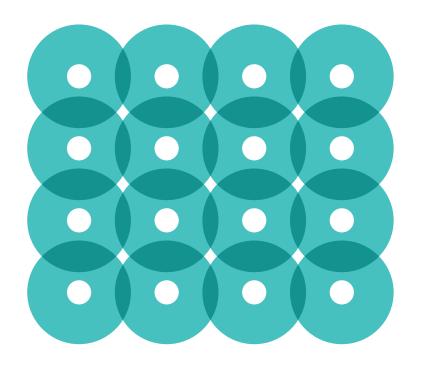
البيانات أولاً datafirst تحدي بيانات المدينة The City's Data Challenge



DATA FIRST CHALLENGE CRITERIA & APPLICATION PROCESS

DATA FIRST MAIN PURPOSE OF THE CHALLENGE





Increase city data availability in the city Enhance data governance & compliance

Nurture a strong data community



DATA FIRST CRITERIA MEASURMENT



Comply with

Dubai Data Law

30%

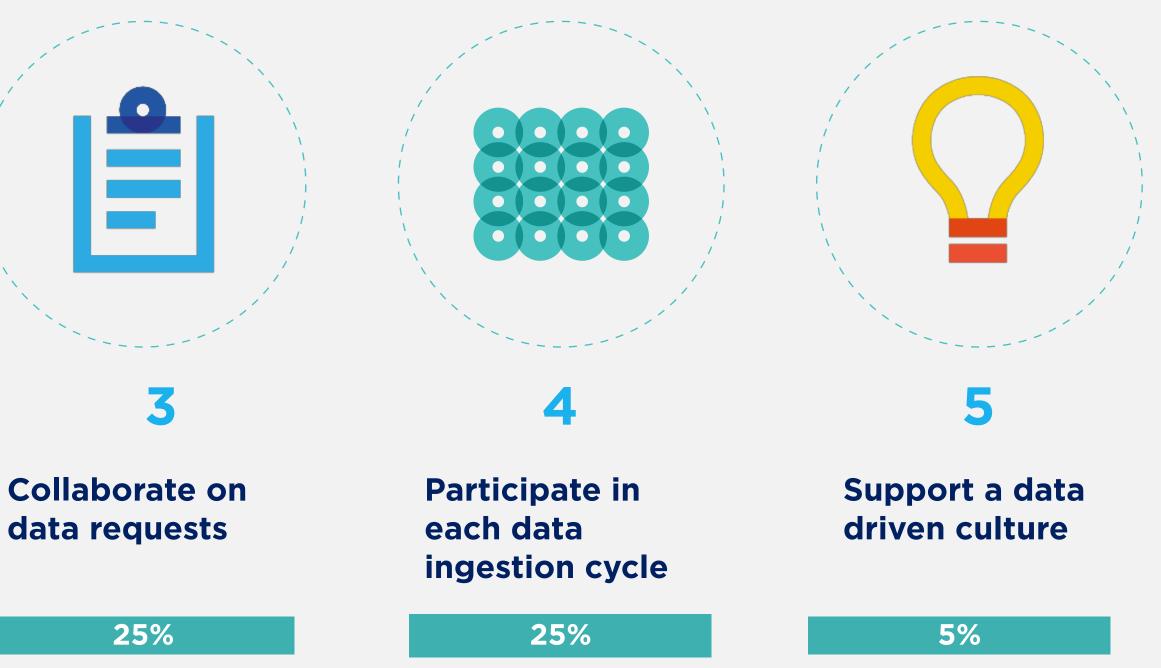


2

Participate in **Smart Dubai Data Events**

15%









30% **COMPLY WITH** DUBAI DATA LAW

WHY

To improve data compliance with Dubai Data Law To open motivational channel between entities, create the spirit of health competition

Entities who are compliant by 70% and above **50%** improvements in overall compliance

HOW

Measure the average of 2019 data compliance reports

OBJECTIVE

WHAT

"SUCCESS MEASUREMENT AGAINST CRITERIA"





15% PARTICIPATE IN **SMART DUBAI** DATA EVENTS



HOW

 Track attendance matrix of 2019 events managed by Smart Dubai Data

OBJECTIVE

To enhance smart data ecosystem engagement To create a channel to showcase best practices

WHAT

"SUCCESS MEASUREMENT AGAINST CRITERIA"

Entities who participated in more than 50% of Smart Dubai Data events in 2019





25% COLLABORATE **ON DATA** REQUESTS

WHY

To improve the collaboration between the government entities to meet all data requests To encourage cross-functional projects between government entities

HOW

Track all data requests status in 2019 for each entity

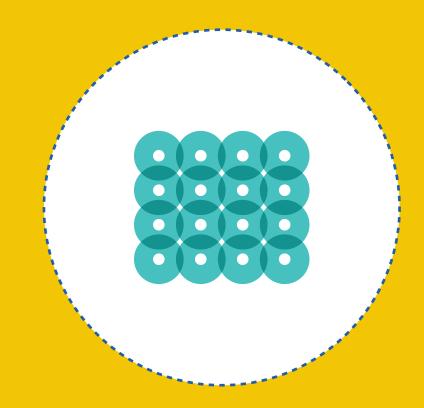
OBJECTIVE

WHAT

"SUCCESS MEASUREMENT AGAINST CRITERIA"

Entities with 100% of closed and completed data requests





25% PARTICIPATE IN EACH DATA INGESTION CYCLES

WHY

Entities who participated in minimum 5 ingestion cycles with at least 5 datasets each cycle in 2019

HOW

 Track all ingestion cycles report to verify number of datasets per entity

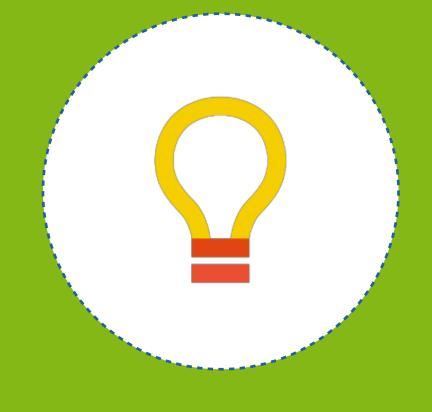
OBJECTIVE

- To increase city "open data" availability for the public on DubaiPulse
- To increase city "shared data" accessibility for the
- government entities on DubaiPulse

WHAT

"SUCCESS MEASUREMENT AGAINST CRITERIA"





5% SUPPORT A DATA **DRIVEN CULTURE**

WHY

To act as a change agent in raising the awareness of the importance of exchange open / shared data To drive own entity toward becoming a data driven organization

 Organizing internal workshops Encouraging / Sponsoring employees to attend RIT Data Analytics workshops and Master of Data Analytics Organize awareness programs within own entity

Submit evidence of conducting data awareness sessions and workshops

OBJECTIVE

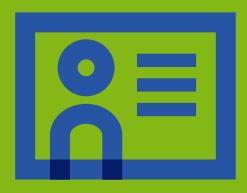
"SUCCESS MEASUREMENT AGAINST CRITERIA"

Entities who support Dubai Data initiative by:



DATA FIRST SELECTION PROCESS





THE ANNOUNCEMENT

July 14 Announce "Data First" the city data challenge and apply for the competition





KEEPING TRACK

July - December Smart Dubai will monitor all entities progress





PANEL REVIEW

December Smart Dubai will conduct a panel review to select winners based on scores against criteria



January Announce the winners







DUBAI DATA Compliance framework

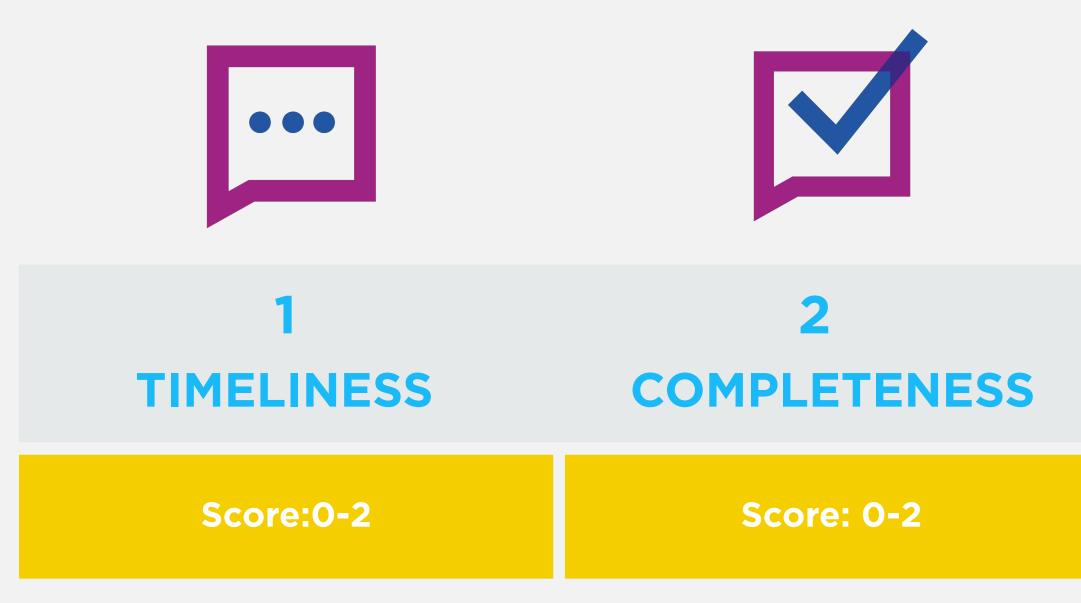
% OF COMPLIANCE TO DUBAI DATA LAW

TO MEASURE THE PERCENTAGE OF COMPLIANCE TO DUBAI DATA LAW, TWO FACTORS WILL BE MEASURED FOR EACH ELEMENT OF COMPLIANCE.

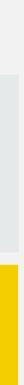
Reporting Frequency

FACTORS MEASURED

Each element of compliance will be scored from 0 to 2 on two factors:







DATA FIRST

% OF COMPLIANCE TO DUBAL DATA LAW To measure the percentage of compliance to Dubai Data Law, two factors will be

To measure the percentage of compliance measured for each element of compliance.

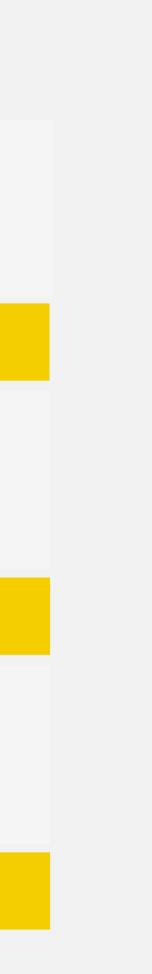
ELEMENTS OF COMPLIANCE

Each element of compliance is assigned a different weight depending on importance:

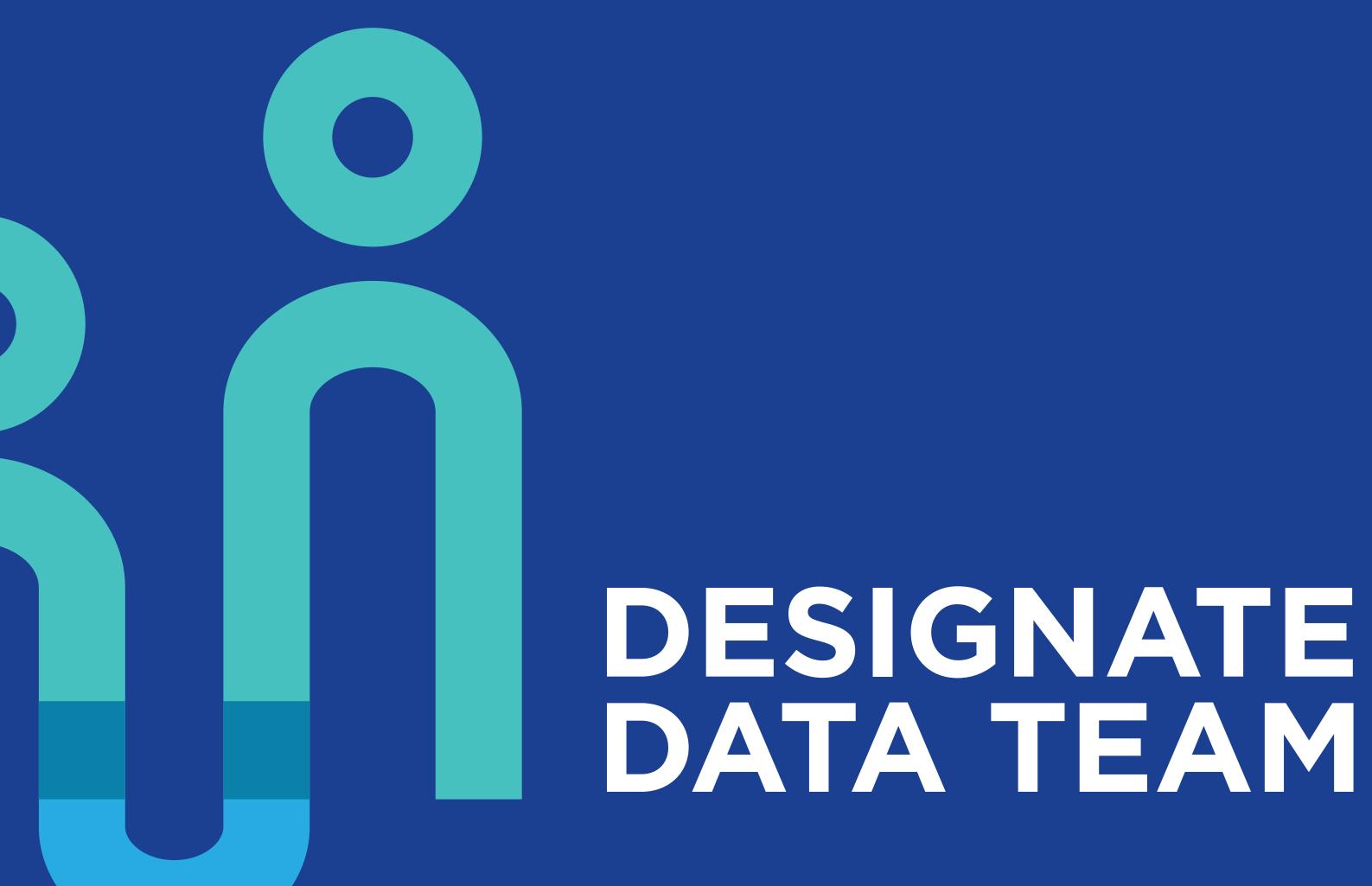
nce to Dubal Data Law, two factors will be nce.

1	2	3		
Designate	Determine	Inventory		
Team	Governance	Data		
Weight: 3%	Weight: 3%	Weight: 10%		
4	5	6		
Prioritize	Classify	Prepare Data		
Data	Data	Release Plan		
Weight:4%	Weight: 5%	Weight: 5%		
7	8	9		
Complete Data	Ingest Data	Maintain		
Cataloguing	on Platform	data		
Weight:25%	Weight:33%	Weight:12%		









DESIGNATE DUBAI

DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW

1 DESIGNATE TEAMS Effective/ empowered Data teams formed through internal decree and with clearly communicated roles and responsibilities



TEAM STRUCTURE

ORGANIZATION STRUCTURE: 4 ROLES

Executive sponsor Single point of contact for entity's Dubai Data effort Decision making responsibility

DUBAI DATA ADMINISTRATOR

Working level, day-to-day point of contact





- SPECIFIC COMMITTEES
- BUSINESS UNITS

DUBAI DATA LEADER







DETERMINE GOVERNANCE

DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW



2 DETERMINE GOVERNANCE

process

Formally documented, approved and implemented RACI model defining approval



TEAM STRUCTURE

DUBAI DATA ESTABLISHMENT SUGGESTED RACI MATRIX

	DIRECTOR GENERAL	DUBAI DATA LEADER	DATA ADMINISTRATOR	DATA STEWARD/ SPECIALIST	DUBAI DATA ESTABLISHMENT
START DATA INVENTORY PROCESS			R		
REQUEST ENTITY DATA INVENTORY		A	R	С	
PREPARE DATA INVENTORY			A	R	
REVIEW DATA INVENTORY		R	R	A	С
APPROVE DATA INVENTORY	R	A	С		
FINALISE DATA INVENTORY		С	R	A	R
PREPARE DATA CLASSIFICATION		A	R	С	
REVIEW DATA CLASSIFICATION		R	А		С
APPROVE DATA CLASSIFICATION	R	A	С		R
DETERMINE DATA INGESTION METHOD		С	A	R	
REVIEW DATA INGESTION METHOD		С	R	С	
APPROVE DATA INGESTION METHOD		С	A	С	R









DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW



3 INVENTORY DATA

- that:

 Data inventory sheet is submitted Written statement is sent by Data Leader confirming

- List has been reviewed/approved by Data Leader
- The list includes all obvious and high value datasets, already published/shared data and all existing identified lists of this entity
- The process has been followed and checked by Data Administrator
- List of all departments involved in creating the draft lists and name/role of data lead responsible



3. IDENTIFYING A DATA INVENTORY

DATA INVENTORY EXAMPLE

Data Inventory is an inventory of the Dubai Data that a Dubai Government Entity has in its possession, including any Dubai Data which the Dubai **Government Entity produces or controls.**

DATASET NAME

Formal name of the dataset that will be used to reference the dataset between SDO & Government Entity.

DATA **ATTRIBUTES**

Attributes are the columns or fields that make up the data set



DATASET DESCRIPTION

Statement about the dataset describes the contents and the fields included

ATTRIBUTE DESCRIPTION

Statement describing the contents and the nature of data in the attribute







PRIORITIZE AND CLASSIFY DATA

% OF COMPLIANCE TO DUBAI DATA LAW



4 PRIORITIES ALL DATASETS:

- Have a prioritization score
- Overall prioritization is reviewed and signed off by Data Leader
- DDE comments are reflected in final prioritization (if any are received)



PRIORITIZING DATA

DATA PRIORITIZATION CRITERIA

There are two broad sets of criteria:



BENEFIT CRITERIA

For evaluating the potential value of opening a particular dataset to citizens and companies, or sharing it with other Dubai Government Entities.



READINESS CRITERIA

For evaluating the effort involved in getting the dataset ready for publication or sharing (through the Smart Dubai Platform).



3. IDENTIFYING A DATA INVENTORY DATA PRIORITIZATION RESULTS (SAMPLE)



DATASET DESCRIPTION

BENEFITS

User demand

Formal name of the dataset that will be used dataset describes the to reference the dataset contents and the fields between SDO & Government Entity.

Statement about the included

3

QUALITY AND READINESS

Economic	Better	Better	Defined	Existing	Already	Open
Impact	services	Governance	Owner	Metadata	Published	Format
2	4	3	YES	YES	ΝΟ	YES



DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW



5 CLASSIFY

All prioritized datasets:

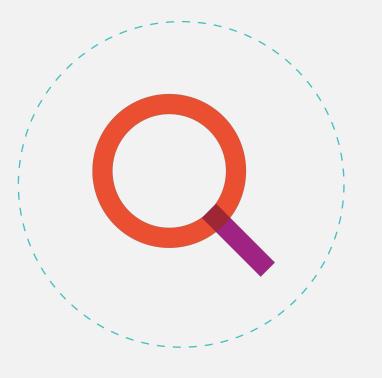
• Are classified, and

• Reasons for classification are documented

DDE feedback on prioritization reflected



PRACTICIAL CLASSIFICATION CLASSIFY DATA SETS



DATASET **IDENTIFICATION**

• Identify priority datasets for classification

DATASET

- Classify the attributes
- Split dataset based on attribute
- Identify attributes causing a secret, sensitive, or confidential scoring in order to arrive at open classification







REVIEW & APPROVAL

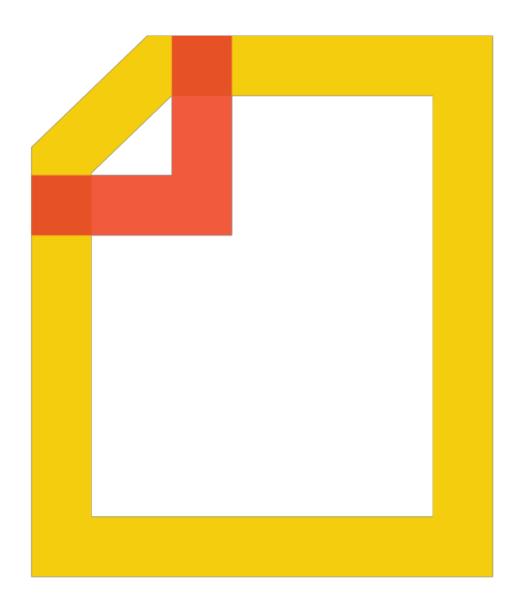
- Review classification by smart Dubai office
- Review and agree on final classification by smart Dubai and department



PRACTICIAL CLASSIFICATION

DATA SETS IDENTIFICATION **IDENTIFY PRIORITY DATASETS FOR CLASSIFICATION**

IDENTIFIED DATASET



DO ANY OF THE FOLLOWING APPLY TO DATASETS?

- 1. Part of Primary Registry
- 2.Strategic alignment with Smart Dubai priorities (in particular Smart Economy and Smart Living)
- 3.User demand for the data
- 4.Government efficiency benefits
- 5.Service improvement benefits
- 6.Economic growth benefits
- 7. Transparency/accountability benefits

YES

NO





PRACTICIAL CLASSIFICATION

DATA SETS CLASSIFICATION TYPES OF CLASSIFICATION

The relationships between the different categories of Dubai Data are illustrated in this figure:

DUBAI DATA

Owned by entities is made available for sharing and re-use by other entities

OPEN DATA Openly disclosed to everyone

CONFIDENTIAL Shareable across entities according to professional responsibilities

SENSITIVE Shareable within certain groups subject to strict controls

SECRET

Shareable in a limited way between certain individuals under strict controls

SENSITIVITY

DUBAI DATA

OPEN DATA

CONFIDENTIAL

SECRET





DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW



Data Release Plan completed as per the standard and approved by management of entity

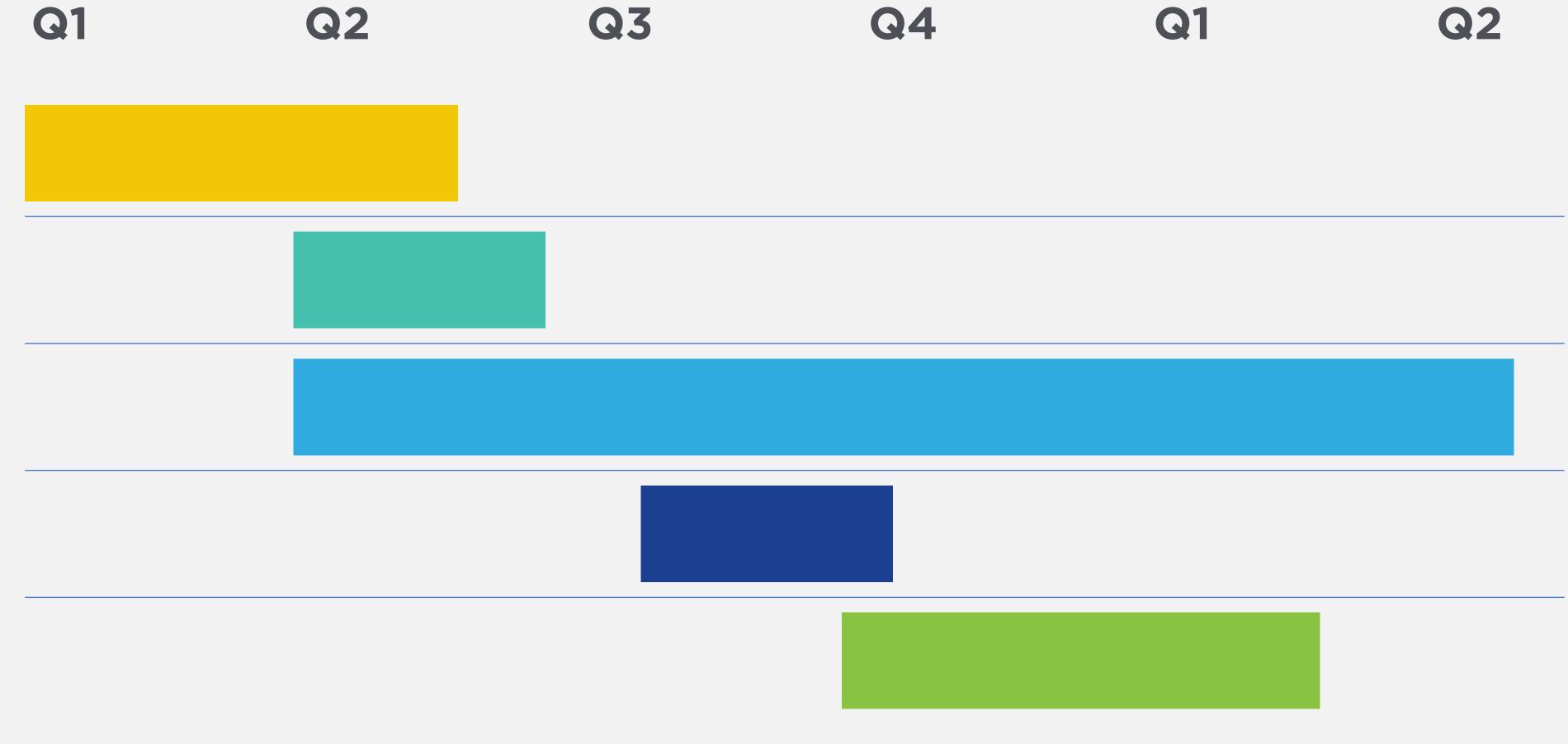
6 DATA RELEASE PLAN



PRACTICIAL CLASSIFICATION

INITIATION AND DATA RELEASE PLAN CREATE AN INITIAL ROADMAP FOR YOUR ENTITY'S DATA WORK THAT MEETS

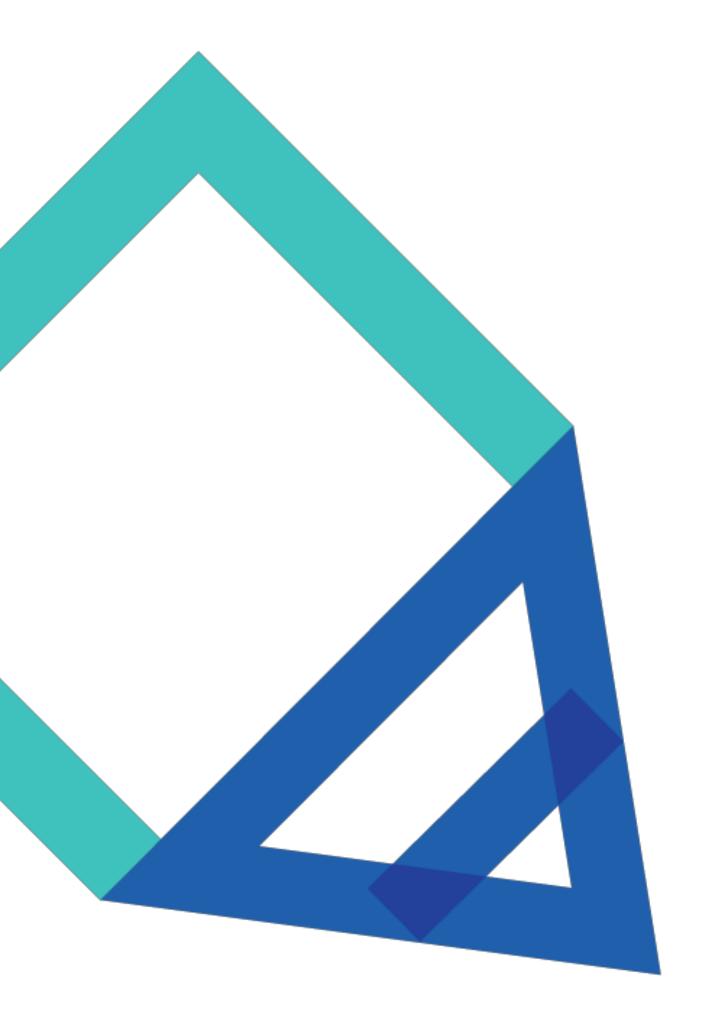
WITH DDE REQUIREMENTS







DATA FIRST % OF COMPLIANCE TO DUBAI DATA LAW



7 CATALOGUING (INCLUDES METADATA, QUALITY, FORMAT STANDARD REQUIREMENTS)

EACH DATASET:

- has been classified,
- has data quality assessment report,
- has sample dataset,
- has core/optional metadata provided,
- compliance statement has been signed off by Data Leader





DATA FIRST META DATA ITEMS

BUSINESS

1. Dataset Name	1. Data Provenance	1.	Data Quality - Completeness
2. Contributor/Custodian	2. Format (MIME)	2.	Data Quality - Uniqueness
3. Creator Business Unit within Entity	3. Attribute Datatype	3.	Data Quality - Timeliness
4. Dataset Description	<u>4. Attribute Size</u>	4.	Data Quality – Accuracy
5. Coverage (Geographic area)	5. Attribute Delimiter	5.	Data Quality – Consistency
6. Dataset Temporal Windows	6. Attribute Delimiter- Other	6.	Data Quality – Reconciliation
7. Attributes	7. Attribute Foreign Key	7.	Data Quality Issue Resolution SLA
8. Attribute Description	8. Attribute Join Rules to Related Datasets		
9. Language	9. Dataset Source		
10. Attribute Classification	10. Source Platform Type		
11. Attribute Range of Values	11. Preferred Ingestion Method		
12. Primary Identifier Attribute for the dataset	12.Description for Method		
13. Dataset Supplementary Reference Data	13.Connectivity Option		
14. Related datasets	14.Description for Connectivity	_	
15. Related Identifier	15.Frequency of Update on Source		
16. Dataset Point of Contact	16.Frequency of Update to SDP		
17. Dataset POC Email	17. Scheduling of SDP Update	_	
18. Dataset POC Phone	<u>18.Expected Volume/Ingestion Cycle (Daily if Real-time)</u>		
19. Rights			
20. Subject Level 1			
21. Subject Level 2			
22. Subject Level 3			
23. Tags / Keywords			
24. Already Published?			
25. If Published, where?			
26. Already Shared?			
27. If Shared, with which Entities?			
28. Expected Data Set Utilization			
29. Remarks/Special Business Rules			

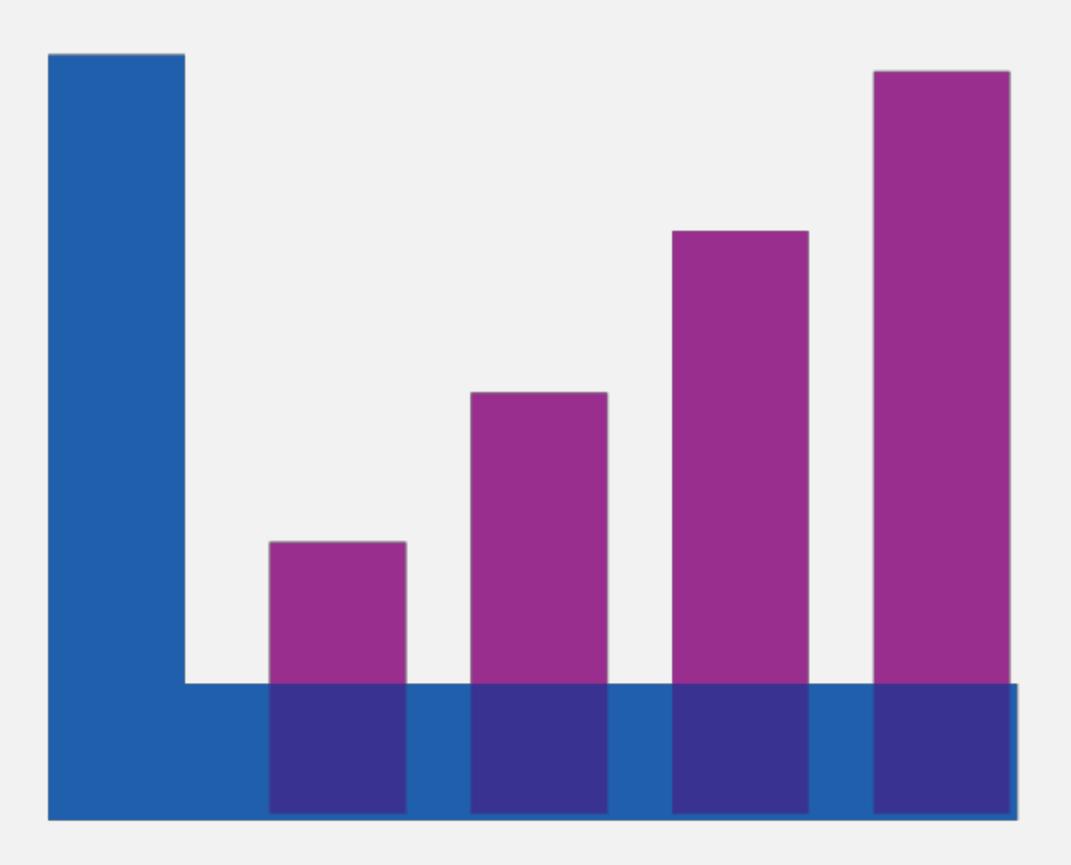
TECHNICAL

DATA QUALITY





% OF COMPLIANCE TO DUBAI DATA LAW



8 INGEST DATA

Data ingested on the platform with no technical issues from entity as per agreed ingestion method

9 DATA MAINTENANCE

Data quality maintained as per agreed data contract (i.e. frequency of publication, attributes etc) for all datasets





THANK YOU