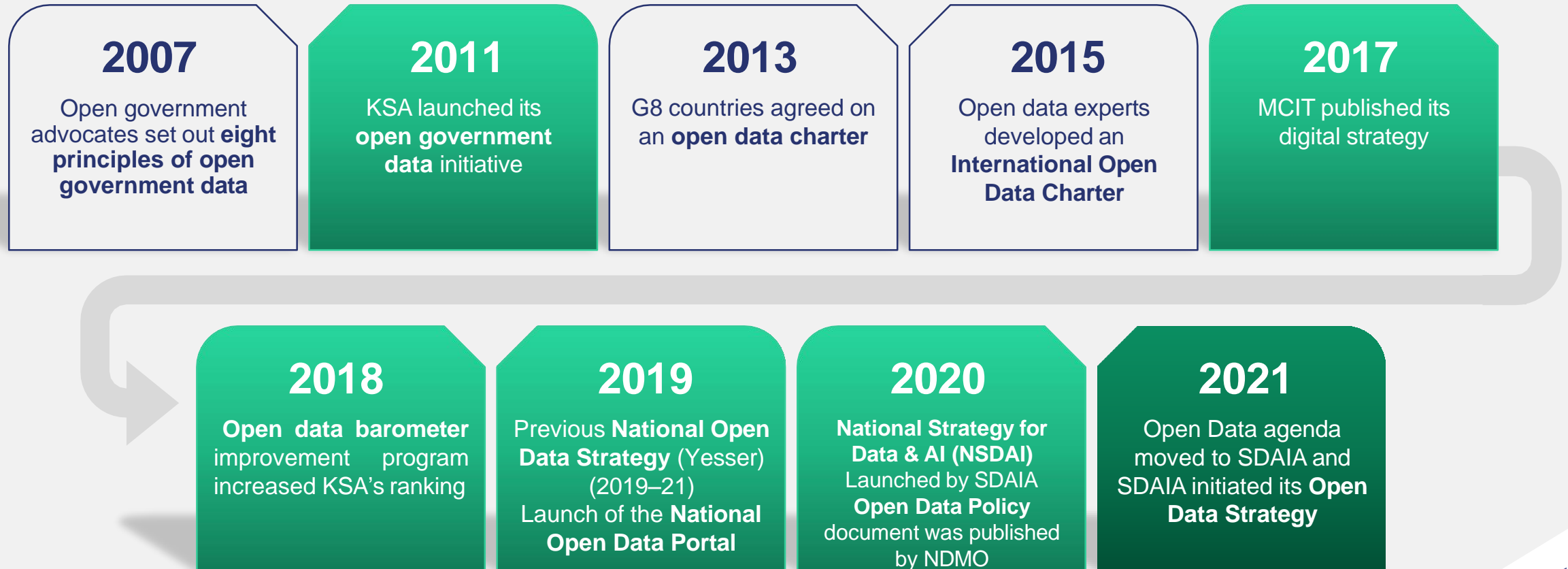# Open Data Strategy

2022 - 2024

SDAIA
الهيئة السعودية للبيانات والذكاء الاصطناعي
Saudi Data & AI Authority

Open Data journey started in 2011 when KSA launched its first Open Government Data initiative

Global milestones | KSA's milestones

2007
Open government advocates set out **eight principles of open government data**

2011
KSA launched its **open government data** initiative

2013
G8 countries agreed on an **open data charter**

2015
Open data experts developed an **International Open Data Charter**

2017
MCIT published its digital strategy

2018
Open data barometer improvement program increased KSA's ranking

2019
Previous **National Open Data Strategy** (Yesser) (2019–21)
Launch of the **National Open Data Portal**

2020
National Strategy for Data & AI (NSDAI) Launched by SDAIA
Open Data Policy document was published by NDMO

2021
Open Data agenda moved to SDAIA and SDAIA initiated its **Open Data Strategy**

"

**From open by default
to publishing with purpose…**

The Open Data vision & mission are designed around activating the value of the national open data asset

Vision

"Maximize the economic impact of Open Data for the Kingdom"

&

Mission

"Provide high-value and re-usable Open Data for the nation to increase transparency and foster innovation through collaboration, enabling a data driven economy"

To successfully deliver on the vision & mission, 4 Strategic Objectives have been identified

Empowering governance & regulatory clarity

01

Empowered governance to oversee, advise and ensure the release and use of Open Data based on relevant standards and policies as well as licenses and rights management
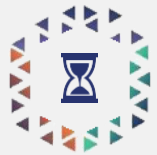
Enabling Economic Growth

03

Enable the creation of value from Open Data via supporting insights for decision making and the creation and enhancement of data-driven products, including Tools, applications, and digital solutions

Prioritizing and Publishing Accessible, Quality and Demanded Datasets

02

Lead the identification and prioritization of Open Datasets based on demand and support efficient publishing through the National Open Data portal, ensuring data accessibility, highest quality privacy & security. Continuously improving transparency and trust and ensuring a single source of truth

Creating Impact Through Awareness, Innovation, International and Local Partnerships

04

Create evidence based Impact by encouraging Government and private sector partnerships, raise awareness and encourage engagement and use of Open Data, along with capability development. Focus on improving the Nation's rankings / indices and International partnerships and programs to collaborate on Open Data priorities (e.g., Open Data charter, ODI etc.)

For enabling the Open Data functions and services, we have developed six **Target Operating Model (TOM) Capabilities** which are categorized into three sections
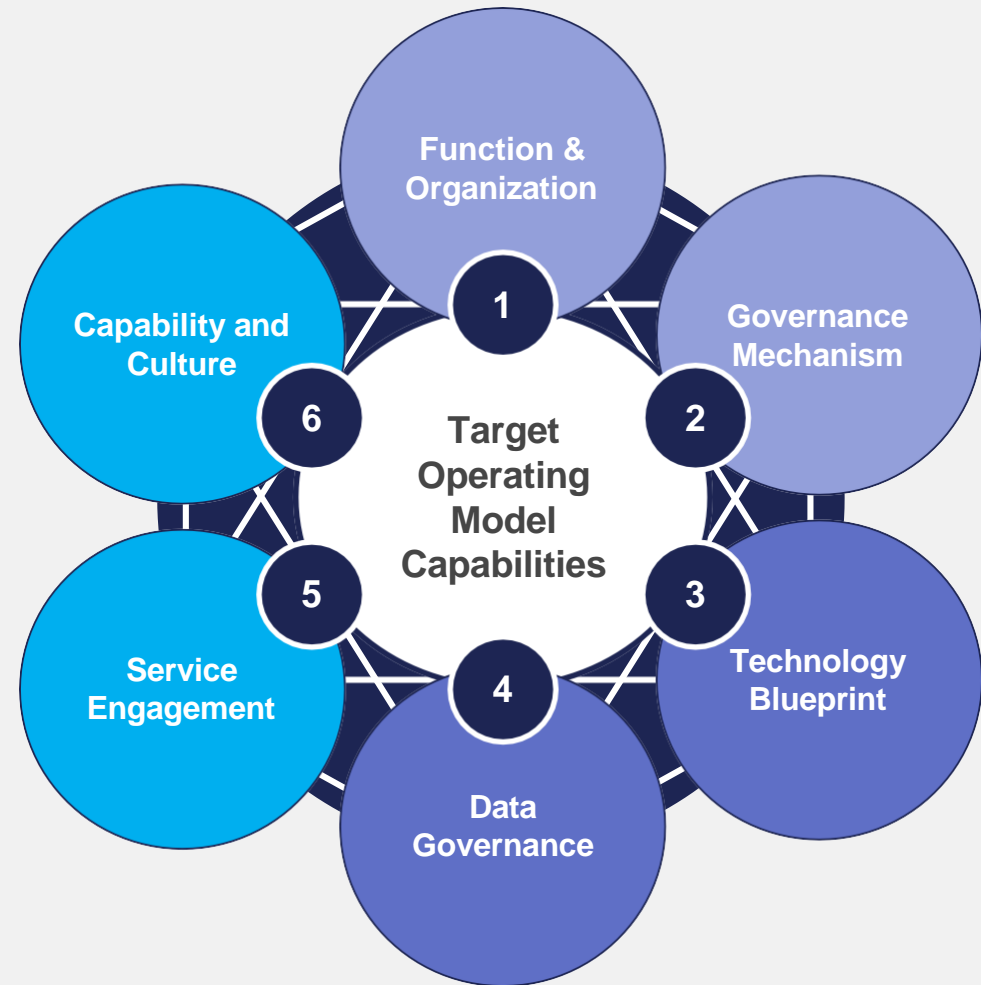
FOUNDATION

Capabilities that are foundational in terms of functioning through clear accountabilities and interactional models
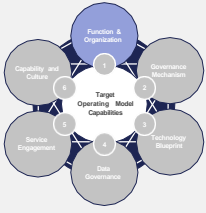
ENABLEMENT

Capabilities that help enable and operationalize the foundation capabilities including infrastructure and operating mechanism

ACTIVATION

Capabilities that are necessary to activate the use and adoption of Open Data to drive Scale and excel ambitions of SDAIA

Target Operating Model Capabilities

1 Function & Organization

2 Governance Mechanism

3 Technology Blueprint

4 Data Governance

5 Service Engagement

6 Capability and Culture

5 Open Data "functions" have been identified to deliver the open data mandate

1 Open Data Strategy ▶ Strategic planning, program management and project design to drive and guide the open data process through strategic collaborations and relationships.

2 Policy ▶ Open Data policy making, management and publishing for a conformant open data ecosystem including ethical practices to ensure fairness, integrity, trust, and respect.

3 Compliance ▶ Standards definition, licensing management and auditing capabilities to drive standardization and conformity.

4 Technology & Operations ▶ Strategic and operational technology functions to enable efficient execution and open data management capabilities.

5 Community Management ▶ Stakeholder engagement and develop capabilities through trainings to drive innovation and increase awareness.

A national open data committee was established to ensure effective governance mechanism to achieve the following

Strategy

01 — The governance model ensures the alignment of strategy and its execution with the overall vision and committments on Open Data

Standards and guidelines

02 — Ensures standardisation of Open Data practices across sectorsa nd entities through well established policies and standards

Reporting

03 — Ensue timely performance reporting and national level benefits are realised

Culture

04 — Operates and fosters an environment of openness and honesty, where Stakeholders can continuously collaborate and innovate

Sector engagement

05 — Esure strong engagement with the stakeholders and alignment of strategic SDAIA's strategic objectives

Quality assurance

06 — Ensure availability of high quality datasets to the users and consumers and establish quality review mechanism to improve usability of datasets
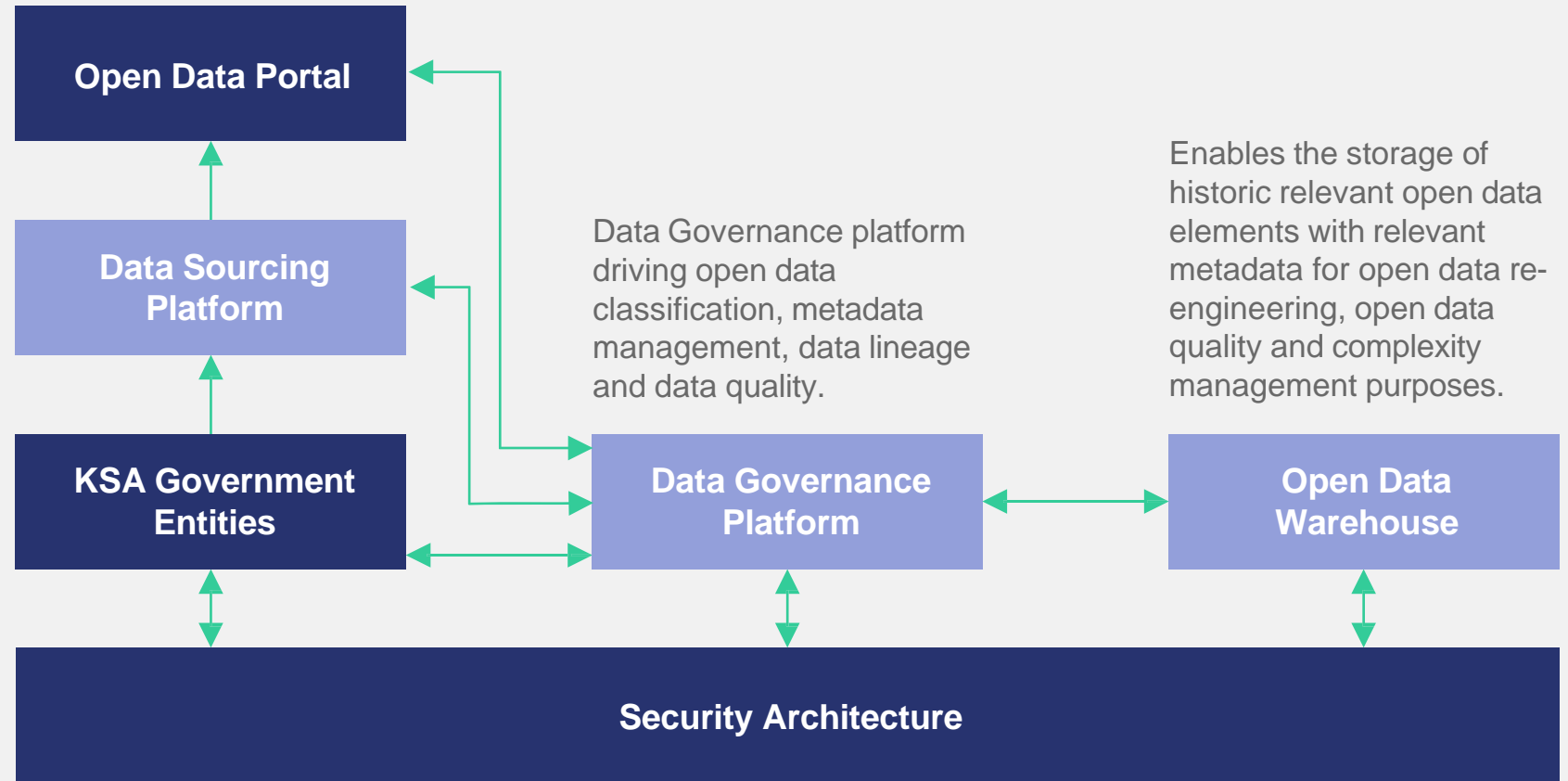
In addition to the data governance framework, a centralized, integrated technology platform is critical

Open Data Portal 2.0 with advanced data access (API-based), search and discover functionality

Enables an automated, efficient, timely and quality-oriented open data sourcing process.

(originating data sources)

Open Data Portal

Data Sourcing Platform

KSA Government Entities

Data Governance platform driving open data classification, metadata management, data lineage and data quality.

Data Governance Platform

Enables the storage of historic relevant open data elements with relevant metadata for open data re-engineering, open data quality and complexity management purposes.

Open Data Warehouse

Security Architecture

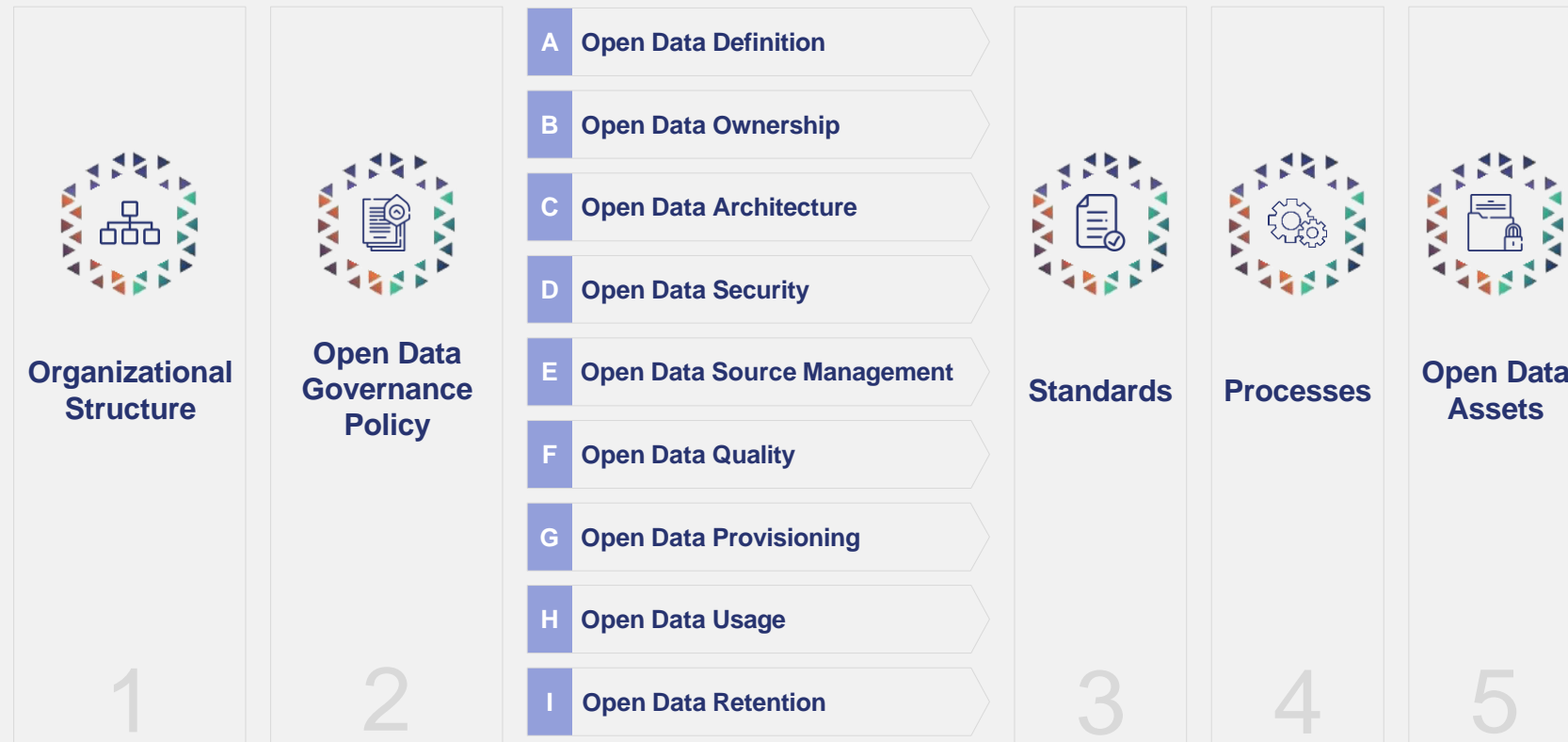Provides end-to-end integrated security mechanisms.

In place   To be established

An overall data governance framework is essential to realize the strategic objectives

Data Governance Framework for Open Data*

Organizational Structure

1

Open Data Governance Policy

2

A	Open Data Definition
B	Open Data Ownership
C	Open Data Architecture
D	Open Data Security
E	Open Data Source Management
F	Open Data Quality
G	Open Data Provisioning
H	Open Data Usage
I	Open Data Retention

Standards

3

Processes

4

Open Data Assets

5

At a high level, the open data governance framework consists of the following four components

1. **Organizational structure** – SDAIA's core Open Data Team, supported by collaborating child entities;
2. **Policy** – SDAIA defined Open Data policies and NDMO overall data management policies;
3. **Standards** – specific open data criteria and NDMO data management standards;
4. **Processes** – SDAIA-regulated data governance processes, both automated and supported by the technology platform, as well as data governance processes supported by the organizational structure.

* Based on international standards and industry best practices

The proposed service engagement model will bridge the gap between demand and supply of Open data

The government service engagement model is defined as

The collective efforts and tools of **all** government entities who produce, govern & deliver **all** government open data to **all** customer segments through **all available** communication channels

The below components are what will enable a successful Open Data Service model

◄——— Open Data Service Engagement Components ———►
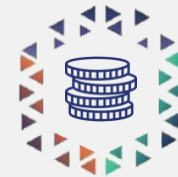
Ecosystem

This consists of all Private and Public sector entities involved in the production, governance and delivery of government services and open data to all end-users

Engaging Demand & Supply

The required actions, partnerships, and mechanisms for building demand and growing supply

Open Data Productization

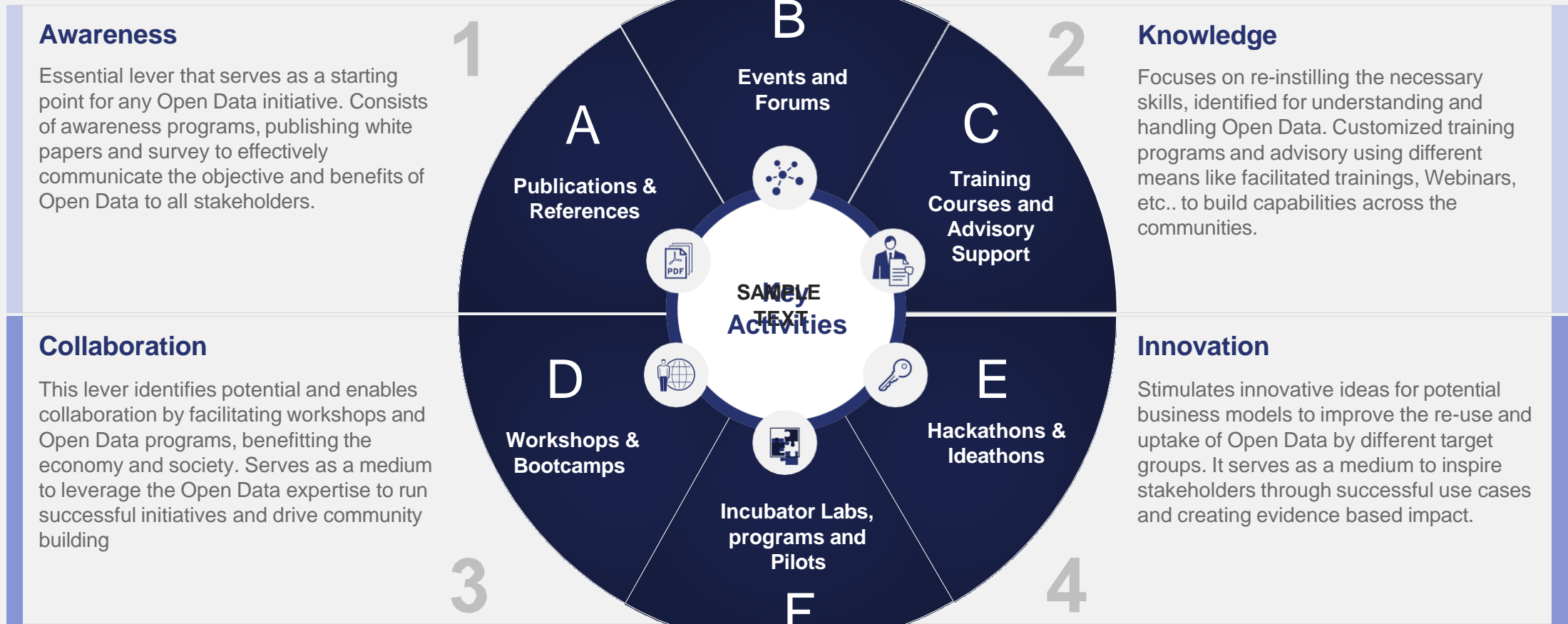Develop products based on open data to facilitate the provision of services and insights

It's imperative to embed and improve the necessary culture and capabilities within the ecosystem

Awareness

1

Essential lever that serves as a starting point for any Open Data initiative. Consists of awareness programs, publishing white papers and survey to effectively communicate the objective and benefits of Open Data to all stakeholders.

Knowledge

2

Focuses on re-instilling the necessary skills, identified for understanding and handling Open Data. Customized training programs and advisory using different means like facilitated trainings, Webinars, etc.. to build capabilities across the communities.

Collaboration

This lever identifies potential and enables collaboration by facilitating workshops and Open Data programs, benefitting the economy and society. Serves as a medium to leverage the Open Data expertise to run successful initiatives and drive community building

3

Innovation

Stimulates innovative ideas for potential business models to improve the re-use and uptake of Open Data by different target groups. It serves as a medium to inspire stakeholders through successful use cases and creating evidence based impact.

4

B Events and Forums

A Publications & References

C Training Courses and Advisory Support

SAMPLE TEXT Key Activities

D Workshops & Bootcamps

E Hackathons & Ideathons

F Incubator Labs, programs and Pilots

11

8 initiatives and 26 projects have been identified and will be executed over 3 years

	Initiative	Description Summary				
1	**Strategy & tactical enablement**	Open Data Department Enablement Support Program			Quick wins of 2021	
2	**Continuous monitoring and performance augmentation**	Build Open Government Performance Dashboard		Improve Kingdom's Ranking in "International Indices"	Develop and Execute a Framework to Measure Impact of Open Data on National Economy	
3	**Establish a robust governance**	Establish and Activate Open Data Governance Committees			Open Data Policy Refresh & Release of Standards/guidelines	
4	**Acceleration of high-value dataset sharing**	Identify, Publish And Communicate High Priority Datasets Release		Identify, Publish And Communicate Real time Datasets	Data classification support program	
5	**Activate Strategic Partnerships**	Fostering International Partnerships				
6	**Open Data Technology and infrastructure uplift**	Open Data Portal Enhancement	Establish Open Data Sourcing Platform (ODSP)	Adapt and implement the Open Data Governance Framework	Integrate Open Data End-to-end Process with Data Governance Platform	Collaboration with existing sandbox environment to include Open Data to support innovation
7	**Improve awareness and upliftment of data producers and users**	Design and Develop Open Data calendar	Detail and execute public events	Detail and execute training events	Develop an OD capability to update existing learning platforms	Develop and Execute a National Communication and Recognition Plan / Develop an Open Data Lab and Establish Experts Engagement
8	**Foster innovation and boost national collaboration**	Lead crowdsourcing Open Data use cases to address national interests	Activate an Ecosystem Engagement and Collaboration through Partnerships	Collaboration with existing accelerator and incubator programs	Establish Agile Practices for Accelerated Innovation	