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MBSE Adoption Methodology Overview
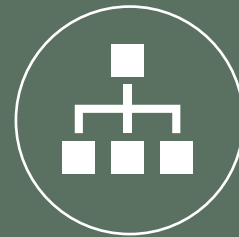
Think Big, Start Small, Scale Fast

Successful MBSE adoption strategies

What a successful MBSE adoption must be…

Strategic

It requires clear goals and objectives, and a course of action that will produce the best results.
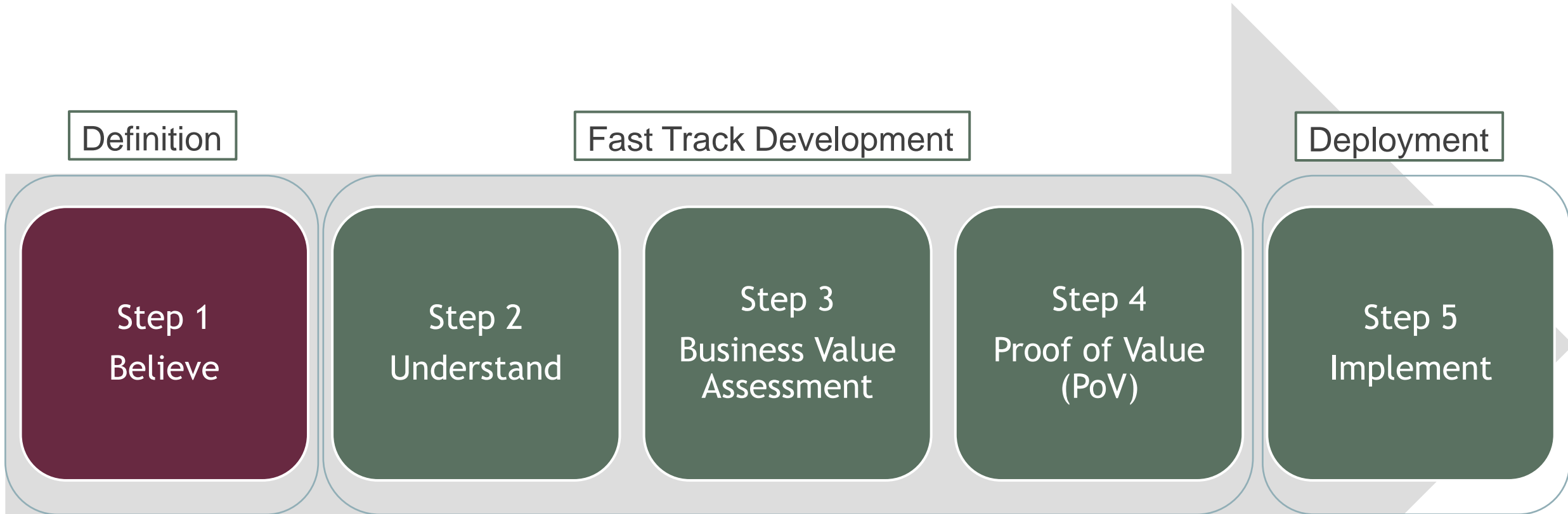
Coherent

An integrated systems model that is coherent and consistent throughout execution of the strategies.

Effective

Produces real value and effects on measurable results/KPIs.

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MBSE Adoption Process

Definition	Fast Track Development			Deployment
Step 1 Believe	Step 2 Understand	Step 3 Business Value Assessment	Step 4 Proof of Value (PoV)	Step 5 Implement

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	Activities	Goals
Step 1 **Believe**	• Business and Technical Meetings	Introduction
Step 2 **Understand**	• Training–Methodology • Training - SysML • Hands on use of MBSE Modelling Tool	Understanding & Enablement
Step 3 **Business Value Assessment**	• Assessment and Value Engagement • Identify existing product for Proof of Value (PoV) exercise	Establish Readiness & Gap Analysis
Step 4 **Proof of Value (PoV)**	• Modeling an existing product • Onsite support • Two to three months duration	Gap Analysis, KPI evaluation
Step 5 **Implement**	• Replicate the success in PoV • Implement for a new project • Expand across the business	Monitor, Assess & Improve

Summary of Activities & Deliverables

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Road Map for implementing MBSE

Initial modelling of existing system/product to establish baseline, assess benefits and prepare for PoV

Establish KPI's to measure results and benefits

Business Value Assessment
- Model existing system in SysML
- Document results
- Measure against KPI's

Skilling up the core team
- Training and mentoring

Implement for new project(s)

Controlled rollout across business

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Benefits
Taken from case studies

10% to 30% cost savings

Improved product quality

Model centric versus document centric
- More easily identify errors in design
- Generating artefacts and model re-use
- Full traceability & search to attribute level
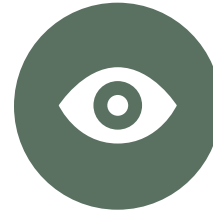
Consistent language and real time visibility across models and projects

Increase productivity and decrease complexity

Improved collaboration

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Success Factors

Considerations

Goals		
	Start Small	Select a set of important and/or high priority processes that satisfy the needs of the business. Will be actioned with assistance from MEMKO process consulting team.
	Start Simple	Select the level of detail that is appropriate to the current organisational readiness and capability.
	Establish Credibility	Establish performance criteria that can be easily understood.
	Platform for Growth	Ability to expand in terms of additional processes, detail, capability and users without causing incompatibility or organisational fatigue.
	Adapt to the needs of the Business	Ability to support processes that are widely applicable and capable of adaption.

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About MEMKO

MEMKO offers industry specific products, technology, training and engineering solutions to assist and support customers in advanced and highly regulated industries. Our staff have extensive engineering, quality, manufacturing and management capabilities and we can support your business in matters relating to:

Engineering | Technology | Training

- Head Office – Melbourne
- Branch Offices – Sydney, Bangalore
- 44 FTE's includes engineering experts, industry subject matter experts and software consultants
- MEMKO is DISP Member – L2
- ISO27001 expected in June'22
- Corporate member of Engineers Australia-Systems engineering, AIDN, AMTIL

2007   MEMKO commences as a Consulting Business

2009   Appointed Dassault Systèmes Value Solutions Partner

2014   ISO 9001/AS9100 Quality Certified

2015   Commenced operation in India to expand PLM market, capability and capacity

2017   Appointed Dassault Systèmes Certified Training Centre

2018   Appointed to the Defence Support Services Panel

2020   Appointed Dassault Systèmes CS&I Partner

2022   ISO 27001 Security Certification

Interested in learning more?

Contact MEMKO for a free, no obligation appraisal of the benefits of adopting MBSE into your organisation

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