

Become an Equilibrista

Find the Right Balance in The Analytics Tech Ecosystem







Specialised in data visualisation, predictive analytics, enterprise reporting and data engineering.

Enabling the business, the consumers, the data providers and IT to work towards a common goal, **delivering innovative and cost-effective solutions** based on our core values of thought leadership, hard work and honesty.

We work across **multiple verticals** on projects that range from mature, large scale implementations to proofs of concept and can provide skills in **development**, **architecture**, **delivery**, **training and support**.

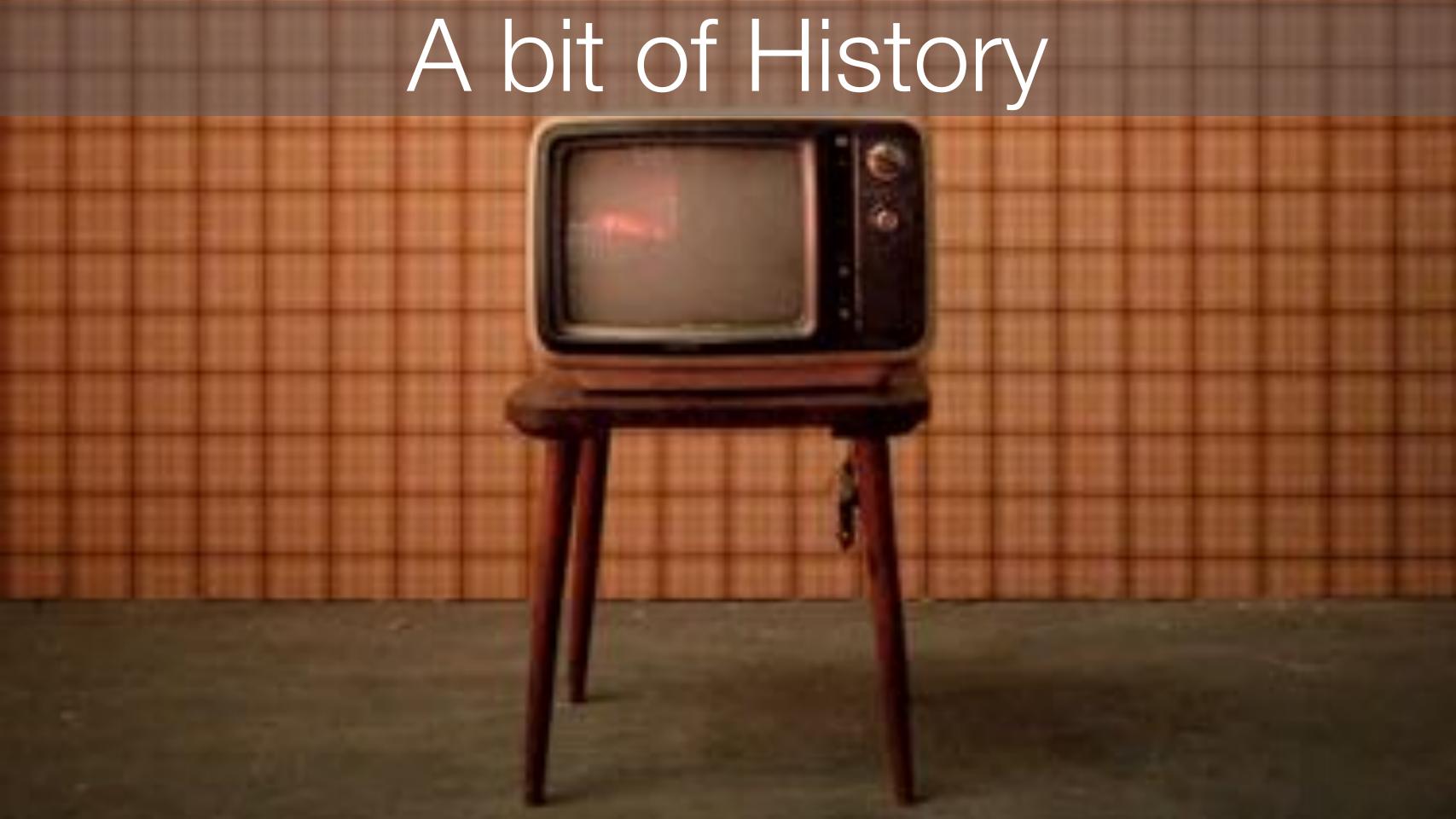




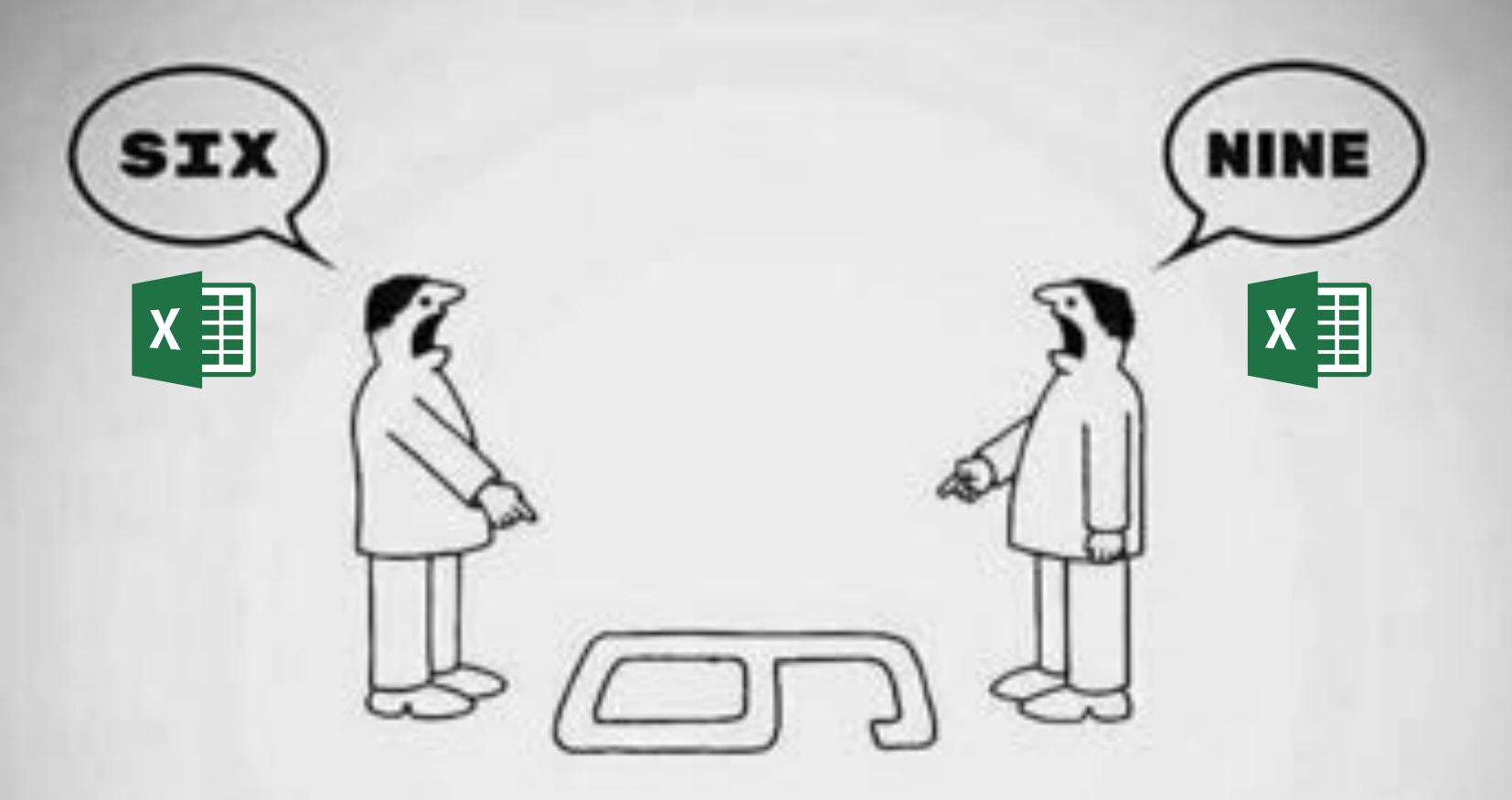


Wrong with this Picture?







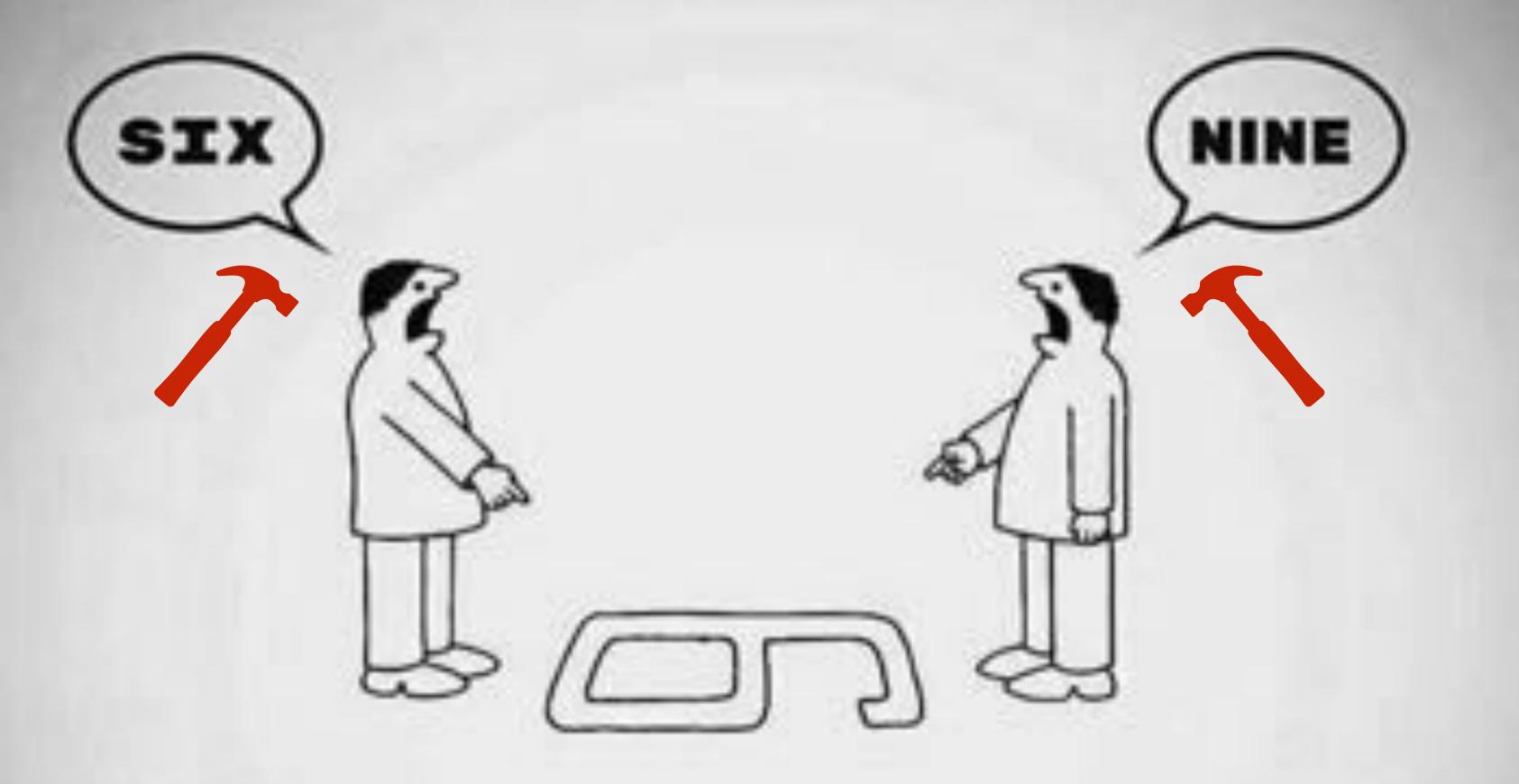


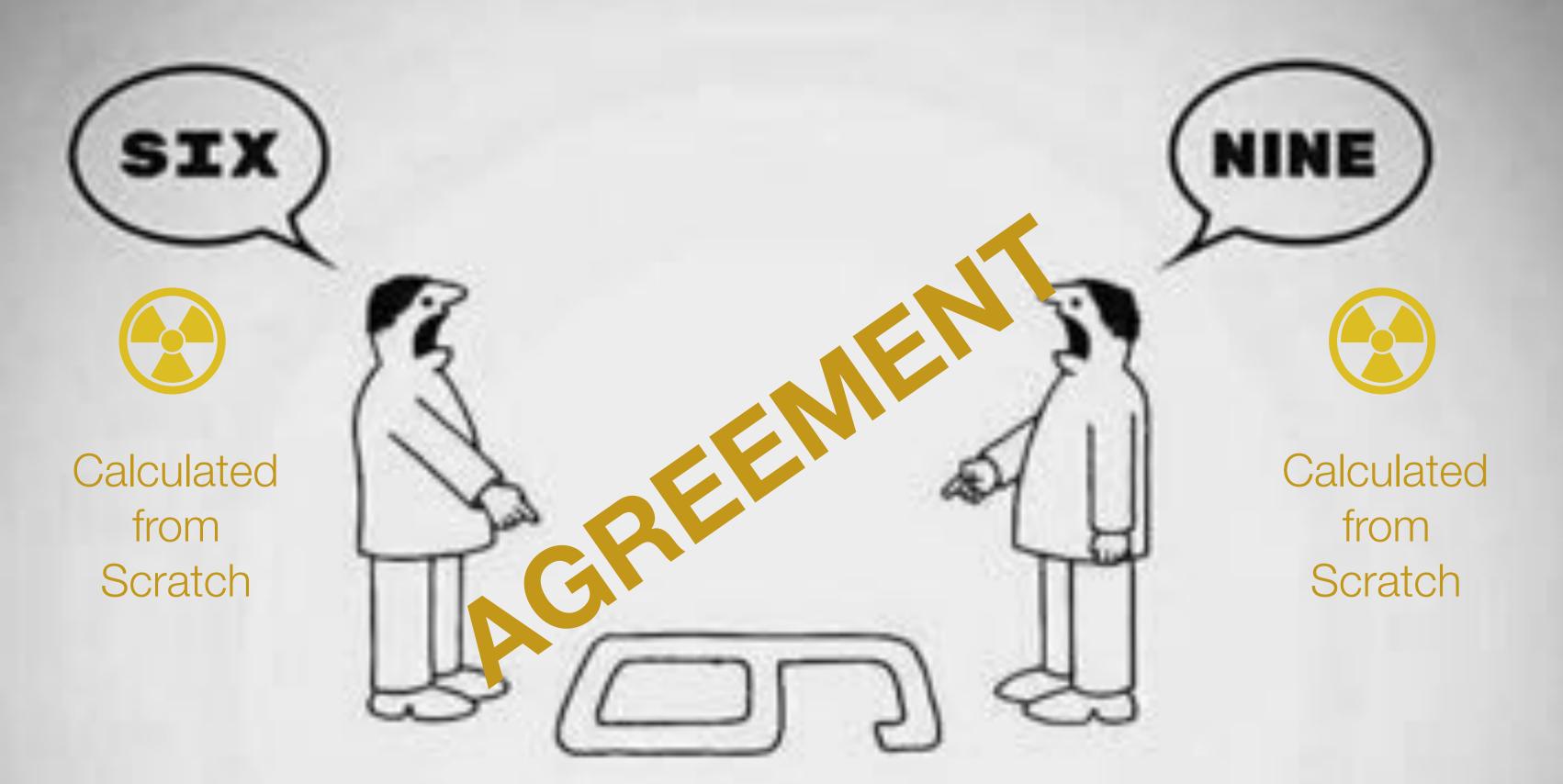
Unique Source of Truth

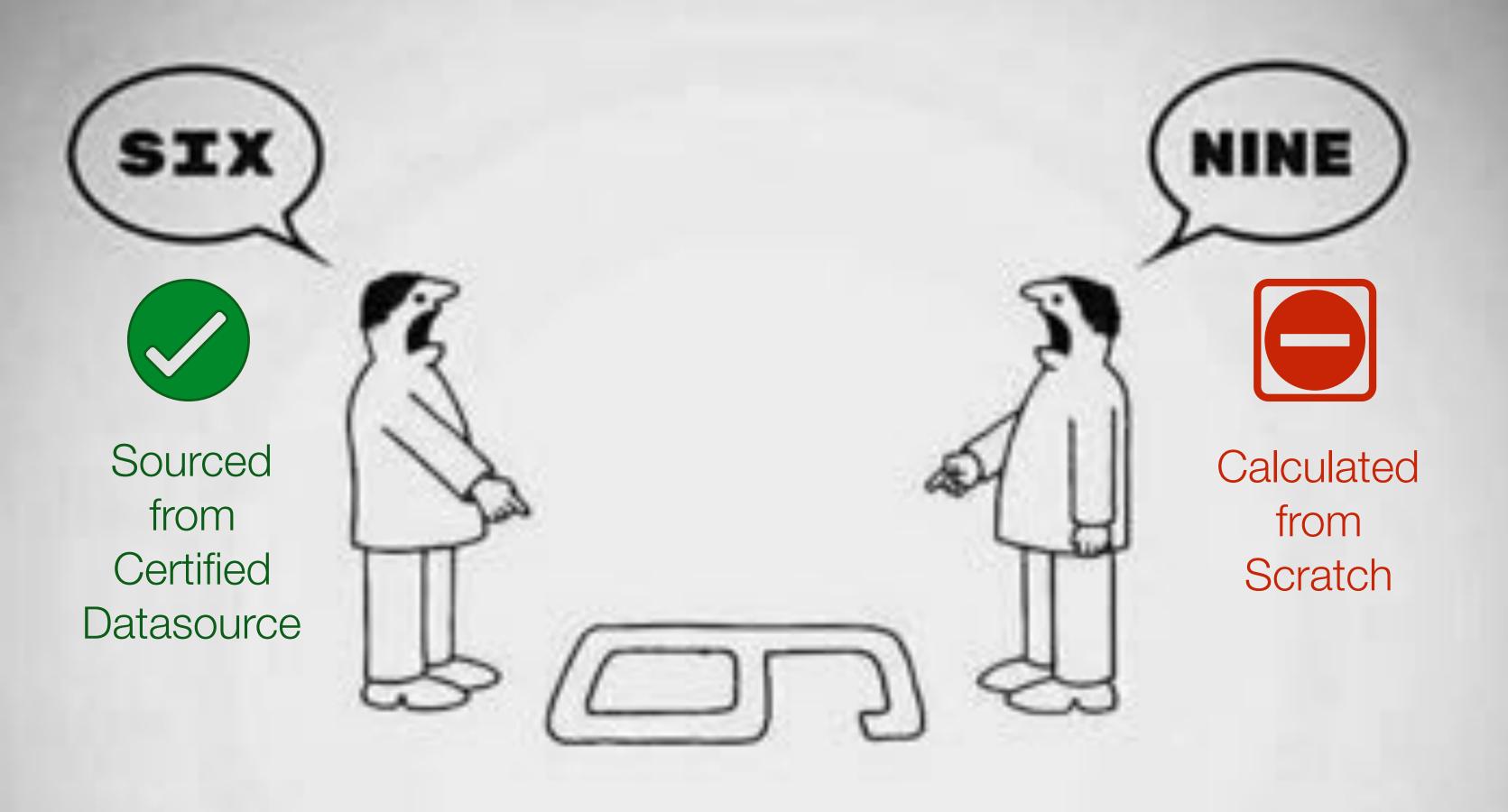








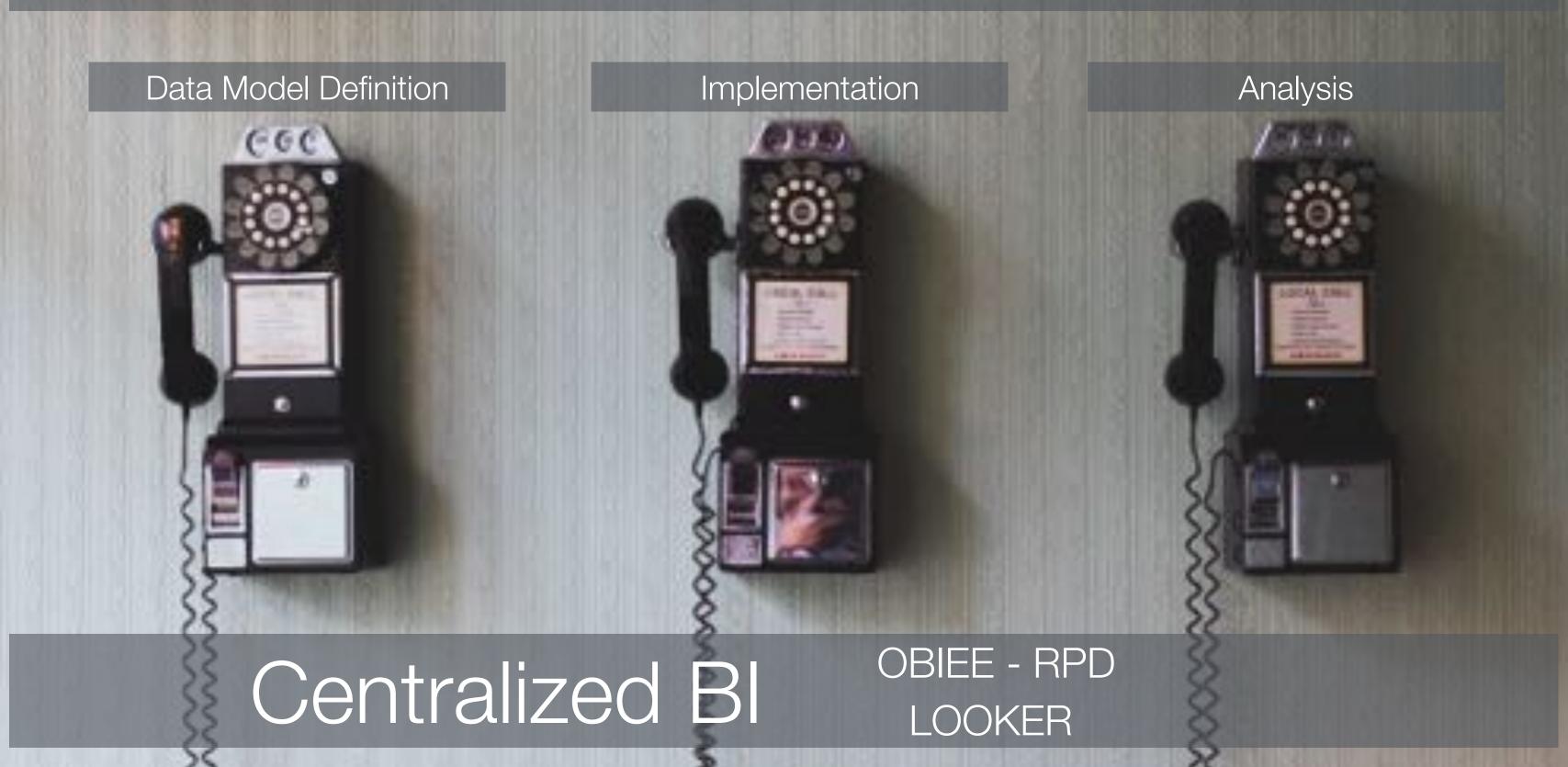




Approach to Data Certification



Top-Down Approach



Bottom-Up Approach

Datasource Publication

Datasource Creation







Self Service

Tableau

Oracle
Data Visualization

Top-Down Bottom-Up VS Time To KPI **KPI** Duplication Reusability Security

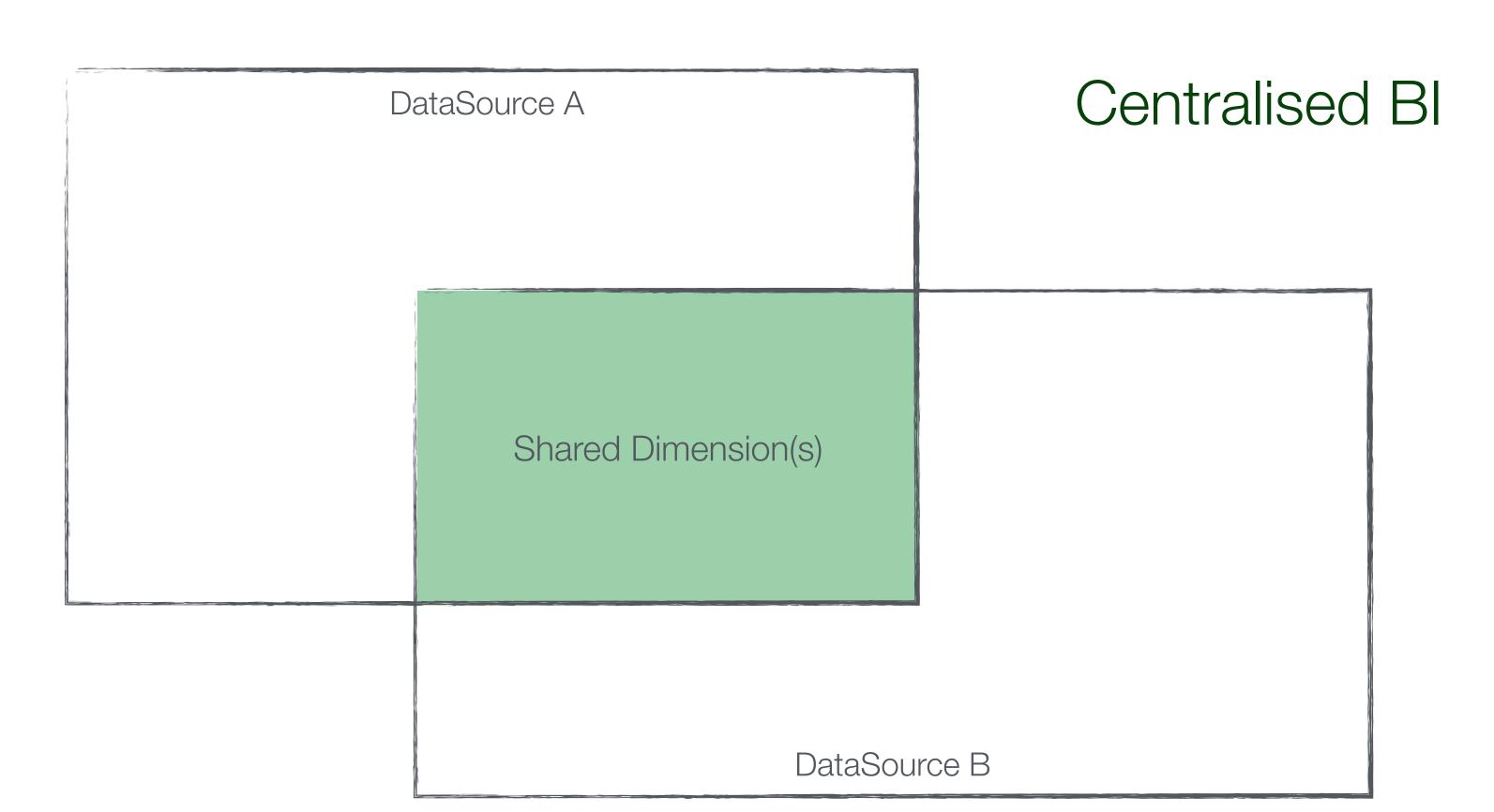
Performance



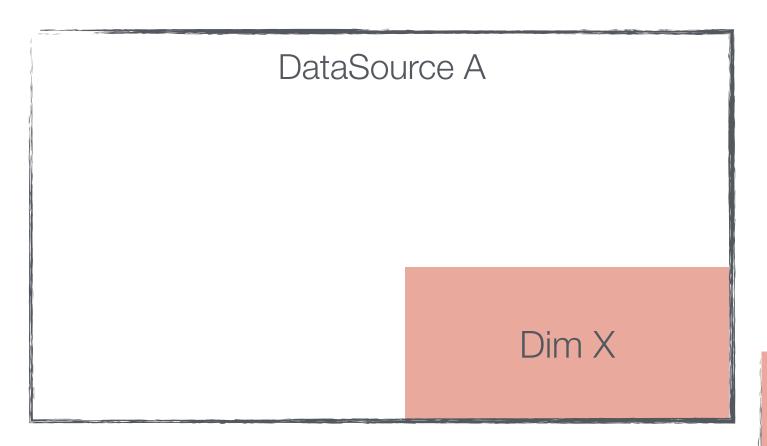




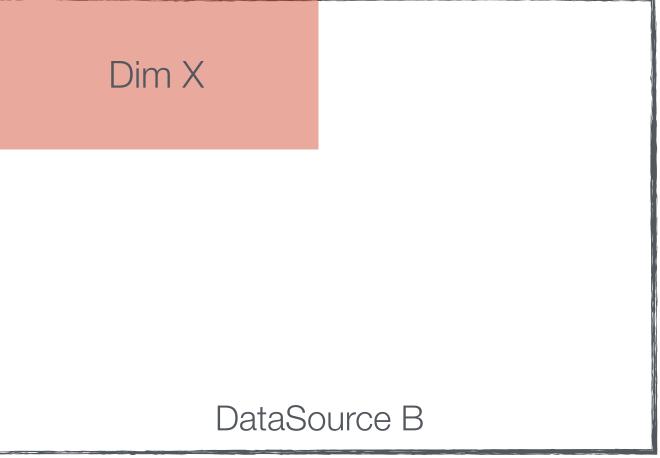
Reusability / Security



Reusability / Security



Self Service BI







Sourcing from Central System

```
Select
"Dim Account"."Account Code",
"Fact Churn"."Churn Prediction"
from "Churn"
```

No Formula Recalculation

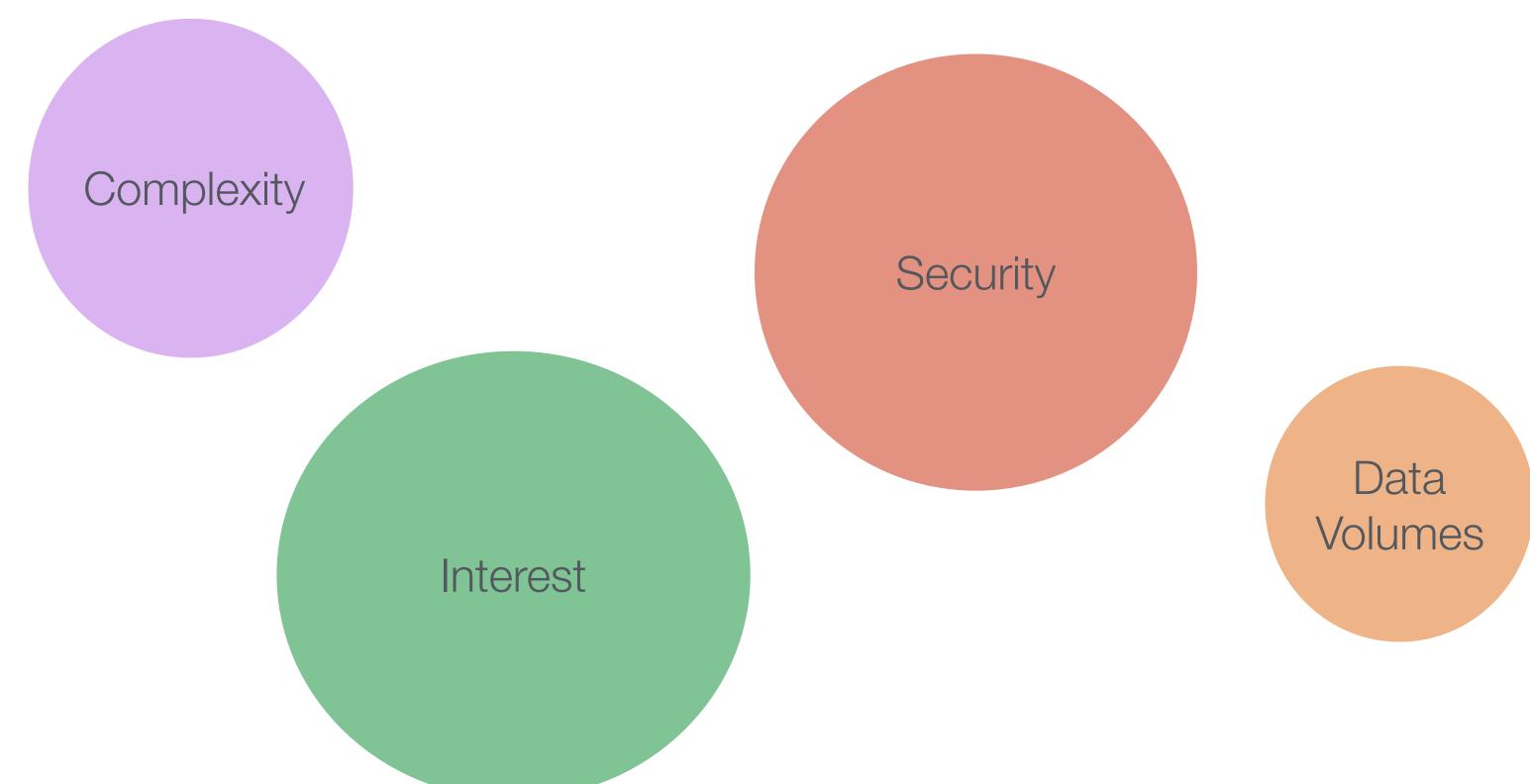
No Join, Filtering, Aggregation Knowledge

Security Inheritance

No Code Duplication



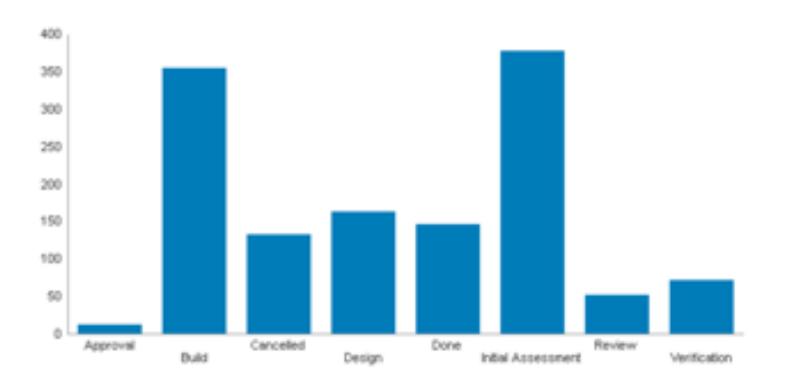
Key Factors



= 16 gr (MM)/1- Es

Calculation

Metadata



REST Endpoints

-	17042 F2 112 112 112 112 112 112 112 112 112	
PUT	/v4idataflows/(dataflow-id)	Update a data/free
POST	/v4/dataflows/(dataflow-id)/actions	Perform execute stop action on a dataflaw
CET	/v4/dataflows/(dataflow-id)/jobs	Out all jobs in a dataflow
GET	/v4/dataflows/[dataflow-id]/jobs/[job-id]	Out status of a particular job in a dataflow
GET	/v4/dataflows/(dataflow-id)/last-ingest-values	Onl datesets last values
CET	/v4/dataflows/(dataflow-id)/status	Oet dateflow status
CET	/v4/dataflows/[dataflow-urij/acl	Get the ACL for the detaflow
PUT	/v4/dataflows/(dataflow-uri)/acl	fiel the ACL for the datafore
SET	/v4/datasets	Get metadata for datasets
PUT	/v4/datasets	Finalize dubasets
POST	/v4/datasets/(dataset-id)/actions	Invoke profile job on a persoular dataset
DELETE	/v4/datasets/(dataset-un)	Delete a clataset
CET	/v4/datasets/[dataset-un]	Oet attributes of a deleset
POST	/v4/datasets/(dataset-un)	Set attributes of a dataset
PUT	/v4/datasets/(dataset-un)	Replace a dataset and metastata
SET	/v4/datasets/[dataset-un]/acl	Get the ACL for a deteret
PUT	/v4/datasets/(dataset-un)/acl	Set the ACL for a detaset
CET	/v4/datasets/[dataset-un]/biserver-metadata-xml	Opt the Bil Server metadata xml of a dataset
PUT	/v4/datasets/[dataset-uri]/biserver-metadata-xml	
CET	/v4/datasets/(dataset-un)/canonical-data	Get the canonical data for a dataset
SET	/v4/datasets/(dataset-un)/provider-options-xml	
PUT:	/v4/datasets/[dataset-uri]/provider-options-xml	
CET	/v4/datasets/[dataset-un]/rawfile	Oet the raw file of the dataset
HEAD	/v4/datasets/(dataset-uri)/rawfile	
rut :	/v4/datasets/(dataset-un)/rawfile	Replace the rawdeta for a dataset
CET	/v4/datasets/ijdataset-urij/schema	Oel schema of a dataset
POST	/v4/datasets/(dataset-un)/schema	Set schema of a dataset
CET	/v4/datasets/[dataset-un]/type-options-xml	Returns the type options and of a dataset
PUT	/v4/datasets/(dataset-un)/type-options-xml	Replace the type options and of a debaset
PUT :	/v4/providers/managed/upload	Upload a managed dataset
POST	/v4/providers/(provider-name)(path-separator)(version)/cert	Upreed certificate for a provider

/v4/connections	Returns a list of all connections
/v4/connections	Create a connection with parameter jour
/v4/connections/[connection-un]	Delete a connection
/v4/connections/(connection-un)	List information of a single connection
/v4/connections/[connection-uri]	Update the metadata of a connector
/v4/connections/[connection-uri]/acl	Out the ACL for a connection
/v4/connections/[connection-uri]/acl	Bet the ACL for a connection
/v4/connections/(connection-un)/actions Dates at or selective replication scheme	s tables for a target cloud replication connection object
/v4/connections/[connection-uri]/connection-metadata-xml	Get the metadata XML for a connection
/v4/connections/(connection-uri)/connection-metadata-xml	Replace the metadata XVII, for a connector
iv-4/connections/[connection-un]/crodential	Update a connection predental
/v4/connections/[connection-uri]/object-list[path-separator][directory-uri]	Get object listing for a connection
/v4/connections/[connection-uri]/objects[path-separator](object-id) Out replication runtime	details for a target cloud replication connection object
/v4/connections/[connection-uri]/objects[path-separator](object-id)	a details for a larger cloud replication connection object
/v4/connections/[connection-uri]/objects[path-separator](object-id)/filters	query for a source cloud replication connection object
/v4/dataflows	Get metadata for dataflow
/v4/dataflows	Create e datefor
/v4/dataflows/jobs	
/v4/dataflows/(dataflow-id)	Delete a datafo
/v4/dataflows/(dataflow-id)	Get the metadata of a datafor

REST Endpoints

```
curl "https://<OAC>/datasetsvc/
public/api/v4/datasets" \
    -u '<USER>:<PWD>'
```

REST Endpoints - CSV

```
"provider": "managed",
"requiresImpersonation": false,
"semicolonDelimited": false,
"customDelimiter": false,
"name": "train",
"namespace": "francesco.tisiot@rittmanmead.com",
"business-model": "\"\"",
"description": "Uploaded from train.csv.",
"display-name": "train",
"locale": "sys",
"file-length": 460676,
"type": "text",
"data-last-modified": "2019-04-08T08:19:34.481+0000",
"private-connection": false,
"mime-type": "application/csv",
"owner-guid": "francesco.tisiot@rittmanmead.com"
"metadata-last-modified": "2019-04-08T08:22:20.928+0000",
"bdp-profile": "{\"profile\":\"784c4626-ebd6-4a01-b5dc-1a3ccd0fee1a\"}",
"is-temporary": false
```

REST Endpoints - DB

```
"name": "OPEN_INCIDENTS",
"namespace": "francesco.tisiot@rittmanmead.com",
"business-model": "\"\"",
"indexable": "BOTH",
"description": "External Data Set",
"display-name": "OPEN INCIDENTS"
"data-last-modified": "2019-03-19T16:07:22.732+0000",
"connection-namespace": "francesco.tisiot@rittmanmead.com",
"private-connection": false,
"connection-name": "LGI",
"provider-type": "db",
"provider-name": "oracle",
"owner-guid": "francesco.tisiot@rittmanmead.com",
```

REST Endpoints - DB Details

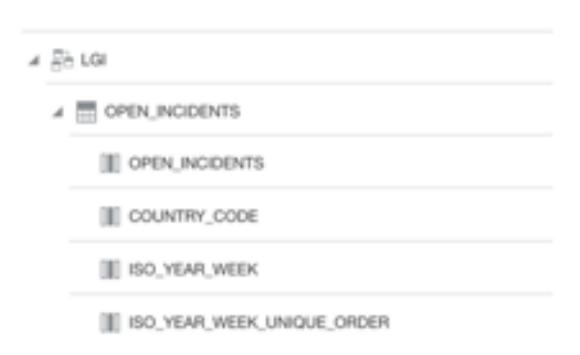
api/v4/datasets/{dataset-uri}

```
{dataset-uri} = '<USERNAME>'.'<DATASET_NAME>'
```

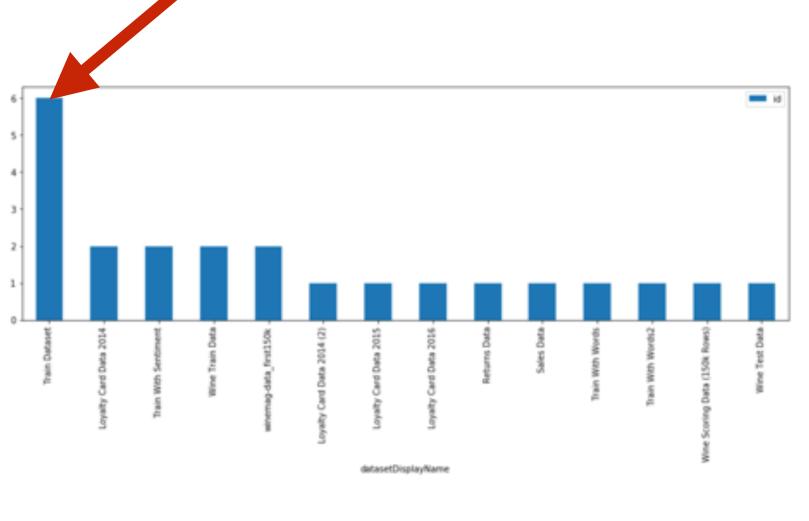
REST Endpoints - DB Details

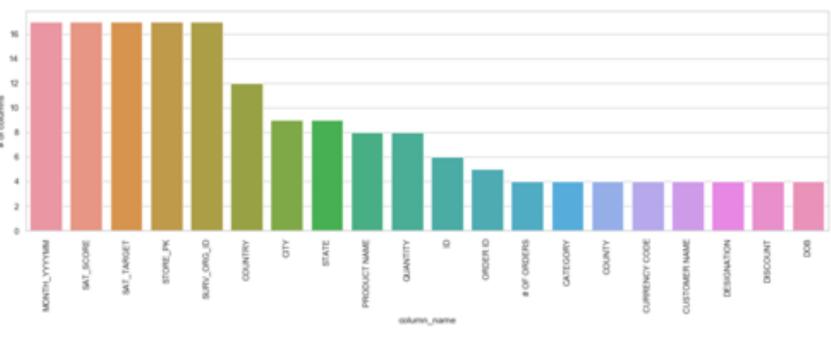
```
v<ds:datasetImportOptions xmlns:ds="com.oracle.bi/datasetimport/v1">
 v<ds:tables>
   v<ds:table name="Data" totalRowNumber="-1">
     v<ds:dataptr>
        <ds:connection id>'francesco.tisiot@rittmanmead.com'.'LGI'</ds:connection id>
      v<ss:doquery>
         select OPEN_INCIDENTS, COUNTRY_CODE, ISO_YEAR_WEEK, ISO_YEAR_WEEK_UNIQUE_ORDER from LGI.OPEN_INCIDENTS
       <ds:target_type>Oracle 11g</ds:target_type>
        <dsiobject_name/>
      </ds:dataptr>
     v<ds:columns>
      ▼<ds:column>
         <ds:name>OPEN_INCIDENTS</ds:name>
         <ds:datatype>number</ds:datatype>
        </ds:column>
      ▼<ds:column>
         <ds:name>COUNTRY_CODE</ds:name>
         <ds:datatype>varchar(10)</ds:datatype>
        </ds:column>
      v <ds:column>
         <ds:name>ISO YEAR WEEK</ds:name>
         <dsidatatype>varchar(30)</dsidatatype>
        </ds:column>
      v<ds:column>
         <ds:name>ISO_YEAR_WEEK_UNIQUE_ORDER</ds:name>
         <ds:datatype>number</ds:datatype>
        </ds:column>
      </ds:columns>
    </ds:table>
   </ds:tables>
```

REST Endpoints - DB Details



```
"id": "LGI",
"leaf": false
"otype": "Schema",
"name": "LGI",
children":
    "id": "LGI.OPEN_INCIDENTS",
    "leaf" false
     'otype": "dbtable",
    "name": "OPEN_INCIDENTS"
     allcolumns": [
        "datatype": "number",
         'name": "OPEN INCIDENTS'
        "is-supported": "TRUE",
        "otype": "Column",
        "leaf": true,
        "id": "LGI.OPEN_INCIDENTS.OPEN_INCIDENTS"
        "datatype": "varchar(30)",
        "name": "ISO YEAR WEEK",
        "is-supported": "TRUE",
        "otype": "Column",
        "leaf": true,
        "id": "LGI.OPEN_INCIDENTS.ISO_YEAR_WEEK"
```





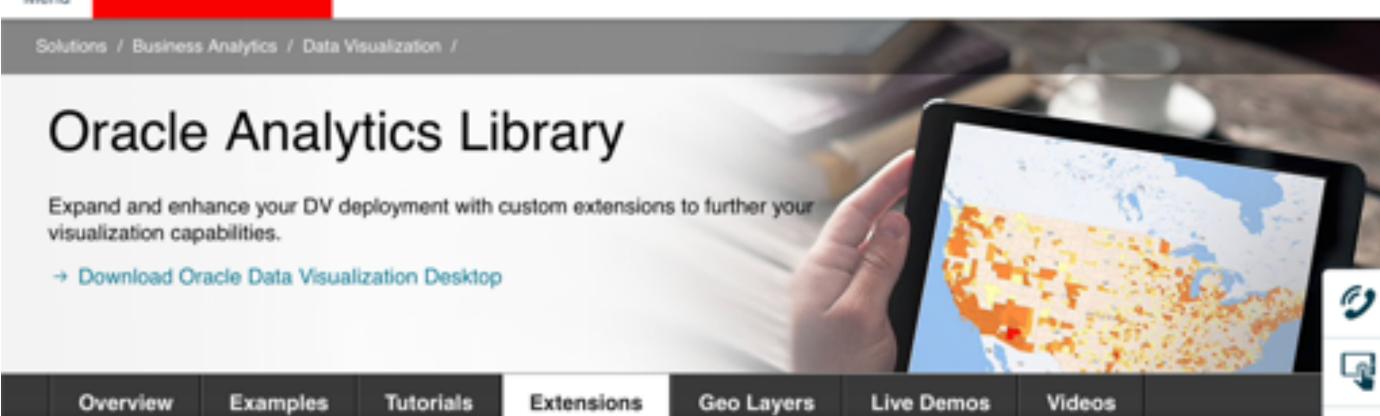






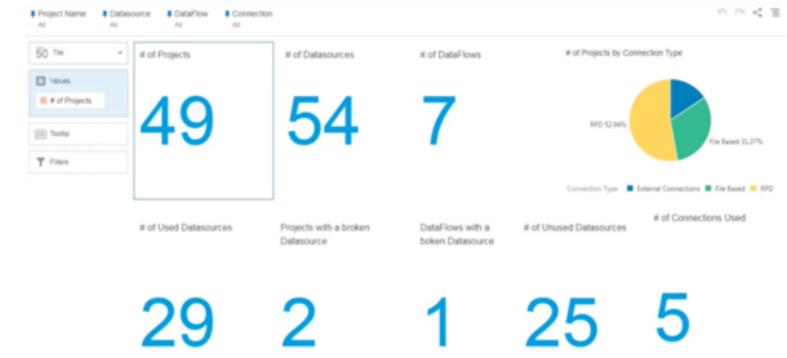




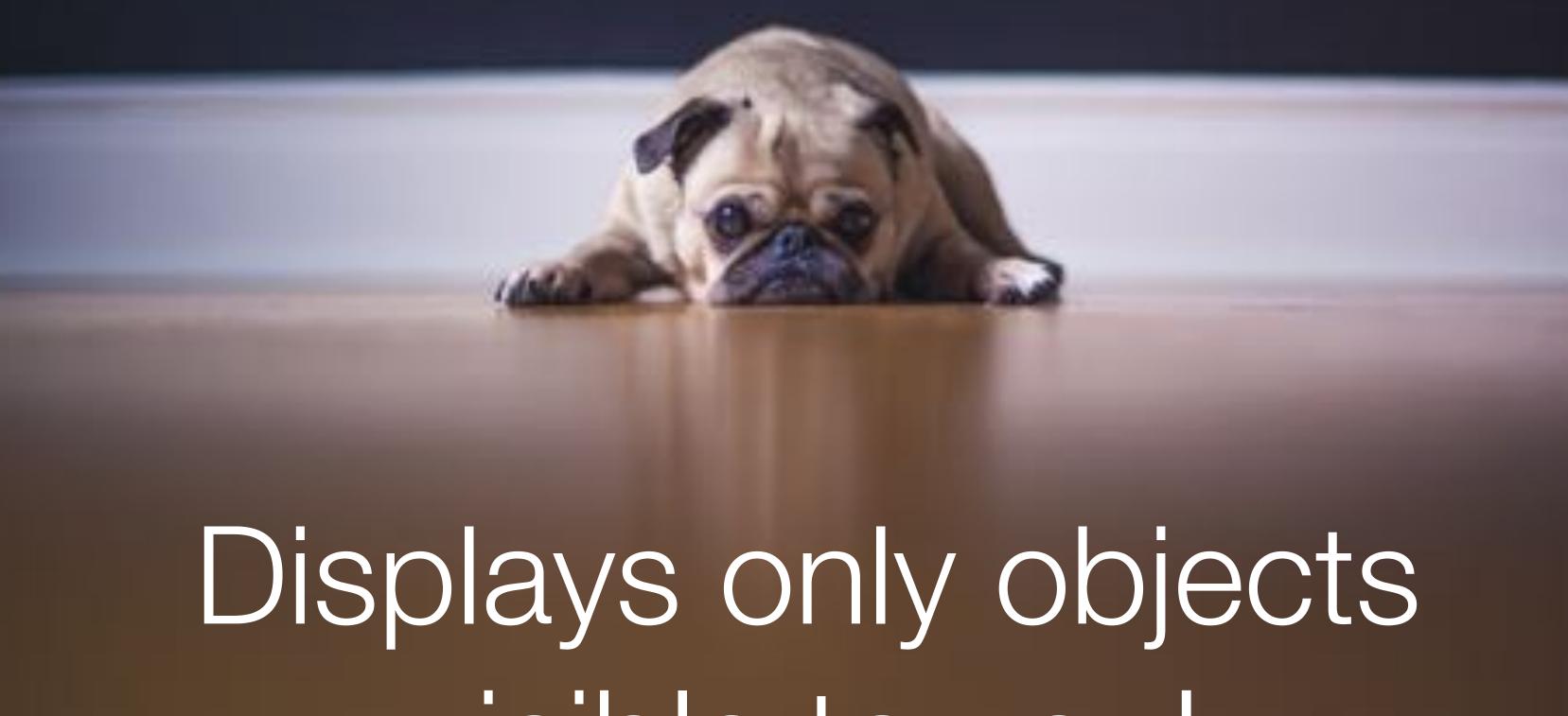


Data Governance Extension



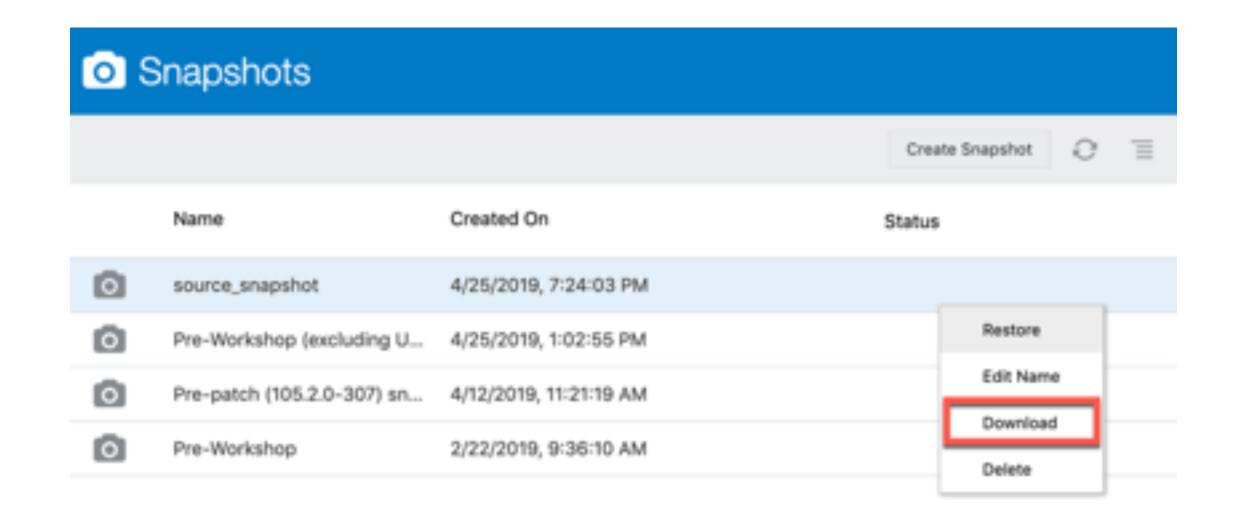




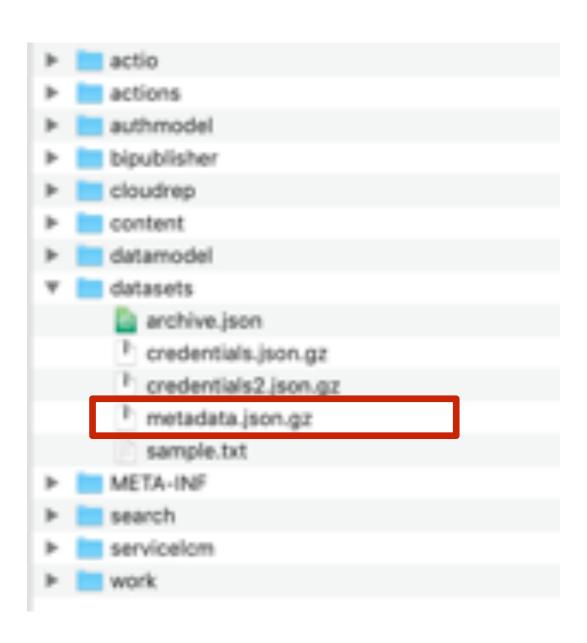


visible to you!

BAR File



BAR File





RM Metadata Explorer













RM Metadata Explorer Use Cases



Data Lineage

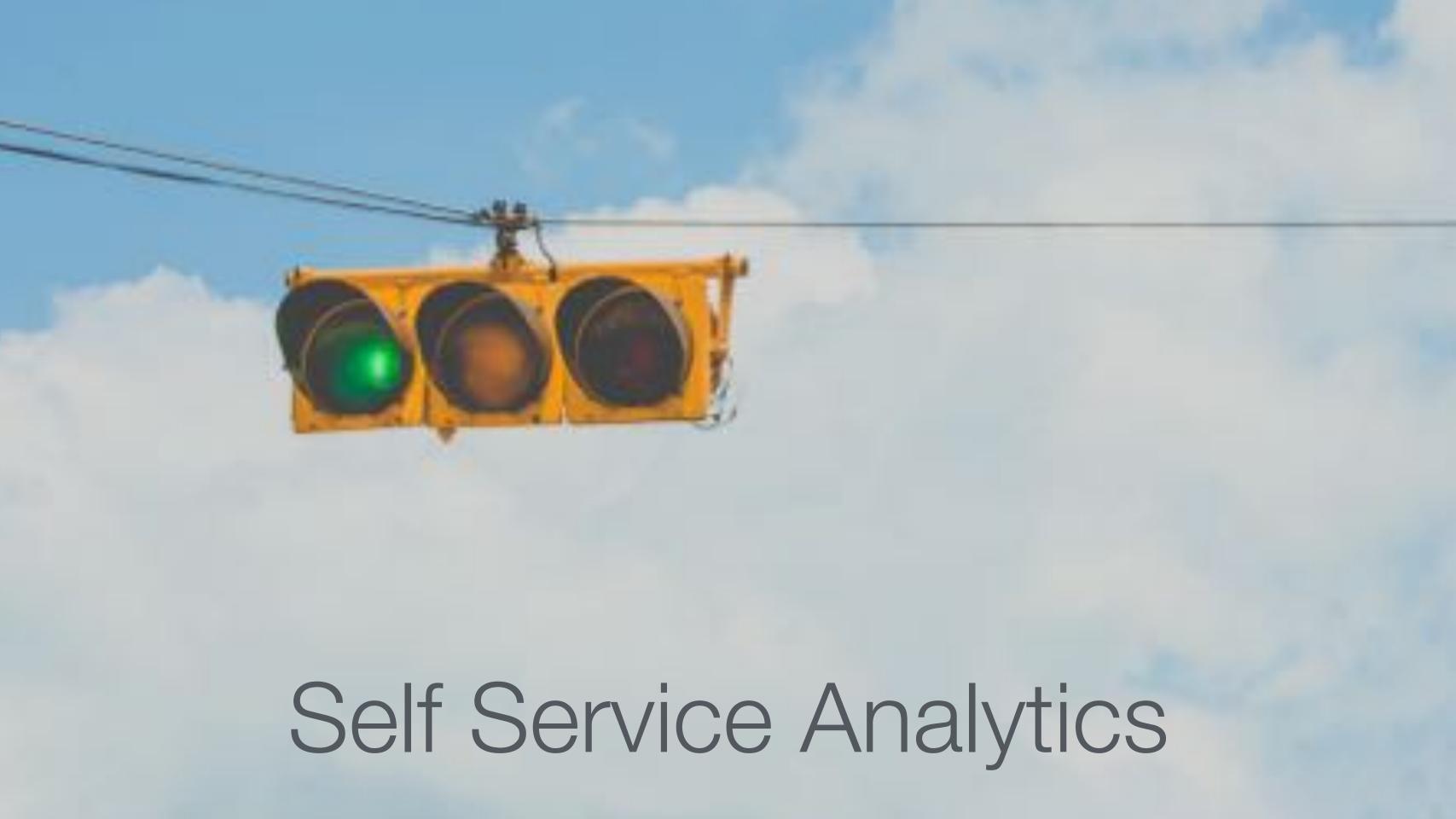
GDPR



Metadata Search Tool

Data Capital

DataFlow -> ODI Mapping





Measure



Become an Equilibrista

Find the Right Balance in The Analytics Tech Ecosystem



