

Data Strategy

2022 - 2025

Building Capabilities
Creating Opportunities
Serving the Kingdom



الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

Table of Contents





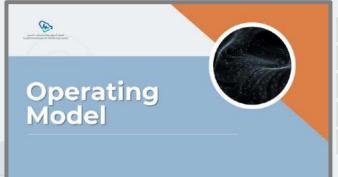
Status & Situation	04
Vision & Mission	05
Objectives	06
Data Principles	07



Framework & Approach	17
Building Capabilities	18
Org. Transformation	19
Serving Customers	20
Data Strategy Map	21



23
30
34
36
39



National Oper. Model	58
Department Org Chart	64
Aligned Oper. Model	69
DG Roles & Responsibi.	71
Data Consumer Profiles	84



OKRs	120
Career Path	126



Sample Data Use Cases 128

Data Use Case Card 129



Data Strategy Background





Status & Situation



Vision 2030 is going in full swing and digital transformation is top of agenda.

Data is now becoming the main objective of the SDAIA and NDMO and is now intertwined with digital transformation.

NDMO strategy and policies are now the national standard.



As the SCFHS strategy is being refreshed, the mandate is not changing for the commission yet there are many changes happening around us.

We have already started on our journey, but the efforts need to be elevated and given high urgency and criticality as this gives us both opportunities to grow and optimize current business to always pursue excellence..



A strategy that focuses on compliance with the overarching mandate of the national transformation requires that we must invest in key strategic initiatives that will also cascade benefits.

However, we also must leverage our unique position in the sector by offering new services and create value through building the organizational capabilities and embed data in the efforts of enlightening and supporting the decision-making for the SCFHS and its customers and beneficiaries.



Vision & Mission





Value creation in healthcare training and professional practice through trusted data

Data Mission



Ensuring the highest standards for data management and governance and enabling data-driven decision making for the Saudi Commission for Health Specialties and its customers and beneficiaries.

Vision & Objectives



Data Leverage

What data and insights is unique to us and can add value?



Build the foundation



Secure & Protect



Exchange & Innovate

Intelligent Operations

Can we reduce costs and improve efficiencies?



Provide Insights for Decisions



Integrate & Harmonize



Automate

Customer Impact

Can we create impact for the customer in time?



Simplify
Journeys &
Processes



Improve service quality



Inform & Enlighten

Data Principles





Data as Asset



Privacy by Design



Open Data by Default



Ethical use of Data

Principles to guide our decisions throughout the journey



Efficient Design



Data-Driven Transformation



Data Culture



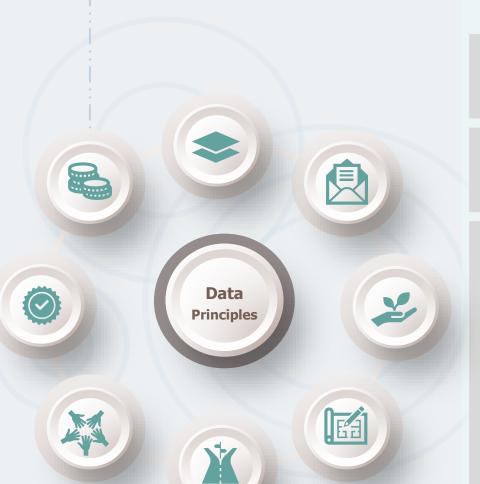
Trust in Data



Principle



Data as Asset



Description

Data and information are strategic national assets that must be protected with clear accountability to generate value out of it.

Rationale

To be a truly 'data-driven' organization the Commission would not view Data Management as an IT concern. Although the daily technical work related to data operations would be done by the technical team (i.e. DBAs, data custodians, etc.). Nevertheless, policies, business rules, and controls, decision rights must be defined, sustained, and evolved by people with full business understanding and proper organizational authorities.

1. Develop a portfolio of **data/information assets** with clear definition of the term "asset" when it comes to Data/Information.

Data shares many characteristics with other governed assets, but there are also some important distinctions. In contrast with material assets, data is **not depleted** when used, and it is often **of a sensitive/private character**. These should be taken into account when designing data governance and strategy.

Data Governance must be established and regarded as a full-blown function that manage all aspects of data/information management:

The Data Management organization, including roles and responsibilities, and decision rights.

Lead all aspects related to Data Quality. Ensuring that data is fit for purpose is a primary goal of data management. To manage quality, the Commission must ensure they understand stakeholders' requirements for quality and measure data against these requirements.

Define and enforce data policies.

Establish and maintain metadata management practice to understand what the data is and how to use. It requires definition and knowledge in the form of Metadata.

Manage concerns pertinent to data privacy, security, and protection. (See Principle #4. Ethical Use of

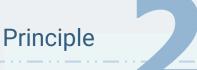
Fostér data-driven innovation and culture.

Justify and drive data monetization initiatives. This might include Infonomics-related tasks (e.g. the value of data can be expressed in economic terms by developing consistent ways to quantify that value. Also measure both the costs of low quality data and the benefits of high quality data.)
 Data policies must be derived from the data guiding principles, and must includes: data standards,

data controls, and data management processes.

5. Managing data includes **managing the risks** associated with data: In addition to being an asset, data also represents risk to an organization. Data can be lost, stolen, or misused. Organizations must consider the ethical implications of their uses of data. Data-related risks must be managed as part of the data lifecycle.

Implications



Saudi Commission for Health Specialties

Privacy by Design



Description

Privacy by design enables privacy to be 'built in' to the design and architecture of information systems, business processes and infrastructure. It aims to ensure that privacy is considered before, at the start of, and throughout the development and implementation of initiatives that involve the collection and handling of personal information.

Rationale

Implications

Privacy by design enables the Commission policy-makers, IT/Data professionals and those responsible for delivering services to the beneficiaries to approach privacy as a 'design feature' of the processes and activities rather than as a compliance burden. It shifts the privacy focus to prevention rather than compliance, using innovative approaches that are anchored in genuine respect for individuals' personal information.

- 1. Data Protection framework and policies to be aligned with the 7 foundational principles of the privacy by design:
- 2. Proactive not reactive, preventative not remedial (Do not wait for privacy risks to kick off, nor just to offer remedies for resolving privacy breaches once they have occurred – rather, it aims to prevent them from occurring).
- 3. Privacy as the default setting (ensuring that personal information is automatically protected in any given system, business practice or process).
- 4. Privacy embedded into design (data privacy becomes an essential component of the core functionality being delivered)
- 5. Full functionality: positive-sum, not zero-sum (to accommodate all legitimate interests and objectives in a positive sum "win-win" manner).
- 6. End-to-end security full lifecycle protection (all personal information is kept securely across its lifecycle from collection through to destruction.)
- 7. Visibility and transparency keep it open (All of the collection and handling steps along the way are visible and transparent, to users and providers alike)
- 8. Respect for user privacy keep it user centric (to keep the interests of the individual at the forefront by offering such measures as strong privacy defaults, appropriate notice, and empowering user-friendly options)



Principle



Open Data by Default



By default, data must be considered available and open unless there are legit reasons to protect it for data privacy, national security, and any other justifiable reasons.

Rationale

Open data is a key driver put forth my the NDMO to speed up the adoption of datadriven thinking kingdom-wide.

- 1. Embed "Open Data" and "Freedom of Information" practices within the data management capability.
- 2. Ensure the application of the Open Data as stipulated in NDMO Open Data Policy during the design and the development of the data policies and standards.
- 3. Platform for streamlining "Open Data" functionalities.









Data

Principles







Principle

Ethical use of Data

Description

Data to be utilized and governed with integrity based on predefined ethical practices and rules in congruence with the public interest and the Saudi cultural values.

Rationale

Handling data in an ethical manner is necessary for the long-term success of the Commission to get value from the data. Unethical data handling can result in the loss of reputation and public image, because it puts at risk people whose data is exposed. Therefore, data ethics are a matter of social responsibility.

- 1. Avoiding collecting any PII form the data providers if it not justified or required.
- 2. Avoid any scenarios that entail unethical information practices (e.g. lie through omission or inclusion of certain data points; misleading visualizations; unclear definitions or invalid comparisons; bias, obfuscation / redaction of data).
- 3. Establishing an Ethical Data Culture is an imperative.
- 4. Manage the risks related to the ethical aspects of data usage. Handling data ethically requires enterprise-wide recognition of the risks associated with misuse of data and organizational commitment to handling data based on principles that protect individuals and respect the imperatives related to data ownership.
- 5. Although GDPR is not applied in Saudi Arabia, adopting some of its principles can boost the ethical use and trustworthiness of the Commission.



Implications





Optimal Design

Description

Use the available data, deduplicate the data, and ensure the effectiveness on how to manage, process, share, and use the data in such a way to serve the national needs.

Rationale

End-to-End Data Management as a cost-effective practice is the main enabler to provide the data for all beneficiaries.

- Implications
- 1. Although each department or team might have their own applications, data should not be viewed from project-centric or application-centric or department-centric or process-centric perspective, but from an enterprise perspective as shared assets. The Commission might end up having complex technical and business process landscapes. But Data is created in many places and is moved between places for use. To coordinate work and keep the end results aligned requires planning from an architectural perspective.
- 2. Data management must be cross-functional activity, utilizing Agile/DevOps/DataOps approaches or any relevant New Ways of Working.
- 3. Data Architecture is a must to maintain holistic view about the data and to be used as a reference for all the processes, products, and projects that touch the data.
- 4. Foster lifecycle thinking about the data. Data has a lifecycle and managing the data requires managing its lifecycle. Data management requirements must drive Information Technology decisions: Data and data management are deeply intertwined with information technology and information technology management. Managing data requires an approach that ensures technology serves, rather than drives, an organization's strategic data needs.
- 5. Data Governance and Data Management activities must be integrated smoothly with the internal operating model with as minimum friction as possible.







Data-Driven Transformation

Description

Data Provisioning and analysis for operational and strategic decisions and develop the policies.

Rationale

The key driver for data usage is to utilize it for decision-making at various levels, otherwise the decisions would be based on inaccurate gut feelings, subjective opinions, or hasty hunches. The ultimate goal is to adopt evidence-based management for all types of decisions: operational, tactical, strategic, and national.

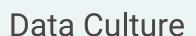
- 1. Data use cases management must be a main practice in order to foster this principle inside the Commission. This must include data use cases discovery, prioritization, analysis, testing, implementation, deployment, and revision.
- 2. Business Decisions (including operational business rules) must be documented, modelled, and externalized.
- 3. Establish the practice of "After Action Review" AAR and support this with the relevant data and evidence.
- 4. Establish the Practice of data-driven policy-testing and simulation.
- 5. Establish the practice of Scenario Planning.



Implications



Principle





Empowering people with the mindset and skills to both consume & produce data and to influence change by using data & insights as a foundation for communication & collaboration.

Rationale

Influential change requires personal development in both mindset and skills. A principle of establishing a data culture focuses on both improving the literacy to consume and produce data and the mindset of making decisions informed by data especially in a collaborative way where the data is at the center of all communication and story telling to influence change, establish consensus and reduce the over-reliance of past experiences and prior beliefs.

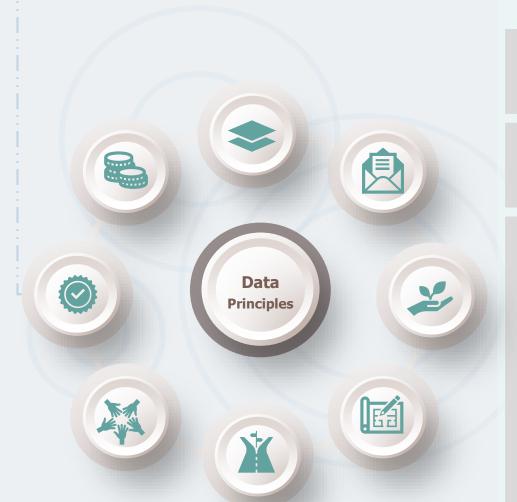


- 1. Develop foundation skills to consume data, produce insights and use data for decision making.
- 2. Establish communities of practice to apply data skills and improve understanding by group interactions for 'situational learning'.
- 3. Create a data career path on data management, data governance, data engineering and data science by creating curriculums and certification roadmaps
- 4. Conduct workshops and trainings on decision making, executive data leadership, data business models, process and change management through data, data storytelling and communicating with data, data product development & design thinking.
- 5. Coach and mentor non data-professionals to self-serve using existing data tools and approaches
- 6. Coach and mentor data professionals to continuously improve and add value to the organization.
- 7. Create and execute an assessment framework for measuring and benchmarking the data culture of the organization.



Implications

Trust in Data



Description

Cultivate trust in the data by all stakeholders through ensuring high quality data, and data transparency when it comes to the quality characteristics of the data.

Rationale

Implications

Data Quality transparency is main pillar for the ethical usage of the data. Driving decisions by using questionable or impaired quality can lead to extremely negative ramifications that incur PR scandal or public image loss.

- 1. Establish end-to-end data quality process.
- 2. Embed data quality controls in the business processes.
- 3. Establish a solid master data and reference data management practice.
- 4. Share the Data quality health index with all internal employees to make it as visible as possible.
- 5. Promote the culture of the data quality inside the Commission.
- 6. Hold any party who internationally impairs the data quality accountable with clear consequences.
- 7. Digitize the data capture, collection, and generation as much as possible to eliminate or reduce the likelihood of human errors.



Framework & Cases Data Use Cases

Framework & Approach







Serving the Customers & Beneficiaries

Use Cases Partnerships Insights

Value & Impact

Organizational Transformation

Services Analytics Data Culture



Service Delivery



Building Capabilities Governance Platforms Data Literacy



Maturity Model







Capabilities enable possibilities for both operations and implementing new use cases



Our (data) capabilities are periodically assessed and are planned for continuous improvement.

Governance

Operating Model (SDAIA - NDMO)

Data Security, Privacy & Protection

Data Architecture

Data Quality Management

Master & Metadata Management

Policies, Practices & Standards

Assessment & Performance Framework

Data Governance & Process Framework

Platforms

Enterprise Data Catalog

BI & Analytics Platform

Datawarehouse & Data Lake

Data Integration Platform

Cloud & DevOps Platform

Data Science Platform

Data Portal & Exchange Gateway

Literacy

Foundations

Data Governance

Data Management

Data Engineering

Insights & Analytics

Data Product Development

Sourcing & Capability Development

Core Focus:

Horizon 1

Horizon 2

Horizon 3

Organizational Transformation





Continued support for ongoing services and support to the commission while improving capabilities.



Focus on service delivery and efficiencies enhanced though capability development



Ongoing Services

Analytics & Adhoc Reporting

Business Optimization & Automation



Communities, Tribes & Guilds

Team Development Practices

Leadership, Risk & Performance

Communication & Change Management

SCFHS Knowledgebase



New Services

Integrated Services

ML & Al Services







Data Use Cases & Ideation Model

Serving the Customers & Beneficiaries





Implementing use cases that improves customer experience and the value & image of the organization



Impact the customers and the commission through value added offerings and quality improvement of existing mandate.



Customer & Beneficiary Services

Practitioner Registry & 360 View

Value Added Services

Data Portal & Knowledgebase

Customer Experience Services



Partnerships & Models

Data Augmentation & Exchange

Analytics as a Service

Business Models

Compliance, Licensing & Certifications



Participation & Insights

Sector Insights & Publications

Citizen Participation & Forums

Data stories & Data Journalism

Workforce Planning Tool







Data Use Cases & Ideation Model

Data Strategy Map

Mission



Vision Value creation in healthcare training and professional practice through trusted data

Ensuring the highest standards for data management and governance and enabling data-driven decision making for the Saudi Commission for Health Specialties and its customers and beneficiaries.

Internal Processes **Ecosystem** Clients **Pillars Intelligent Operations Customer Impact** Data Leverage Simplify Improve Build the Exchange & Insights for Secure & Integrate & Inform & Goals Journeys & Automate service **Decisions Enlighten** foundation Protect Innovate Harmonize quality Processes **Building Capabilities** Organizational Transformation Serving the Customers & Beneficiaries Data Culture Participation & Insights Literacy **Process Ongoing Services** Platforms and Stack Partnerships & Models Data Mgmt and Governance **New Services Customer & Beneficiary Services** Agile Strategy and Execution **Enablers Active Stewardship** Organizational data Infrastructure Competent data staff Innovation / ideation Capability Program culture **Principles** Privacy by Open Data **Efficient** Data-Driven Data as Asset Trust in Data Data Culture Design by Default Data Design Transformation



Strategic Planning



Data Use Cases & Ideation Model





A systematic process and approach to capture ideas for data use cases and enabling the business case and implementation of data use

cases Ideation Preparation Operationalization Implementation Project Business case Service Ongoing Ideation Management preparation Planning & Launch Data Use Cases Design & Performance **Data Project** Development Proposals Monitoring planning Data Use Cases **Budgets &** Maximize **Pilot Procurement** Utilization **Approval** Data Use Case Register **Program Portfolio** Service Catalog **Charters & Contracts** *See Appendix

Innovation

SCFHS Business Units Strategy & Risk

Finance

Organizational Excellence

PMO

Business Analysis

IT

Support **Departments** Integrated **Efforts**

Data Use Cases Lifecycle A systematic process and approach to

capture ideas for data use cases and enabling the business case and implementation of data use cases.



IMPLEMENTATION

- Manage Project
- Design and Develop Service

Pilot



OPERATIONALIZATION

- Plan Service Provision
- Launch Service
- Maximize Utilization
- **Monitor Service** Performance

3. Implementation Phase



4. Operationalization Phase



IDEATION



Create Business Case

and Plan data project

Allocate Budget

Program Portfolio

PREPARATION

Portfolio

2. Preparation Phase



1. Ideation phase



الهبئة السعودية للتخصصات الصحية

Saudi Commission for Health Specialties

Strategy & Risk

SCFHS **Business Units**

Finance

Organizational Excellence

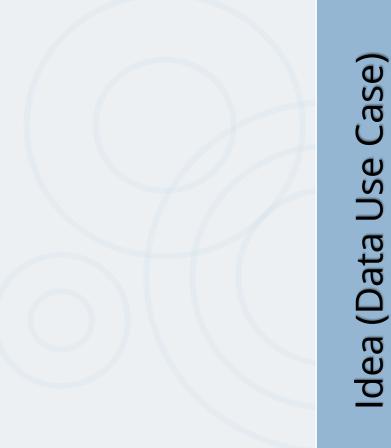
PMO

Business Analysis

IT

Support Departments





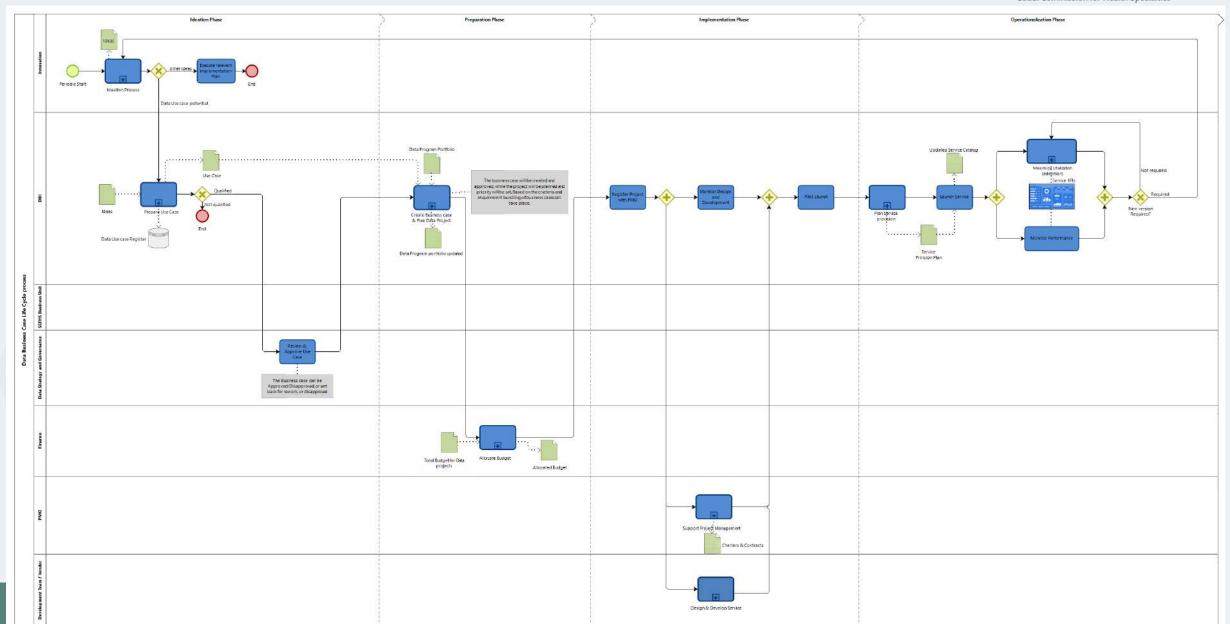
DUC (Business Use Case)

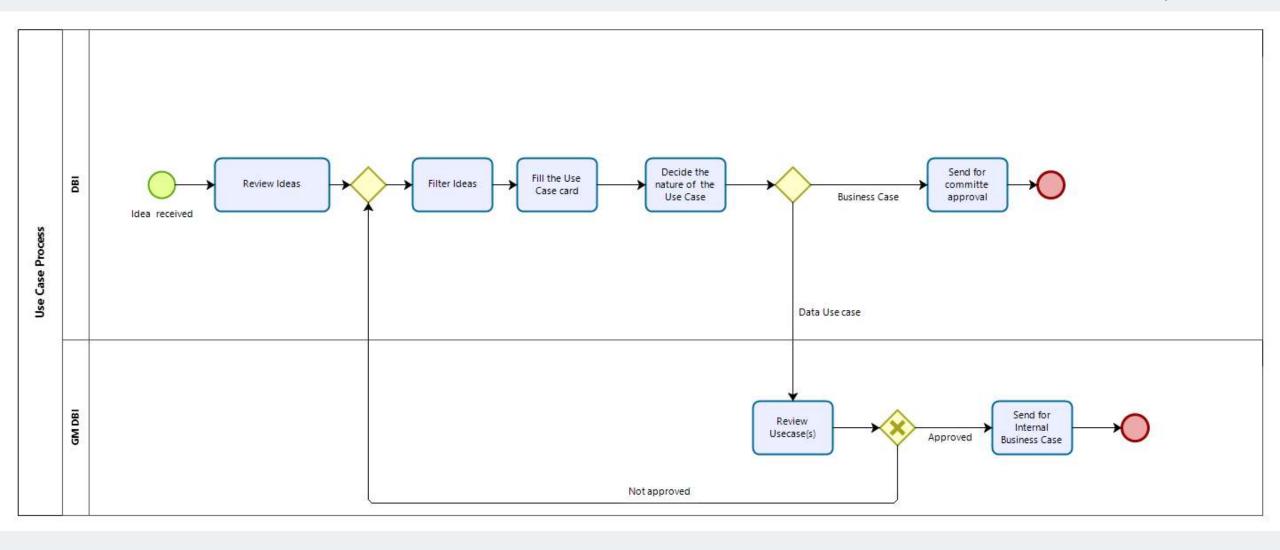
Internal DUC

DUC With partner

Scenario 1: Data Business Case Lifecycle

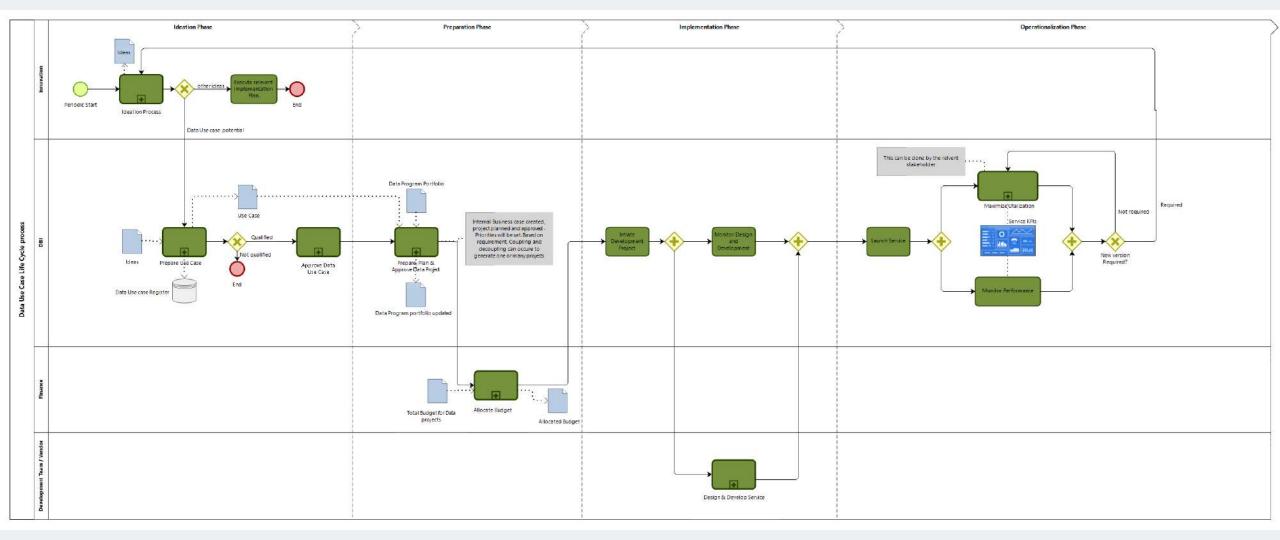




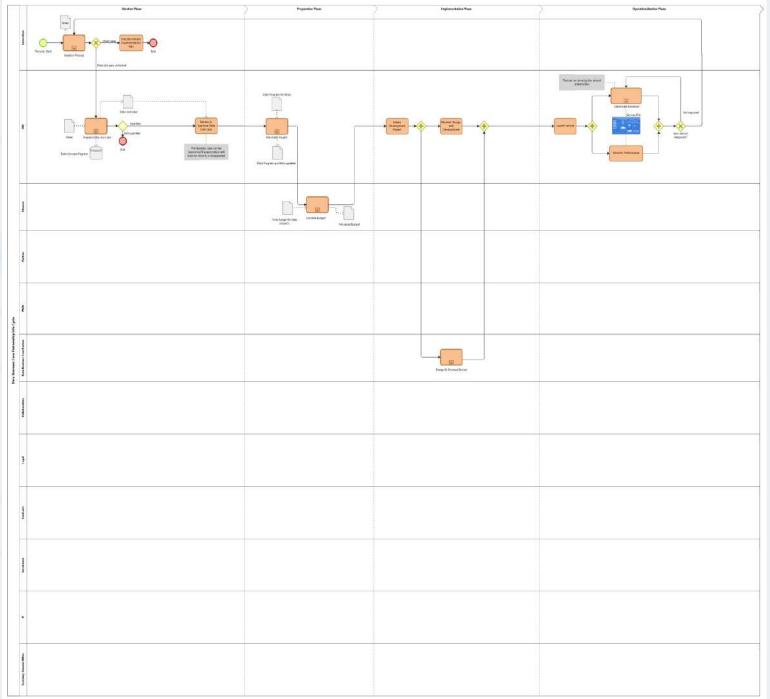


Scenario 2: Data Use Case Lifecycle





Scenario 3: Partnership





Prioritization Framework



Step 1: Score the use cases according to **potential value**

Strategic Value Customer Value Scoring the level of alignment of the use case with the Commission's strategic mandate (e.g., vision, mission and strategic objective) Scoring the uptake and current and potential usage of the use cases to the customers and beneficiaries.

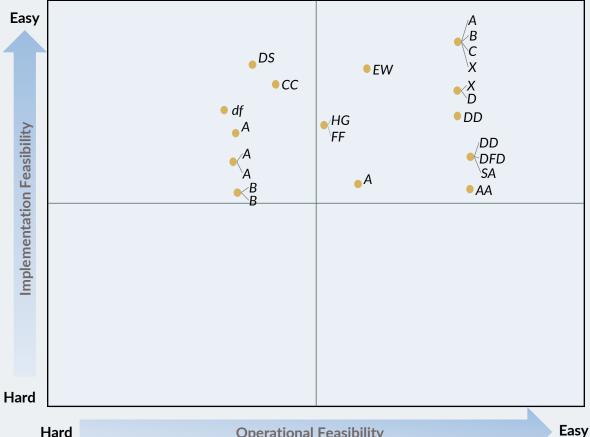


Prioritization Framework



Step 2: Score the use cases according to **ease of delivery**

Ease of Delivery Implementation Operational Feasibility Feasibility Scoring the complexity of the **effort** Scoring the complexity of the **effort** required for implementing the required for operating and capability (pre-launch - e.g., effort maintaining the capability (postrequired to research, develop, and launch) launch the capability)



Operational Feasibility



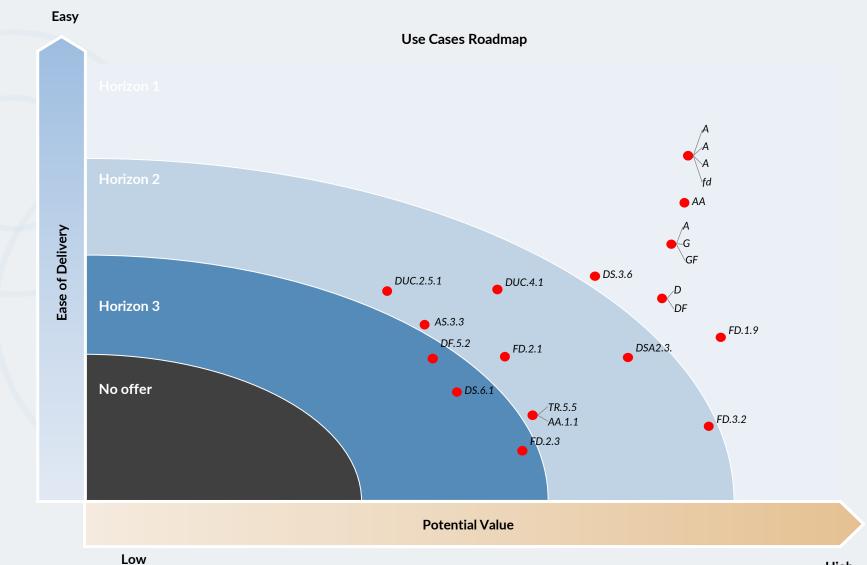
Prioritization Framework

Prioritization Tool: Score the use cases according to **potential value** and **ease of delivery**

Data Use Case			Potential Impact		Feasibility (Ease of Delivery)		
	Total Score	Potential Impact	Strategic Value	Customer Value	Delivery Feasibility	Implementation Feasibility	Operational Feasibility
			3	3		3	3
- Set up and maintain Employee Master Data	3	3	3	3	3	3	3
- Log and analyze data sharing requests	2.25	3	3	3	1.5	2	1
- Store, track and visualize Corporate Performance KPI's	2.25	3	3	3	1.5	2	1
- Analyze efficiency of SCFHS expenses and staff in terms by departments and business line	2	2.5	2	3	1.5	2	1
- Perform analysis of the applicants' assessment	2.25	2.5	2	3	2	2	2
- Estimate clinical exposure of residents	2.25	3	3	3	1.5	2	1
- Evaluate Tests Results against required Skill	2.5	3	3	3	2	2	2
- Embed Verification steps into the practitioner analysis stream	2.25	3	3	3	1.5	2	1
- Monitor request processing performance	2.75	3	3	3	2.5	2	3

الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

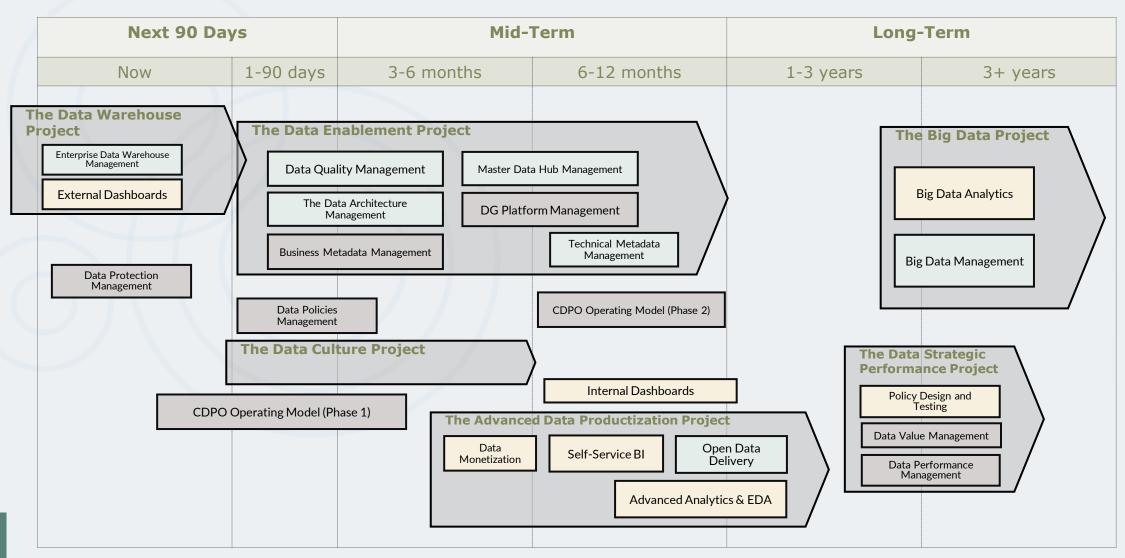
Prioritization Framework





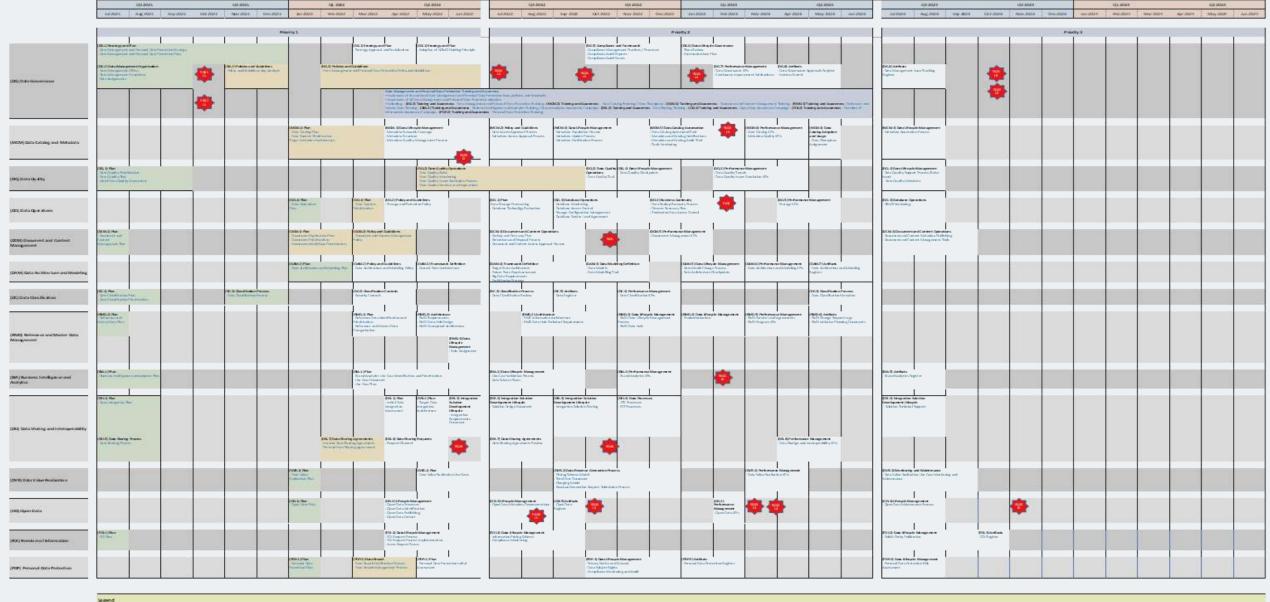
The Data Projects Roadmap

The capabilities and use cases then would be delivered through projects or internally (each project would deliver one or many data capabilities and/or use case)



Data Management and Governance Roadmap









Business Domains' Analytics and Prioritization



Analytics Blocks Components

Analytics blocks are composed of several components that are required for their deployment and operation. Misuse, lack of alignment or gaps in these components will usually lead to the failure or suboptimized use of analytics blocks





Results generated by analytics processes. Can interface directly with users, be operationalized through integration into systems or used as inputs for other analytics processes.



Series of steps or actions required to deploy and operate the components on the analytics block and generate the expected analytics outputs.



Analytics technologies and techniques used to transform data into insights or decisions.



Set of data and analytics roles needed to support or execute the processes on the analytics block. Can also be called "people capabilities" or "skills."



Technologies to collect, process, organize and make data available to analytics processes and users. The main components are often data repositories.



Set of rules that guarantee the integrity, security, privacy, availability and usability of data for the analytics processes.

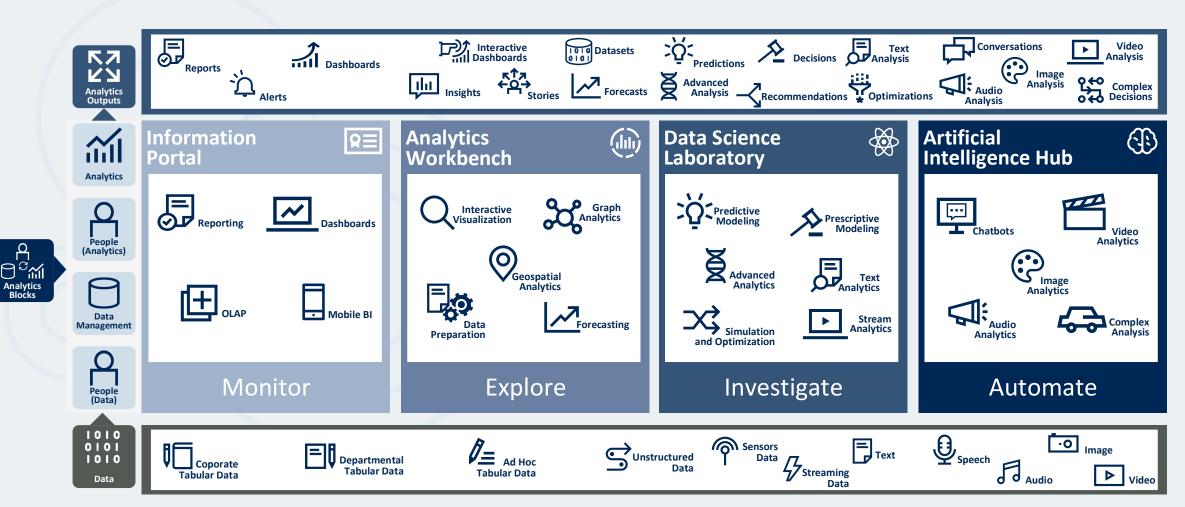


Diverse types of inputs for the analytics blocks operation, generated by entities such as internal business applications, external ecosystems, connected "things," customers or users.

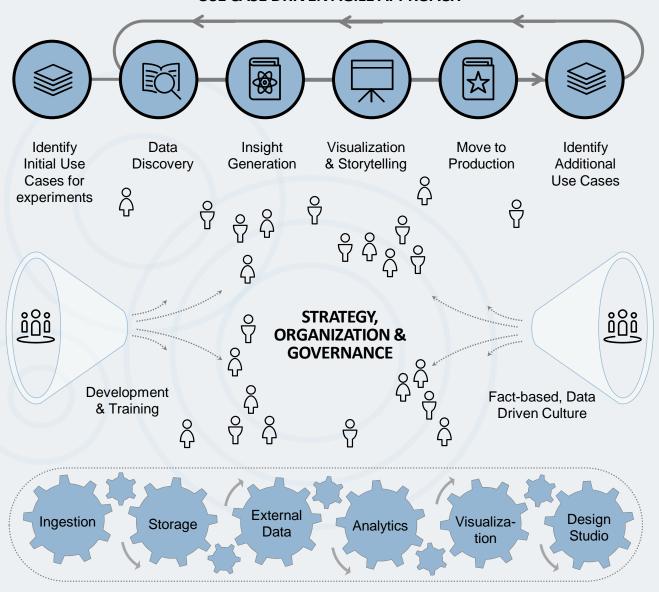


Analytics Domain Components

The analytics capabilities of each domain (the analytics blocks) need to be detailed at a granular level to be able to architect the analytics platform. The depictions below represent a sample of possible analytics block components but are not an exhaustive list or represented throughout each profile.



USE CASE DRIVEN AGILE APPROACH



INFRASTRUCTURE & PLATFORMS

Use – Case Factory: ideation model and experimentation sandbox.



Understanding Use Case Prisms to Optimize Analytics Investments



Gartner Use Case Prism

Simple

enough to be consumed by business and technical audiences on the go.

Prioritize

projects and functions that need **urgent** attention.



Drive

your data tech strategy with score-based storytelling.

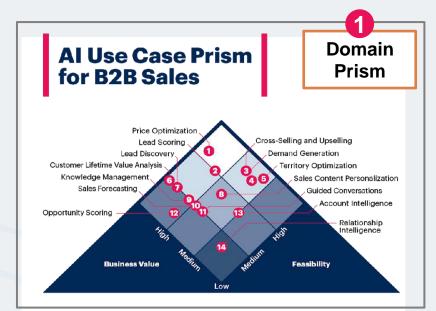
Collaborate

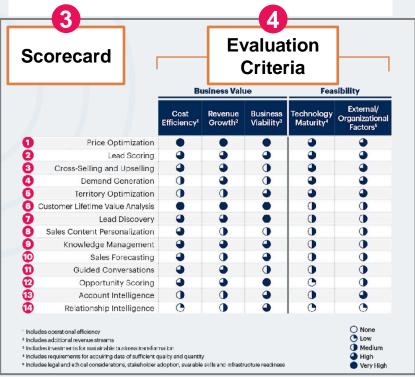
to **unite** and draw **consensus** between various **stakeholders**.

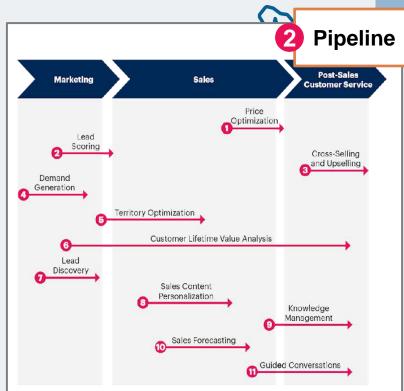
Flexible

methodology can be applied to other areas than analytics.

The 5 Components of a Use Case Prism









In the above infographic, we described the following business cases:

- Account Intelligence: Uses AI to recommend curated content about the prospects/clients based on current news feeds.
- Cross-Selling and Upselling: Uses ML to identify new business opportunities for existing customers
- Customer Lifetime Value Analysis: Provides customer health scores for all kinds of activities (e.g., churn, upselling).
- Demand Generation: Identifies new prospect segments from known characteristics of known segments.
- Guided Conversations: Uses NLP to uncover customer sentiments and helps in guiding customer conversations.



The Prism
Scorecard Is the
Heart of the Prism

(Example Academic Affairs)

	Strategic Value	Customer Impact	Technical Feasibiity	Inernal / External Feasibility
Sector Level Performance Analysis				
360-degree view of Trainees				•
Self-Service Analytics	•	•	•	•
Nibras		•	•	•
Withdrwal Cases	•			
Burnout Cases		•	•	•
Trainees at risk of failing		•	•	•
Recommendation System - Failed Trainees		•	•	•
OCR		•	•	•
Data Enrichment	•	•	•	•
Dedicated Tableau Server		•	•	•
Personalized Analytics		•	•	•
MDM - Academic Affairs		•	•	•
Data Catalogue - Academic Affairs	4	•	•	•
Business Glossary - Academic Affairs	4	•	•	•
Stewards training	4	•	•	4
Activating Alerts - academic affairs operations	•	•	•	•
Blockchain	•	•	•	•
Mobile Apps	•	•	•	•
Privacy Standards	•	•	•	
Open data	•	•	•	•
Saudi Board	•	•	•	•
NEHT Program Dashboard		•	•	•
Strategic Initiatives Dashboards	•	•	•	•

None
Low
Medium
High
Very High



Interpreting the Scores

Grade of Contribution

0

2

3

4



Medium

High

Outstanding

These use cases have zero contribution to a defined business value dimension(s); for instance, fraud detection has zero contribution to market growth.

A use case with outstanding contribution and easy feasibility is either a breakthrough, or the market is missing a great opportunity. A use case may have outstanding contribution and still be impossible, which may be the case quite often.



Interpreting Feasibility Scores

	Technology	OO Internal/Organizational	External
Impossible	Cannot be accomplished with available technologies and data.	 In violation of internal principles Complete lack of skills/org. structure Fully inappropriate infrastructure Zero stakeholder acceptance 	 In violation of current regulation External stakeholders (e.g., clients or partners) unwilling or unready to participate Essential external infrastructure does not exist
Challenging	Satisfactory solutions have not been consistently achieved, even with topnotch staff.		
Complicated	High project risks and complexity require highly specialized skills.		
Doable	Packaged app solutions exist, which still may require configuration work by trained staff.		
Easy	State-of-the-art, turnkey solutions exist, which require little or no configuration.	State-of-the-art, turnkey solutions exist, which require little or no configuration.	 Compliant to regulation External stakeholders ready and willing to adapt External infrastructure exists

Feasibility Scoring Scale



	Technology	Internal/Organizational	External
Impossible	Cannot be accomplished with available technologies and data.	 In violation of internal principles Complete lack of skills/org. structure Fully inappropriate infrastructure Zero stakeholder acceptance 	 In violation of current regulation External stakeholders (e.g., clients or partners) unwilling or unready to participate Essential external infrastructure does not exist
Challenging	Satisfactory solutions have not been consistently achieved, even with topnotch staff.		
Complicated	High project risks and complexity require highly specialized skills.		
Doable	Packaged app solutions exist, which still may require configuration work by trained staff.		
Easy	State-of-the-art, turnkey solutions exist, which require little or no configuration.	State-of-the-art, turnkey solutions exist, which require little or no configuration.	 Compliant to regulation External stakeholders ready and willing to adapt External infrastructure exists

Feasibility Scoring Scale



	Technology	O Internal/Organizational	External External
Impossible	Cannot be accomplished with available technologies and data.	 In violation of internal principles Complete lack of skills/org. structure Fully inappropriate infrastructure Zero stakeholder acceptance 	 In violation of current regulation External stakeholders (e.g., clients or partners) unwilling or unready to participate Essential external infrastructure does not exist
Challenging	Satisfactory solutions have not been consistently achieved, even with topnotch staff.		
Complicated	High project risks and complexity require highly specialized skills.		
Doable	Packaged app solutions exist, which still may require configuration work by trained staff.		
Easy	State-of-the-art, turnkey solutions exist, which require little or no configuration.	State-of-the-art, turnkey solutions exist, which require little or no configuration.	 Compliant to regulation External stakeholders ready and willing to adapt External infrastructure exists



Zero Feasibility Will Outweigh All Other Factors

Use Case Example	Technological Feasibility	Internal Feasibility	External Feasibility	Overall Score	
Artificial-General-Intelligence- Enabled Combat Robots	0				Impossible to achieve with current technology
Fully Autonomous Patient Diagnosis and Treatment		0		0	No hospital or even doctors would want that
Al Government					No government would like to replaced with Al



Explaining the Logic Behind the Scoring

Cross-Selling and Upselling (B2B Sales)

Uses ML to identify new business opportunities for existing customers

and to skip an

entire sales cycle.

•			
Business Value		Feasibility	
Strategic Value	Customer Impact	Technology	External/ Organizational Factors
Often allows additional sales, with little additional effort	Can drive longer- lasting customer relationships.	Prepackaged solutions exist, with modest additional	Solutions are often considered uncritical from an adoption and

configuration and

requirements.

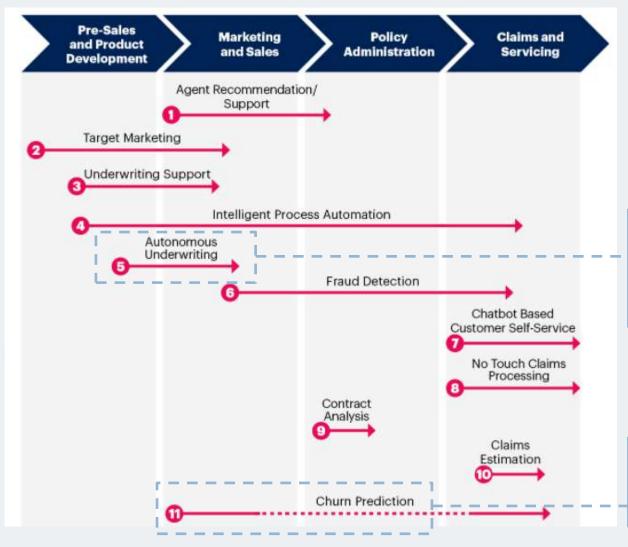
skill

infrastructure

perspective.







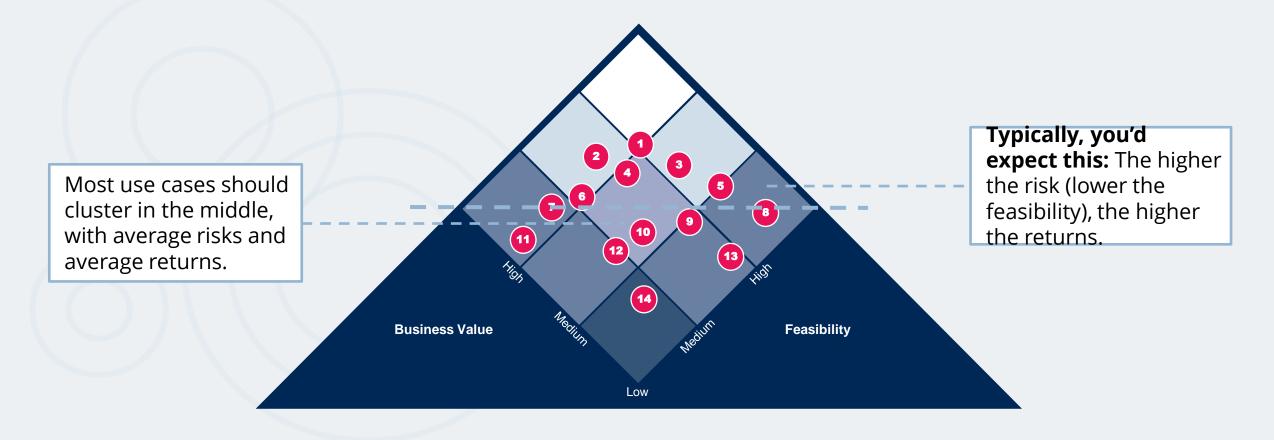
- Orientation
- Prioritization
- Stakeholder identification
- Weak spot isolation
- ... and even the evaluation

"Autonomous underwriting" is applicable to the late phase of "Presales and Product Development" and the early phase of "Marketing and Sales."

Use cases with a dotted line are intermittent; i.e., not applicable in the entirety of the business process.



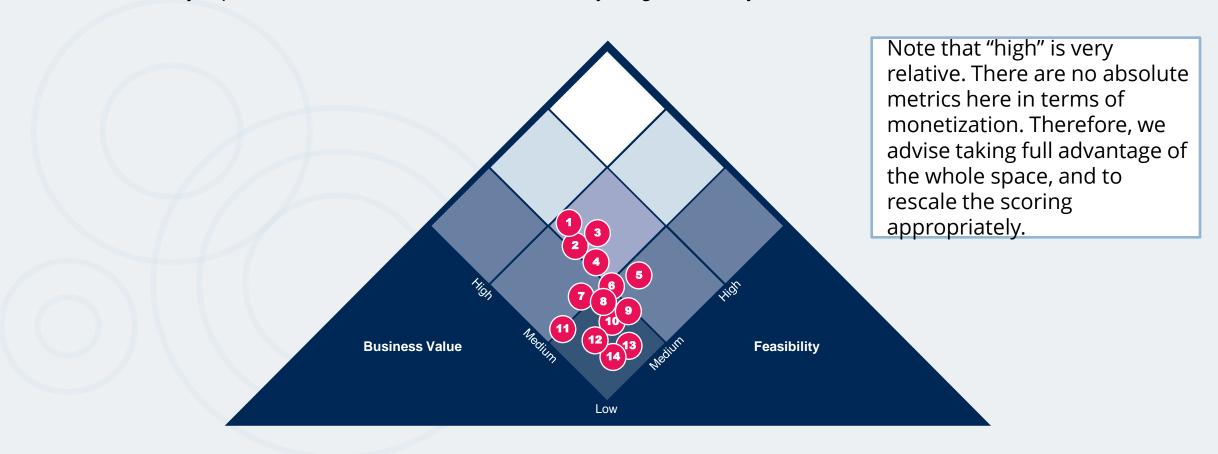
Interpretation of Dot Placement A natural dot placement should follow the financial laws of risk vs. return.





This Dot Distribution Indicates ...

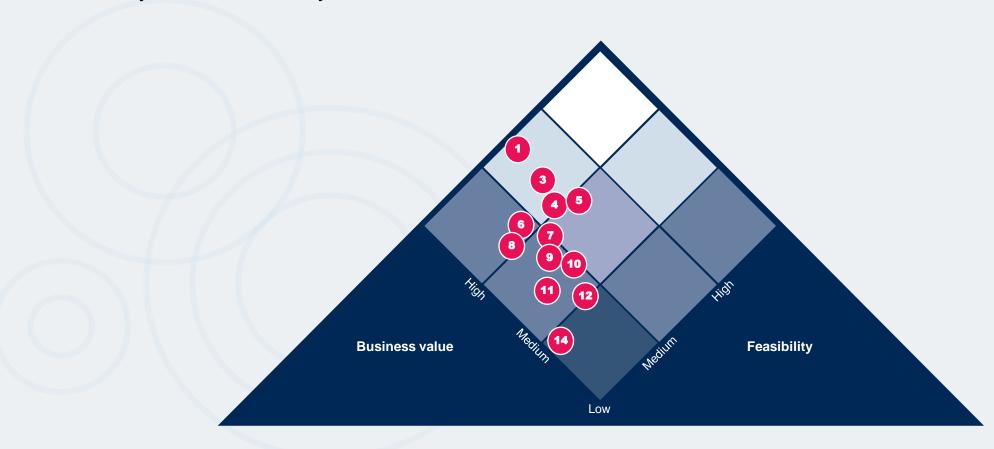
... the domain may represent a new terrain for AI, where everything is still very difficult.





This Dot Distribution Indicates ...

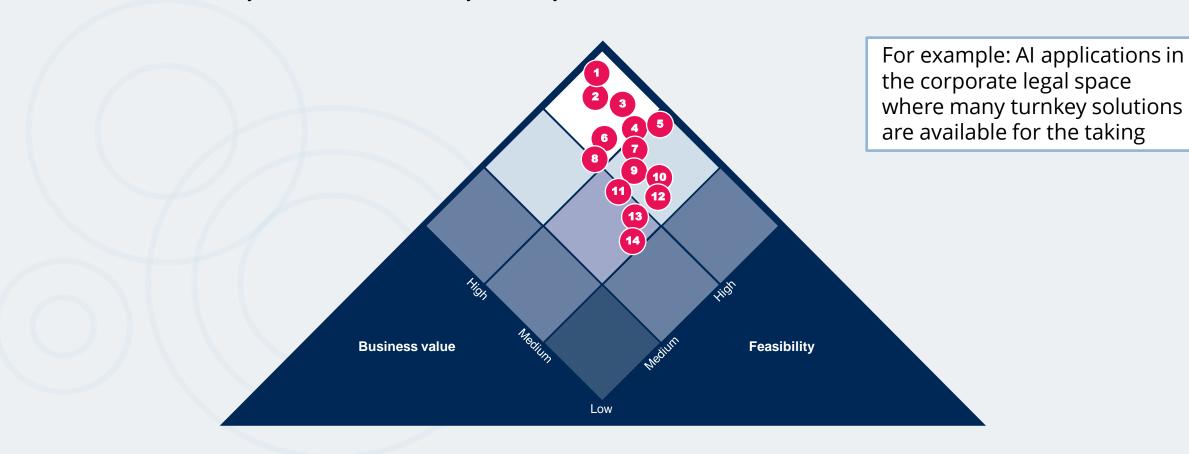
... that turnkey solutions are not yet available.





This Dot Distribution Indicates ...

... this domain has mostly AI solutions as turnkeys already, and AI is still underrated.









Use the Prism as a starting point for engaging with audiences and stakeholders across the organization.



Leverage the Prism framework to prioritize and demystify use cases and their applications.



Understand that the Prism is an overgeneralization, and some fine-tuning to your situation may be required.



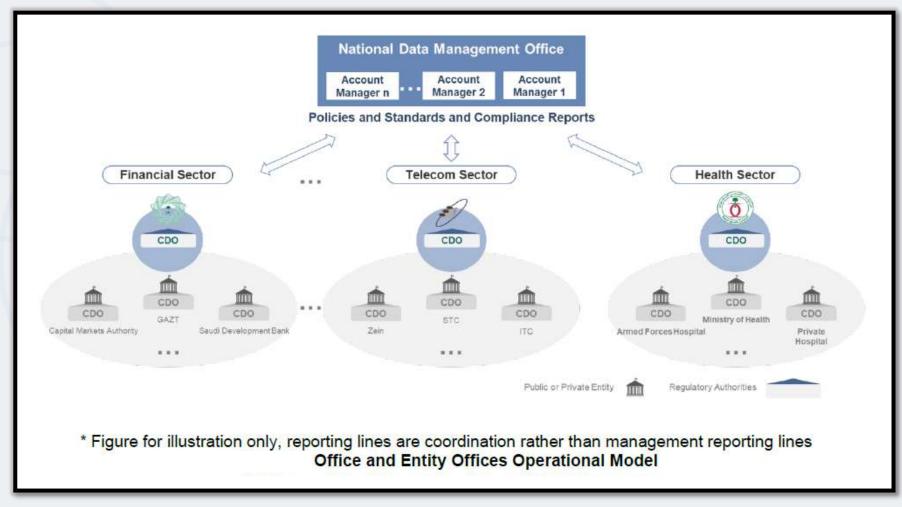
Operating Model Model



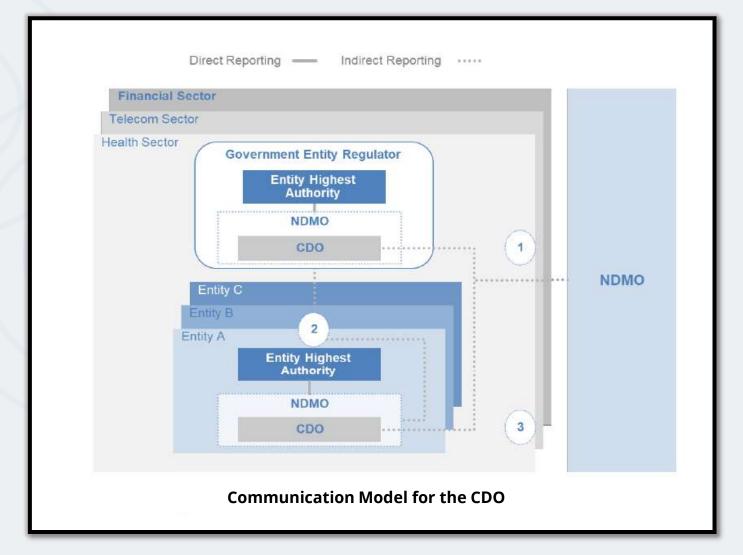


National Operating Model

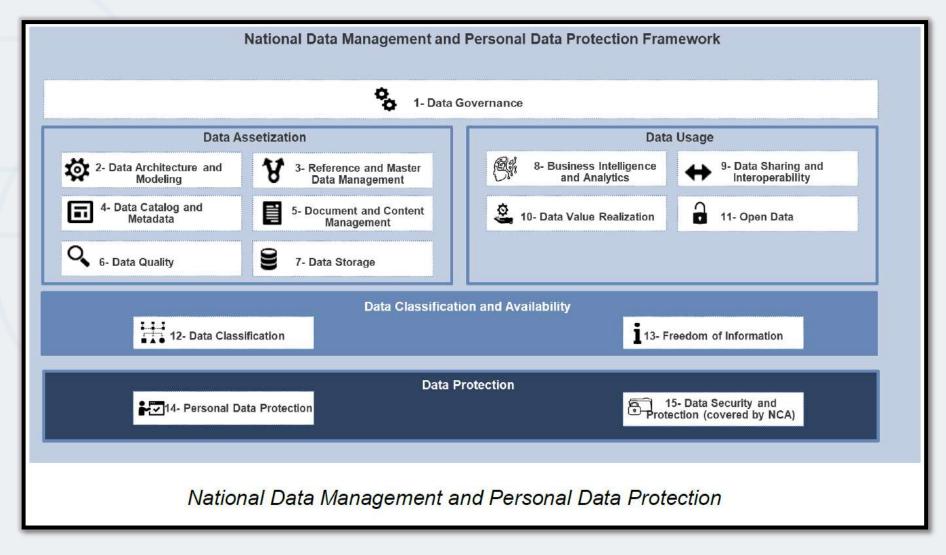




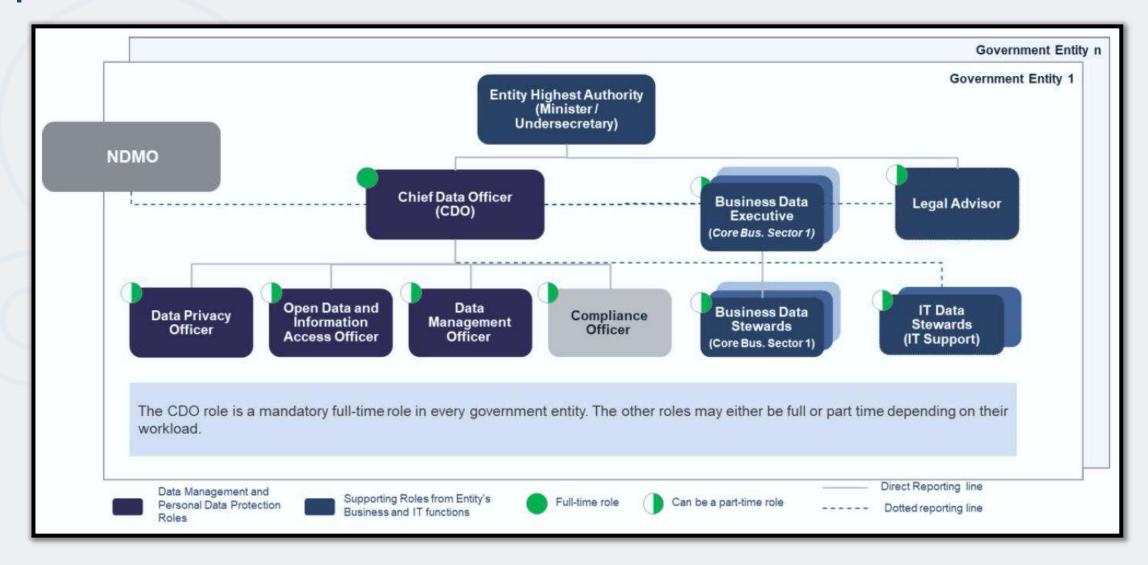










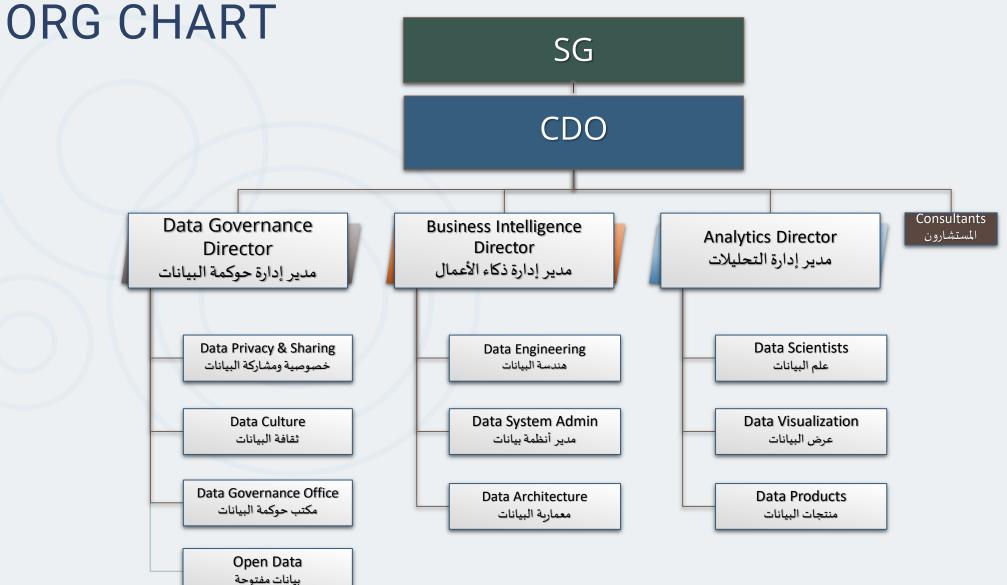




Department Organizational Chart



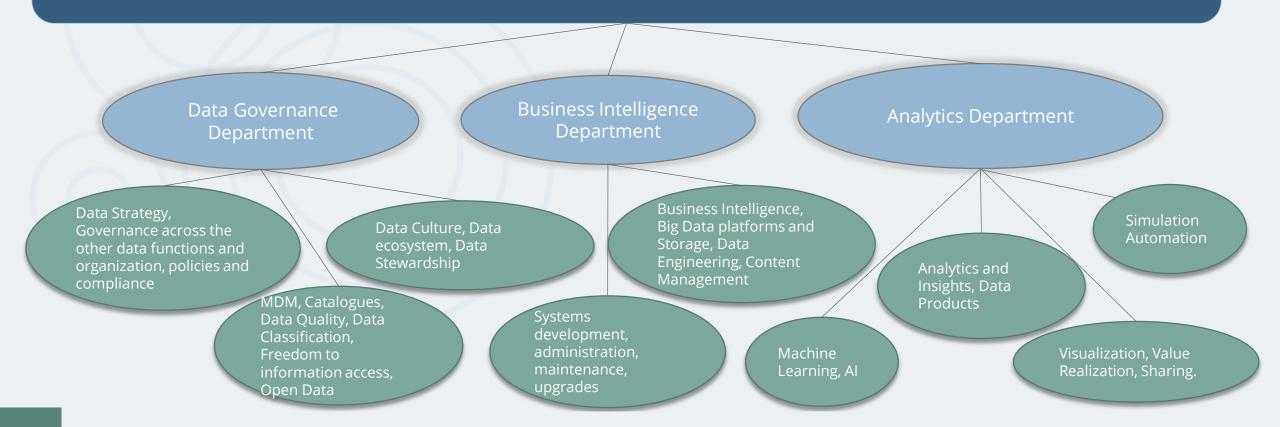
PROPOSED DEPARTMENT



Alignment of our Data Management capability to the NDMO Framework



Data Management Office



Organisation Mandate & Grouping



Chief Data Officer

	Data Governance	Business Intelligence	Analytics	Culture & Strategy
Mandate	Exercise of authority and control for the Management of Data Assets and for the compliance to best practice procedures and policies, ensuring the right quality of data.	Design, build and maintain tools and platforms to provide state of the art mechanism to technically support the execution of data strategy and its value realization.	Create & provide valuable insights which can translate into effective decision making for the beneficiaries. Develop effective products.	Provide advise and consultancy across the board.
Team Profile	Data Managers Change Managers Data Quality Experts Privacy professionals	Data Architects & Modelers System Architects & Admins BI & ETL Developers	Data & Business Analysts Data Scientists & Engineers Product Managers	Consultants providing support in different niche
Typical Activities	 Managing & securing data Designing policies, standards & guidelines Ensuring Compliance to data policies Increase adoption and manage change 	 Tuning Databases Modelling & provisioning data Data Storage Monitoring & serving (data) assets Data & systems access 	 Problem solving and discovering insights Storytelling & publishing insights Designing (data) products & (data) services 	Advisory , expert opinion, hands on support
Key Deliverables	 Enterprise Data Catalog Data Strategy and Operating Road maps Assessments & Audits Governed & Secured Data 	 Platforms & (Technical) Services Data Models & Architecture SLAs and Data Assets 	 Insights & Publications Data Products & Services Business Recommendations & Engagement 	Roadmaps & Management Frameworks

Organisation Structure



	Data Privacy Expert(s)	Specialist role as indicated by NDMO and interface with stewards, assist director with policies and compliance
Data Governance Director	Data Quality Expert(s)	Manage DQ rules, health and interface with stewards, assist director with policies and compliance
	Data Catalog Expert	Manage MDM, lineage and data cataloging including open data onboard stewards, assist director with policies and compliance
	BI (& ETL) Developer(s)	Build semantic layer, write ETL/ELT workflows and build data pipelines for BI. Automate repeated reports, liaise with all
Business Intelligence Director	Data Architect(s)	Design the reference data architecture and conduct data modelling for data warehousing and semantic layer for BI
	System Admin(s)	Manage software, tools and platforms including access rights, performance and user support.
$\bigcirc) \setminus \setminus_{\Gamma}$	Product Manager(s) (Data)	A professional role that is responsible for the development of data products for an organization
— Analytics Director	Data Scientist(s)	Identify and solve data problems and business questions end to end including ideation, data preparation, experimentation, analytical modelling, visualization, communication and recommendations
	Business & Data Analysts	Support the CDO's office in producing insights, findings, reports and liaising with business on answering data questions, managing the knowledgebase and supporting the data culture and literacy initiatives.
Augmontation	Consultant(s)	Support the culture, strategy, governance and innovation initiatives as per the CDO's mandate
Augmentation —		
	Remote (BPO)	Execution of nominated data projects, BAU and operations, etc.

الهيئة السعودية لتخصصات الصحية Saudi Commission for Health Specialties

DEPARTMENT FUNCTIONS

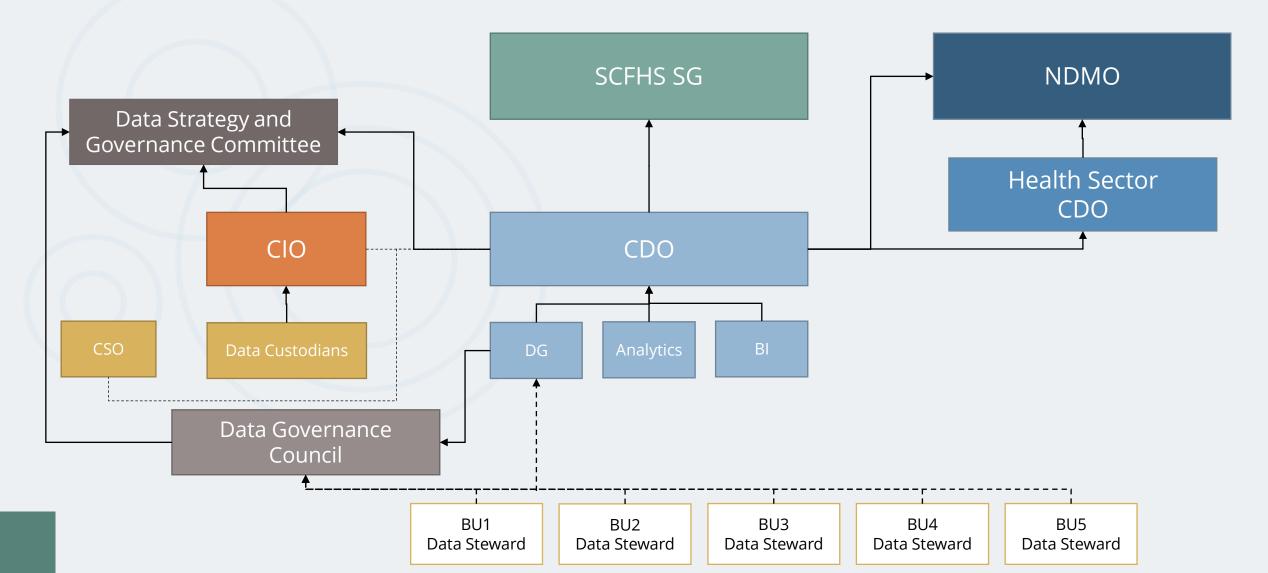
	_					
	Business Intelligence	BI ADMIN	ETL	DATA MODELLING	DATA CUBES	DATA MARTS
		REPORT SERVIC	E BIG DATA SYSTEM ADMIN	DATA ARCHITECTURE	DATA ENGINEERING	
CDO	DATA GOVERNANCE	OPEN DATA & PUBLIC DATA	ACCOUNTABILITY	DATA PRIVACY	DATA PROTECTION	DATA ECOSYSTEM
		DATA GOVERNANCE OFFICE (GDO)	DATA STEWARDSHIP	DATA SHARING	DATA CATALOG	DATA CULTURE
		DATA QUALITY	MASTER DATA			
	ANALYTICS	PREDICTIVE ANALYSIS	MACHINE LEARNING	ARTFICIAL INTELLIGENCE	DEEP LEARNING	BIG DATA
		DATA ENGINEERING	DATA PRODUCTS	VISUALIZATION	ALERTS & NOTIFICATIONS	



Aligned Operating Model



ALIGNMENT OPERATING MODEL

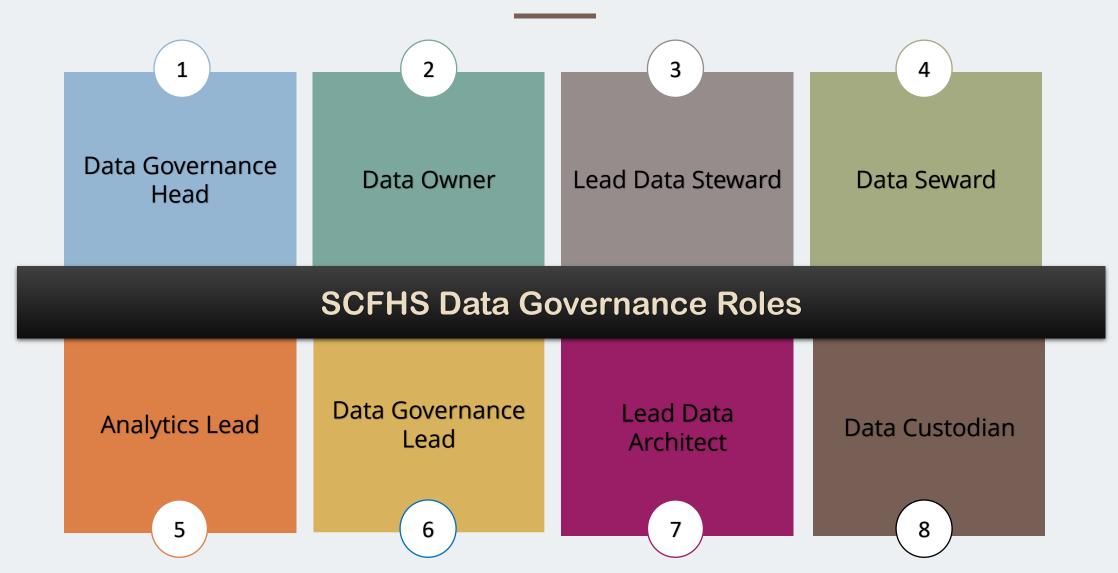




Data Governance Roles & Responsibilities

Main Functional Roles

Data Governance



SCFHS DG Roles

A business role as the LDS works in one or many specific subject areas. considered the subject matter expert in the business domain. LDS creates the data policies, the detailed data profiling

rules, and the detailed Data Quality rules for their area

data (with the support of the data stewards),

Lead Data Steward

Data Governance Lead

To promote data-driven culture. DGL
ensures the compliance with the national data-related
regulations, adopting data management best practices,
monitoring data policies with LDSs and DOs, ensure the
validity of data standards with DCs and LDAs. DGL
ensures the alignment with the strategic directions and
data is understandable and trustworthy.

одн 01

Data Governance Head

The highest executive role related to data in SCFHS. This role chairs the Data Strategy and Governance Committee, appoint members, and defines the general directions related to data in terms of policies and usages in alignment with the SCFHS Strategy.

)4

Data Steward

A business or/and technical role who reports to the LDS or to the DGL and works with other data roles daily. DS works in specific subject areas (business domains), understands in-domain data and how it is related to the business details; and responsible for policies, rules, terms, metadata, issues, and other requirements within her/his area of work,

Lead D

Lead Data Architect

Designs or leads the design technical solutions for the Data. This covers the data models, the data platform architecture design, design the data lifecycles, design data flows, data integration design, data stores design (e.g. operational, data warehouse), data storage design, and the alignment with the dev team.

02

Data Owner

An executive role as the DO is accountable for the data assets within her/his domain area. The Data Owner approves the general data policies related to the owned data assets, and review, approve the business use cases that utilize this data. Data owner is assigned based on the business subject areas.

)5 A

Analytics Lead

Leads efforts to unlock the value of the data in practical terms, creates business use cases for all stakeholders, carries out executive reporting, statistics, applies business intelligence, advanced analytics and AI, oversees data monetization, data products discovery, and any activities that turn data into business value.

Data Custodian

A technical role who administers and manages the technical operations of the data such as: data hosting, data storage, applying data protection and security rules, applying data sharing rules, applying data retention and archiving rules, ensure the availability of the data and other technical requirements defined by the LDG and the LDA.

O1 Data Governance Head

The Data Strategy & Governance Committee Head (DGH) is the highest executive role related to data in the Commission. The main responsibilities of this role are to:

- Approve, endorse and sponsor the data strategy and express the general directions related to data in terms of policies and usages in alignment with the business strategy.
- Chair Data Strategy & Governance Committee during the periodical meetings or urgent meetings related to data.
- Approve Data Strategy & Governance Committee membership.
- Approve the organizational data policies and regulations.
- Approve the final ratification on the Data Policies after the approval of the Data Owners and Analytics Lead.
- DGH is the ultimate decision-maker for any unresolved issues related to data or information between the Data Owners inside the commission.
- DGH is the ultimate decision-maker for the matters of cooperation with external agencies and funding decisions related to the strategic data projects.
- DGH is the Executive Sponsor of the data-driven transformation.

02 Data Owner

Data owner is an executive business-oriented role inside the Commission as the DO is accountable for the data assets within her/his business domain area (business subject area). The main responsibilities of this role are to:

- Approve the general policies related to in-domain data with the support of the Data Governance Lead. The policies must be defined and formulated, and documented and maintained by the Lead Data Steward, but they should be approved by the Data Owner to be officially effective. This includes data classification and protection decisions:
 - The general data access policies such as which users are allowed to see which data.
 - The general data protection policies such as personal data.
 - The general data quality policies such as the policy pertaining to how to handle data quality issues such as missing data or duplicate data.
 - The general data retention policies such as how and when to move the data to different tiers.
- Approve the business terms (e.g. business glossary), classifications, taxonomies, and other knowledge artifacts related to her/his domain.
- Review and approve the business use cases (e.g. KPIs, reports, analytical use cases, etc.) that utilize the owned data.
- Assign the Lead Data Stewards within her/his domain areas.
- Approve the appointment of nominated data stewards.
- Decide on unresolved data issues within her/his domain (for the cases unresolved by the Lead Data Steward). If the unresolved data issue is beyond the boundaries of the relevant domain, then it could be escalated to the Data Strategy & Governance Committee.

LDS **03**

Lead Data Steward

LDS is a business-oriented role who reports to the DO and works closely with the Analytics Lead and the Data Governance Lead. The LDS assumed an expert in the respective business domain who possess full understanding for the in-domain data and how it is related to the business activities and processes. LDS works in one or more specific business domains. The main responsibilities of this role are to:

- Create the data policies (i.e. Data access policies, data protection policies, data retention policies, and data quality policies) related to the domain.
- Define the detailed data profiling rules, the detailed business rules, the detailed Data Quality rules (i.e. data cleansing rules) within her/his domain data.
- Define the relevant data standards related to the domain.
- Define the business terms (e.g. business glossary), classifications, taxonomies, and other knowledge artifacts related to the domain.
- Assume the role of managing the communication with all internal or external parties for the matters related to her/his domain data (in cooperation with Data Governance Lead). This responsibility might be delegated to data stewards.
- Assign and lead data stewards within her/his domain to manage the daily operational business or technical activities related to the data.
- Discover and propose new business use cases (i.e. new cases to leverage the value of the data).
- Resolve data issues within her/his domain or escalating them to the Data Owner.

DS 04

Data Steward

DS is a business and/or technical role who reports to the Lead Data Steward or to the Lead Data Governance and works with them daily. The DS works in one or many specific subject areas (business domains). The main responsibilities of this role are to:

- Document and maintain the data policies (i.e. Data access policies, data protection policies, data retention policies, and data quality policies) in her/his domain.
- Document and maintain the data standards in cooperation with the Data Architecture team and DG Team in her/his domain.
- Document and fill in the core business metadata (e.g. business terms, valid data values, business metrics, etc.) in cooperation with the Data Architecture team.
- Document and fill in the core technical metadata (e.g. database and data stores, physical tables, etc.) in cooperation with the Data Architecture team and Data Custodian.
- Document the detailed data profiling rules, the detailed business rules, the detailed data quality rules (i.e. data cleansing rules) within her/his domain data.
- Identify and capture any data-related issues within her/his domain, and keep the issues log up-to-date.
- Ensure that data decisions are communicated, and business users understand impacts of the decisions to their lines of business.
- Provide the technical expertise around source systems, ETL (Extract, Transform, and Load) processes, data stores, data warehouses, and BI tools.

05 Analytics Lead

The AL is the main role who leads the efforts to unlock the value of the data in practical terms. The main responsibilities of this role are to:

- Lead the development and the refreshment of the data strategy (including Analytics Strategy).
- Define the internal and external customer segments of the data (i.e. information profile).
- Lead the efforts to discover the business use cases of the data for all relevant stakeholders, such as:
 - Executive reporting;
- Self-Service Analytics;
- Business reporting:

- Data Storytelling and Data Infographics;
- Generating official statistics;
 - Applying advanced analytics and AI;
- Business intelligence activities;
- Lead any data monetization efforts and data-driven innovation.
- Participate in the design of business metrics and KPIs.
- Data products discovery (i.e. Data Productization).
- Promote data-driven decision-making processes inside the Commission (with the DG Lead).
- Ensure applying data policies on any generated information or content.
- Lead the analytics team, such as: data analysts, data business analysts, data scientists, AI experts, data quality lead, statisticians, and data visualization specialists.

DGL 06

Data Governance Lead

DGL is the key role to empower data-driven culture in the Commission. The main responsibilities of this role are to:

- Ensure the compliance with data-related regulations and rules such as: SDAIA, NDMO. NCIA, CITC, and the GDPR.
- Formulate and update the data principles as the core guiding principles for any data-related decisions.
- Adopt the relevant data management trends, best practices, and standards.
- Ensure the readiness and validity for all data-related policies in cooperation with LDSs and Dos.
- Ensure the timely access to the relevant data by the users through monitoring the compliance with the data accessibility policies.
- Ensure the safe access to the relevant data by the users through monitoring the compliance with the data protection policies.
- Ensure the full understandability of the data by the users through capturing and publishing the relevant metadata.
- Define and refine the data roles in the Commission in alignment with the organizational structure and current responsibilities.
- Design and monitor the data governance processes in line with the business processes inside the commission.
- Promote data-driven decision-making processes inside the Commission (with the Analytics Lead).
- Playing a key role with Analytics Lead in developing and updating the data strategy.

LDA **07**

Lead Data Architect

The LDA is the main role who designs or leads the design of data technical solutions. The main responsibilities of this role are to:

- Data models development such as developing the enterprise data models and the logical data models.
- Leading the design and implementation of the data platform architecture including the data stores (e.g. operational, data warehouse, master data, etc.).
- Design the data integration architecture (e.g. DW / BI Architecture, Data Virtualization, etc.)
- Define and manage the end-to-end data lifecycle and the constituent data flows and data lineages.
- Lead or guide the data quality team to apply the data quality rules.
- Ensure the validity of the Reference and Master Data.
- Lead or guide the data engineers' team to ensure the proper implementation of the designed solution.
- Select technology vendors in alignment with the development team and data custodians.
- Ensure the alignment with any enterprise-level practice such as Enterprise Architecture, Strategy Management, PMO, or Corporate Performance Management.
- Develop the overall Data/Information ecosystem.
- Participate actively in developing and updating the data strategy.

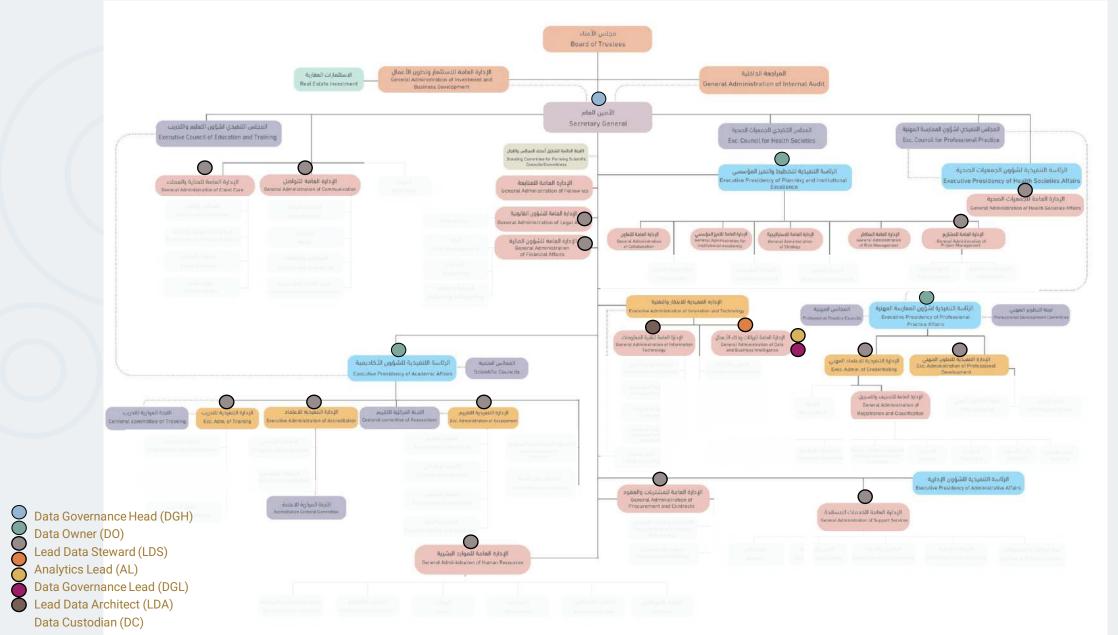
DC Data Custodian

Data Custodian is a technical role who administers and manages the technical operations of the data. The main responsibilities of this role are to:

- Apply the data policies and rules, such as:
 - Applying the data accessibility rules.
- Applying data retention and archiving rules.

- Manage data hosting and data storage.
 Applying the data sharing rules.
 Mange the availability of the data as per the policies (including clustering and failover of the database).
- Perform the appropriate backup and recovery mechanisms to guarantee the recoverability of the data (i.e. business continuity).
- Detect and report any error that occurs in the databases, DBMS, or data servers.
- Specify Database Performance Service Levels.
- Maintain the DBMS software.
- Install and administer related data technology.
- Specify Data Technology Requirements before determining what technical solutions to choose.
- Manage and Track the Data Technology Licenses.
- Monitor and Tune the data warehousing processes
- Plan the expected data growth.

Data Domain	Data Sub-Domain	Source System	Data S&G Board Head	Data Owner	Lead Data Steward	Data Steward	Data Custodian	Data Governance Lead	d Analytics Lead Data Architect
	License Exam data	Examinations System	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Alaa Bin taha	Nouf Alqublan	Khaled Alzahrani
	Questions Bank	ExamSoft (Cloud)	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Ghaida Alhathloul - Assessment Dept.	Nouf Alqublan	Khaled Alzahrani
		Person	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		?	Nouf Alqublan	Khaled Alzahrani
		Prometrec	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		?	Nouf Alqublan	Khaled Alzahrani
Assessment Management	Clinical Assessment Data	EMS	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Mishaal Almuairi - Assessment Dept.	Nouf Alqublan	Khaled Alzahrani
	Symmetric Analysis Data	Jad - Alteryx	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Mohammed Alqahtani - Assessment Dept.		
	Question Writers Data	Item Development writer (IDS)	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Rania Alagel - Assessment Dept.	Nouf Alqublan	Khaled Alzahrani
	Item writers E-Learning Module	Elearning Module - Item Author Certification	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Fadi Munshi		Arwa Alrajhi - Assessment Dept.		
	Professional Training Data	Training System	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Sami Haidar	Feras Alduraibi	Zoha Zarea	Nouf Alqublan	Khaled Alzahrani
Training Management	Matching Data	Matching System	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Sami Haidar	Abdulaziz Almajid	Zaid Kehalah, Mohammed Alayobi	Nouf Alqublan	Khaled Alzahrani
	Trainees Progress Data	One45 System	Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr. Sami Haidar	Rowaida Almutairi	Mohammed Alayobi	Nouf Alqublan	Khaled Alzahrani
Accreditation	Accreditation		Dr. Ayman Abdo	Dr. Wisam Abu Zanadeh	Dr.Hussain AlHussain	Hind AlShammari	System will be luanched in April	Nouf Alqublan	Khaled Alzahrani
	Practitioner's Data	Mumaris Plus (CRM)	Dr. Ayman Abdo	Dr. Fahad Alwahabi	Dr.Abdulrahman Alnafjan	Abdullah Albarqi	Mohammad Abdulrahman	Nouf Alqublan	Khaled Alzahrani
Practitioners Management	Practitioner's Data -integrated	Mumaris	Dr. Ayman Abdo	Dr. Fahad Alwahabi	Dr.Abdulrahman Alnafjan	Abdullah Albarqi	Mohammad Abdulrahman	Nouf Alqublan	Khaled Alzahrani
	Practitioner's Data - inactive	4s	Dr. Ayman Abdo	Dr. Fahad Alwahabi	Dr.Abdulrahman Alnafjan	Abdullah Albarqi	Mohammad Ahmad	Nouf Alqublan	Khaled Alzahrani
Professional Development	Continuous Professional Development Data	Mumaris	Dr. Ayman Abdo	Dr. Fahad Alwahabi	Dr.Manal Alnasser	Ashia Alanezi	Mohammad Abdulrahman	Nouf Alqublan	Khaled Alzahrani
Professional Associations	Voting Data	Saudi Board Association System	Dr. Ayman Abdo	Dr. Mohammad Alsultan	Huda Alfuhaily	?	Zoha Zarea	Nouf Alqublan	Khaled Alzahrani
	Customer Support Data	Call Center	Dr. Ayman Abdo		Sara Alharbi	Ghader Aljizani	Contact directly with Extensya company	Nouf Alqublan	Khaled Alzahrani
Client Care	Cutomer Technical support	Tawasoul (Ticketing System)	Dr. Ayman Abdo		Aljohara Alamir	Ghader Aljizani	Ashwag Alasmari	Nouf Alqublan	Khaled Alzahrani
	Prectionners Appointment	Appointments Booking System	Dr. Ayman Abdo		Aljohara Alamir	?	Mohammed Ayoubi	Nouf Alqublan	Khaled Alzahrani
Councils and Committee's Meeting Management	Meetings Data	E-Meeting System	Dr. Ayman Abdo		Sara Alharbi	Alaa Algubaisi	?	Nouf Alqublan	Khaled Alzahrani
Communication	Customer Satisfaction	Press Ganey	Dr. Ayman Abdo		Aljohara Alamir	Ashwag Alduraie	Contact directly with the company	Nouf Alqublan	Khaled Alzahrani
	Financial Data	ERP	Dr. Ayman Abdo		Emad Alkabi		Yasmeen asiri	Nouf Alqublan	Khaled Alzahrani
	Planning and Budgeting Data	Oracle Planning & Budgeting (Hyperion)	Dr. Ayman Abdo		Emad Alkabi		Yasmeen asiri	Nouf Alqublan	Khaled Alzahrani
Enterprise Resources	HR Data	ERP Hadir	Dr. Ayman Abdo		Saud Alshammari Saud Alshammari		Yasmeen asiri	Nouf Alqublan	Khaled Alzahrani
	Attendance Management Data Employees Performance and Career development (HR)	Oracle Fusion Talent Management Cloud	Dr. Ayman Abdo Dr. Ayman Abdo		Saud Alshammari		? Yasmeen asiri	Nouf Alqublan	Khaled Alzahrani
	Procurement and Contract Data	ERP	Dr. Ayman Abdo		Meshari bin Falij	Abdullah Alwonais	Yasmeen asiri	Nouf Alqublan	Khaled Alzahrani
Projects Management	Projects Data	EPM	Dr. Ayman Abdo	Dr. Abdulrahman Huosawi	Essa Alessa	Fawaz Alwohaif	Contact directly with the company	Nouf Alqublan	Khaled Alzahrani
E-Learning	E-Learning	E-Learning (LMS)	Dr. Ayman Abdo	Mohammed Althunayan	Bashayer Alyousfi		?	Nouf Alqublan	Khaled Alzahrani
	Technical support Data	Manage Engine	Dr. Ayman Abdo	Mohammed Althunayan	Saleh Alhagbani		Haitham alqahtani	Nouf Alqublan	Khaled Alzahrani
	Documents Management	Documents Management System (DMS)	Dr. Ayman Abdo	Mohammed Althunayan			?	Nouf Alqublan	Khaled Alzahrani
Sunnort Systems				AictiuriaydH					ruzalii alii





Data Consumer Profiles

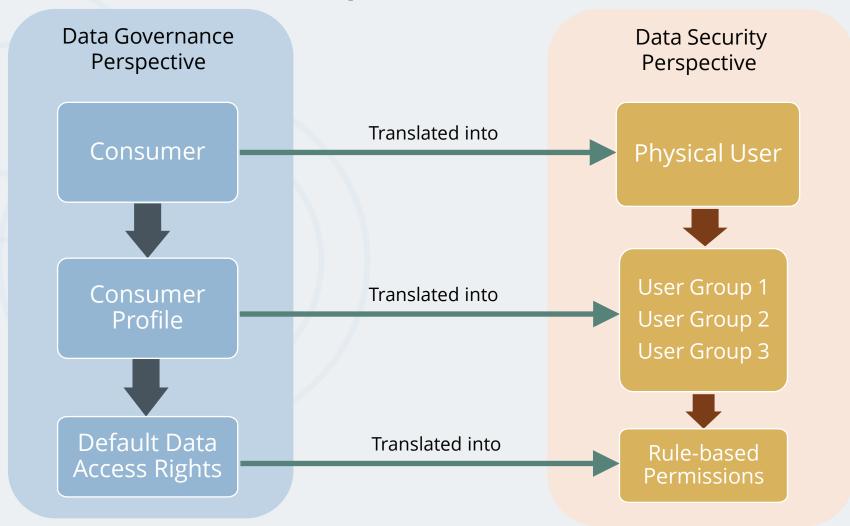


About Consumer profiles

- 1. Data Consumer Profiles represent the high-level generic user groups that would be used to classify the consumer based on their common data needs (what they want) and characteristics (sensitive gov. agency, for-profit organization, etc.).
- 2. Each consumer profile grants the user specific **Data Entitlements** (Data Entitlement is aggregation of the particular data elements to which a user authorization provides access and the actions that the user can make).
- 3. A Data Consumer profile (DCP) represents the default entitlements granted to a consumer when she/he is assigned into specific DCP. However the authorized security person might change these entitlements at a more granular level.
- 4. These consumer profiles would be decomposed later by the security team into **granular user groups** using the security controls, mechanism, and tools used in the Commission.

الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

Data Governance is about segmenting the consumer into default profiles





Consumer Profiling Criteria (perspectives)

Consumer can be profiled based on the following criteria (or perspectives)

// _				
	Characteristics/Needs	Connection Level	Relationship Type	Entity Type
	Common political or economical nature or common data needs that characterize each profile.	 Internal, National (direct), National (indirect) Regional, International 	 Beneficiary (or Customer): Primary Customer (Main Beneficiary) Secondary Customer (Casual Beneficiary) Tertiary Customer (Temporary Beneficiary) Partner Vendor Contractor Employee Investor Regulator Regulated Entity Creditor or Funder Peer Agency Competitor 	 Individual Governmental Semi-governmental For-profit Business NGO or Community



Data Entitlement Dimensions: 1) Confidentiality Level

Data Entitlements would be based on two dimensions. the first one is **Confidentiality Level,** as defined in the Data Policy: Public – Internal – Confidential – Restricted – Sealed

Confidentiality Level	Classification Criteria
Public	All information explicitly approved by SCFHS Management for release to public is considered as "Public". Unauthorized disclosure of such information does not cause any harm or damage to SCFHS.
Internal	All information that is not explicitly classified in one of other groups is considered as "Internal". Unauthorized disclosure of such information could have a minor impact on the business processes and reputation of SCFHS.
Confidential	Sensitive' business information which in case of disclosure may have financial losses, an impact on customer/supplier relationships or reputation, is considered as "Confidential".
Restricted	'Most sensitive' business information which in case of disclosure may have serious financial losses, severe impact on customer/supplier relationship or reputation is considered as "Restricted".
Sealed	"Extremely sensitive' business information which in case of disclosure may have serious financial losses, severe impact on customer/supplier relationship or reputation is considered as "Sealed". The information that can be authorized only by SG or Board of Trustees on case-by-case basis.



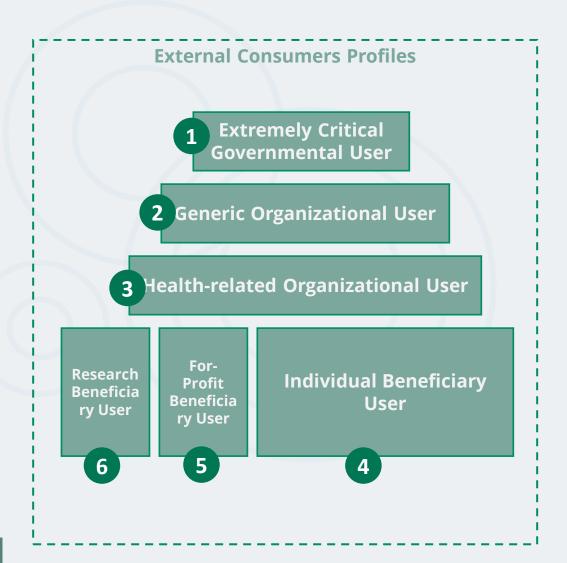
Data Entitlement Dimensions: 2) Privacy Tag

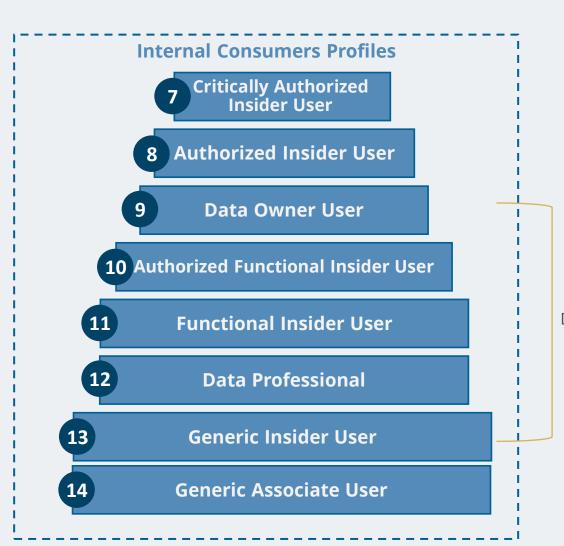
The Second dimensions is the **Privacy Tag,** as each field would be tagged based on the type from the perspective of personal privacy and organizational level.

Data Privacy Tag	Definition	Examples (can be changed case-by-case)
PI-ID	Personal Information - Identifier: It provides an explicit link to a data subject and can directly identify an individual.	First Name, Last Name, Father Name, Personal Email, Mobile Phone, Employee ID, Business Phone, Business Email, Home Address, Personal Photo, Passport Info, National ID/Iqama ID, Handwritten Signature, IP address, MAC Address, Vehicle registration plate number, Driver's license number, Fingerprints, Passport Info.
PI-DM	Personal Information -Demographic or Quasi-identifier: by itself does not identify a specific individual, but Qls can be aggregated and linked with other information to identify data subjects.	Full Birth Date, Birthplace, Religion, Nationality Full Home Address, Gender, Marital Status, Current City.
PI-FN	Personal Information -Financial Information. Most of these data are sensitive	Bank Account Number, Bank Balance, Credit Card Number, Salary, Loans.
PI-ED	Personal Information -Education Information	Professional Certificates, University Certificates, GPA.
PI-WI	Personal Information-Work Information (Employment)	Join Date, Payments, Deductions, Leaves Data, Attendance Data, Projects Hours Data, Out-of-office Data, Service Data, HR Requests Data, Training Courses, Performance Evaluation Data, Contract Data, Emails, BU, Department, Manager, Location, Grade.
PI-HL	Personal Information - Health Data	Health Insurance Information, Current Medical Conditions, Medical History, Medications, Allergies, Hospital admission, Disabilities information, discharges, Lab results, Radiology results, specimen collection, payments.
PI-BH	Personal Information - Behavioral Data: The behavioral data on digital channels.	Clickstream Data, Cookies files, eye tracking data.
OI	Organizational Information. Information related to the organization as an entity (fictitious person)	Services Public Information, Clients Public Information, Products Public Information, Financial Public Information, Number of Employees, Accredited Vendors Data, Current Deals, Cash Flow Data, Financial Statements, Projects Pricing Data, Revenues & Losses Data, GL, Current Loans.
Non-PI	No privacy tag is applicable	



Consumer Profiles: Overview





Domain Based

Consumer Profile: ECGU



Consume	er Profile #01	"Extremely Critical Governmental User" - ECGU
	Key Characteristics	 External Occasional Data consumers Highly sensitive political entities that might request data for undisclosed but sensitive reasons. Request data or information on Ad-hoc basis. Not directly related to the core business of the Commission.
Profile	Examples	 Royal Court Crown Prince Office Council of Political and Security Affairs Council of Economic and Development Affairs The Cabinet Ministry of Justice (i.e. PP, Nazaha*) Mol (i.e. public security) and Presidency of State Security مرکز الأمن الوطني
	Connection Level	National (Indirect)
Гуре	Relationship Type	 Regulator/Supervisory
	Entity Type	■ Governmental
nents	Typical End Users	 High-profile Official or decision-maker Security-critical official
Entitlements	Typical Entitlements	 Can access (read) to all Data at all level of details. Can request the commission to update any data based on approvals (conditional).

The default Data Access Rights for: "Consumer Profile #01 - Extremely Critical Governmental User"



	Public	Internal	Confidentia	l Restricted	Sealed
PI-ID	Α	Α	Α	Α	Α
PI-DM	Α	Α	Α	A	Α
PI-FN	Α	Α	Α	Α	Α
PI-ED	Α	Α	Α	Α	Α
PI-WI	Α	Α	Α	Α	Α
PI-HL	Α	Α	Α	Α	Α
PI-BH	Α	Α	Α	Α	Α
OI	Α	Α	Α	Α	Α
Non-PI	Α	Α	Α	Α	Α
A : Access	X : Not Allowed	*: Conditional (must meet p	pre-defined conditions)	**: Exceptional (must authorized by	relevant authorities)

Consumer Profile: GOU



Consume	er Profile #02	"Generic Organizational User" - GOU
e e	Key Characteristics	 External Occasional or External regular Data consumers Governmental or semi-Governmental entities that might request data for their own goals. Request data or information on Ad-hoc basis or on pre-defined intervals. Not directly related to the core business of the Commission.
Profile	Examples	 General Authority for Statistics (GASTAT) Saudi Data and Artificial Intelligence Authority (SDAIA) Human Resources Development Fund (HRDF) ADAA
	Connection Level	National (Indirect)
Гуре	Relationship Type	Beneficiary (Secondary such as GaStat or Tertiary such as HRDF)
F	Entity Type	Governmental or Semi-governmental or NGO
ents	Typical End Users	 Data Collection user at a data-critical governmental entity One-time (temporary) user to get specific data for specific case.
Entitlements	Typical Entitlements	 Usually can read (read) to all Data available for internal users Cannot access any record-level data unless this entity goes through the "Data Access Request process".

The default Data Access Rights for: "Consumer Profile #02 - Generic Organizational User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	A*	A**	A**	Χ
PI-DM	A	A*	A**	A**	X
PI-FN	Α	A*	A**	A**	X
PI-ED	Α	A*	A**	A**	X
PI-WI	Α	A*	A**	A**	X
PI-HL	Α	A*	A**	A**	X
PI-BH	Α	A*	A**	A**	X
OI	Α	Α	A**	A**	X
Non-PI	Α	Α	A**	A**	X

X: Not Allowed

Consumer Profile: HOU



Consumer Profile #03		"Health-related Organizational User" - HOU		
Profile	Key Characteristics	 External user. Mainly Data Consumers and Data Creators Entity who interacts with the Commission regularly in matters related to health practice. Core business is related to healthcare. 		
Pro	Examples	 Saudi Ministry of Health (MOH) Saudi Health Council (SHC) Accredited Local Healthcare University (e.g. medical certificate granting entities) 		
	Connection Level	■ National (direct)		
Гуре	Relationship Type	■ Partner		
F	Entity Type	■ Governmental or Semi-governmental or NGO		
nents	Typical End Users	 MOH user University Dean User 		
Entitlements	Typical Entitlements	 Access individual data related to health practitioners registration or trainees Access to most of the aggregates related to health practice. 		

The default Data Access Rights for: "Consumer Profile #03 - Health-related Organizational User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	A*	A*	A**	Х
PI-DM	Α	A*	A*	A**	X
PI-FN	Α	A*	A*	A**	X
PI-ED	Α	A*	A*	A**	X
PI-WI	Α	A*	A*	A**	X
PI-HL	Α	A*	A*	A**	X
PI-BH	Α	A*	A*	A**	X
OI	Α	A*	A*	A**	X
Non-PI	Α	A*	A*	A*	X

Consumer Profile: IBU



Consum	er Profile #04	"Individual Beneficiary User" - IBU
ile File	Key Characteristics	 Represents the main individual stakeholders that the Commission must serve or regulate. External user. Mainly Data Creators (i.e. customer-generated data) Data consumers for the data generated by the Commission
Profile	Examples	 Healthcare practitioners. Healthcare Trainees (or students).
	Connection Level	 National (direct): Saudi and Non-Saudis.
Type	Relationship Type	Primary Beneficiary
F	Entity Type	 Individual
ients	Typical End Users	Practitioner user.Trainee user.
Entitlements	Typical Entitlements	 Access her/his own personal data only. Update her/his own personal data, but only with clear rules. Access non-personal data, but only with clear rules.

The default Data Access Rights for: "Consumer Profile #04 - Individual Beneficiary User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Personal (A)	Personal (A)	Personal (A)	Personal (A)	Χ
PI-DM	Personal (A)	Personal (A)	Personal (A)	Personal (A)	X
PI-FN	Personal (A)	Personal (A)	Personal (A)	Personal (A)	X
PI-ED	Personal (A)	Personal (A)	Personal (A)	Personal (A)	X
PI-WI	Personal (A)	Personal (A)	Personal (A)	Personal (A)	X
PI-HL	Personal (A)	Personal (A)	Personal (A)	Personal (A)	X
PI-BH	Personal (A)	Personal (A)	Personal (A)	X	Χ
OI	Α	A*	A* or A**	X	Χ
Non-PI	Α	A* or Personal (A)	A* or Personal (A)	A* or A**	X

X: Not Allowed *: Conditional (must meet pre-defined conditions) **A**: Access

Consumer Profile: PBU



Consum	er Profile #05	"For-Profit Beneficiary User" - PBU
Profile	Key Characteristics	 Represents businesses that need to utilize the Commission data for commercial or operational purposes. This is a generic profile for customer segments that must be defined by any data monetization strategy. External Data consumers for the data generated by the Commission.
Pro	Examples	 Private hospitals and healthcare providers. International healthcare providers. Pharmacies. Insurance companies. Ex: Lean, صحتي
	Connection Level	National, Regional or International.
Гуре	Relationship Type	Secondary Beneficiary
F	Entity Type	■ For-profit business.
ients	Typical End Users	Healthcare recruiter.
Entitlements	Typical Entitlements	 Access some non-restricted personal information of individuals based on the this user consent. Access some aggregates and insights not intended for public publishing.

The default Data Access Rights for: "Consumer Profile #05 - For-Profit Beneficiary User"



	Public	Internal	Confidentia	l Restricted	Sealed
PI-ID	Α	A**	A**	A**	Χ
PI-DM	Α	A*	A*	A* or A**	X
PI-FN	Α	A*	A*	A* or A**	X
PI-ED	Α	A*	A*	A* or A**	X
PI-WI	Α	A*	A*	A* or A**	Χ
PI-HL	Α	A*	A*	A* or A**	X
PI-BH	Α	A**	A**	A**	X
OI	Α	A*	A*	A* or A**	X
Non-PI	Α	A*	A*	A* or A**	Χ
A : Access	X : Not Allowed	*: Conditional (must meet	pre-defined conditions)	**: Exceptional (must authorized by r	elevant authorities)

Consumer Profile: RBU



Consumer Profile #06		"Research Beneficiary User" - RBU
Profile	Key Characteristics	 Represents individual users who need to use data or information for research purposes. Their data needs must not be commercial or for-profit. The purposes of the usage must be beneficial for the Kingdom. External Temporary Data consumers for the data generated by the Commission.
Pro	Examples	 Masters or PHD degree student. Non-profit research center.
	Connection Level	National, Regional or International.
Туре	Relationship Type	Tertiary Beneficiary
	Entity Type	Individual
nents	Typical End Users	 Individual researcher. Individual student.
Entitlements	Typical Entitlements	 Access some non-restricted personal information of individuals based on the this user consent. Access some aggregates and insights not intended for public publishing.

The default Data Access Rights for: "Consumer Profile #06 - Research Beneficiary User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	A**	A**	X	X
PI-DM	Α	A*	A**	X	X
PI-FN	Α	A*	A**	X	X
PI-ED	Α	A*	A**	X	X
PI-WI	Α	A*	A**	X	X
PI-HL	Α	A*	A**	X	X
PI-BH	Α	A**	X	X	X
OI	Α	A*	A**	X	Χ
Non-PI	Α	A*	A**	X	X

Consumer Profile: Critically Authorized Insider User



Consumer Profile #07		"Critically Authorized Insider User" - CAIU
Profile	Key Characteristics	 Internal Highly Authorized user. Enterprise-level user (not peculiar to specific functional domain). No directly involved in the daily operational work. Should be limited to a very few numbers of users (i.e. max 5 users)
Pro	Examples	 Few members of the Commission board. Few members of some sensitive committees
	Connection Level	■ Internal
Гуре	Relationship Type	■ Employee or Partner or Regulator
F	Entity Type	■ Individual
Entitlements	Typical End Users	 Secretary General, The Data Governance Head (as defined in the DG Roles and Responsibilities). Highly authorized Executive user. The Internal Audit General Director
	Typical Entitlements	 Granting this profile to a specific user must be based on high-level approvals or voting by the DG board members or higher. Can access any data item. Should be time-based entitlement.

The default Data Access Rights for: "Consumer Profile #07- Critically Authorized Insider User"



	Public	Internal	Confidentia	al Restricted	Sealed
PI-ID	Α	Α	Α	Α	Α
PI-DM	Α	Α	Α	Α	Α
PI-FN	Α	Α	Α	Α	Α
PI-ED	Α	Α	Α	Α	Α
PI-WI	Α	Α	Α	Α	Α
PI-HL	Α	Α	Α	Α	Α
PI-BH	Α	Α	Α	Α	Α
OI	Α	Α	Α	Α	Α
Non-PI	Α	Α	Α	Α	Α
A : Access	X : Not Allowed	*: Conditional (must meet	pre-defined conditions)	**: Exceptional (must authorized b	y relevant authorities)

Consumer Profile: Authorized Insider User



		Saudi Continussion for Health Specialities
Consumer Profile #08		"Authorized Insider User" - AIU
Profile	Key Characteristics	 Internal Authorized user. Enterprise-level user (not peculiar to specific functional domain). Needs to access the vast majority of the data for critical decision-making or for governance purposes . Should be limited to a few numbers of users (i.e. max 10 users in the Commission).
A	Examples	 Selected executives inside the commission. Authorized committees members. Authorized people who govern or secure data assets.
	Connection Level	■ Internal
Гуре	Relationship Type	■ Employee or Partner or Regulator
L,	Entity Type	■ Individual
Entitlements	Typical End Users	 Data and Business Intelligence (D&BI) Department Director, The Analytics Lead (as defined in the DG Roles and Responsibilities). The Data Governance Lead (as defined in the DG Roles and Responsibilities). The person who lead the data custodians or ensure the security over the data assets. Sensitive committee member.
	Typical Entitlements	 Granting this profile to a specific user must be based on high-level approvals or voting by the DG board members. Can access any data item unless it is sealed. Might be time-based entitlement.

The default Data Access Rights for: "Consumer Profile #08 - Authorized Insider User"



	Public	Internal	Confidentia	al Restricted	Sealed
PI-ID	Α	Α	A*	A*	X
PI-DM	Α	Α	A*	A*	X
PI-FN	Α	Α	A*	A*	X
PI-ED	Α	Α	A*	A*	X
PI-WI	Α	Α	A*	A*	X
PI-HL	Α	Α	A*	A*	X
PI-BH	Α	Α	A*	A*	X
OI	Α	Α	A*	A*	X
Non-PI	Α	Α	A*	A*	X
A : Access	X : Not Allowed	*: Conditional (must meet pro	e-defined conditions)	**: Exceptional (must authorized b	y relevant authorities)

Consumer Profile: Data Owner User



Consum	er Profile #09	"Data Owner User" - DOU	
Profile	Key Characteristics	 Internal Authorized user. Functional user (peculiar to specific functional domain). The main decision-maker when it comes to her/his domain data. 	
Pro	Examples	 The Chief Executive Directors of the core and support business units. The Executive Directors The General Directors 	
	Connection Level	■ Internal	
Гуре	Relationship Type	■ Employee only	
	Entity Type	■ Individual	
ients	Typical End Users	■ The Data Owners (as defined in the DG Roles and Responsibilities).	
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be based on high-level approvals or voting by the DG board members. Can access any domain-specific data item unless it is sealed. 	



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-DM	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-FN	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-ED	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-WI	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-HL	Α	Α	Domain (A)	Domain (A)	Domain (A*)
PI-BH	Α	Α	Domain (A)	Domain (A)	Domain (A*)
OI	Α	Α	Domain (A)	Domain (A)	Domain (A*)
Non-PI	Α	Α	Domain (A)	Domain (A)	Domain (A*)
A : Access	X : Not Allowed	*: Conditional (must meet p	ore-defined conditions) **	: Exceptional (must authorized b	oy relevant authorities)

Consumer Profile: Authorized Functional Insider User



Consumer Profile #10		"Authorized Functional Insider User" - AFIU		
Profile	Key Characteristics	 Internal Authorized user. Functional user (peculiar to specific functional domain). The user must be critical in operating the business in this domain. 		
	Examples	 The Department Managers of the core and support business units. The supporting data governance users. 		
	Connection Level	■ Internal		
Гуре	Relationship Type	■ Employee only		
F.	Entity Type	■ Individual		
nents	Typical End Users	 The Lead Data Stewards (as defined in the DG Roles and Responsibilities). The Core business user in the domain. 		
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be done by the Data Owner Users. No access to any sealed data. Can access any domain-specific data item unless it is restricted. 		

The default Data Access Rights for: "Consumer Profile #10 - Authorized Functional Insider User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	Α	Domain (A)	Domain (A)	X
PI-DM	Α	Α	Domain (A)	Domain (A)	X
PI-FN	Α	Α	Domain (A)	Domain (A)	X
PI-ED	Α	Α	Domain (A)	Domain (A)	X
PI-WI	Α	Α	Domain (A)	Domain (A)	X
PI-HL	Α	Α	Domain (A)	Domain (A)	X
PI-BH	Α	Α	Domain (A)	Domain (A)	X
OI	Α	Α	Domain (A)	Domain (A)	X
Non-PI	Α	Α	Domain (A)	Domain (A)	X
A : Access	X : Not Allowed	*: Conditional (must meet p	re-defined conditions) **: Ex	ceptional (must authorized by r	relevant authorities)

Consumer Profile: Functional Insider User



Consumer Profile #11		"Functional Insider User" - FIU
Profile	Key Characteristics	 Internal Authorized user. Functional user (peculiar to specific functional domain). The user must be related to the daily work in this domain.
Pre	Examples	 The Department Employees. The supporting data governance users.
_	Connection Level	Internal
Гуре	Relationship Type	■ Employee only
	Entity Type	■ Individual
nents	Typical End Users	 The Data Stewards (as defined in the DG Roles and Responsibilities). The department users that participate in handling the business activities and processes.
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be done by the Data Owner Users. No access to any sealed or restricted data. Can access to any domain-specific data item unless it is restricted or sealed.

The default Data Access Rights for: "Consumer Profile #11 - Functional Insider User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	Α	Domain (A)	Domain (A*)	X
PI-DM	Α	Α	Domain (A)	Domain (A*)	X
PI-FN	Α	Α	Domain (A)	Domain (A*)	X
PI-ED	A	Α	Domain (A)	Domain (A*)	X
PI-WI	Α	Α	Domain (A)	Domain (A*)	X
PI-HL	A	Α	Domain (A)	Domain (A*)	X
PI-BH	Α	Α	Domain (A)	Domain (A*)	X
OI	Α	Α	Domain (A)	Domain (A*)	X
Non-PI	Α	Α	Domain (A)	Domain (A*)	X

*: Conditional (must meet pre-defined conditions)

A: Access

^{**:} Exceptional (must authorized by relevant authorities)

Consumer Profile: Data Professional



Consumer Profile #12		"Data Professional User" - DPU
Profile	Key Characteristics	 Authorized user. Functional user (peculiar to specific functional domain) or Enterprise-level user. Technical role which is important to support the business.
Pro	Examples	 IT Department. D&BI Department. Data or Technology Vendor.
4)	Connection Level	■ Internal or External
Гуре	Relationship Type	■ Employee, Vendor, or Contractor.
	Entity Type	■ Individual
ints	Typical End Users	 The Data Custodians (as defined in the DG Roles and Responsibilities). The Data Architect (as defined in the DG Roles and Responsibilities). D&BI Department employee. Vendor user or Contractor.
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be done by the Data Owner and IT Manager or the Data Management Head. No access to any sealed or restricted data. If the data professional needs more entitlements to perform her/his work (data analysis work), then she/he can be assigned to other profiles as needed (e.g. assigned to the profile "Authorized Functional Insider User")

The default Data Access Rights for: "Consumer Profile #12 - Data Professional User"



					Saudi Colliniission for Freatht Special
	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	Α	A*	A*	X
PI-DM	Α	Α	A*	A*	X
PI-FN	Α	Α	A*	A*	X
PI-ED	Α	Α	A*	A*	X
PI-WI	Α	Α	A*	A*	Χ
PI-HL	Α	Α	A*	A*	X
PI-BH	Α	Α	A*	A*	X
OI	Α	Α	A*	A*	X
Non-PI	Α	Α	A*	A*	X
A : Access	X : Not Allowed	*: Conditional (must meet p	re-defined conditions) **	: Exceptional (must authorized by	relevant authorities)

Consumer Profile: Generic Insider User



Consumer Profile #13		"Generic Insider User" - GIU	
Profile	Key Characteristics	 Any internal user. Enterprise-level user. 	
Pre	Examples	 Any employee Data or Technology Vendor. 	
	Connection Level	■ Internal or External	
Туре	Relationship Type	■ Employee, Vendor, or Contractor.	
	Entity Type	■ Individual	
ents	Typical End Users	 Employee User Vendor user or Contractor. 	
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be done by the Data Owner and IT Manager or the Data Management Head. In general, no access to any sealed or restricted or confidential data. If the data professional needs more entitlements to perform her/his work, then she/he can be assigned to other profiles as needed. 	

The default Data Access Rights for: "Consumer Profile #13 - Generic Insider User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	Α	A**	A**	Χ
PI-DM	A	Α	A*	A**	X
PI-FN	Α	Α	A*	A**	X
PI-ED	Α	Α	A*	A**	X
PI-WI	Α	Α	A*	A**	X
PI-HL	Α	Α	A*	A**	Χ
PI-BH	Α	Α	A**	A**	X
OI	Α	Α	A*	A**	X
Non-PI	Α	Α	A*	A**	X

Consumer Profile: Generic Associate User



Consumer Profile #13		"Generic Associate User" - GAU
Profile	Key Characteristics	
Prc	Examples	■ Committee Members
	Connection Level	■ Internal
Туре	Relationship Type	■ Employee only
	Entity Type	■ Individual
ents	Typical End Users	المجالس العلمية = المجالس المهنية = المجالس المهنية
Entitlements	Typical Entitlements	 Granting this profile to a specific user must be done by the Data Owner and IT Manager or the Data Management Head. In general, no access to any sealed or restricted or confidential or internal data If the data professional needs more entitlements to perform her/his work, then she/he can be assigned to other profiles as needed.

The default Data Access Rights for: "Consumer Profile #14 - Generic Associate User"



	Public	Internal	Confidential	Restricted	Sealed
PI-ID	Α	A**	A**	A**	Х
PI-DM	Α	A*	A*	A**	X
PI-FN	Α	A*	A*	A**	X
PI-ED	Α	A*	A*	A**	X
PI-WI	Α	A*	A*	A**	Χ
PI-HL	Α	A*	A*	A**	X
PI-BH	Α	A**	A**	A**	X
OI	Α	A*	A*	A**	X
Non-PI	Α	A*	A*	A**	X
A : Access	X : Not Allowed	*: Conditional (must meet pr	e-defined conditions) **: Exc	eptional (must authorized by re	levant authorities)



Monitoring







OKRs



Incentives, performance and career paths Background

- Creating appropriate team and individual incentives becomes a critical pre-requisite to continually grow and sustain the team objectives and improve the overall maturity model of the Data & BI team.
- Some core principles for designing incentives for the Data & BI team:
 - Incentives must align individual goals with team and organisational goals.
 - Incentives should be measurable yet provide room for creativity and innovation for employees to actively contribute to overall improvements and achievements.
 - Incentives should be transparent and be separated from direct performance measurement, although they can serve as inputs to the later.
- Based on these, several frameworks have been studied:

Balanced Scorecard	Heavily focused on cascading KPIs. Faces the challenges of 'performance gaming'
Management by Objectives	Rigid and top down by design, hard to gain buy-in and provide best practices to achieve goals.
OKR (Objectives & Key Results)	Evolution of MBO, bottom-up alignment with top down. Focus on operational efficiencies and employee motivation and engagement.



Operating Model – Incentives







8

OKR

Career Pathway

OKR

Process Metrics

OKR

Ideation Metrics

Individual

Team

Organisation

Transparency & Alignment

OKR: Sample Fill

Data Catalog Expert



Objective 1

Build and deploy a central data catalog for the organization by Q3 2021

Description

The catalog should be the single point of discovery and cataloging for the entire organization, must have search abilities and maintain privacy preservation and security compliance. The catalog must include all critical data assets.

Alignment

NDMO: Develop the comprehensive national data catalog

Key Results

1: Centralized tool launched internally with 70+ users.

2: Identify and catalog critical data assets for 90% of source dbs.

3: Assign 95% of ongoing named resources with ongoing operations

Status

Person identified:

Name:

OKR Reviewed

Approved?

OKR Finalized

Date:

Career Pathway



The Career pathway is centralized around OKRs and the 'Data Literacy Curriculum' Initiative. The high-level framework for pathway is based on existing skills, role and capability of everyone and their desire towards a target role.

Objectives

Current Objectives = Target Role Objectives

Improve Capability | Current Objectives

Improve Capability | New Objectives

Project Participation | T Breadth

Project Participation | Mentorship

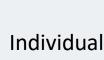
Augment Capability | Current Objectives

Augment Capability | New Objectives

Capacity Planning | T Breadth

OKR | Prioritization









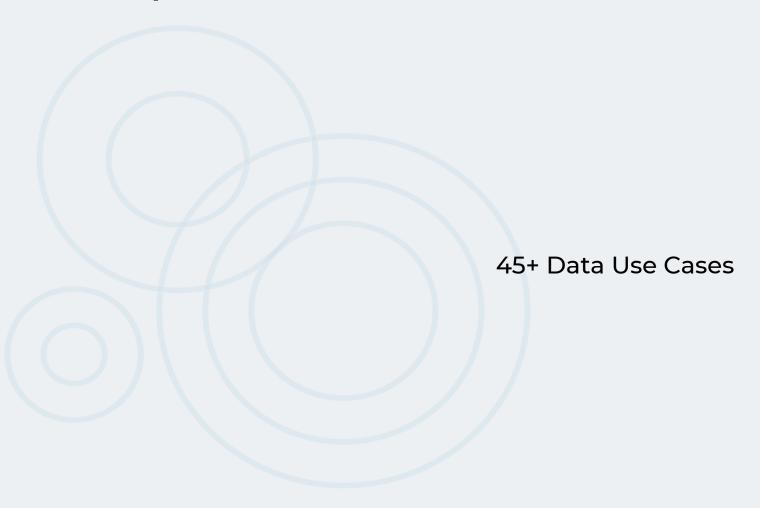




Appendix



Sample Use Cases





الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

Stakeholders

Priority



Title

Al and Data Science Infrastructure

Strategic Stream(s): - Building Capability (Data Science Platform)

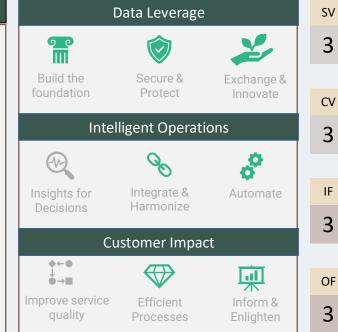
Outputs & Outcomes

Collaborative, powerful, and modern AI and Data Science infrastructure

Timeframe

Setup: Incubation: Roll-Out: Scale-Out:





Brief

Implement all necessary tools and infrastructure for a modern Advanced Analytics unit where machine learning algorithms can be built and collaboratively shared among the team.

Benefits

- Follow the global standards in equipping data scientists with all the necessary hardware/software
- Allow for collaborative work

DUC No.

Objectives

• To make SCFHS ready to adapt or develop machine learning solutions by building the infrastructure

Risks

- Horizon 1

- Data & BI

- IT

AVG SCORE

3

Created Date

Saud Altamimi

Created By

OF

SV

3

3

IF

3

3



الهيئة السعودية للتخصصات الصحية Saudi Commission for Health Specialties

