

Driving Sustainability through Digital Scaffold Health and Compliance Monitoring

Harnessing Digital Inspections to Enhance Scaffold Safety, Reduce Risk, and Promote Sustainable Compliance





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Comprehensive additional information is available on our website: www.sasol.com

These statements may also relate to our future prospects, expectations, developments and business strategies



Sustainability Starts with Safety



Scaffolding

- Enables safe, stable access for elevated work
- Prevents falls, injuries, and project delays
- Essential for both construction and petrochemical operations
- A foundation for moral, legal, and sustainable safety

The Challenge

- Limited visibility across multiple scaffold sites
- Gaps in compliance and resource tracking reduce efficiency

The Opportunity: Spatial Digital Systems

- Provide real-time visibility of scaffold conditions
- Enable targeted risk mitigation in high-risk zones
- Create geospatial audit trails for continuous compliance
- Support optimized planning and resource allocation

Sustainability Impact

- **People:** Safer workplaces
- **Planet:** Reduced waste and environmental footprint
- **Performance:** Data-driven efficiency and resilience

By harnessing digital and spatial technologies, scaffold safety evolves from a compliance task to a sustainability driver — protecting People, Planet, and Performance

Background



Business problem:

- Manual scaffold inspections are time-consuming, inconsistent, and prone to error.
- Limited visibility into *where* scaffolds are located across complex petrochemical sites increases safety risks and non-compliance.
- Paper-based records hinder auditability, real-time decision-making, and geospatial mapping of scaffold health status.

Request from business:

- **Improve visibility:** Centralised monitoring of scaffold locations and inspection statuses.
- **Go digital:** Replace paper-based inspections with a spatially enabled system.
- **Ensure compliance:** Align with SANS 10085-1200 (Sec. 12.2) to reduce audit findings.

AIM: To digitalise scaffold inspections with georeferenced data, enabling GIS visualisation, spatial risk prioritisation, and centralised compliance reporting to meet SANS 10085-1200 and reduce audit findings

Business Process Digitalization Approach



End-to-End Digital Workflow



Work Order Creation

Scaffold work orders created by Plant Planners in SAP



System Integration

SAP DB integrated with InspectionOne SQL DB



Field Inspections

Inspections conducted in InspectionOne Mobile (erection, QC handovers, weekly checks)



Database Synchronization

InspectionOne SQL DB integrated with ArcGIS SQL DB via payload packages



Data Processing

SQL views, triggers, and procedures manage inspection messages and generate status/deviation messages



Geospatial Visualization

ArcGIS Pro used to create maps showing scaffold statuses and locations

SAP

SAP



InspectionOne



SQL DB



ArcGIS



Dashboard

Scaffold Health Status Dashboard View



Scaffold Health Status Dashboard

Is Scaffold Safe?

No

Yes

Not Dismatled

1

Red Tagged

Overdue for Inspection

11

12 Months

0

Long Standing

Due for Inspection

0

6 Months

0

Long Standing

Active Scaffolds

6

Scaffold work order list

057TK101A:

00802111334

056PSV-1B097-R1:

008012366804

056PSV-1B097-R1:

008012366805

U56-FWSS-224:

008041773217

058TK101A:

00802111335

056PSV-1B097-R1:

008012366999

Conclusion



Solution

- SAP planning workflow integrated with scaffold inspections
- Geospatially enabled inspection platform integrating scaffold data with site maps and plant layouts
- Location-based tracking of scaffold health, inspection history, and compliance status
- Real-time dashboards & GIS visualizations to pinpoint unsafe scaffolds and prioritize interventions

Benefits

- **Protecting lives and fostering a proactive safety culture:** Targeted risk mitigation in high-risk operational zones
- **Reducing environmental impact through smarter operations:** Spatial planning ensured efficient use of site infrastructure
- **Improved compliance** with geospatial audit trails of inspection activities
- **Driving operational excellence through digital innovation:** Digital systems enabled predictive safety and long-term sustainability tracking

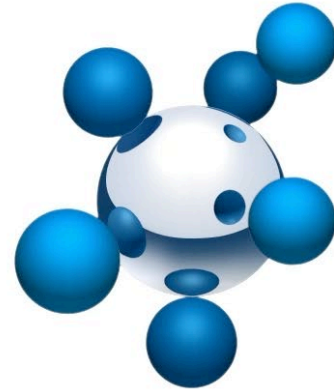
Challenges & Future Work

Issues

- Proprietary system integration
- Large-volume scaffold data
- Change management hurdles

Opportunities

- 3D plant models for scaffold visualization
- Expand platform across multiple sites
- Advanced dashboards with compliance and efficiency analytics



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