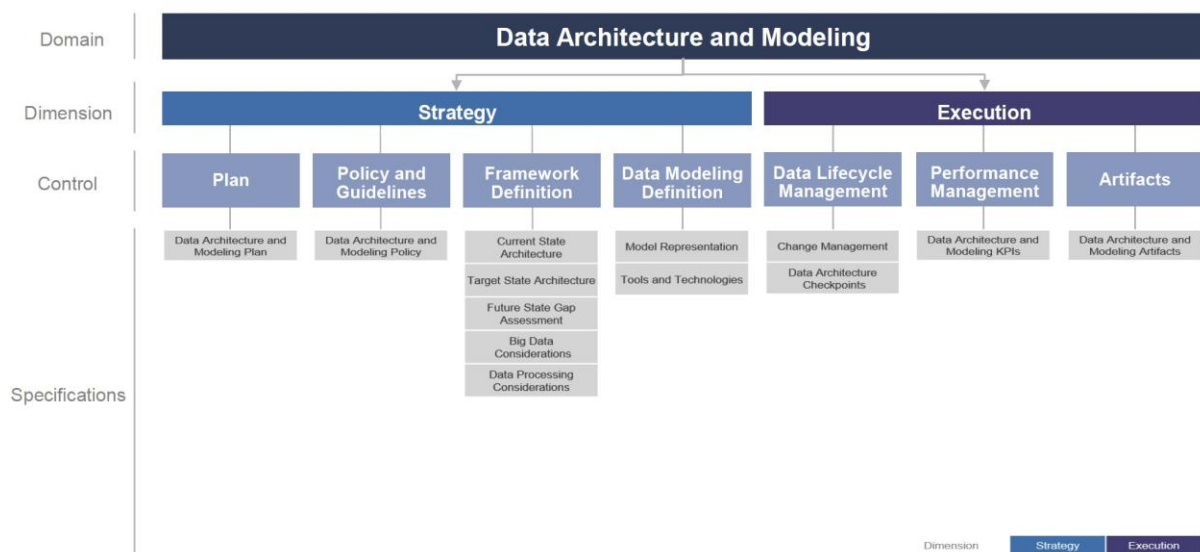


Data Architecture and Modeling Plan

NDMO Reference	
Control Name	Data Architecture and Modeling Plan
Control ID	DAM.1.1

Scope

Data Architecture and Modeling domain comprises of 7 controls and 13 specifications. This domain focuses on establishment of formal data structures and data flow channels to enable end to end data processing across and within entities.



Schedule and Assignment

Dimension	Control ID	Control	Specification ID	Specification	Task	Accountability	Start Date	Finish Date
Strategy	DAM.1	Plan	DAM.1.1	Data Architecture and Modeling Plan	Create a Data Architecture and Modeling Plan to implement and manage activities aiming to improve the Data Architecture Capabilities	Mohammed Alqahtani	1/01/2022	28/02/2022
	DAM.2	Policy and Guidelines	DAM.2.1	Data Architecture and Modeling Policy	Document and publish a Data Architecture and Modeling Policy to guide the development of the target data architecture	DMO	1/03/2025	30/04/2025
	DAM.3	Framework Definition	DAM.3.1	Current State Architecture	Define the 'BASELINE' Current State Data Architecture to support the development of the Target State Data Architecture	EA	1/05/2025	30/06/2025
			DAM.3.2	Target State Architecture	Define and develop 'TARGET' Future State Data Architecture by following SCFHS Data Architecture and Modeling Policy and shall cover the details in DAM.3.2	EA	1/07/2025	30/09/2025
			DAM.3.3	Future State Gap Assessment	Conduct and document a Gap Analysis between the current state architecture and the defined target state architecture	EA	1/07/2025	30/09/2025
			DAM.3.3	Future State Gap Assessment	Define the initiatives required to implement target state data architecture based on the gap analysis results	EA	1/07/2025	30/09/2025
			DAM.3.4	Big Data Considerations	Identify and document the requirements for developing a Data Lake environment as described in DAM.3.4	EA	1/07/2025	30/09/2025
			DAM.3.5	Data Processing Considerations	Employ and document a Partitioning Strategy for the target state Data Architecture. The partitioning strategy should cover both real-time and batch processing operations.	EA + DMO	1/07/2025	30/09/2025
			DAM.4.1	Model Representation	Select and follow a diagramming method for documenting the structure, relationships and notations of business entities at the conceptual level	EA	1/10/2025	30/11/2025
			DAM.4.1	Model Representation	Select and follow a diagramming method for documenting the structure, relationships and notations of business entities at the logical level.	EA	1/10/2025	30/11/2025
			DAM.4.1	Model Representation	Select and follow a diagramming method for documenting the structure, relationships and notations of business entities at the physical level	EA	1/10/2025	30/11/2025
			DAM.4.2	Tools and Technologies	Select and implement a toolset of technologies for the design, development and implementation of data architecture and modeling initiatives within SCFHS as described in DAM.4.2	EA	1/10/2025	30/11/2025
	DAM.4	Data Modeling Definition						

Execution	DAM.5	Data Lifecycle Management	DAM.5.1	Change Management	Establish and follow an architecture change management process to review, approve and implement changes to current and/or target state Data Architectures as described in DAM.5.1	EA	1/01/2026	28/02/2026
			DAM.5.2	Data Architecture Checkpoints	Define Data Architecture checkpoints incorporated into the Software Development Lifecycle (SDLC) process and as described in DAM.5.2	EA	1/01/2026	28/02/2026
	DAM.6	Performance Management	DAM.6.1	Data Architecture and Modeling KPIs	Establish key performance indicators (KPIs) to measure the state of Data Architecture and Modeling capabilities, and to track progress in transforming current state data architecture towards a target state data architecture.	EA	1/03/2026	30/04/2026
	DAM.7	Artifacts	DAM.7.1	Data Architecture and Modeling Register	Store in a register the data and technical architecture project, reference documentation materials and data model designs	EA	1/05/2026	30/06/2026

Budget

The budget allocated for this domain is approximately 800,000 Saudi Riyal