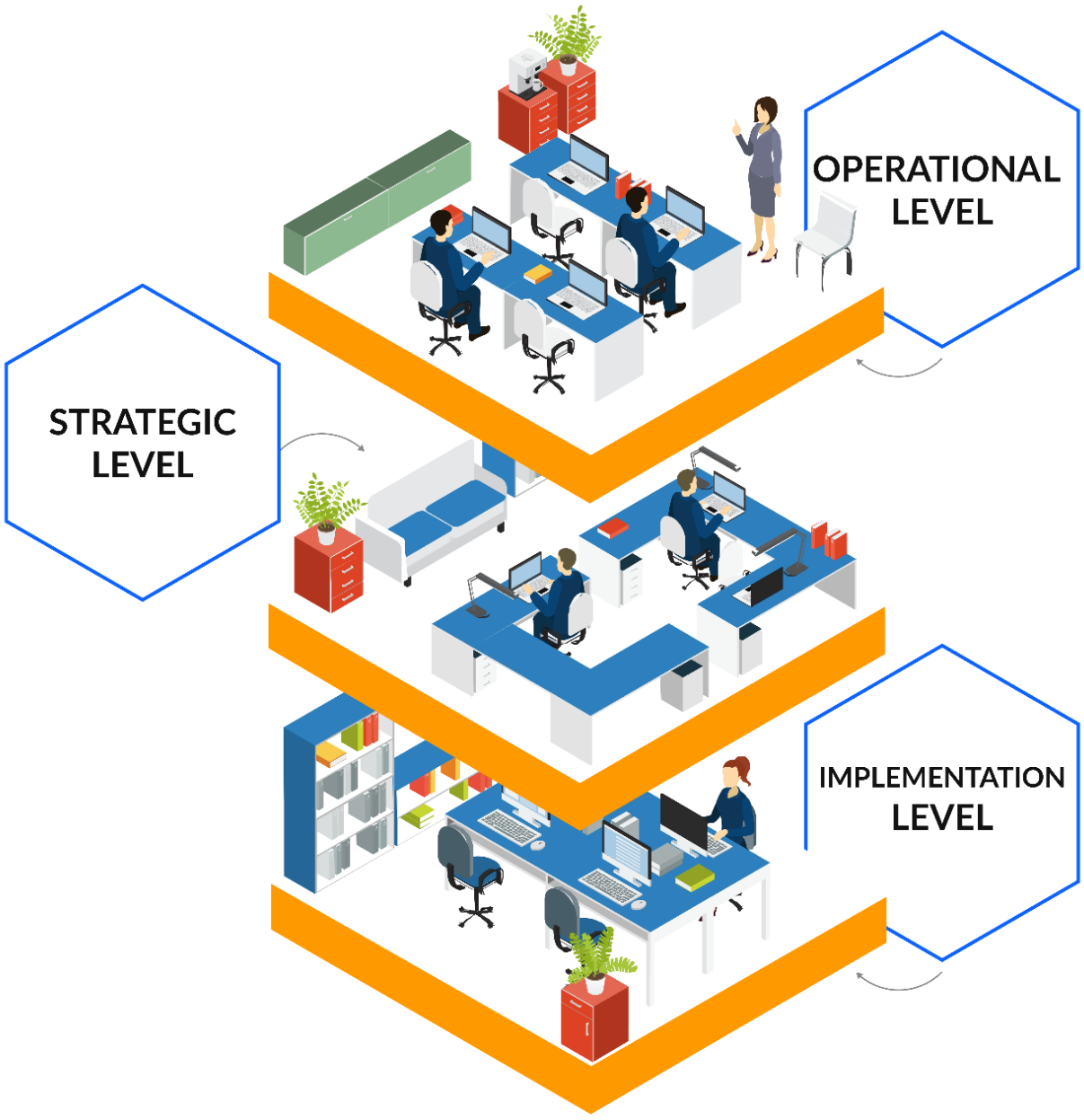
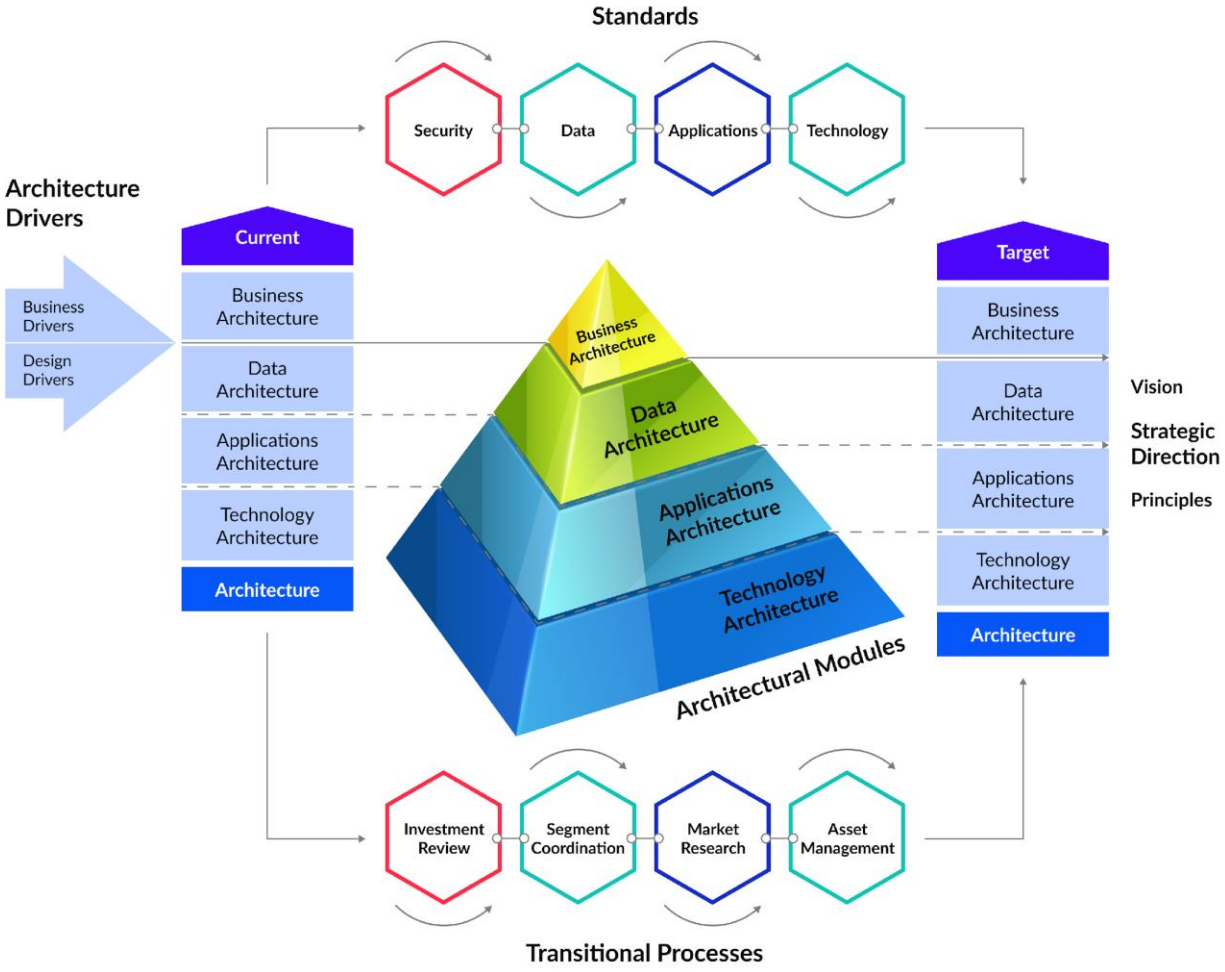
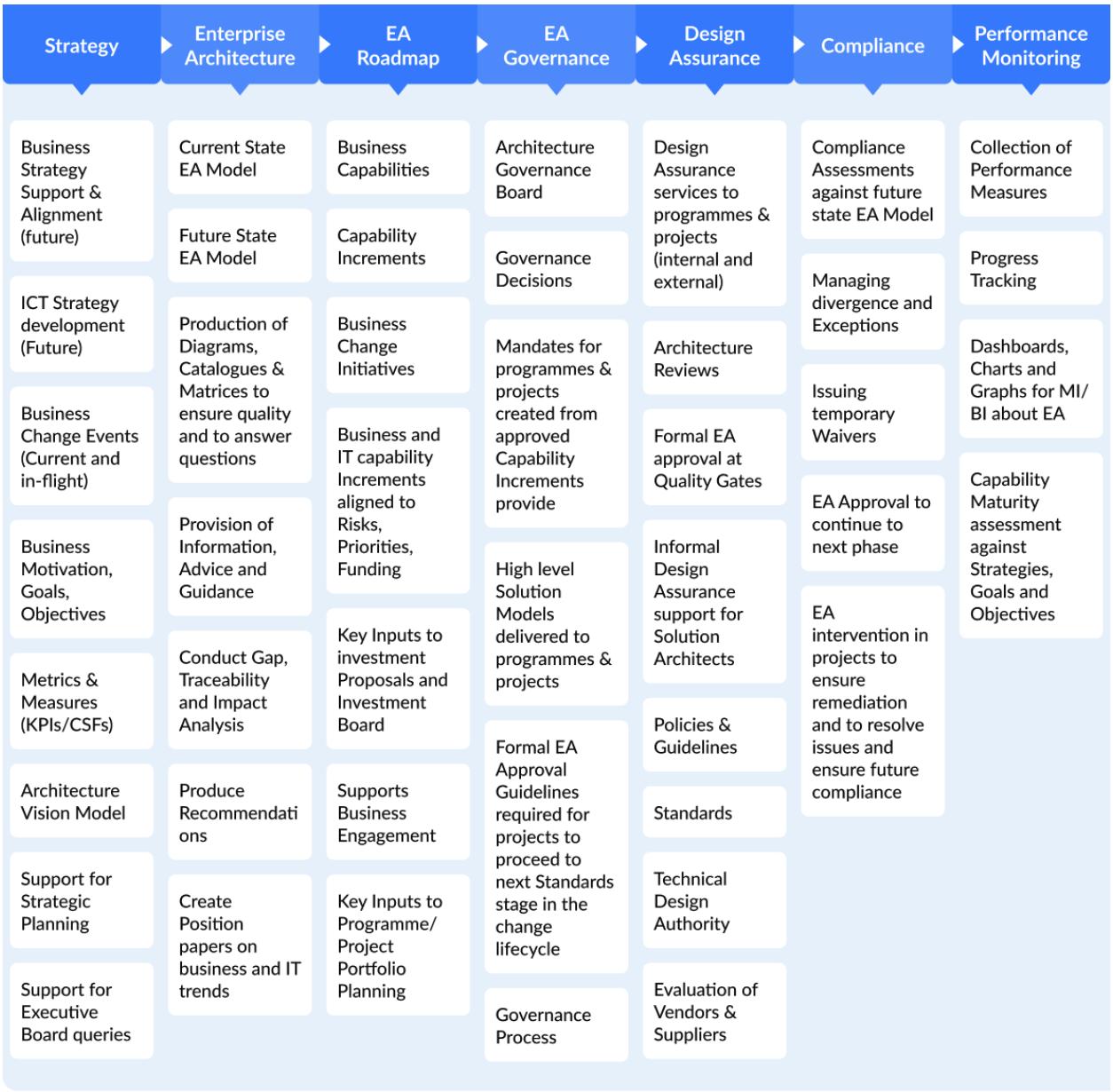
Chapter 1: Core Foundation for Building an Enterprise IT Architecture



Chapter 2: Defining Core Foundation and How to Get It

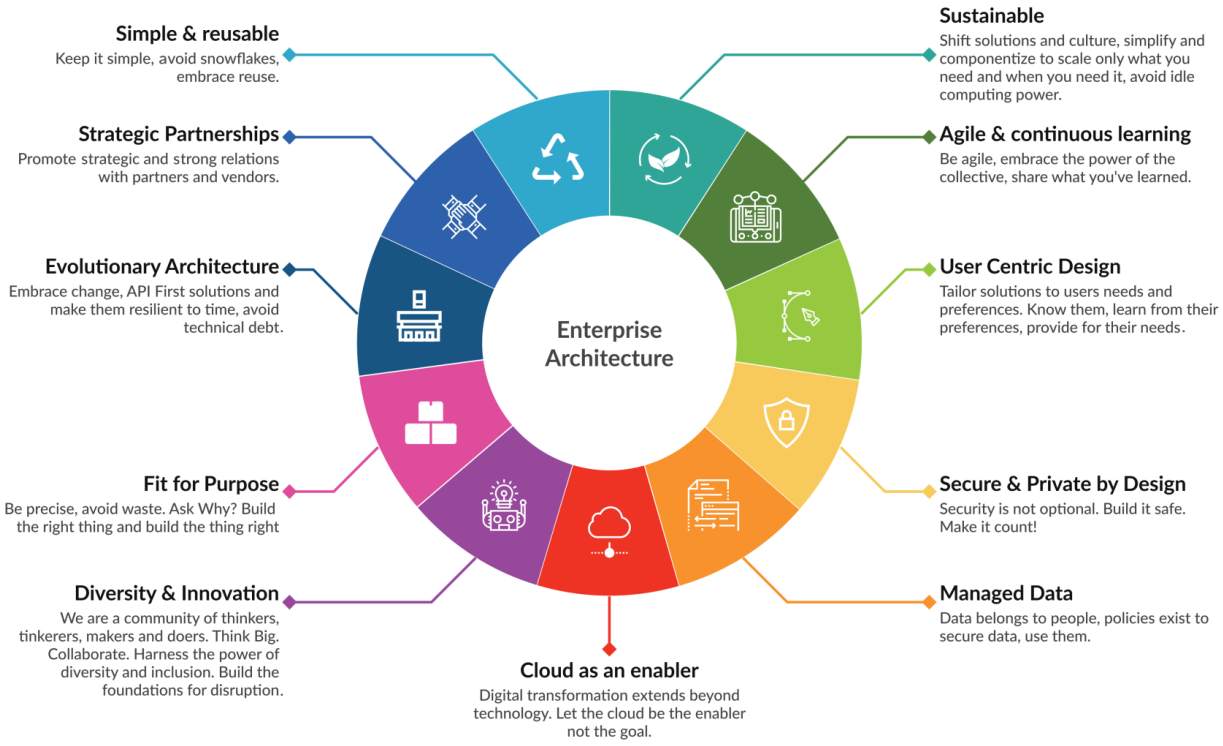


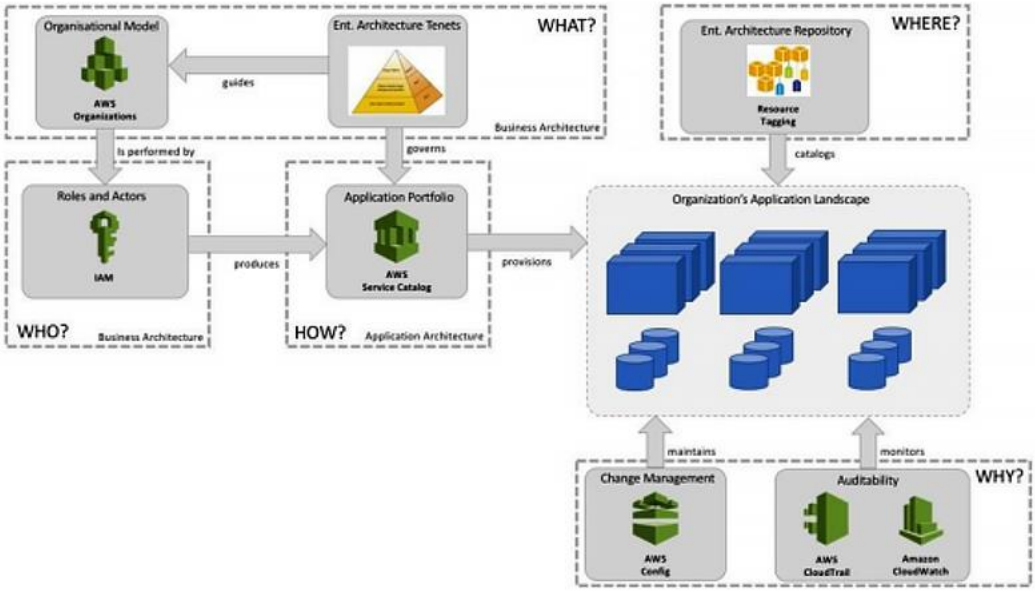

Strategy
Enterprise Architecture
EA Roadmap
EA Governance
Design Assurance
Compliance
Performance Monitoring
Business Strategy Support & Alignment (future)
ICT Strategy development (Future)
Business Change Events (Current and in-flight)
Business Motivation, Goals, Objectives
Metrics & Measures (KPIs/CSFs)
Architecture Vision Model
Support for Strategic Planning
Support for Executive Board queries
Current State EA Model
Future State EA Model
Production of Diagrams, Catalogues & Matrices to ensure quality and to answer questions
Provision of Information, Advice and Guidance
Conduct Gap, Traceability and Impact Analysis
Produce Recommendations
Create Position papers on business and IT trends
Business Capabilities
Capability Increments
Business Change Initiatives
Business and IT capability Increments aligned to Risks, Priorities, Funding
Key Inputs to investment Proposals and Investment Board
Supports Business Engagement
Key Inputs to Programme/ Project Portfolio Planning
Architecture Governance Board
Governance Decisions
Mandates for programmes & projects created from approved Capability Increments provide
High level Solution Models delivered to programmes & projects
Formal EA Approval Guidelines required for projects to proceed to next Standards stage in the change lifecycle
Governance Process
Design Assurance services to programmes & projects (internal and external)
Architecture Reviews
Formal EA approval at Quality Gates
Informal Design Assurance support for Solution Architects
Policies & Guidelines
Standards
Technical Design Authority
Evaluation of Vendors & Suppliers
Compliance Assessments against future state EA Model
Managing divergence and Exceptions
Issuing temporary Waivers
EA Approval to continue to next phase
EA intervention in projects to ensure remediation and to resolve issues and ensure future compliance
Collection of Performance Measures
Progress Tracking
Dashboards, Charts and Graphs for MI/ BI about EA
Capability Maturity assessment against Strategies, Goals and Objectives

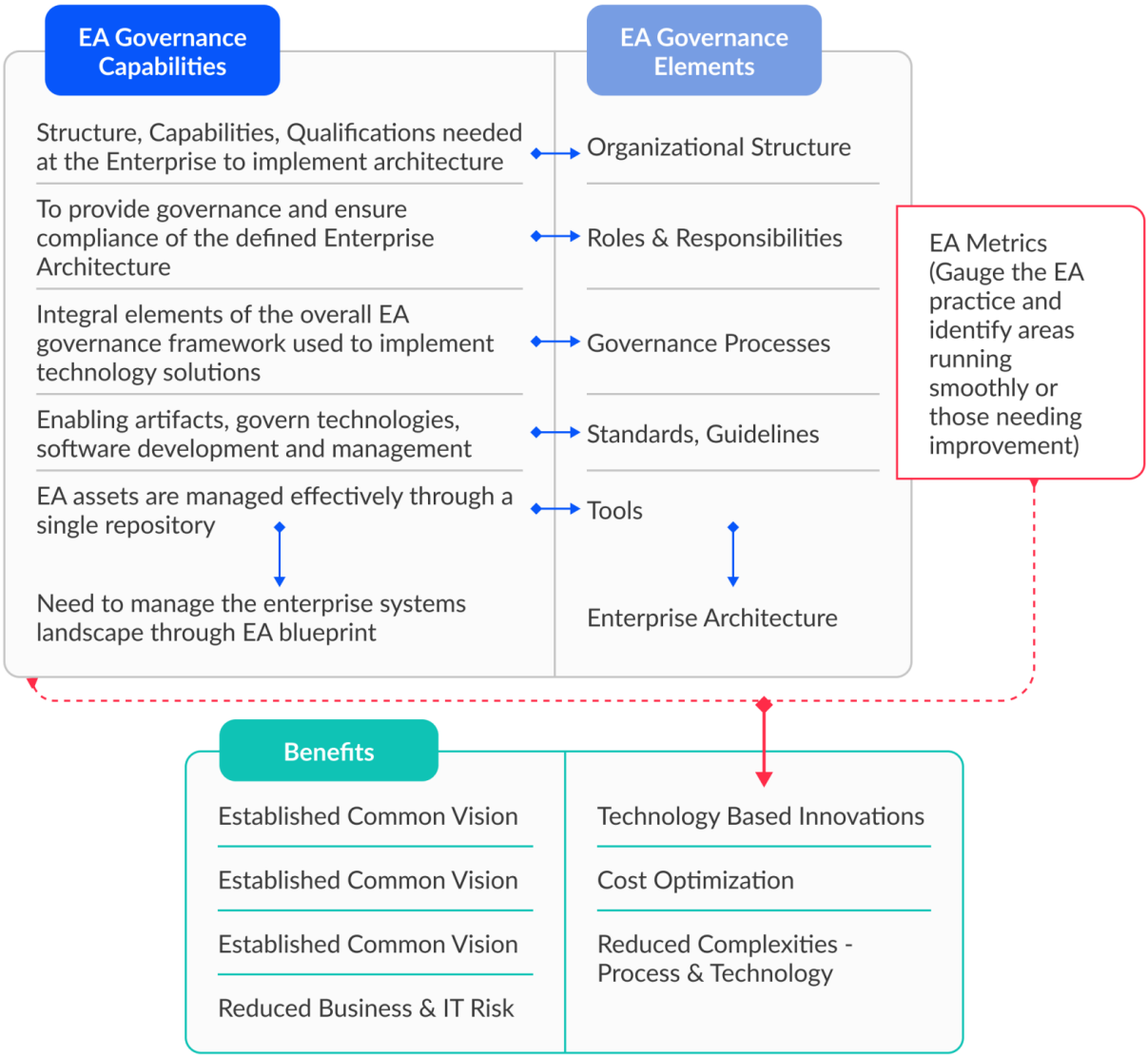
Who is an enterprise architect?	• Software architect who oversees the complete system architecture, business processes, and IT infrastructure • Plays a major role in reducing complexity associated with digital transformations and establishing rules and processes around technology usage
What is the role of an EA in digital transformation?	• Execute digital programs, such as cloud computing and online business models, and simplify and modernize a company's IT system • Role is to reduce complexity to a minimal level so that the company can capitalize on digital technologies, develop product-development methodologies, and respond to customers' needs more quickly
What steps can corporations take to empower EAs?	• Assign more responsilbity to EAs and encourage implementation of their policies and guidelines • EA team to routinely provide business units with technology costs of any important decisions taken by them • EA to gain a direct line of communication to decision makers

Key Business Priority	Enterprise Architecture Value
Business transformation	Assert business goals, redesign business models, assess impacts, design and communicate future, prioritize and plan changes, and accelerate requirements.
Strategic planning	Provide a business and enterprise framework for objectively prioritizing investments within and across portfolios based on strategic alignment and rationalization.
Customer experience	Provide root-cause analysis for experience results, inform experience decision making (e.g., priorities, available capabilities), assess impacts bidirectionally (i.e., experience and business/technology environment), and translate experience into action.
Agile execution	Provide big-picture direction and common language, focus execution teams on the right enterprise priorities, and accelerate requirements.
Resource optimization	Provide a business and enterprise lens for optimizing resources (e.g., processes, system applications) for cost/simplification reasons and assist efforts of related disciplines (e.g., business process management and operational excellence).
Regulatory compliance and changes	Provide a business and enterprise framework for assessing, addressing, and communicating regulatory impacts and risks; demonstrate compliance with end-to-end traceability from policy to business and IT assets.
Emerging technologies	Assert business goals, redesign business models, identify key applications for emerging technology, assess impacts, design and communicate future, prioritize and plan changes, and accelerate requirements.
Cross-organization coordination	Provide a business and enterprise framework for assessing, designing, planning, and executing mergers, acquisitions, joint ventures, joint initiatives, and startups.

Chapter 3: Applying Enterprise Architecture to the AWS Cloud






EA Governance Capabilities
EA Governance Elements
Structure, Capabilities, Qualifications needed at the Enterprise to implement architecture
Organizational Structure
To provide governance and ensure compliance of the defined Enterprise Architecture
Roles & Responsibilities
Integral elements of the overall EA governance framework used to implement technology solutions
Governance Processes
Enabling artifacts, govern technologies, software development and management
Standards, Guidelines
EA assets are managed effectively through a single repository
Tools
Need to manage the enterprise systems landscape through EA blueprint
Enterprise Architecture
EA Metrics (Gauge the EA practice and identify areas running smoothly or those needing improvement)
Benefits
Established Common Vision
Established Common Vision
Established Common Vision
Reduced Business & IT Risk
Technology Based Innovations
Cost Optimization
Reduced Complexities - Process & Technology

Chapter 4: Available Frameworks for an Enterprise Architecture

Corporate Risk Impact Assessment					
	Frequency				
Effect	Frequent	Likely	Occasional	Seldom	Unlikely
Catastrophic	E	E	H	H	M
Critical	E	H	H	M	L
Marginal	H	M	M	L	L
Negligible	M	L	L	L	L

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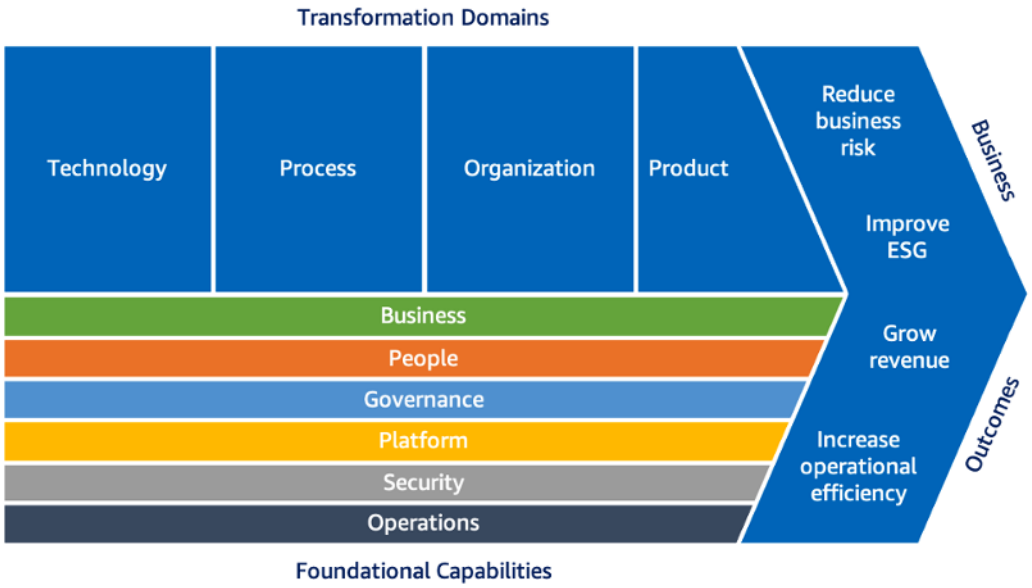
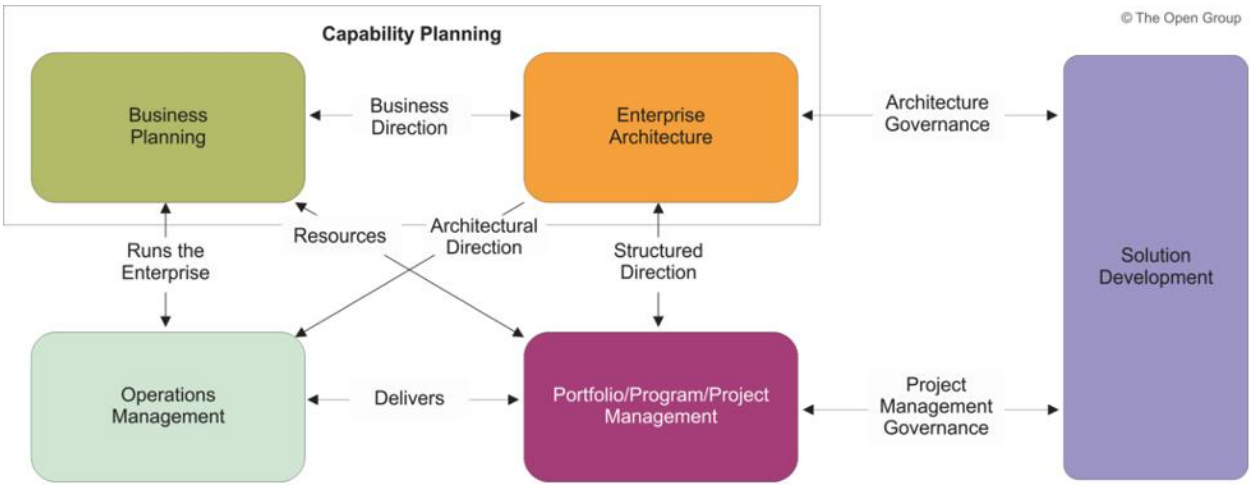
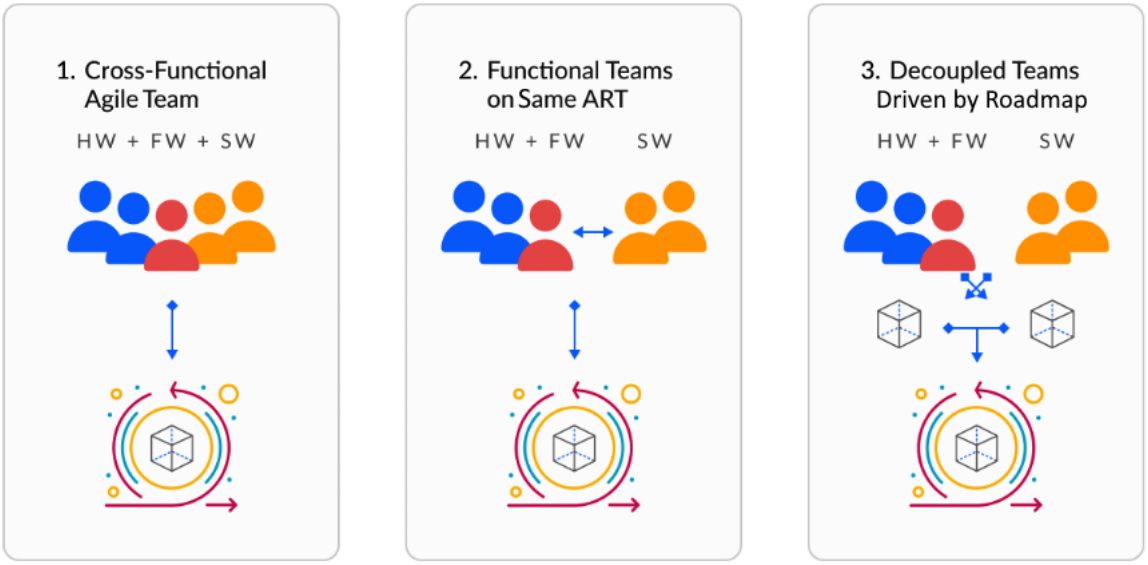
Chapter 5: AWS Prescriptive Guidance Frameworks


Transformation Domains
Technology
Process
Organization
Product
Reduce business risk
Improve ESG
Grow revenue
Increase operational efficiency
Business
Outcomes
Business
People
Governance
Platform
Security
Operations
Foundational Capabilities

Chapter 6: TOGAF Framework in Action with AWS

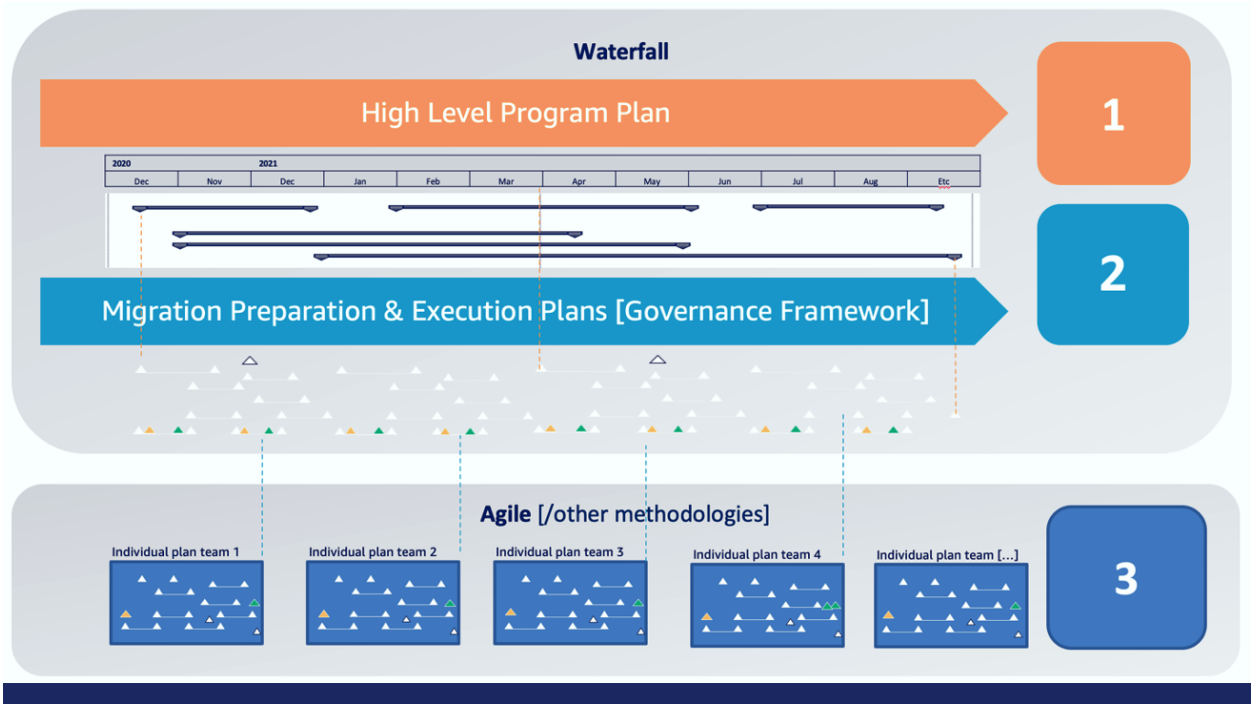


Chapter 7: Align and Scale Agile Framework with Enterprise Architecture



Chapter 8: SAFe Implementation for AWS Cloud Migrations

Summary	Issue Type	Description
App Migration - Wave 1	Epic	As the Migration Program Leader I want to migrate all the identified application for MRP in waves with customers
OI - License Mgmt	Epic	As the Head of Cloud services, I want to manage the licenses of the software effectively so that there are no licen
OI - Problem Mgmt	Epic	As the Head of Cloud services, I want to ensure a problem management mechanism and process in place so that r
OCM - Make it Stick	Epic	As the Cloud Executive Sponsor, I want to ensure key activities outlined in the Mitigation Strategy & Plan are execu
OCM - Enable Capacity	Epic	As the Cloud Executive Sponsor, I want to drive a new organizational culture that produces a return on reward, in c
OCM - Engage the Organization	Epic	As the Cloud Executive Sponsor, I want to ensure alignment and commitment across leadership and key stakehold
OCM - Envision the Future	Epic	As the Cloud Executive Sponsor, I want to ensure Change Strategy, Communication, Engagement Strategy, Training
OCM - Align Leaders	Epic	As the Cloud Program Sponsor, I want to secure alignment of key global and regional/local business stakeholders t
OCM - Mobilize Team	Epic	As the Executive Cloud Program Sponsor, I want a thoughtful, structured, documented approach to delivering cloud
OI - Patch Management	Epic	As a head of security, I need to provide a mechanism as well as ensure that all the application services and the inf
Security - Incident Management	Epic	As an incident response manager, I want to develop and implement an incident response plan/methodology so tha
Security - Data Management	Epic	As a data protection manager, I want to establish and implement an encryption at rest and in transit methodology
Security - Infrastructure Management	Epic	As a infrastructure security manager, I want to implement security and compliance infrastructure so I can have a r
Security - Logging and Monitoring Management	Epic	As a logging and monitoring manager, I want to implement logging and monitoring framework so that I can moni
Security - Access Management	Epic	As the identity and access manager, I want to securely control access to my AWS services and resources for my us
Migration-at-scale Planning	Epic	As the Migration Program Leader, I want to ensure that all prerequisites have been baselined so that the applicati
Landing Zone Setup	Epic	As a CIO, I want to a build a scalable and resilient virtual data center in the cloud so that we can support business
Program Management Setup & Execution	Epic	As the Executive Sponsor (CIO), I want to lay down the foundation for mobilizing my teams so that they are prepa
Business case and TCO	Epic	As an Executive Sponsor, I want to know the migration and run costs in AWS, so that I can generate a business cas
Baseline Discovery	Epic	As an IT Director, I want to discover all my infrastructure assets so that I have a complete picture of my current sta
MRA	Epic	As a CIO, I want to a assess my current organizational capabilities so that I can decide if my team is ready for Clou



Chapter 9: Setting Up an Enterprise Architecture Practice

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Chapter 10: Conclusion

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