Work Package 5.1

VI Information Stream Analysis

Vehicle Interaction Control Improvement Project

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| WBS Parent | 5. Leveraging Performance (Phase 5) |
| Work Package | 5.1 VI Information Stream Analysis5.1.1 Asset performance data map5.1.2 Dispatch system logistics data map5.1.3 Proximity Detection interaction map5.1.4 Operator performance map5.1.5 Asset and personnel location data map5.1.6 Output map of other data streams5.1.7 Update of Site Functional Performance (FP) Scenario review5.1.8 Update site analysis and reporting requirements |
| Package Owner | Site or Company Digital Transformation Project Manager |
| Owner Organisation | Your Company |
| Participants | Project manager, project team, experienced operations personnel, site technical personnel, experienced maintenance personnel, technology provider support personnel, digital strategists, site and divisional HSE personnel. |
| Capability Required | Oversight by senior operations, maintenance, and technical personnel. |
| Description | Site and companies who adapt and apply the Vehicle Interaction Control Improvement Project Guide resources have a primary focus on improving control effectiveness. Improvement projects involve enhancing existing controls and can include deploying new controls that may be based on technology. The process begins with a review and digitisation of baseline performance that is maintained through the project and into production. The performance baseline can be leveraged to maintain and improve performance based on:* Improved monitoring of existing control status
* Capture and analysis of existing data streams e.g. machine performance monitoring, operational models etc.
* The introduction of new collision avoidance technology
* Aggregation of this information to prepare information to assist decision makers at multiple levels to improve and maintain vehicle interaction controls.

The process for leveraging performance begins with identifying the information and presentation style that will assist decision makers at each level and then considers the data required, refresh rates, thresholds for reporting, analysis algorithms, logging etc.  |
| Completion State | **A performance road map summary of information required for accurate, timely and comprehensive performance reporting for decision makers at multiple levels.** **A summary of requirements for work process status monitoring, early drift detection, with analysis and integrated reporting at task, supervisor, site, and company levels.****An assessment of current information streams and identification of those required to deliver to the performance road map.** **Alignment with site and company digital strategy e.g. digital twin development** |
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**References**

* Outputs from WBS work packages:
	+ 2.6 VI Control Prefeasibility Option Analysis
	+ 3.3. User Functional Performance Requirements
	+ 3.5 Operational Integration Plan
	+ 4.4 Updated Site User Requirements
	+ 4.5 Operational Integration Plan

**Notes**

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