



PHRONESIM

**ENGINEERING SIMULATION
STRATEGY SOLUTIONS**

MATURITY ASSESSMENT

Element		Strategy	Process	Methods	Tools	Models	Data	People and Organisation	Computing Infrastructure
		Strategy	Process	Methods	Tools	Models	Data	People and Organisation	Computing Infrastructure
Maturity	4	Comprehensive Strategy Accurate / Robust Design Lead Evidenced / Validated Maintained / Governed				Target	Target	Target	
	3	Holistic Strategy Repeatable / Verified Design Critical Implemented Measured / Managed	Target	Target	Target	Assessment	Target	Assessment	Target Assessment
	2	Established Strategy Established Credibility Design Support Planned / In progress Some gaps		Assessment	Assessment		Assessment		
	1	Strategy in Development Building Credibility Research/Scoping Studies Plan in Development Significant gaps	Assessment				Assessment		
	0	Just starting No strategy No evidence No Plan Uncoordinated							

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A maturity assessment can be conducted using the strategy framework or can also utilise other established maturity models.



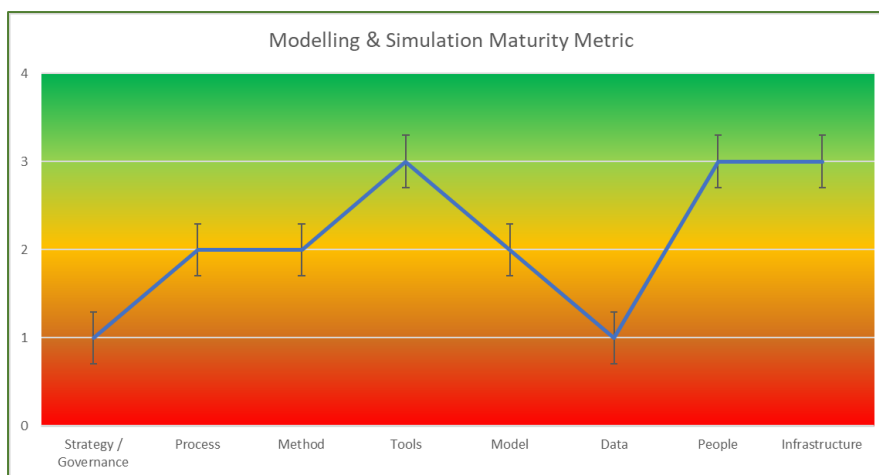
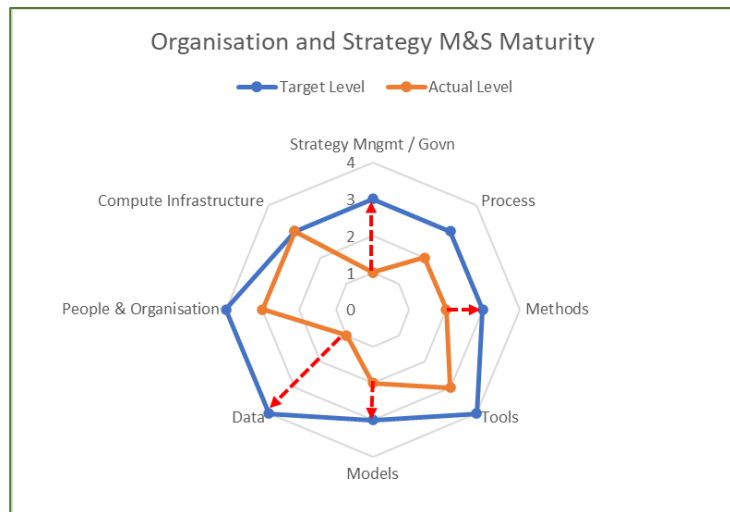
The target level is agreed based on the business goals and specific use case requirements.

The assessment is conducted against established criteria through discussion with key stakeholders and review of evidence.



Gap Analysis

A GAP analysis is then conducted to identify the element, nature and scale of gap. This enables potential improvement actions to be identified and aligned to business needs and goals.



The elements of a Modelling and Simulation must be in the appropriate balance, and its important to remember that the overall capability is only as strong as the weakest link!

Best practice improvement initiatives and actions can then be selected and prioritised to address the gaps, opportunities and business case.

Strategy Element	Actions
Digital Engineering Strategy & Governance	<ul style="list-style-type: none"> Agree Goals for M&S based on business needs. Use a Framework. Measure Maturity. Develop a cross functional strategy. Identify Improvement Actions Implement Key Performance Metrics. Implement a Governance framework.
Process	<ul style="list-style-type: none"> Review current Simulation and Modelling processes across the whole organization. Assess alignment to PD process. Assess Efficiency? Value stream analysis for key process to identify and reduce waste. Identify improvement actions. Review common and bespoke process. Strategy for process management and automation*. (SPDM)
Methods	<ul style="list-style-type: none"> Review requirements Audit current capability. Introduce confidence metrics Identify gaps, prioritize, improvement projects.
Modelling	<ul style="list-style-type: none"> Audit Model requirements and usage. Model Standards and Conventions Opportunities for commonality and sharing. Model Management.
Tools	<ul style="list-style-type: none"> Review requirements. Audit landscape. Capability and efficiency metrics. Assess tool chain connectivity status.
Organization	<ul style="list-style-type: none"> Review M&S organization. Cross functional alignment. Assess current and required skills. Qualification and experience status. Training and development needs.
Data	<ul style="list-style-type: none"> Document data requirements per method and process. Introduce standards for data types, formats, structure, use and management. Consider data management options (SPDM)
Infrastructure and Computing	<ul style="list-style-type: none"> Current and Future requirements. Current structure and capacity. Utilization and operating costs. Review future technology options and opportunities (e.g. Cloud).

From this a Roadmap and Plan can be developed, taking account of the implementation practicalities.

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