

ORGANISATION SIMULATION CAPABILITY MATURITY (OSCM)

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Level		Strategy	Core Elements					Foundation	
		Strategy Management and Governance	Process (Workflow)	Methods	Tools	Models	Data	People and Organisation	Computing Infrastructure
#	Criteria	<i>Comprehensive, aligned, championed, supported funded, implemented.</i>	<i>Defined, Aligned, Shared, Effective, Flexible, Efficient, Fast, Managed</i>	<i>Capable, Verified, Aligned, Comprehensive (Coverage), Modular, Common, Connected, Efficient, Robust, Credible, Futured</i>	<i>Strategic, Capable, Accurate, Verified, Aligned, Fast, Efficient, Useable, Compatible, Connected, Min Complexity, Min Cost, Maintained, Reliable</i>	<i>Strategic, Appropriate, Representative, Accurate (Fidelity), Aligned, Comprehensive, Efficient, Shared, Planned, Managed, Traceable, Maintained, Validated</i>	<i>Accurate, Appropriate, Applicable, Validated, Consistent, Timely, Aligned, Complete, Accessible, Shared, Standardised, Owned, Planned, Managed</i>	<i>R&R Defined, Ownership, Objectives, Flexibility, Capacity, Skills, Training & Devpt, Skill Accreditation, Satisfaction, Collaboration</i>	<i>Capacity, performance, responsiveness, reliable, flexibility, cost effective.</i>
4	Systemic/Innovator Certification Level Governed (90-100%) Maintained Continuously Improved Futured	Comprehensive Improvements Implemented Governed. Maintained.	Fully defined and integrated Efficient and effective Aligned across organisation.	Fully defined and validated High confidence. Robust Maintained.	Fully implemented strategy. Aligned Covers all physics Fully connectivity. Minimum customisation. Fully maintained	Implemented Strategy Aligned model plan Standards and conventions. Model management	Data strategy Standards and conventions. Verified source Data Analytics employed. Data management system.	Clearly defined R&R M&S skills assessed and met Training plan	Aligned Infrastructure Strategy Capacity and performance Responsive Flexible & Maintained
3	Embedded High Confidence Fully Implemented (75-90%) KPI Monitored Actions Complete Goals Achieved	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track	Aligned Improvement Roadmap Improvement projects on track
2	Comprehensive Medium Confidence Established/Aligned (50-75%) Fully Applied Improvement Plan Needs reviewed	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps	Established Improvement projects identified Minor gaps
1	Low Confidence Partial Coverage (25-50%) Partially Applied Actions Identified Improvement Started	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps	Partial Significant gaps
0	Insufficient Poor Confidence Limited Coverage (<25%) Ad-hoc No Plan No KPI	No strategy No vision. Uncoordinated	Poor definition No alignment. Unclear ownership. Significant ad-hoc processes. Inefficient, but unknown cause	Poor definition Lack of coverage Unquantified capability. No account of noise factors. Local solutions In efficient. Not maintained.	No tool strategy. Unaligned local tools solutions. Gaps in physics Unconnected. No multiphysics/optimisation. Significant customisation. Tools not maintained.	No model strategy or plan Models not validated. No standards and conventions. No model sharing or reuse. No Model management. No traceability. Not Maintained.	No strategy, standards or conventions Pedigree not verified. No ownership. Hard to find & consume No Data management system.	No definition of roles and responsibilities. Unclear ownership No objectives for M&S. Skills not assessed. No training plan.	Inadequate capacity or performance. Poor responsiveness, speed. In-flexible. Unreliable. Obsolescent technology. High operating costs.