The Strategic Role of the Digital Engineering Competency Framework: Insights from the Australian Experience

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Australian Government
Defence

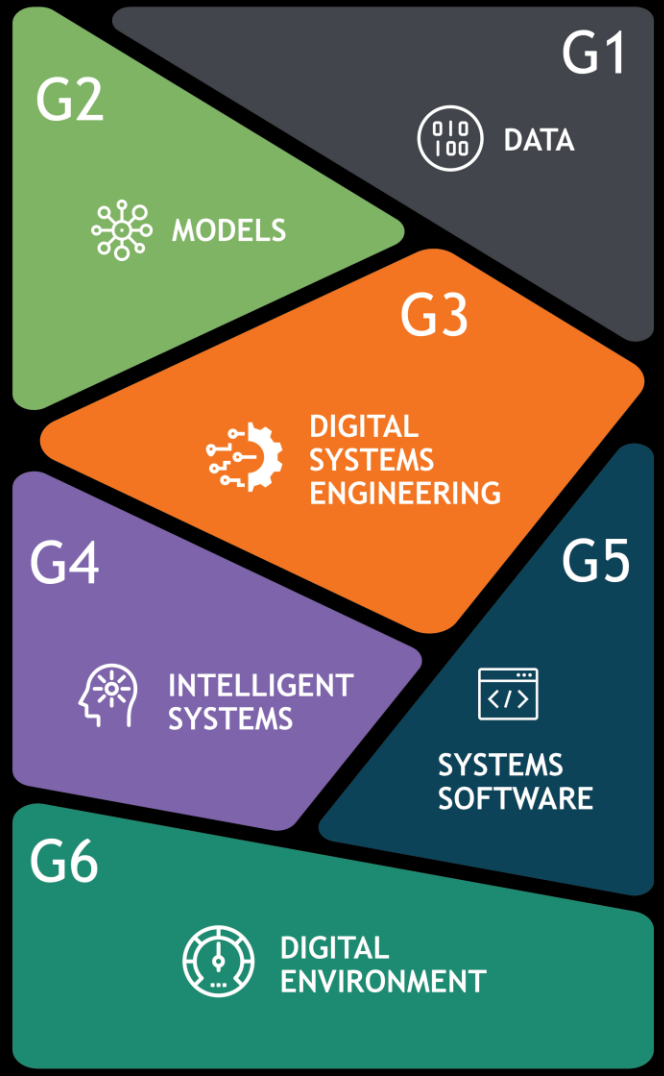
Digital Engineering Strategy

2024



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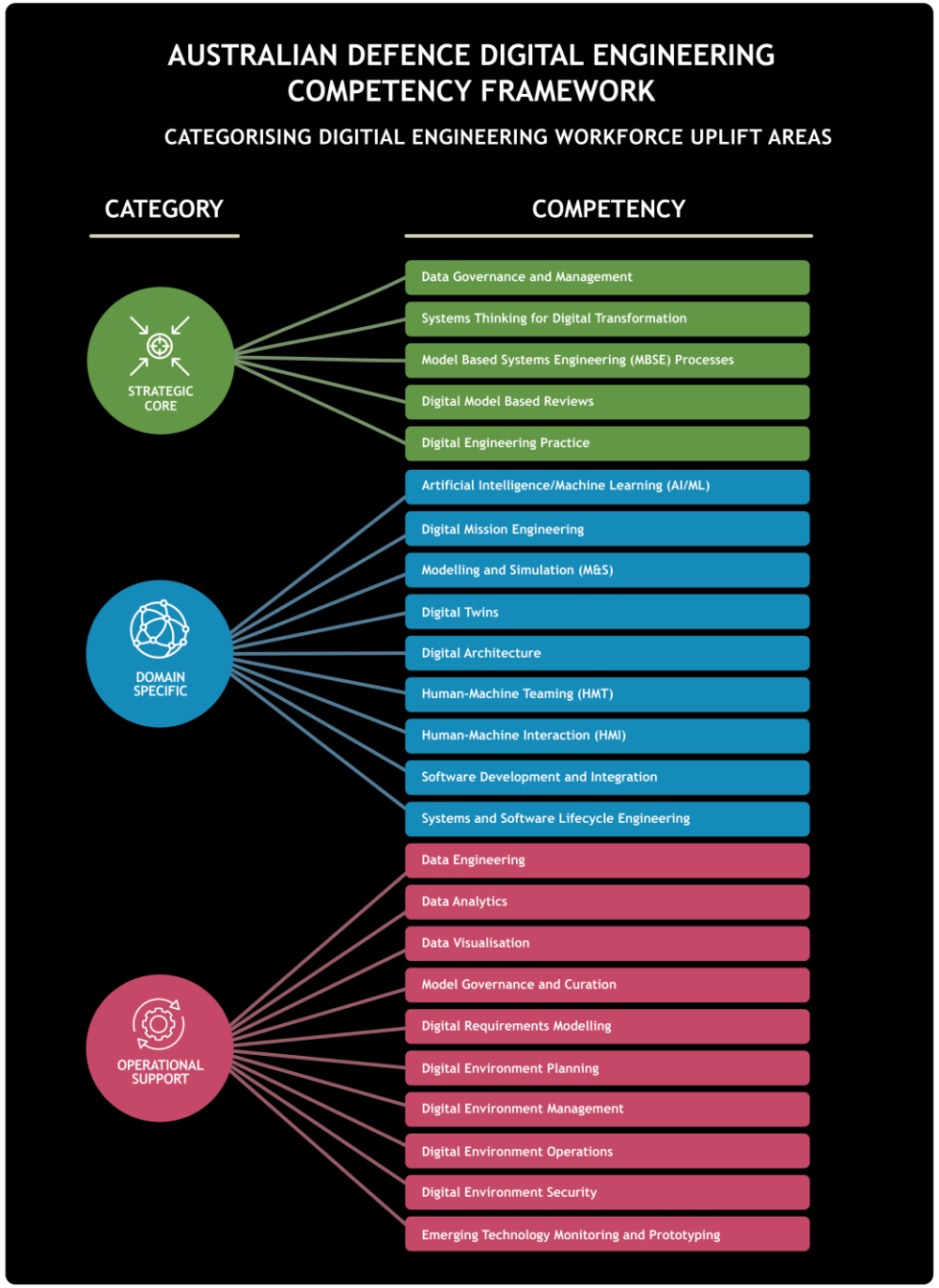
AUSTRALIAN DEFENCE DIGITAL ENGINEERING COMPETENCY FRAMEWORK



GROUPS	COMPETENCIES					
DATA	Data Governance and Management	Data Engineering	Data Analytics	Data Visualisation		
MODELS	Digital Mission Engineering	Modelling and Simulation (M&S)	Model Governance and Curation	Digital Twins		
DIGITAL SYSTEMS ENGINEERING	Systems Thinking for Digital Transformation	Digital Architecture	Model Based Systems Engineering (MBSE) Processes	Digital Requirements Modelling	Digital Engineering Practice	Digital Model Based Reviews
INTELLIGENT SYSTEMS	Artificial Intelligence/ Machine Learning (AI/ML)	Human-Machine Interaction (HMI)	Human-Machine Teaming (HMT)			
SYSTEMS SOFTWARE	Software Development and Integration	Systems and Software Lifecycle Engineering				
DIGITAL ENVIRONMENT	Digital Environment Planning	Digital Environment Management	Digital Environment Operations	Digital Environment Security	Emerging Technology Monitoring and Prototyping	

Key ecosystem actors and their responsibilities

Actor/Responsibility	Policy & Strategy	Standards & Methods	Platforms & Data	Delivery & Operations	Workforce Capability	Assurance & Governance
Policy & Regulatory Bodies						
Sector Framework Owners						
Standards & Professional Bodies						
Platform & Infrastructure Providers						
Owners / Operators						
Delivery Supply Chains						
Education & Training Providers						



DE Learning Portal (Beta version)

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