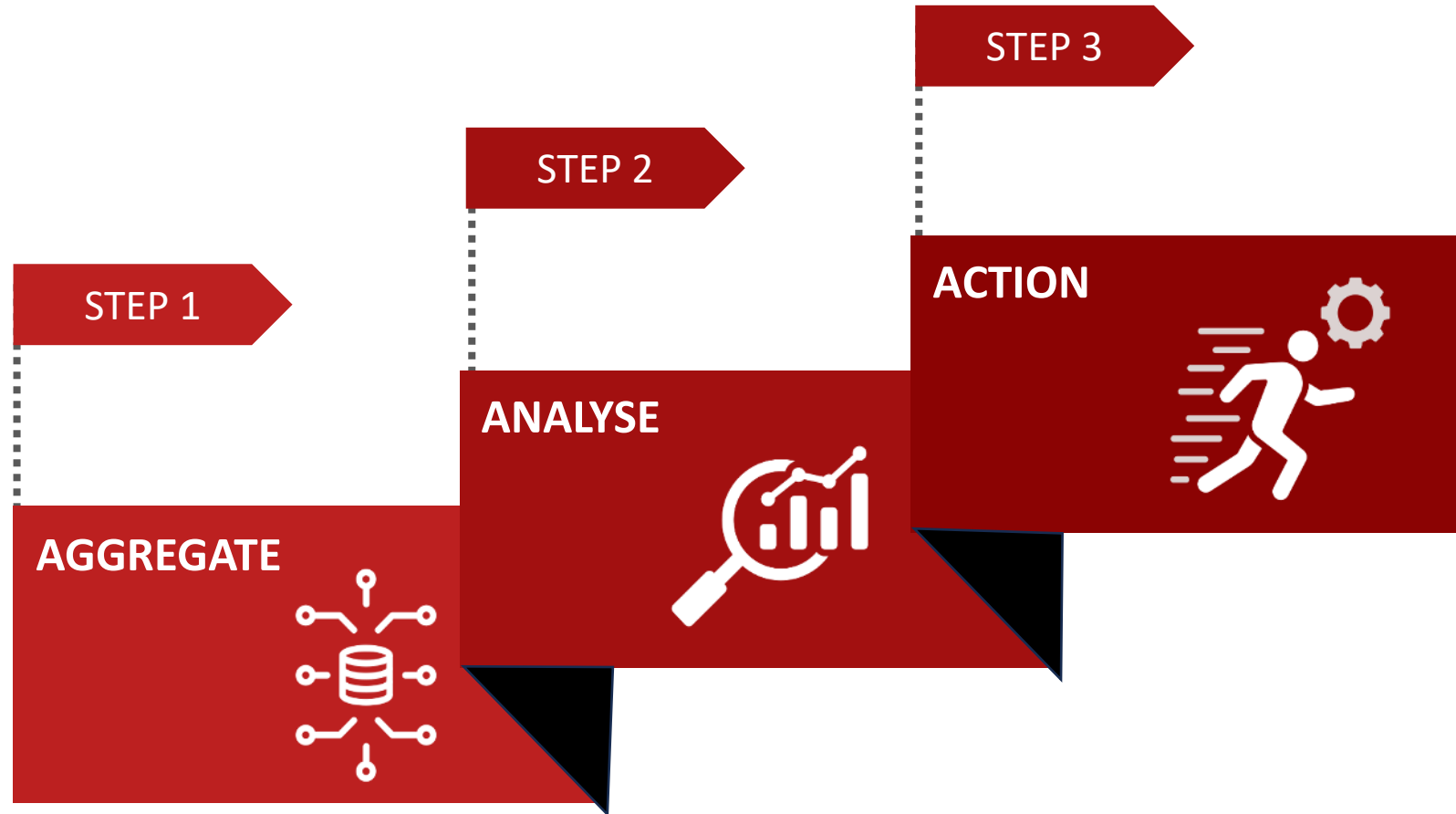
**>25,000 workers
in Malaysia**

Beginning of a crisis.....



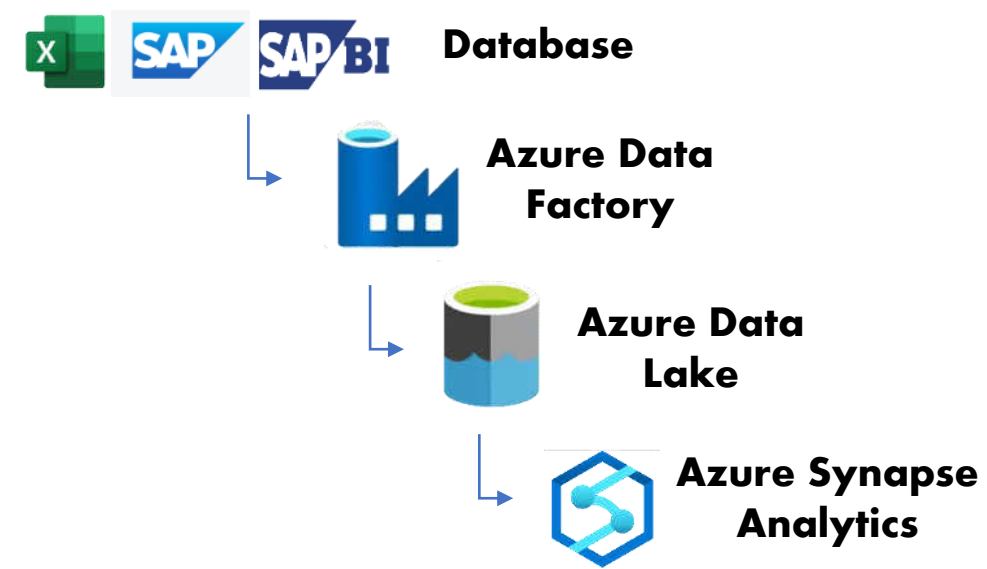
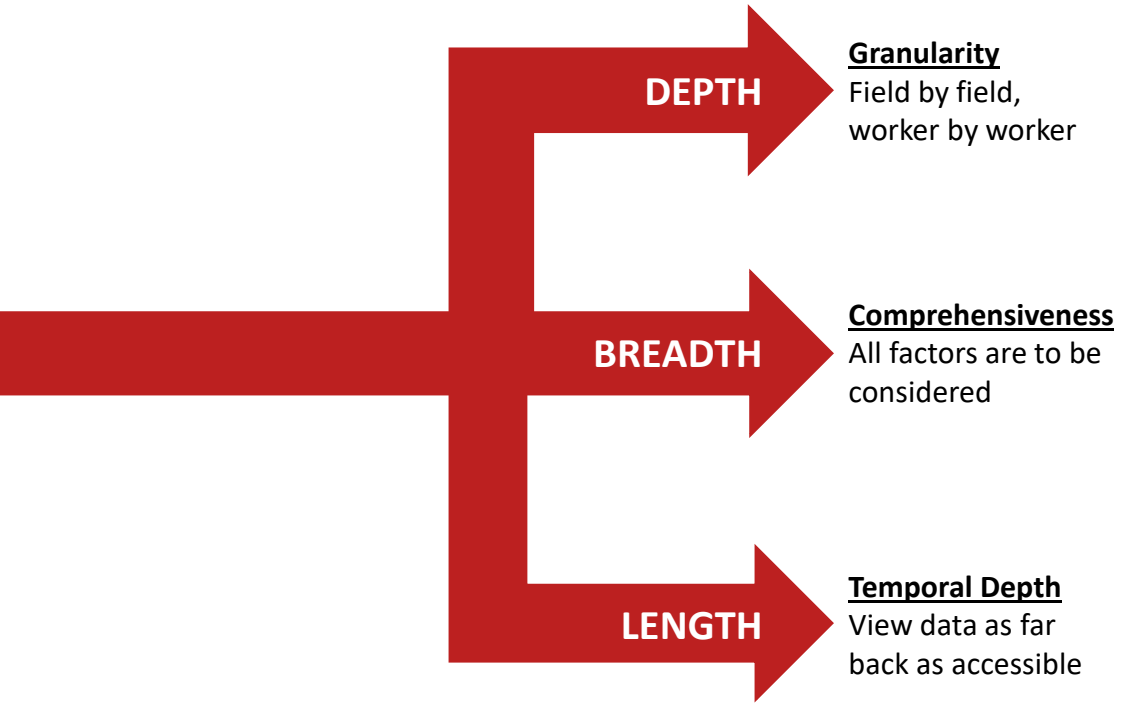
**What Began as a Crisis Became the Catalyst for
One of Our Most Profound Transformations..**

Data at the centre of the 3-step turnaround strategy to manage risk





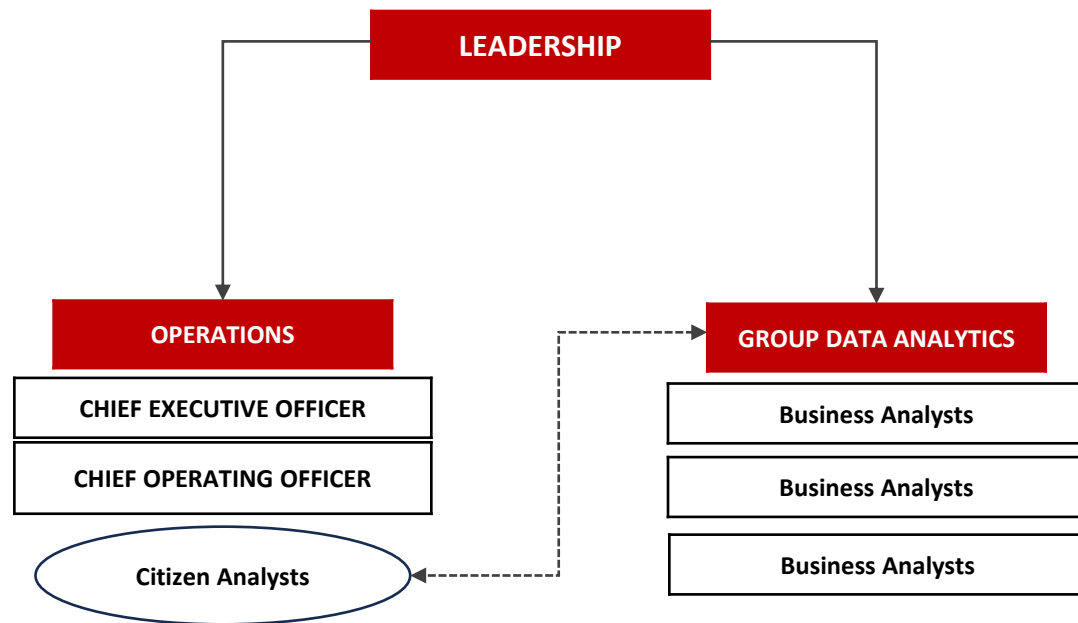
Data Aggregation Dimensions



**Centralised
Dashboard**

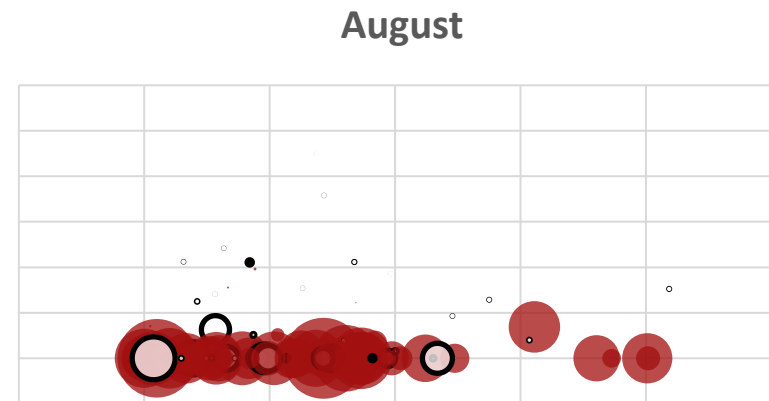
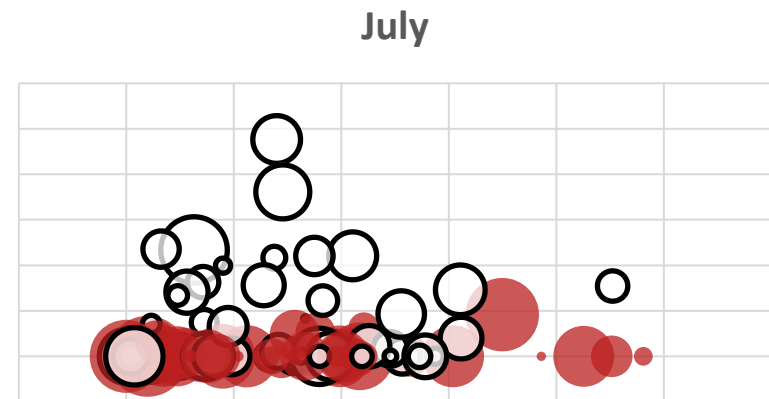
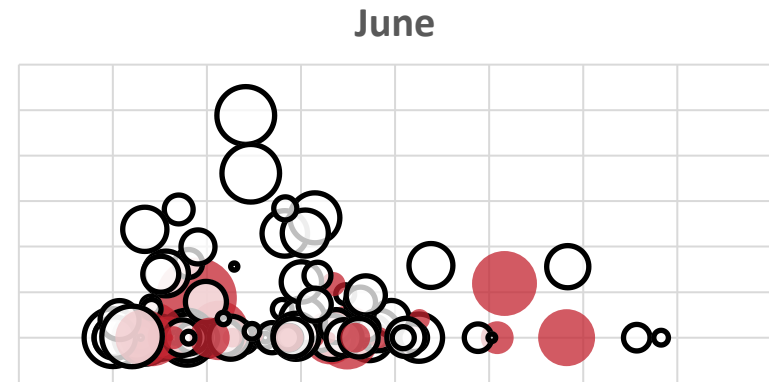


Root Cause Identification



HOW?

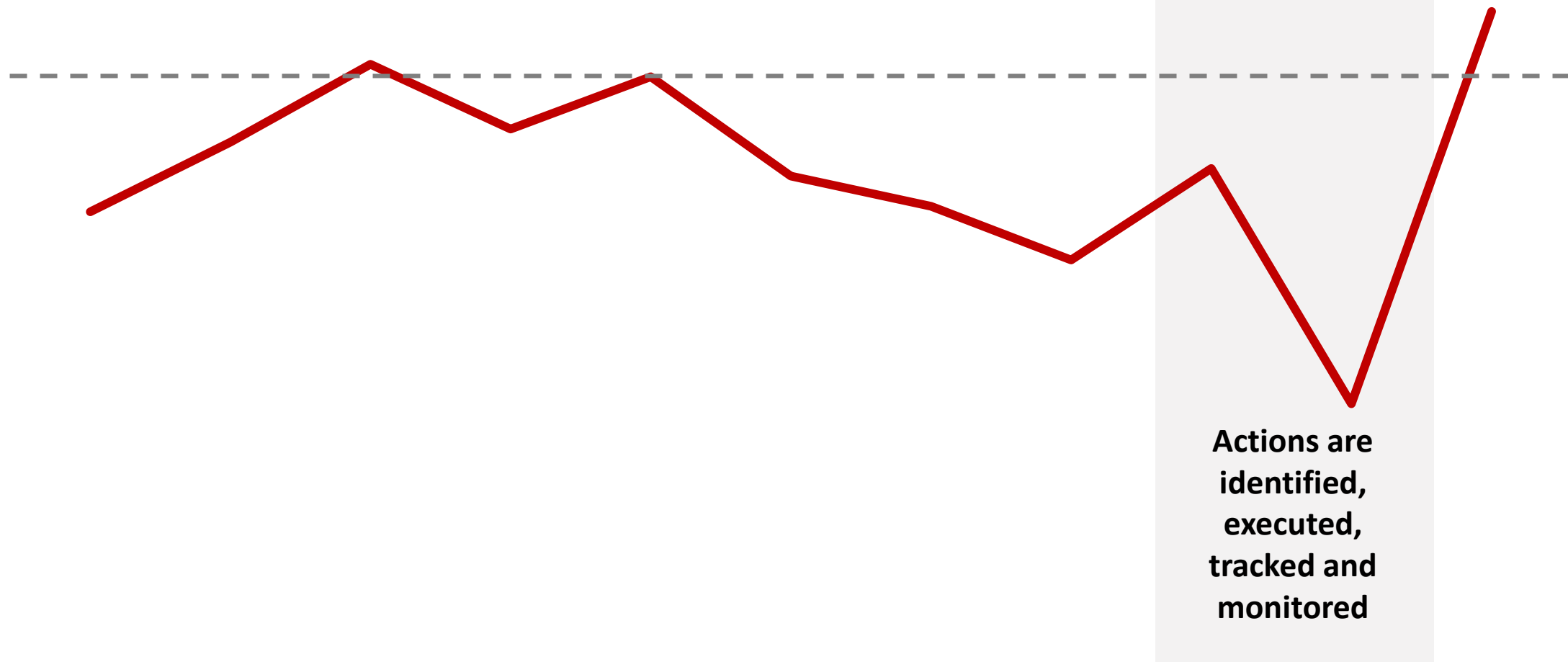
- HQ Analysts dedicated to deep dive through data and provide actionable insights to Operational Managers
- Citizen Analysts parked within Operations to conduct analysis
- Created self-service analytics tool to allow Operational Managers to self identify root cause of underperformance





Crafting, Executing and Monitoring Targeted Action Plans

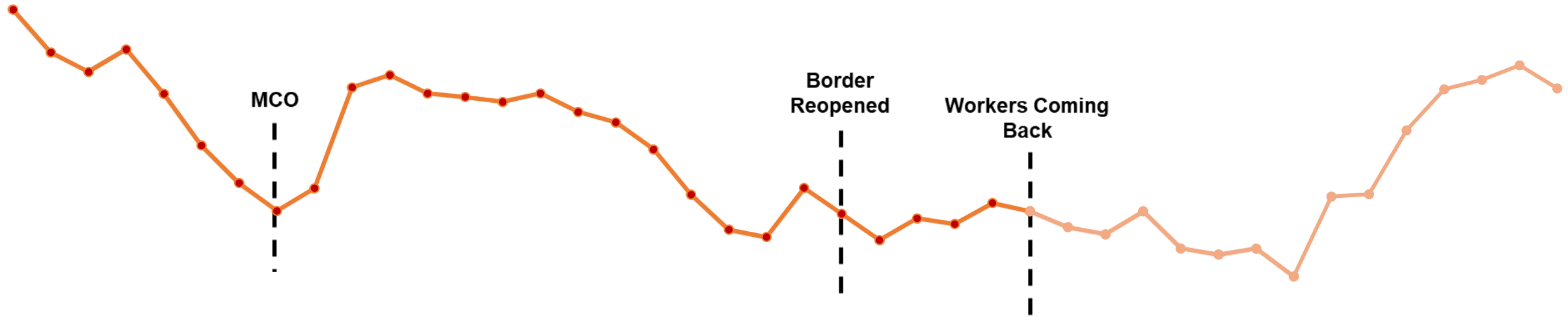
Performance Factor: Freshness



Outcomes from Data Driven Decisions



Performance Metrics: Yield



After workers came back, Operational Managers took **different approaches** to recover from disruption

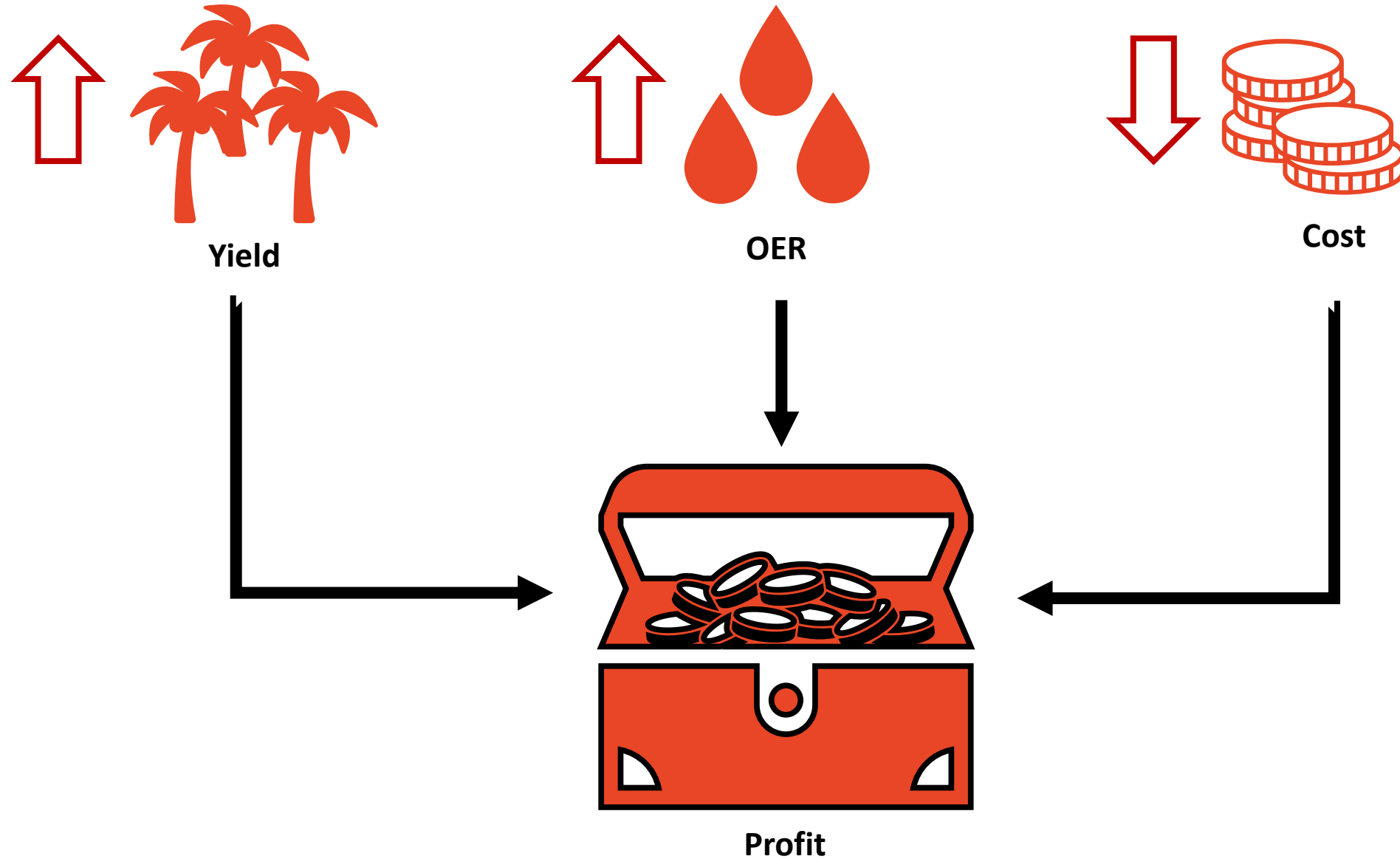


Management **implemented SOP based on data** that showed clearing maintenance backlogs led to faster recovery than other interventions



Yield moved up 90% from the all time low to a 3 year high **within 6 months**

From crisis to cash



Critical Success Factors

1. Clear Business **Objectives**
2. High-Quality **Data Governance**
3. Executive **Sponsorship**
4. Strong Analytics **Culture**
5. **Continuous Learning**
6. Robust **Tech** Stack
7. **Security** & Privacy Tools





Human Touch in Data & AI

- **Essential Human Interpretation**
- **Human Judgment Drives Impact**



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THANK YOU

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-  ierp_official