



Big Data Middle Platform Solution

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01

Challenges and Issues

02

Introduction to Big Data Middle Platform

03

Solution

04

Success Stories

Challenges and Issues

01

Disorganized Data Abundance

- Numerous isolated application systems cannot interconnect.
- Non-standardized data fails to meet business needs.
- Large data volumes incur high collection costs.

02

Fragmented Data Application

- Incomplete data dimensions lead to limited, superficial use cases.
- Lack of end-user perception and feedback mechanisms.
- Absence of operational data analytics.

03

Dispersed Operational Data

- Business management reports are scattered across multiple systems.
- Lack of tracking and monitoring for management directives.

04

Legacy System Limitations

- Current systems do not support standard data warehouse modeling operations.
- Existing systems cannot handle multi-dimensional modeling without risking database failure.

05

Lack of Self-Service Analytics

- Analytical reports require dedicated data developers to complete.
- Business departments cannot independently generate needed reports.

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Big Data Middle Platform



The digital age has given rise to a critical new asset: **data**. As data evolves into a pivotal factor of production, building a robust data asset framework has become an urgent priority.

Amidst this technology-driven revolution, the digital economy is the new engine for enterprise growth. Across all sectors, the focus is on developing digital industries—from management to manufacturing—tailored to regional strengths, with the goal of fostering leading digital enterprises.

Development Goals



Data Convergence, Storage, and Computing

Build the foundational software environment for an enterprise data resource pool to break down data silos.



Data Governance

Establish unified data standards to enable information integration and sharing, achieving the goal of a single source of truth.



Data Services

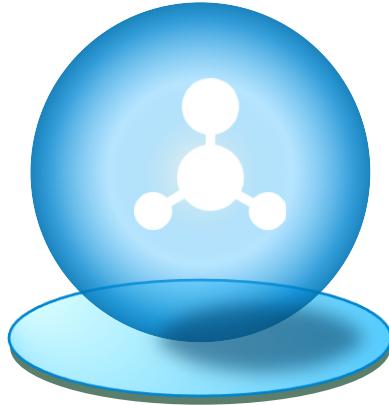
Enhance the value of enterprise data by providing unified data services and support to downstream business systems.

Expected Benefits



Achieve Data Sharing

Centralize data via the platform to enable secure, privacy-compliant access across departments, maximizing its value as a strategic business asset.



Enhance Business Collaboration

Integrate dispersed data from various systems into a unified platform, facilitating cross-departmental cooperation and providing a foundation for enterprise-wide analysis and oversight.



Drive Business Innovation

Empower business teams to conduct multidimensional analysis and data mining based on detailed, trusted data, creating favorable conditions for service, product, and business model innovation.



Increase Development Efficiency

Provide a consistent data foundation through the platform, simplifying complex data sourcing and processing to significantly improve the efficiency of building and operating IT systems.



Improve Data Quality

The data warehouse integrates and cleanses dispersed data, systematically enhancing overall corporate data quality and practicality.

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Platform Development Plan

1

Establish a Data Governance Foundation

Build a data quality inspection system to identify, categorize, and resolve data issues, initiating systematic governance.

2

Unify Business Data Standards

Analyze business systems to create and implement unified data standards, ensuring consistent terminology across all operations.

3

Build a Scalable Data Warehouse

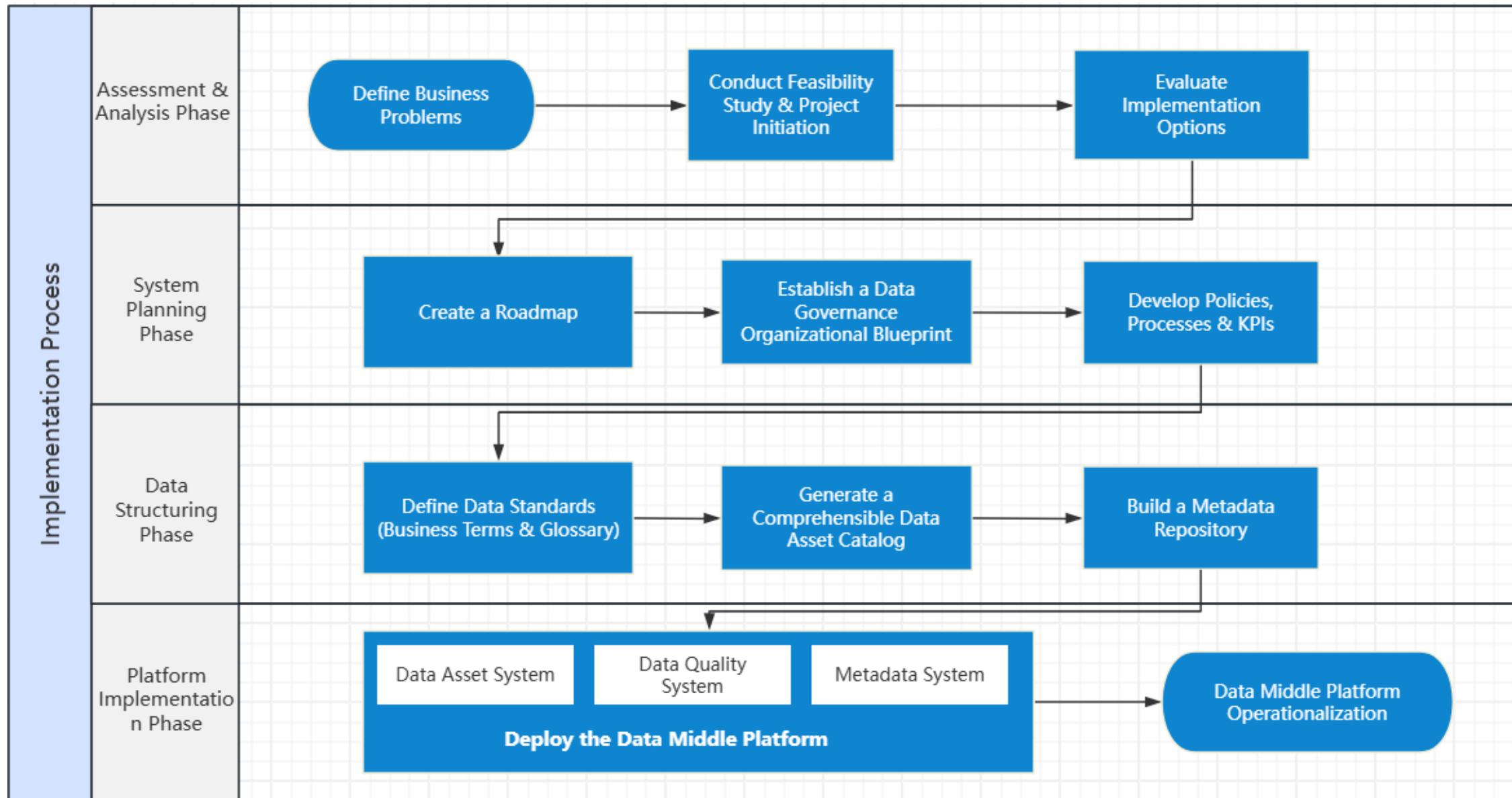
Develop a stable, scalable data warehouse framework that integrates core business data for efficient access and historical analysis.

4

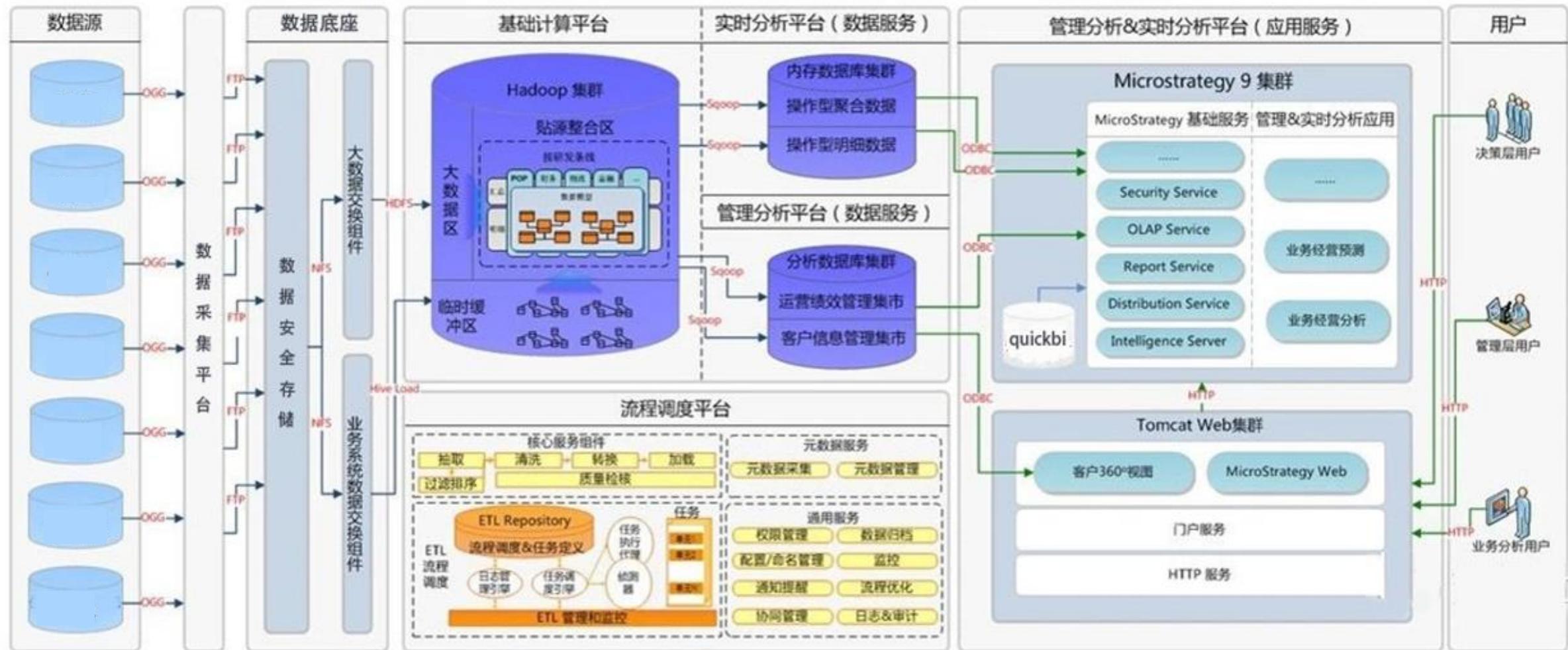
Drive Data-Driven Transformation

Unlock data value by applying it to practical business scenarios, making it the cornerstone of process innovation and strategic decisions.

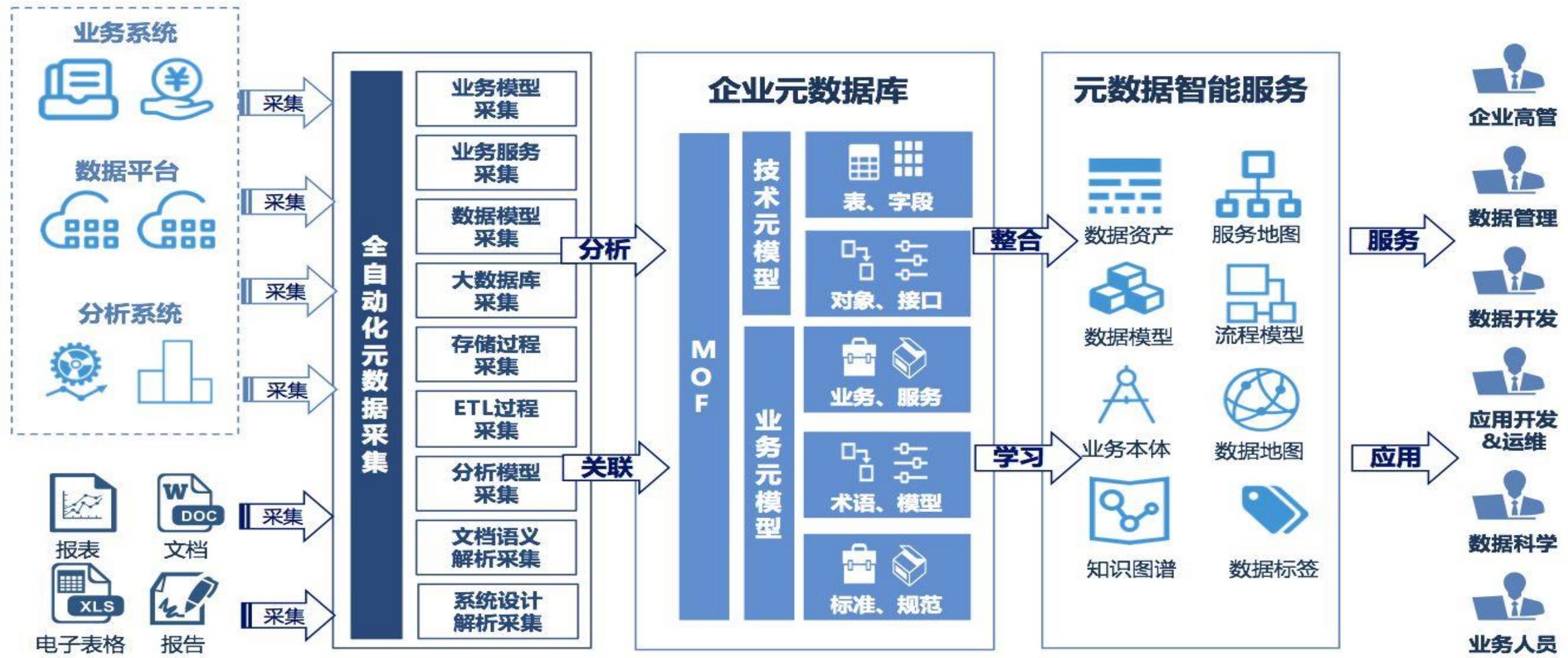
Implementation Process



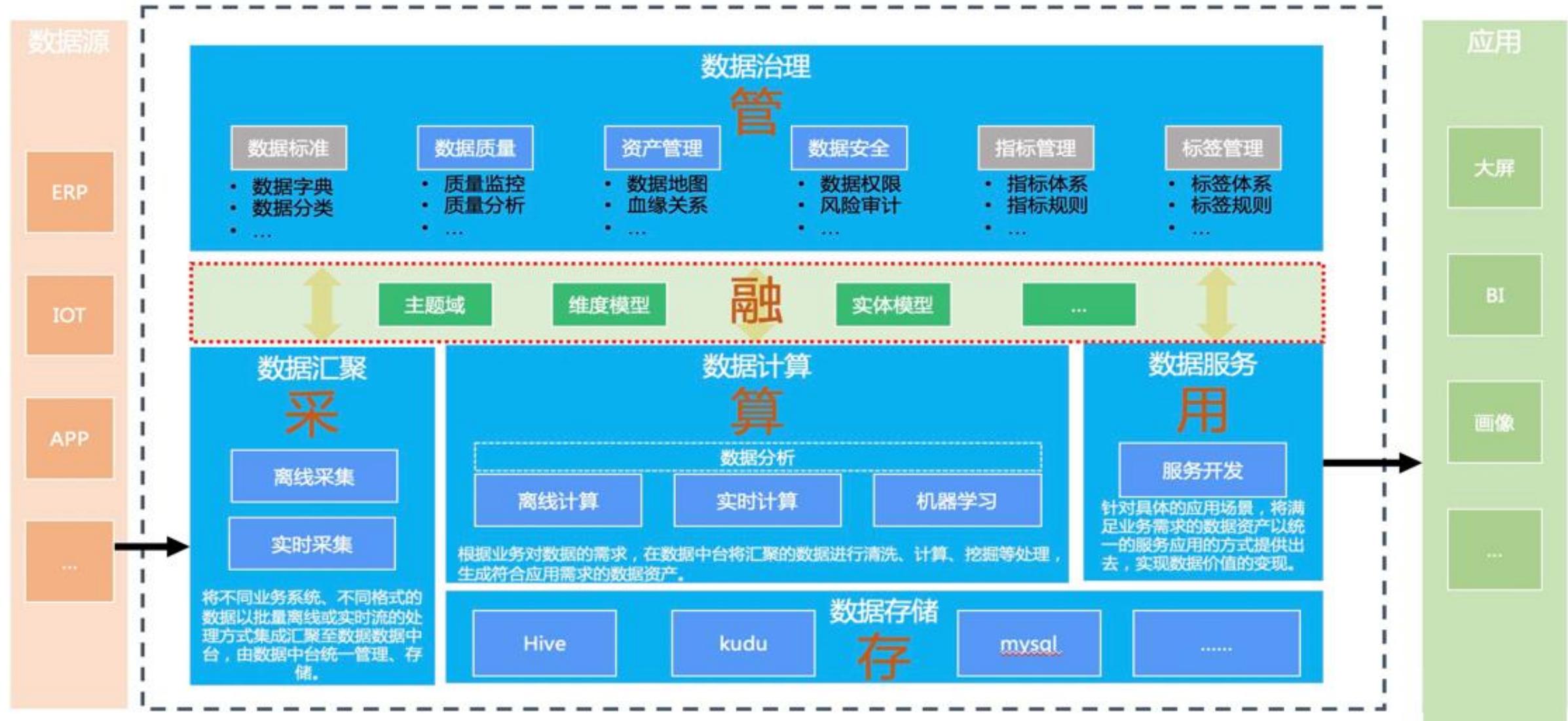
System Architecture



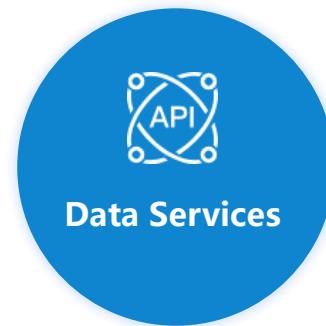
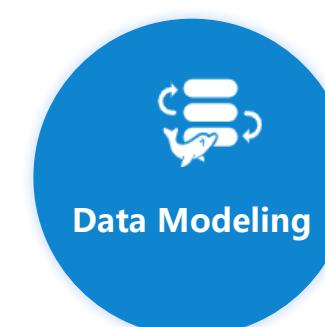
Platform Architecture



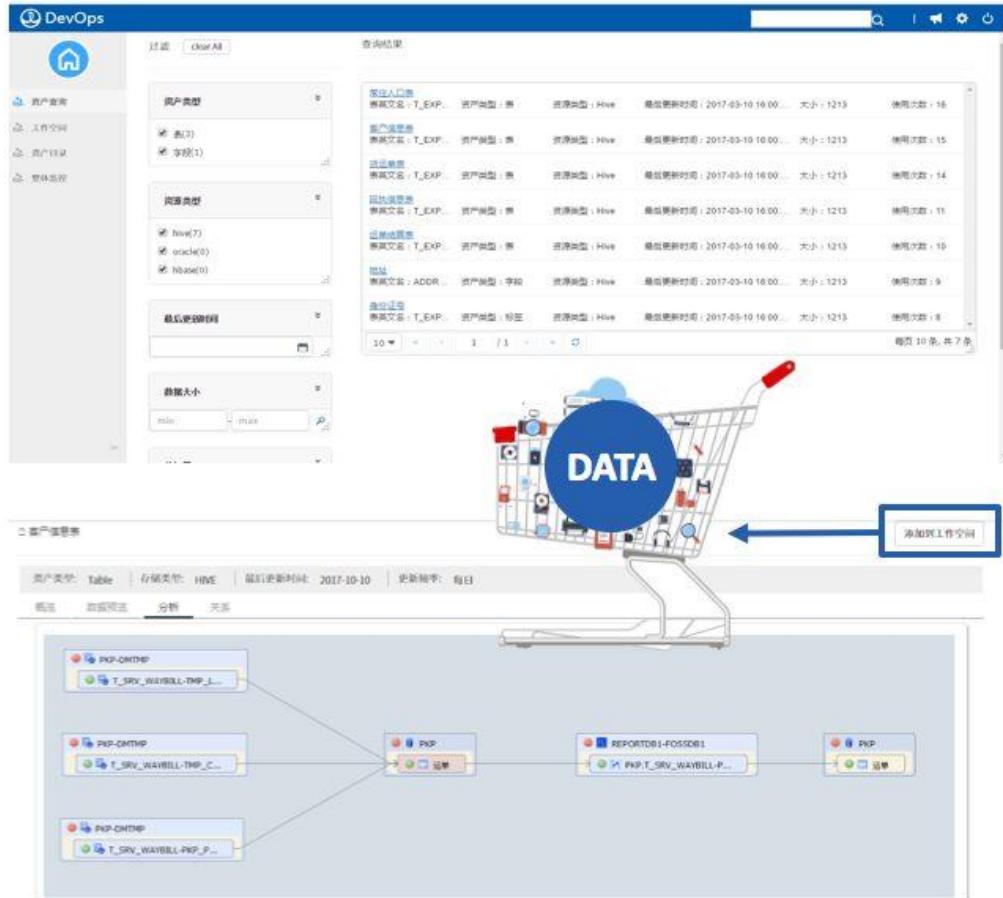
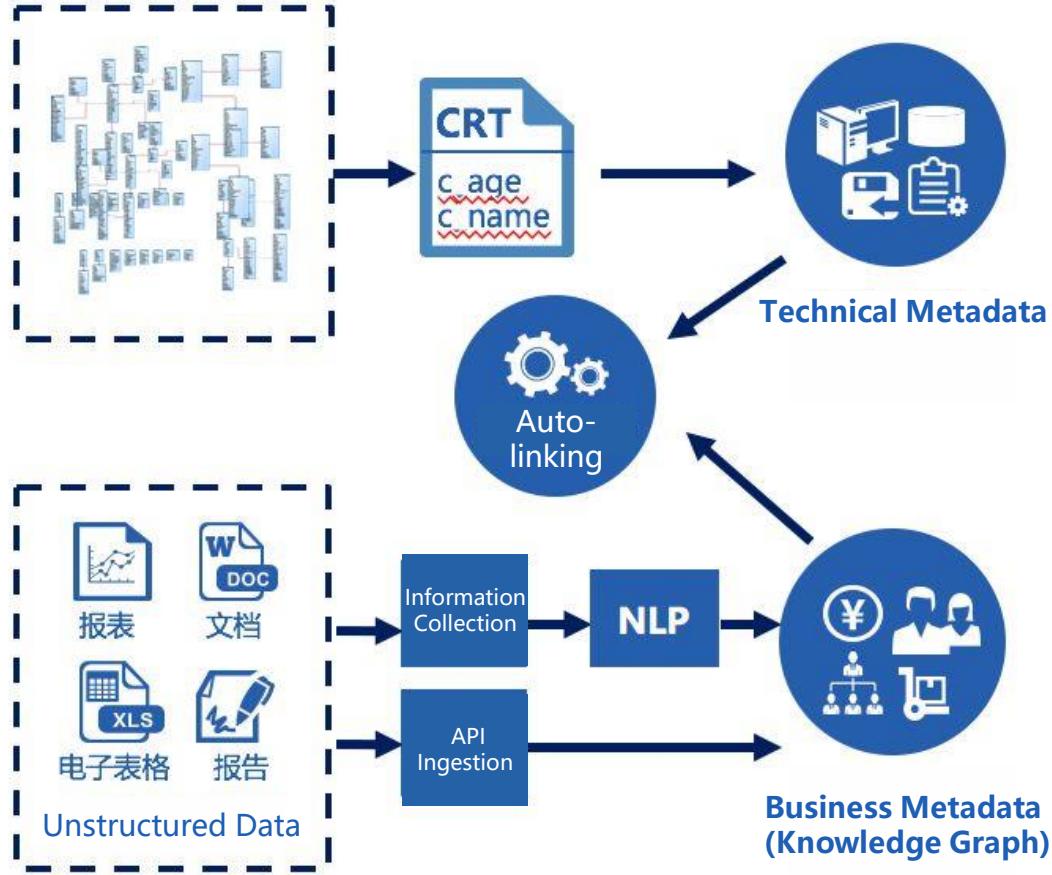
Product Architecture



Product Components



Features — Data Ingestion



Features — Data Governance

Operational Level

Progressively address reporting data quality issues to systematically reduce manual report corrections by frontline staff, using established data standards as the guiding basis.

01

Management Level

Establish a formal data quality management mechanism that encompasses the complete workflow of issue identification, root cause localization, and systematic resolution.

02

Data Error Correction

Implement a source-of-truth accountability principle: the individual or team that enters the data is responsible for its subsequent correction.

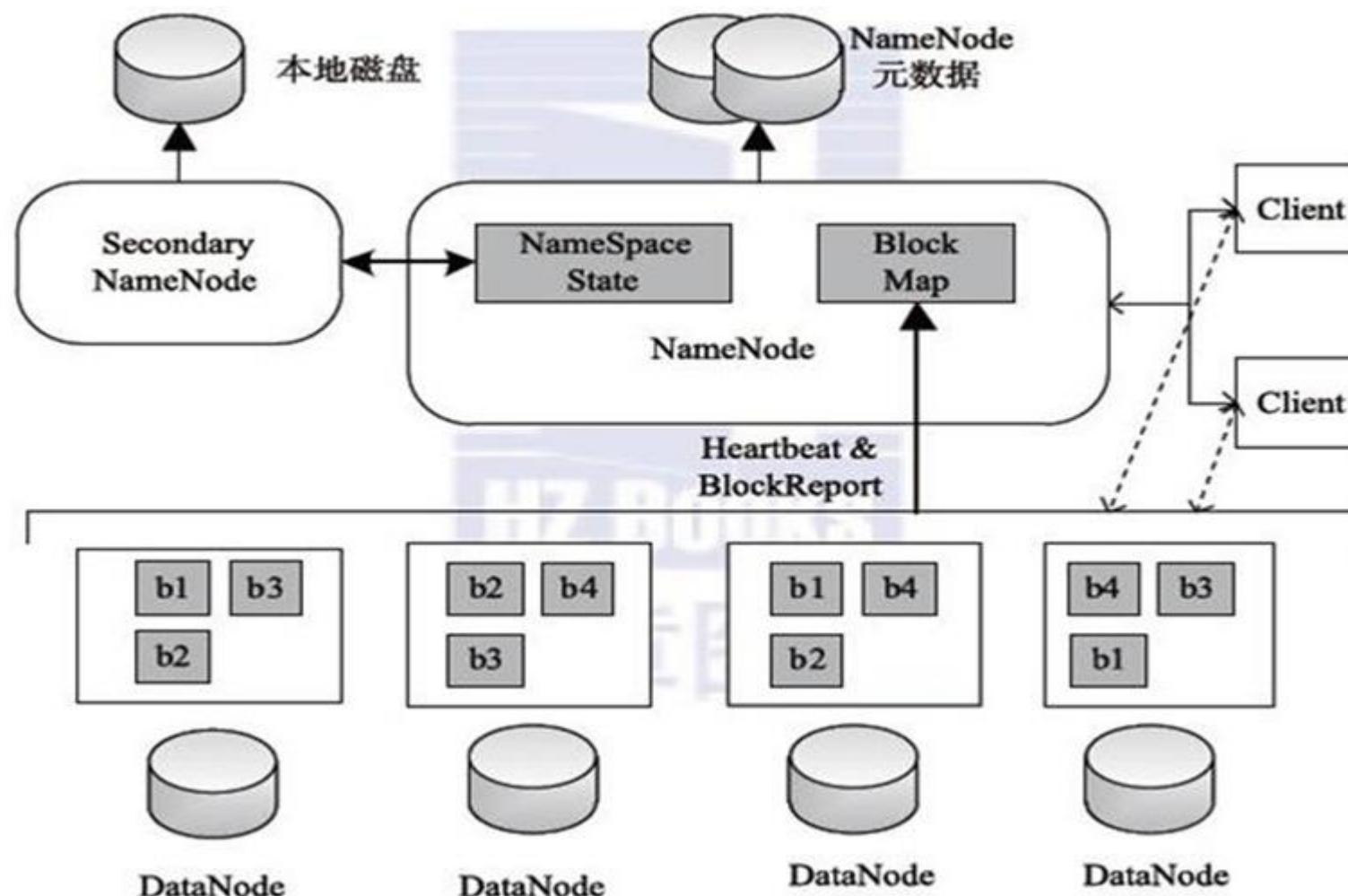
03

IT System Development Level

Embed data quality validation rules directly into IT systems. This creates a verifiable data quality ledger, providing an objective basis for resolving issues and conducting performance evaluations.

04

Features — Data Storage



Features — Data Security

In the process of big data development, addressing security risks—such as personal privacy exposure through data correlation analysis—is a primary concern. We have established the following key data security metrics: Confidentiality, Integrity, Availability, Accountability, Authenticity, and Reliability.

Risk management primarily involves the following four activities:

- Establish a big data risk management strategy aligned with the organization's overarching security policy.
- Select appropriate safeguards based on risk assessment outcomes, including but not limited to data masking (e.g., 139****1234), data encryption (plaintext: 12345, ciphertext: \$2a\$10\$LVqJWI3Mvo...), and data obfuscation (e.g., before: "数据中台", after: "电台期发").
- Formulate specific security policies and update the overall security strategy as necessary.
- Develop and execute security plans to implement the approved protection measures.

Features — Analytics & Modeling

1. Model Change

Structural changes, business field changes.

Example: Field length, field type.

2. Impact Analysis

Determine the scope of impact based on metadata changes.

(Analysis based on: Chinese name, English name, data type, length, valid values...)

3. Define Impact Scope

Scope both inside and outside the data warehouse, within the big data environment.

Example: ODS (Operational Data Store), Core Layer, Risk Data Mart.

4. Process Triggering

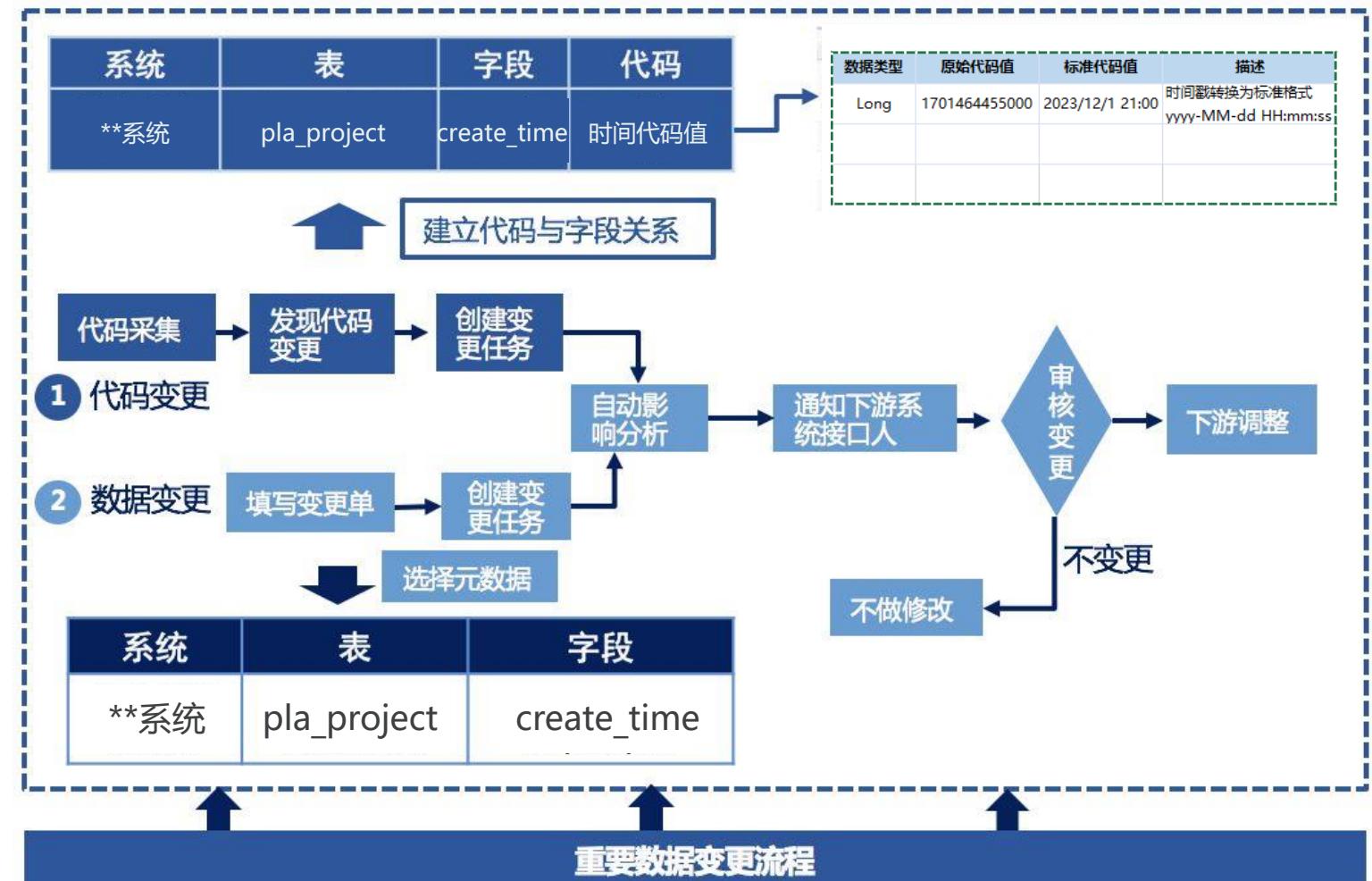
Trigger notifications across the data pipeline.

Via SMS, WeChat, etc.

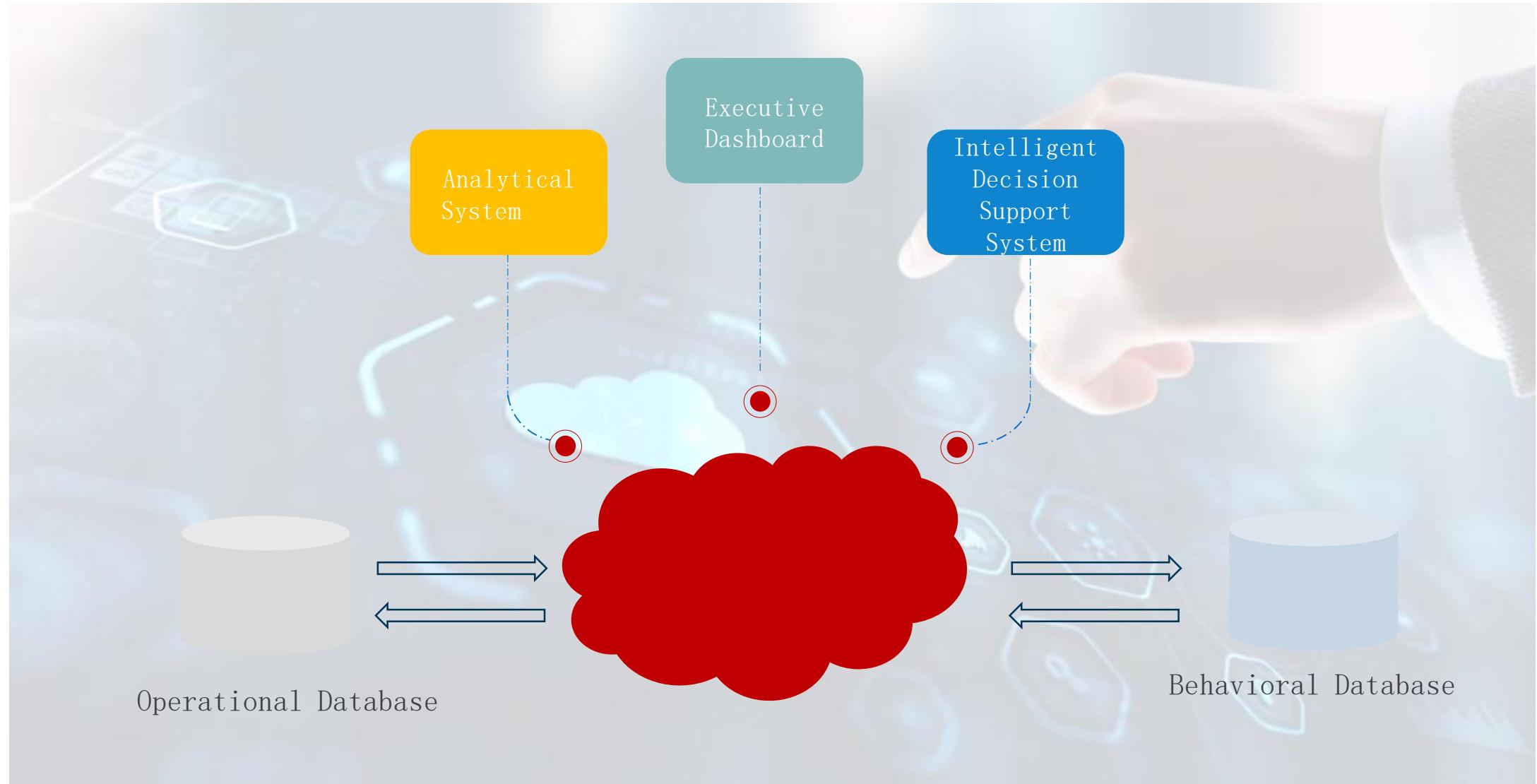
5. Modification Confirmation Process

Confirm and execute the relevant data modification procedures...

Example: Immediate modification, deferred modification, no modification (with reasoning and alternative handling methods).



Features — Data Services



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Success Stories

数据中台

- 首页
- 应用系统
- 数据源管理
- 采集表配置
- 运维监控
- 数据管理
- 消息管理
- 任务中心
- 系统管理

首页 / 首页

admin

今日统计

采集任务 333 个

成功 331 个

失败 2 个

处理中 0 个

查看更多

应用系统	采集任务	采集成功	采集失败
...	13	13	0
...	10	10	0
...	16	16	0
...	99	99	0
...	52	52	0
...	11	11	0
...	0	0	0
...	37	35	2
...	31	31	0
...	0	0	0
...	64	64	0

功能模块

入湖&报表生成

大数据建模

数据库操作平台

数据服务

帮助文档

用户操作手册

常见问题解答

Success Stories

数据中台

- 首页
- 应用系统
- 数据源管理
- 采集表配置
- 运维监控
- 采集任务
- Redis监控
- 数据管理
- 消息管理
- 任务中心
- 系统管理

首页 / 运维监控 / 采集任务

zjcs

任务列表	全量采集任务	增量采集任务	实时任务	失败任务						
采集表名	请输入采集表名	日期	2024-05-18 - 2024-05-24	应用系统	请选择应用系统	数据源	请选择数据源	状态	请选择状态	
采集方式	请选择采集方式	<input type="button" value="搜索"/>	<input type="button" value="重置"/>	<input type="button" value="导出"/>						
业务编号	采集表名	数据源	应用系统	采集方式	上传总数(条)	上传总次数(次)	任务状态	开始时间	结束时间	操作
c0a8006f8f9baec018f9baec720059	████████	████████	████████	全量同步	35	1	成功	2024-05-21 23:04:43	2024-05-21 23:04:43	<input type="button" value=""/>
c0a8006f8f9baee6018f9baee63f0058	████████	████████	████████	全量同步	33	1	成功	2024-05-21 23:04:42	2024-05-21 23:04:42	<input type="button" value=""/>
c0a8006f8f9baee0018f9baee02a0057	████████	████████	████████	全量同步	1	1	成功	2024-05-21 23:04:40	2024-05-21 23:04:40	<input type="button" value=""/>
c0a8006f8f9baeda018f9baeda1a0056	████████	████████	████████	全量同步	1	1	成功	2024-05-21 23:04:39	2024-05-21 23:04:39	<input type="button" value=""/>
c0a8006f8f9baed4018f9baed4090055	████████	████████	████████	全量同步	1	1	成功	2024-05-21 23:04:37	2024-05-21 23:04:37	<input type="button" value=""/>
c0a8006f8f9baecd018f9baecdf0054	████████	████████	████████	全量同步	1	1	成功	2024-05-21 23:04:36	2024-05-21 23:04:36	<input type="button" value=""/>
c0a8006f8f9baec7018f9baec7e80053	████████	████████	████████	全量同步	1	1	成功	2024-05-21 23:04:34	2024-05-21 23:04:34	<input type="button" value=""/>
c0a8006f8f9baec1018f9baec1b30052	████████	████████	████████	全量同步	37	1	成功	2024-05-21 23:04:32	2024-05-21 23:04:32	<input type="button" value=""/>

共 100 条 10条/页 < 1 2 3 4 5 6 ... 10 > 前往 2 页

Success Stories

The screenshot shows a data management interface with a sidebar on the left containing a tree view of database structures. The main area features a query editor with a SQL command and a table of results. A context menu is open over a specific table entry, with several options highlighted by red arrows:

- 打开表 (Open Table)
- 新建查询 (New Query)
- 直接 (Direct)
- 查看DDL (View DDL)
- 修改表 (Modify Table)
- 重命名 (Rename)
- 查看元数据 (View Metadata)
- 删除表 (Delete Table)
- 查看元数据 (View Metadata)
- 表大小 (Table Size)
- 分区信息 (Partition Information)

Below the table list, there is a '快速下查' (Quick Search) input field and a '新增查询界面' (New Query Interface) button. The interface includes tabs for '生产_hive' and 'data_collect_hive'.

快速查下
新增查询界面

→ 查看dll与表修改时间，访问时间

修改表信息

查看表元数据信息，表大小，分区信息等

工作流

200

卷之三

2300

136

1548

1

1

任务管理

执行器

采集助手

每页

10

条记录

任务ID	任务描述
214	采集任务 指定数据源
213	指定数据源
212	采集任务 指定表
211	采集任务 A

更新任务

基础配置

执行器*

采集助手

任务描述*

负责人*

聂利

接收人*

15386028098

调度配置

调度类型*

固定速度

固定速度*

无

固定速度

300

任务配额

固定速度

单位秒

运行模式*

BEAN

JobHandler*

pushTable.JobHandler

任务参数*

{"dsName": "rental_filling", "table": "finance_blanket,financeblanket_2_financeblanket_4_project_name_list"}

高级配置

路由策略*

第一个

子任务ID*

请输入子任务的任务ID,如存在多个则按

调度过期策略*

忽略

阻塞处理策略*

单机串行

任务超时时间*

0

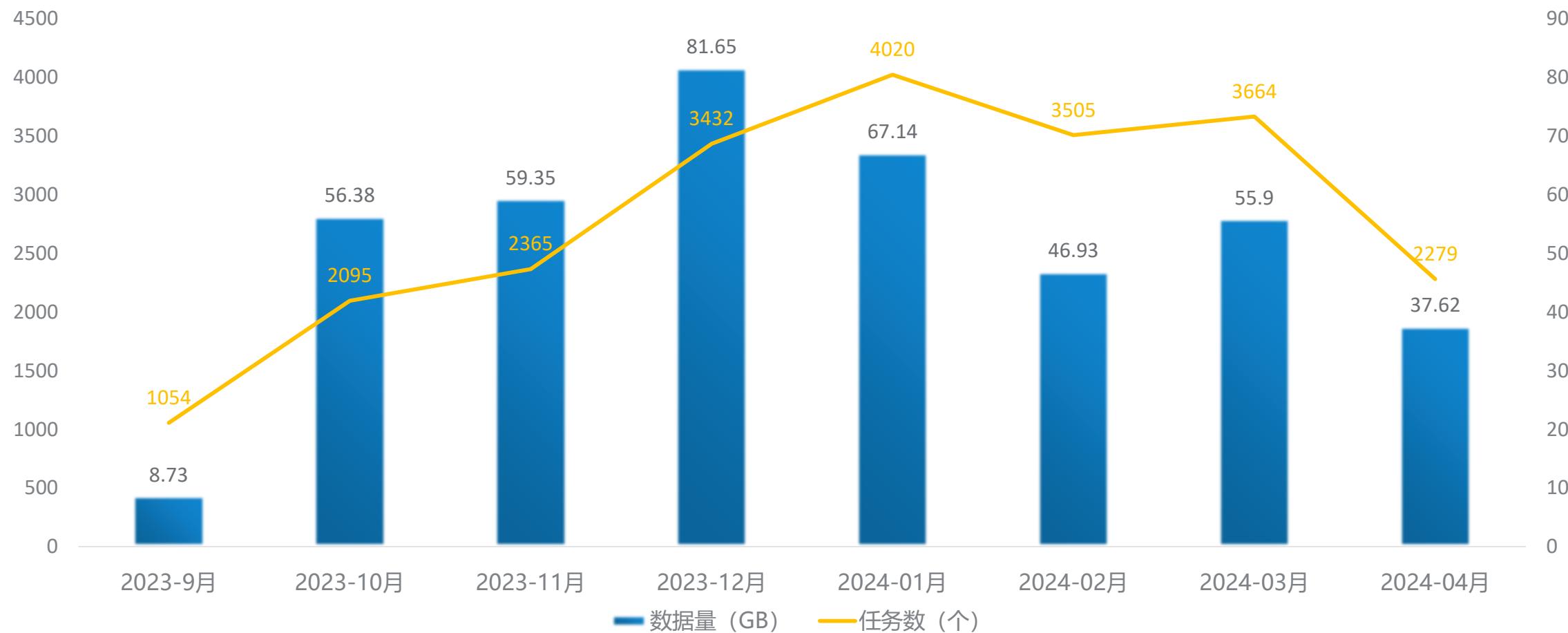
失败重试次数*

0

保存
取消

Success Stories

Post-Launch Operational Data of the Platform:





磁石科技

Thank you for your attention!

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