

Data Products: Design Stage

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Market Research

User Problem
Identification

User Journey
Mapping

Lean Value Tree or Open Source
Data Product Decisioning Process

Semantic Engineering

Prep

Defining Ownership

Discovering Pre-
Built Assets

Industry-Specific
Templates

Collaborative
Interface

Semantic Modeling

Business Metric Model

Semantic Data Model

Design Validation

Mock Data as a Service

Presenting Impact on KPIs

Source-Mapping

Semantic Querying

Unified Collection of Capabilities

Global Resources



Storage



Compute



Stack



Operator



Policy



Dataplane

Local Resources



I/P Port



Contract



Query Cluster



Service



Workflow



Secret



Database

Bundle

Out-of-Box Platform Features

Dynamic Configuration Management
(Env, Workspaces, Tools, etc.)

Managed Clusters

Automated Workflows

Isolated Workspaces & Runtimes

Development

Existing & New SDKs

IDE Plugins

Toolkit to Treat
Data-as-Software

Pro-Code Development

Low-Code Development

Embedded Observability Service

Embedded Governance Service

Data Products: Deploy Stage

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Standardisation: Stabilising the Data Infrastructure

Tenancy

Workspaces

Namespaces

Data Products

Use Cases

Domains

Teams

Key Resources

Data Plane

Utility Plane

Bundle

Data Product
Bundle

Operator

Stack

Control Commands

Apply

Get

Delete

Capabilities for Devs

Declarative Specification & Scaffolding

Single Point of Orchestration

Single-Command Deployments

Real-Time Catalog Update

Self-Serve Infra Backbone

Evolutionary Architecture

Dynamic Configuration Management

Delivery Pipelines Embedded
with Fitness Function Receptors

Closed Loops for Feedback

SLO Evolution

Metric Tree
Monitoring

Advanced SLO
Whiteboarding

RCA & Metric
Optimisation

Adoption Tactics

Incremental Access Policies
& Subscription Management

Resolving Downstream
Evolution Requests

Feedback-Driven
Data Product Design

Optimisation

Resource Optimisation

Maintenance Automation & Bug Fixes

Log Analysis Enhancements

Retirement, Auditing, Versioning