Work Package 3.1

VI Improvement Options Feasibility Scoping

Vehicle Interaction Control Improvement Project

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| WBS Parent | 3. VI Control Enhancement (Phase 3) |
| Work Package | 3.1 VI Improvement Options Feasibility Scoping  3.1.1 Design option scope  3.1.2 Operate option scope  3.1.3 React option scope |
| Package Owner | Project Manager |
| Owner Organisation | Your Company |
| Participants | Project Manager, Project Team, experienced operations personnel,  site and divisional HSE personnel, engineering and technology leaders, commercial personnel. |
| Capability Required | Knowledge and experience in operationally integrating complex technology projects. |
| Description | Feasibility scoping is assumed to be a core management competency for the sites and companies who adapt and apply the Vehicle Interaction Control Improvement Project Guide resources.  It is expected that the Project Manager will work with experienced personnel and apply existing site and company processes to further develop the Use Case for each of the shortlisted options, or combination of options from Work package 2.6 VI Control Improvement Prefeasibility Options Analysis for senior management review.  Process steps:   * Use the required site format to prepare each Use Case, if necessary, include relevant prefeasibility analysis outputs from work package 2.6 as an appendix * Summarize the practicality and certainty of outcomes and include where possible examples of where the approach has been applied elsewhere * Estimate the time to effectively implement * Consider the ease of implementation e.g. workforce acceptance * Impact of control effectiveness when the option is operationally integrated, e.g. consider business inputs and credible failure mode links * Impact on existing controls and potential for creating new hazards and how these will be managed * Integration with future technology deployments * Integration with the site and company innovation strategy e.g. greater application of technology * Costs – direct and indirect |
| Completion State | **A site and company process to assess the effectiveness of existing vehicle interaction controls and shortlist site relevant improvement opportunities that is supported by and connected to the site VICE Baseline.**  **A set of scoped vehicle improvement projects for management review and approval.** |
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**References**

* Current Site Vehicle Interaction Control Effectiveness Baseline
* [EMESRT Body of Knowledge](https://emesrt.org/vici-bok/)
* [ICMM Capable Solutions Principles and Success Factors](http://www.emesrt.org/wp-content/uploads/ICMM_PrinciplesSuccessFactors.pdf)

**ICMM ICSV – Vehicle Interaction Capable Solution definition.**

“A capable solution delivers better vehicle interaction control performance by improving the quality of decision-making from task execution through to mine operations and design.

A capable solution considers relevant aspects of the operating environment, production requirements and equipment design.

Where technology is a part of a capable solution, it is operationally integrated.”

**ICSV VI working group in October 2022**

**Notes**

Cross reference WBS 2.6 VI Control Improvement Prefeasibility Option Analysis

The scoping assessment should also identify potential control category:

* **Design** vehicle interaction control improvements e.g. light vehicle segregation, parking drive throughs, training process upgrades.
* **Operate** vehicle interaction control improvements e.g. hierarchy road rules, improved support materials, integrated performance monitoring with feedback at multiple levels.
* **React** vehicle interaction control improvements e.g. in vehicle cameras, light vehicle speed monitoring, technology to assist with fatigue state monitoring supported by supervisor interventions.

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**Future recommendations and feedback**

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