

Digital Datasets

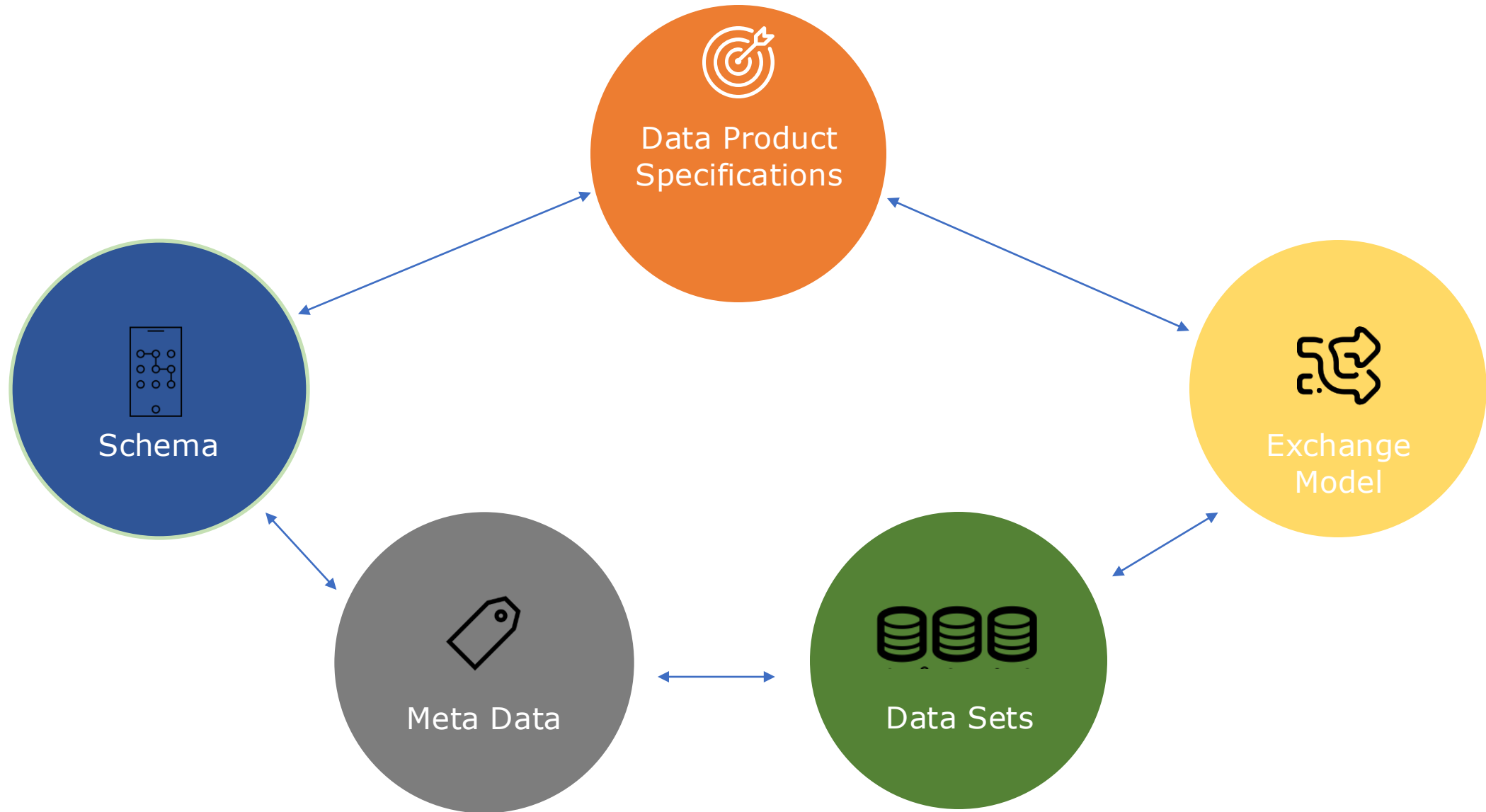
A Compliance Imperative



Sumit Khinvasara
ADL Coordinates Pvt.Ltd.



Elements of Digital Data Set



All of them together makes eTOD compliance



Apprehensions

1. Lack of Confidence
2. Doubt about Accuracy
3. Assurance of the Completeness
4. Recency
5. Publication Mechanism



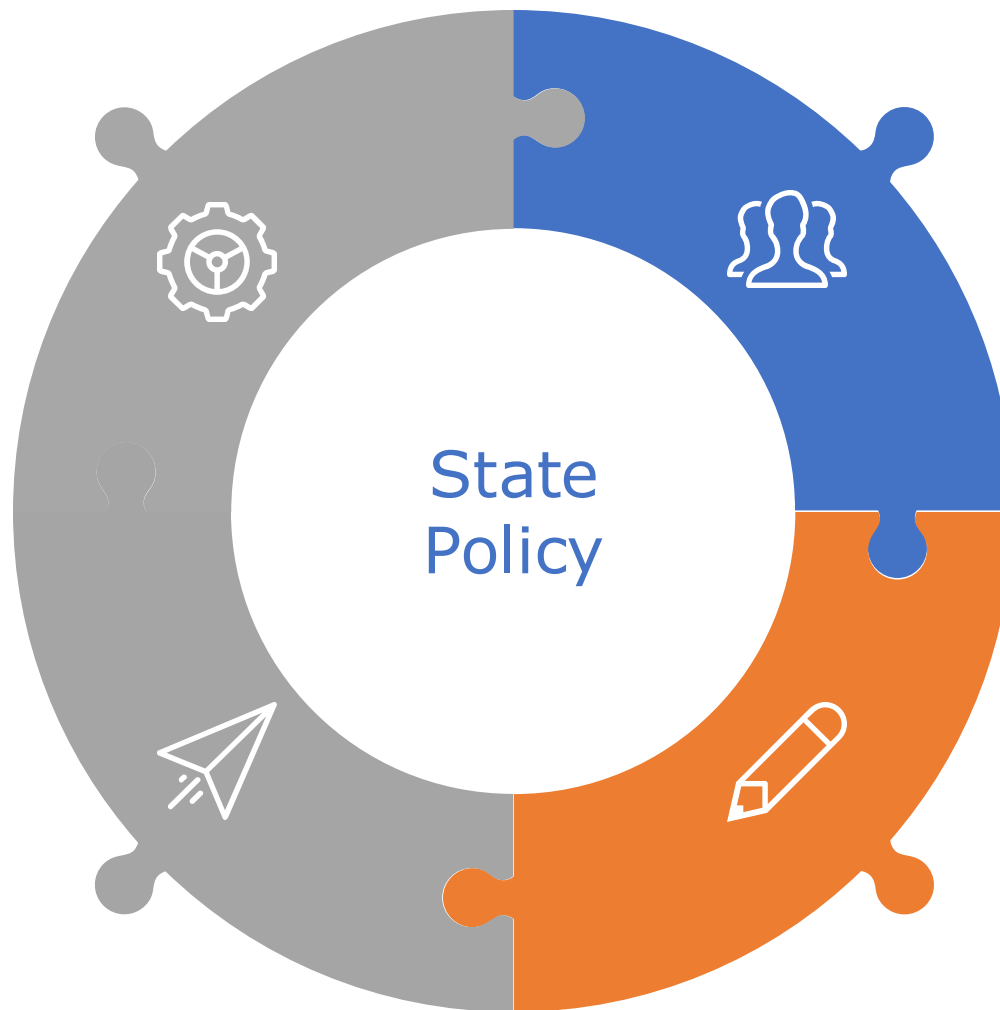
Pillars of Data Cycle

Specifications

Data Origination

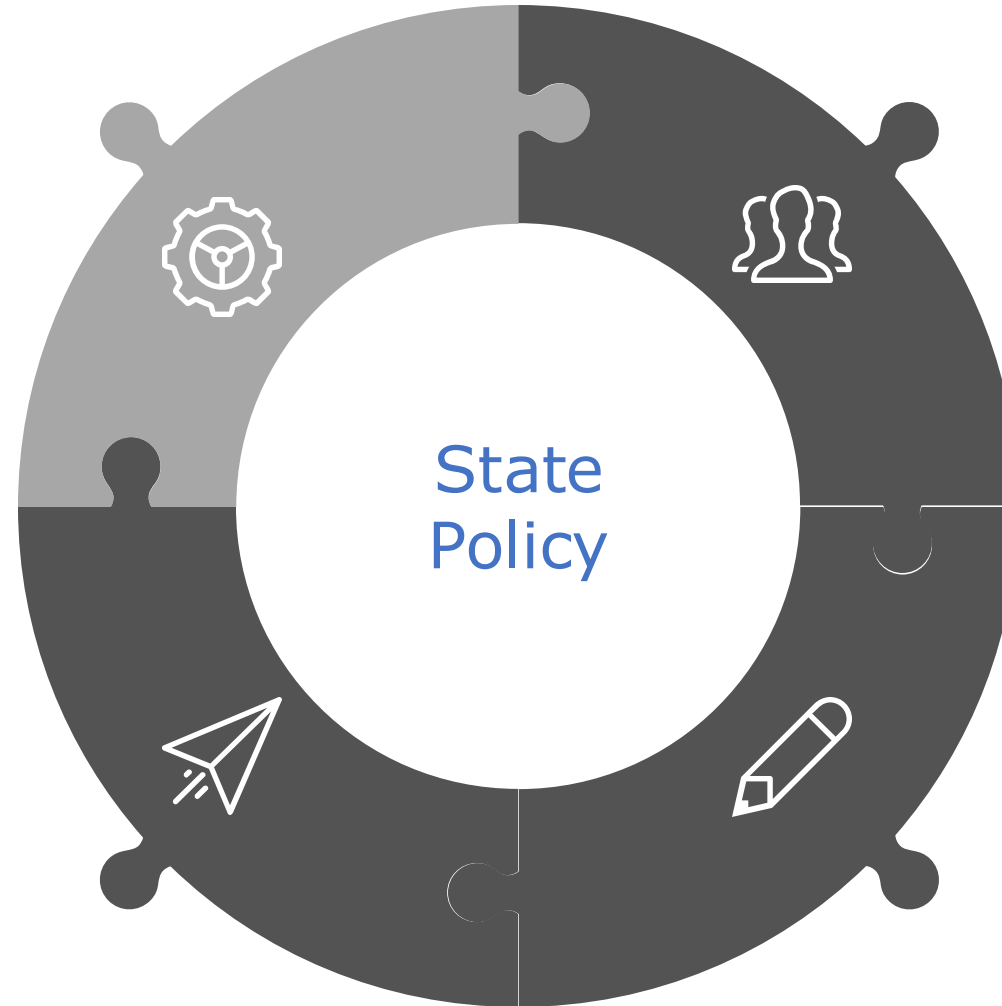
Publication

Validation by AIS/AIM



Pillars of Data Cycle

Specifications



Specifications Guideline Document



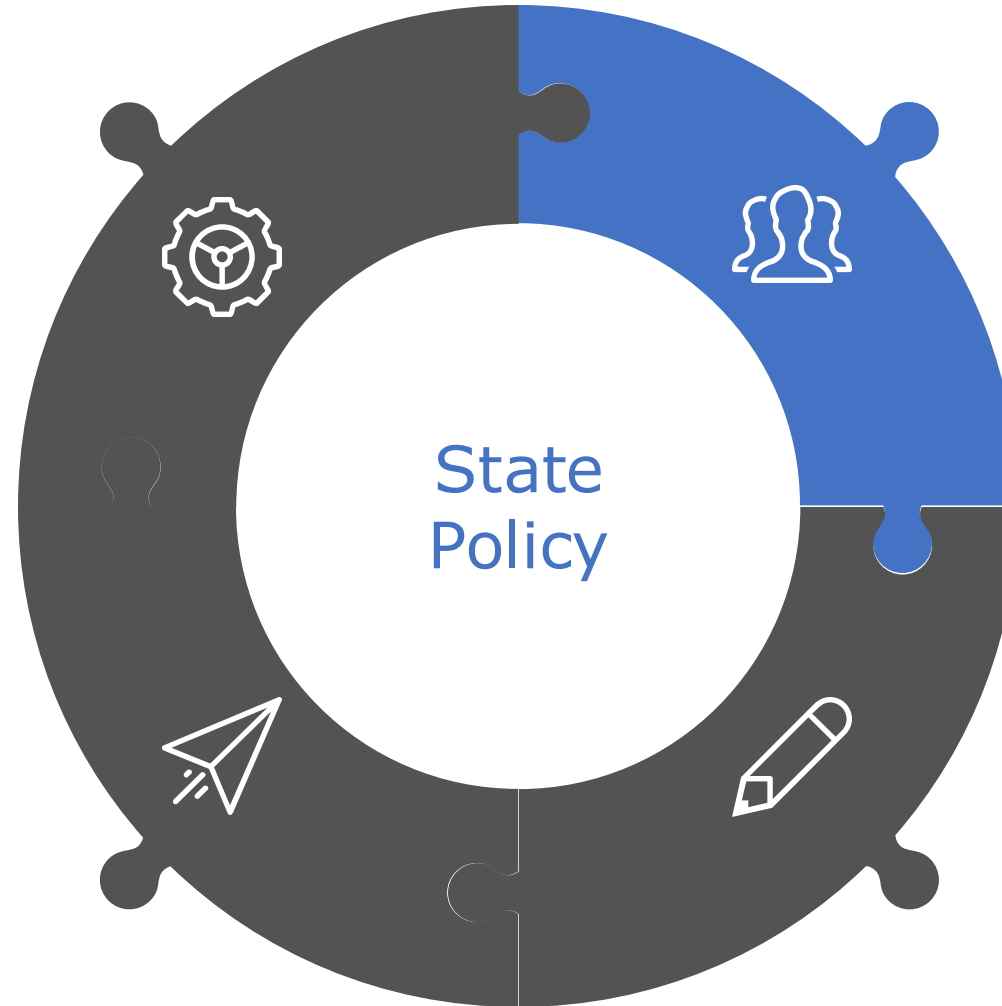
- Frequency of Survey (Initial + Check Survey)
- Fixing Datum
 - (WGS 84 - Horizontal & EGM - Vertical)
- Area of Coverages
 - Area 1 (Statewide)
 - Area 2, 3, 4 (Airport Specific)
 - Uniformity Geographic extends
- List of Deliverables :
 - Format
 - Accuracy
 - Uniformity Geographic extends

Data Product Specification (DPS)



Frame of reference
derived from various
guidelines and specifications

Pillars of Data Cycle



Data Origination



Limitations with Data Originators

1. Domain Knowledge -

End user's requirements and Criticality of data for PBN

2. Competency Gap -

Specific training w.r.t. Aeronautical Surveys and its impact on PBN

3. Consistency -

Uniformity of Enforcement or Development of Policy
(e.g. Local Datum vs Global Datum)

Certification of Agencies

Application - Step 1

- ✓ Team Details (Education, Training, KRA)
(Competency Assessment)
- ✓ Process (SMS / QMS, Methodology, Approach)
- ✓ Technology (Software, Equipments, Maintenance)



Certification of Agencies

Physical Audit - Step 2

- ✓ Verification
- ✓ Setting up expectations
- ✓ Interview of team
- ✓ Experience of systems

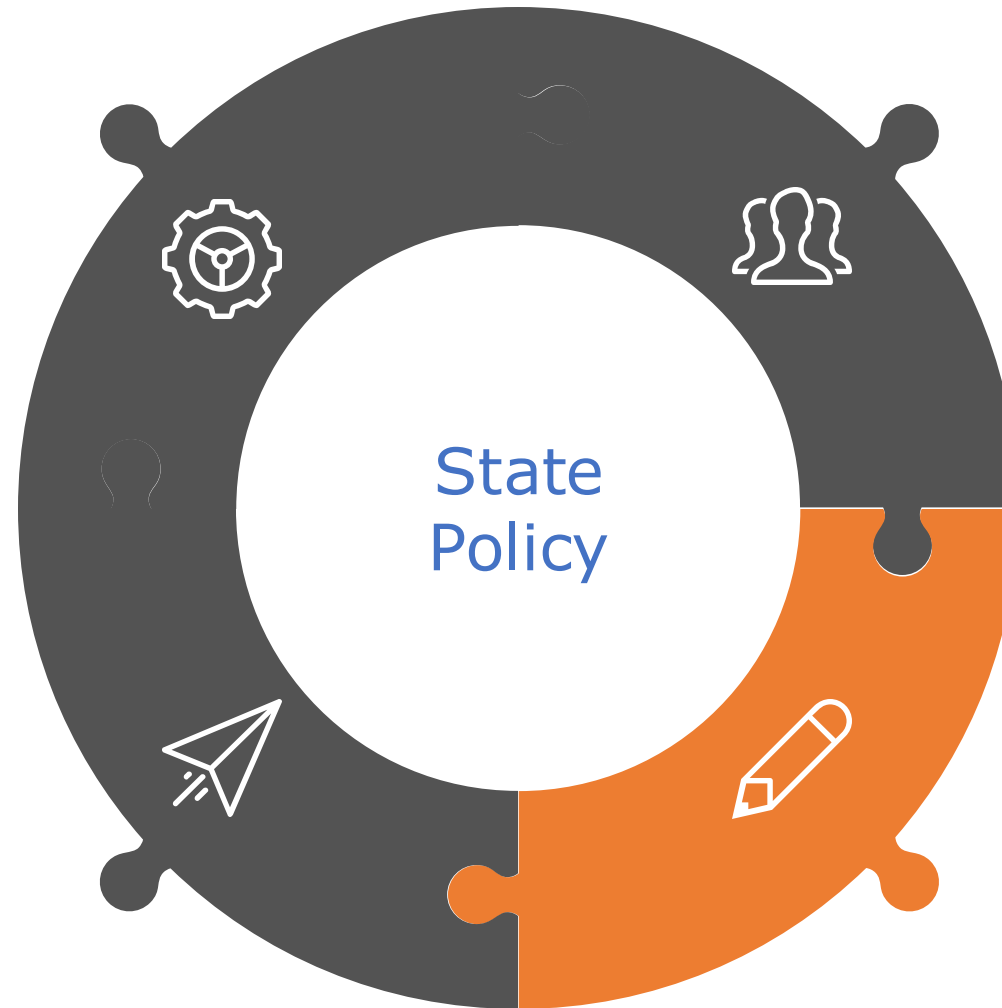


Data Sets



Data Set are absolute values

Pillars of Data Cycle



Validation by AIS/AIM

Validation by AIS/AIM

Data Source

The origin of the data, ensuring credibility and context.



Data Quality

The accuracy, integrity, resolution, and consistency of the data.



Recency

The timestamp indicating the data's last update.



Data Owner

The entity responsible for the data's management and governance.



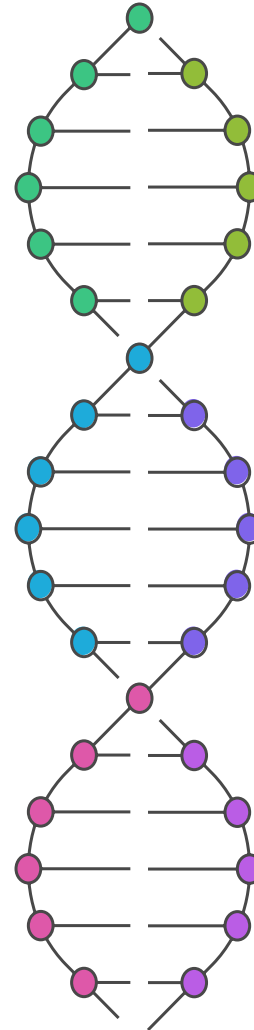
Confidence Level

The degree of certainty in the data's reliability.

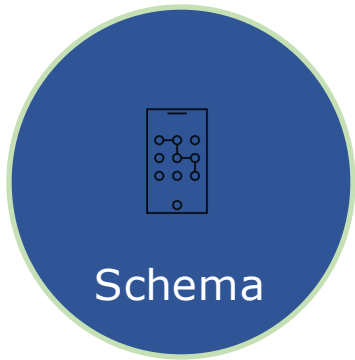


Formatting

The structure and presentation of the data.



Schema/Metadata



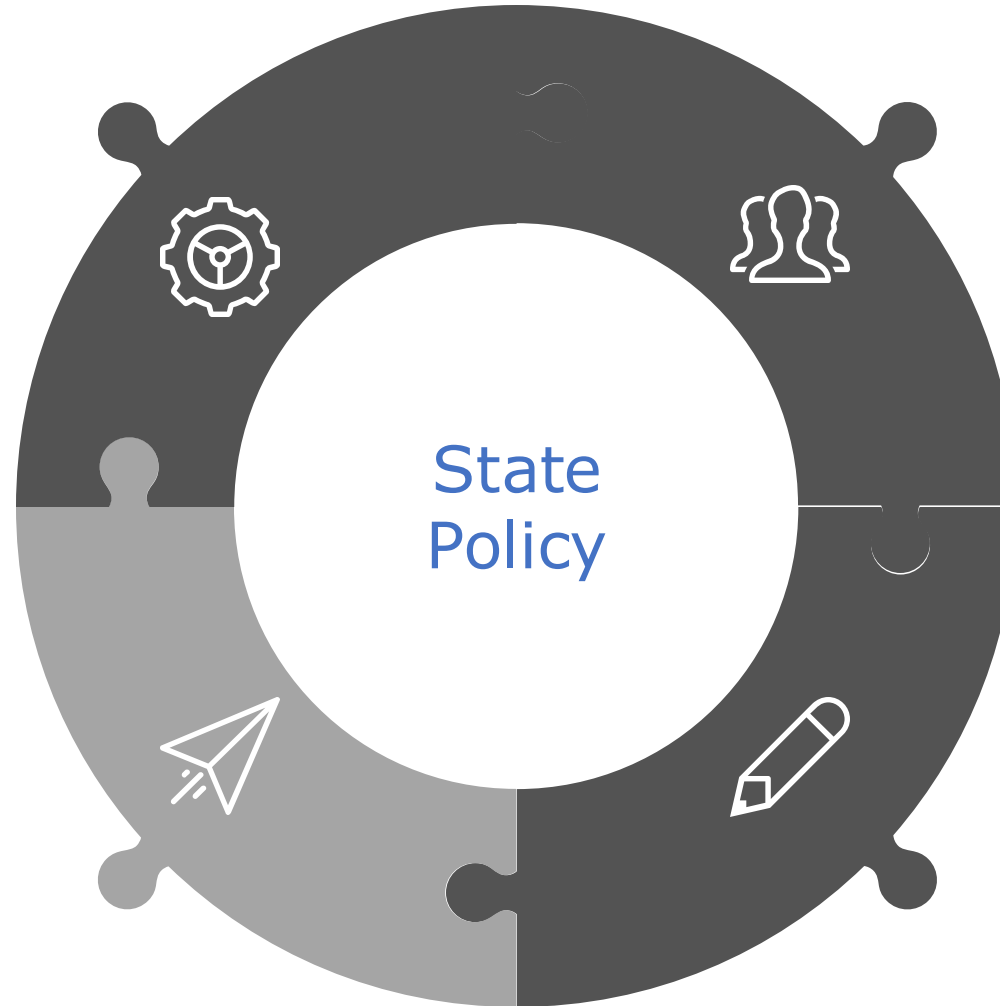
Structure of relationship between multiple data points of Real World Entities in Digital Format



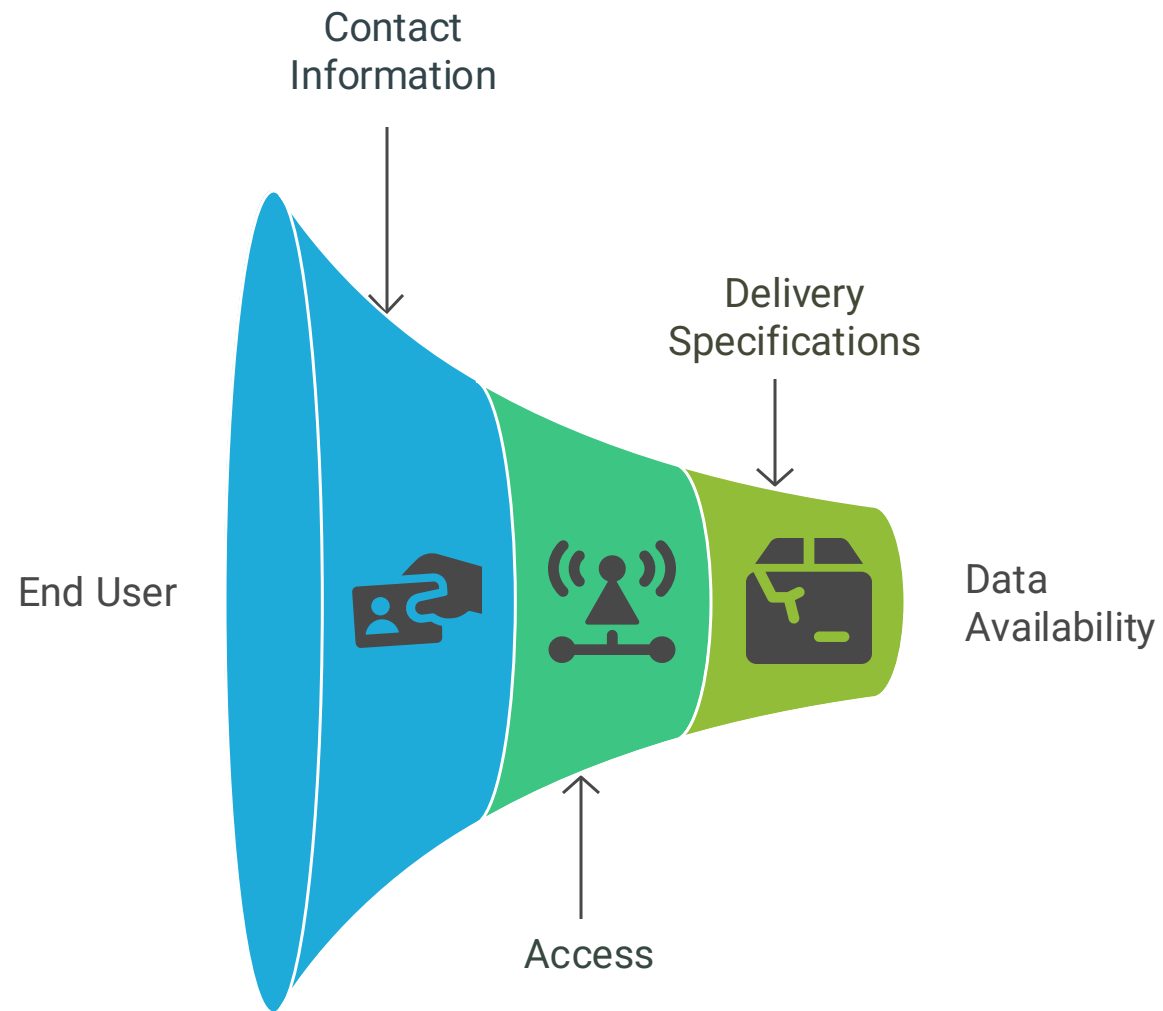
Meta Data is Characteristics of Data to determine the fitness for use without evaluating data itself

Pillars of Data Cycle

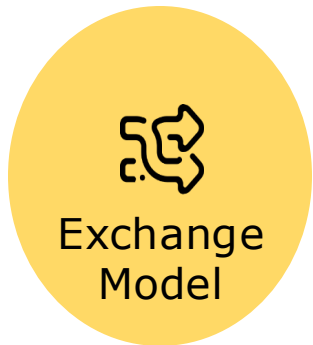
Publication



Publication

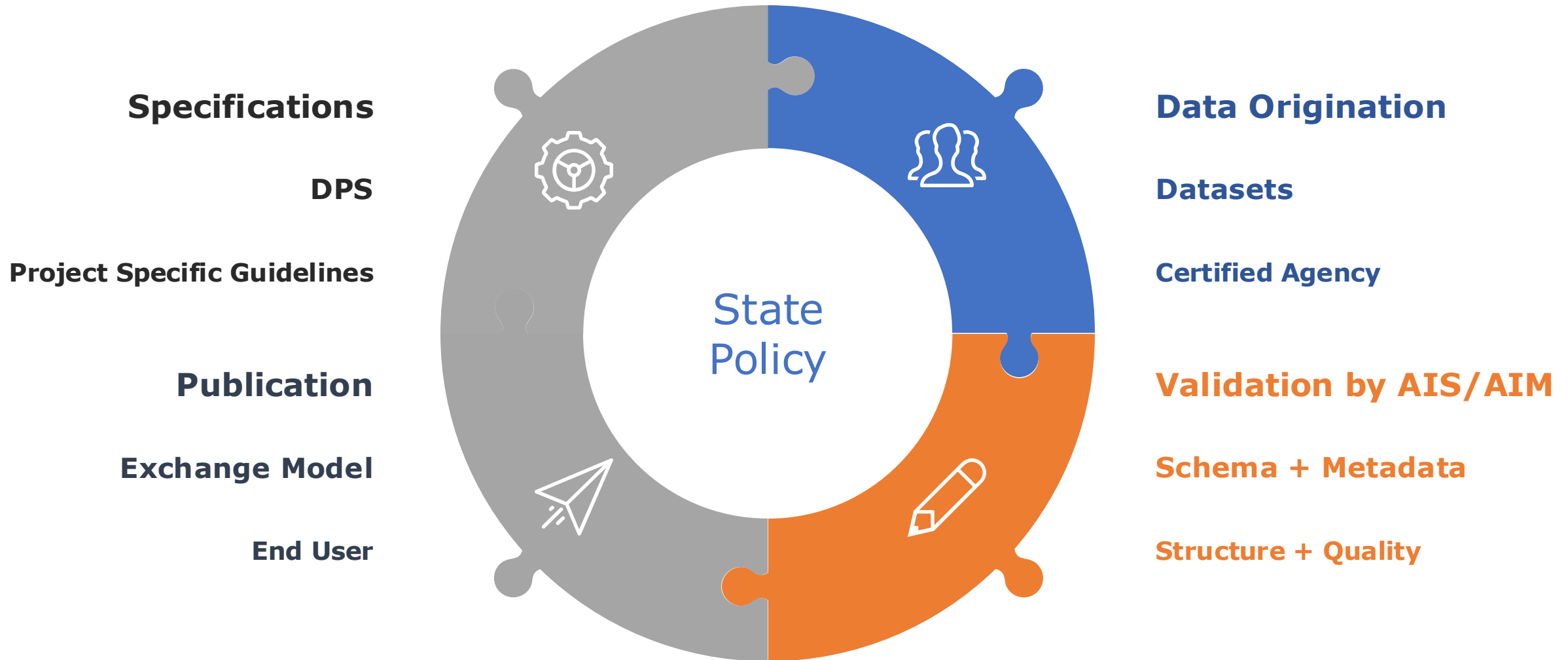


Exchange Model



Exchange Model is
Information Dissemination

Pillars of Data Cycle



Digital Datasets





Sumit Khinvasara
ADL Coordinates Pvt.Ltd.

sumit@adlcoordinates.com
+91 9371550407