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Simplify Integration, Accelerate Transformation: Unlock Your Data with DataSpider

DataSpider

Data Integration Middleware

2025/9/30

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“Data is Gold”

Data is a resource as valuable as gold. When collected, managed, and analyzed properly, it transforms into a strategic asset that drives growth and innovation.

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“Data integration isn’t just about connecting systems. It also includes connecting insights , opportunities and actions.”

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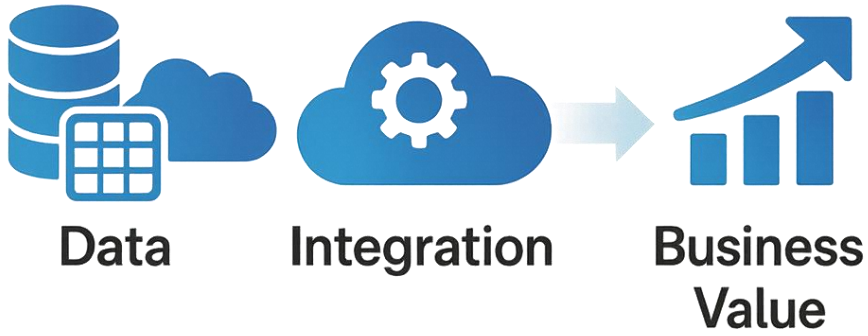
What is Data Integration?

- Data integration is the process of combining data from different sources into a unified, consistent, and accessible format to provide a complete view of information across an organization.
- Extracting data from various systems (e.g., ERP, CRM, machines, IoT, spreadsheets)
- Transforming it into a common structure or format
- Loading into a central system (e.g., datawarehouse, data lake, or real-time dashboard)



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Why Industries Need Data Integration?

- **Break Down Silos** : Connect data across ERP, CRM, IoT, Cloud, and legacy systems into one unified view.
- **Enable Real-Time Decisions** : Access accurate, up-to-date data to drive faster, smarter business decisions.
- **Boost Efficiency & Reduce Costs** : Automate data flows, eliminate duplication, and reduce manual processing.
- **Drive Innovation Across Industries :**
  - 🏭 **Manufacturing:** Predictive maintenance, supply chain optimization
  - 🏥 **Healthcare:** Patient-centric insights, improved care delivery
  - 🏦 **Financial Services:** Fraud detection, personalized products
  - 🛒 **Retail & E-commerce:** Customer analytics, dynamic marketing

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Challenge of Data Integration

Data Silos
Information scattered across Modern and legacy systems makes it difficult to gain a unified view

High Complexity
Traditional integration requires heavy coding, long project timelines, and expensive maintenance.

Inconsistent
Duplicated, outdated, or incomplete data creates inaccuracies and undermines trust in analytics.

Real-Time
Delays in data synchronization prevent timely decisions and reduce agility.

Scalability
Existing integration methods often struggle to keep up with business growth and new technologies.

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DataSpider Servista

Overview & Use Cases

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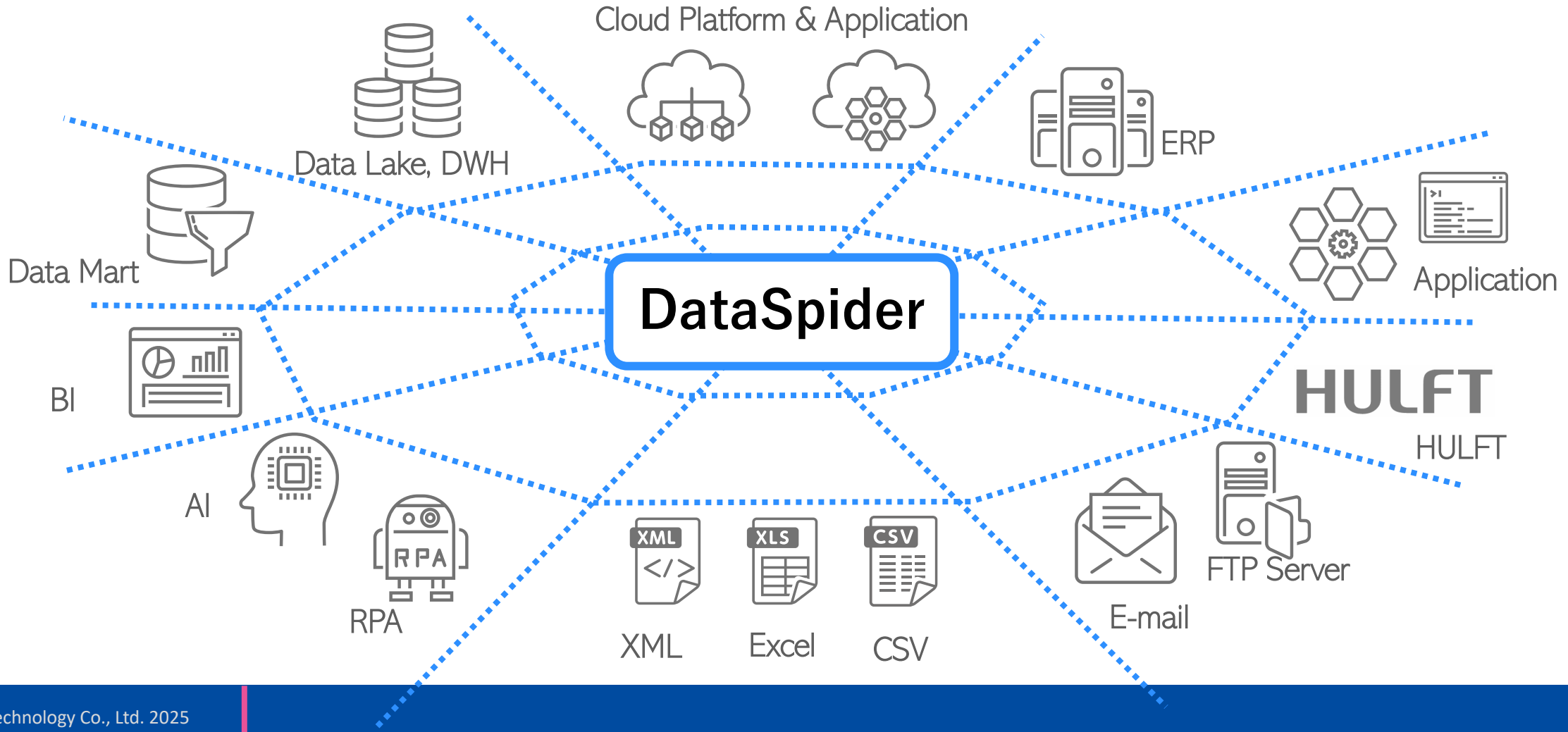
System Integration, Data Conversion and System Automation without programming



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DataSpider

No Programming Skill Required

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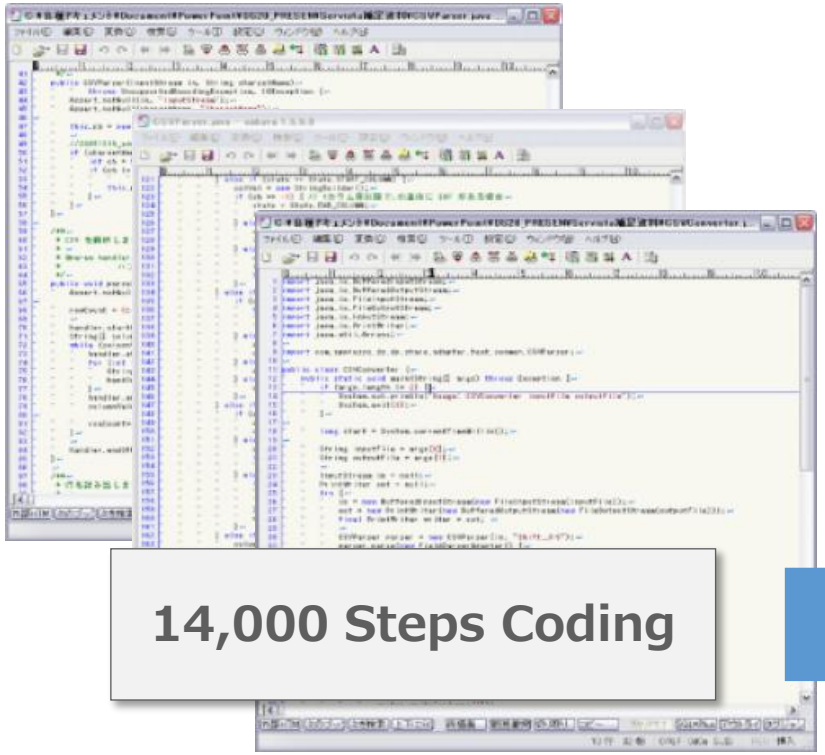
Intuitive Development by Drag & Drop／Non-Programming

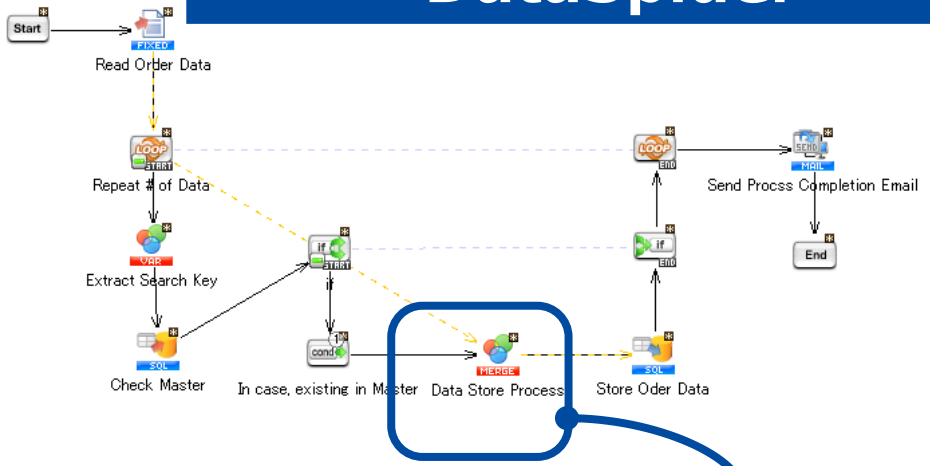
Example: Receive fixed-length order files, match with product master DB, save them in SQL server, and then send completion reports by email

Java scratch Coding

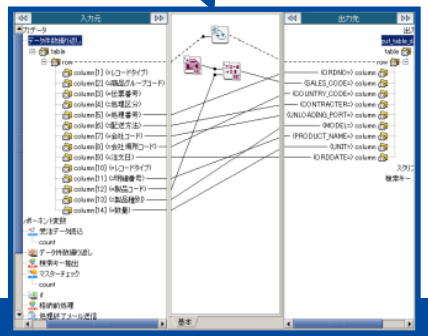


14,000 Steps Coding

Development with DataSpider



Only 13 icons



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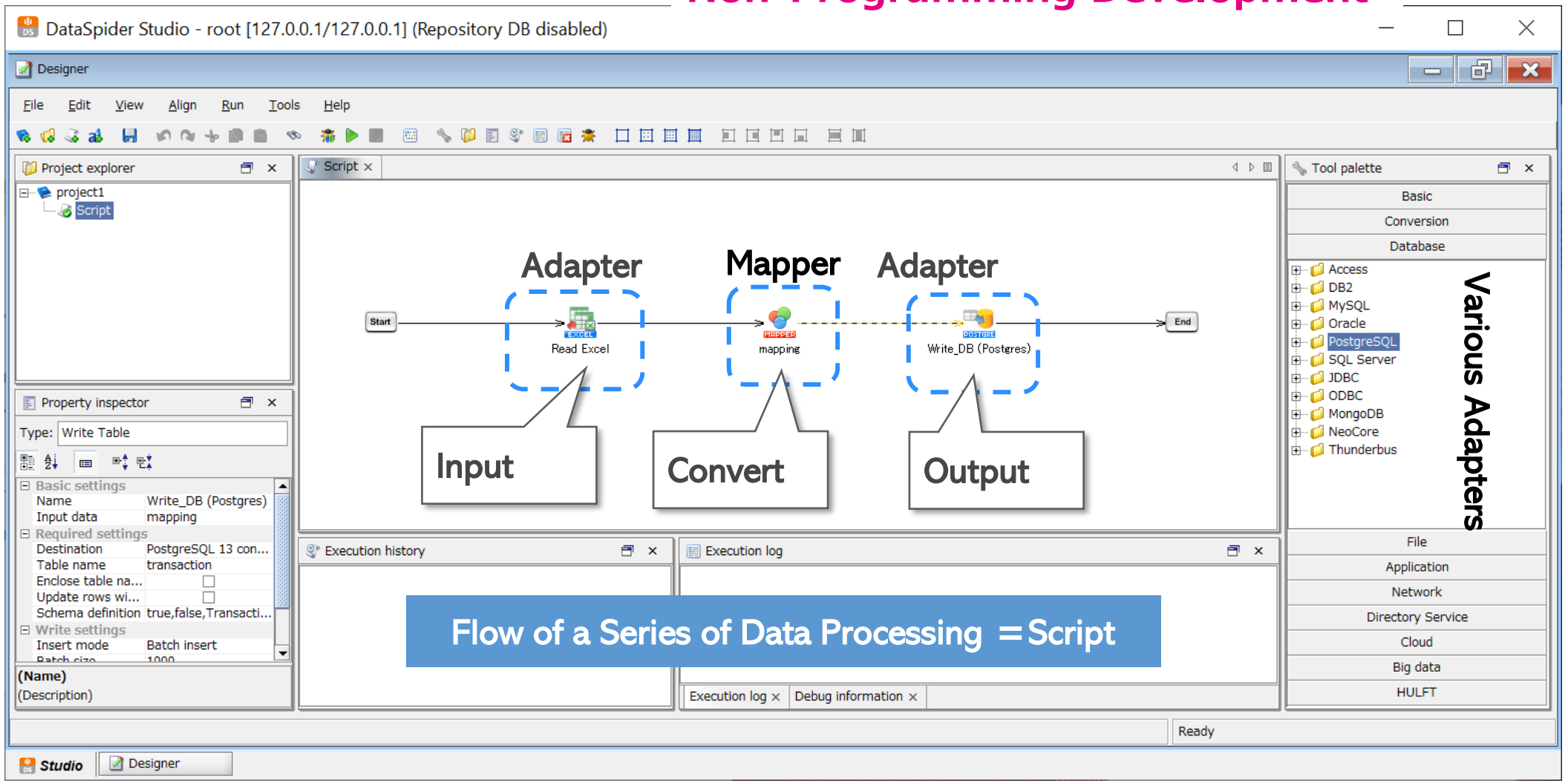
DataSpider GUI of DataSpider and Development Image

DataSpider Studio

Easy, Simple and Efficient
Non-Programming Development



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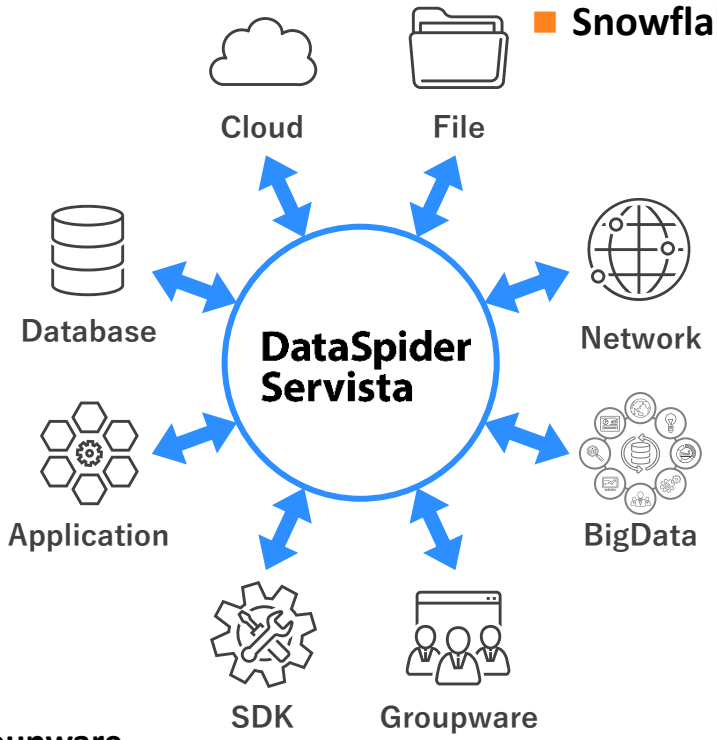
DataSpider provides over 40 adapters

DataSpider ensures easy connections with various data sources

Database
- Access
- DB2
- DB2 for i
- MySQL
- Oracle
- PostgreSQL
- SQL Server
- JDBC
- NeoCore
- Shunsaku

Application
- SAP
  - SAP
  - SAP Table Query
- Dynamics 365 for Customer Engagement
- Tableau
- Dr.Sum EA
- Sedue
- SVF (Super Visual Formade)
- DataRobot
- HULFT

Cloud
- Amazon Web Services
- Microsoft Azure
- G Suite (Gmail, Drive, Sheet)
- Google Cloud Platform
- kintone
- Box
- **Snowflake**



Groupware
- IBM Domino
- IBM Notes

Big Data
- Apache Hadoop

File
- CSV
- Excel
- HTML
- XML
- Fixed format of text
- Variable format of text
- File operation
- FileSystem(Base64)

Network
- FTP
- JMS
- Web
- WebServices
- Mail (POP/IMAP4/SMTP)
- REST

Directory Service
- Active Directory

SDK
- Java based SDK

(Software Development Kit)

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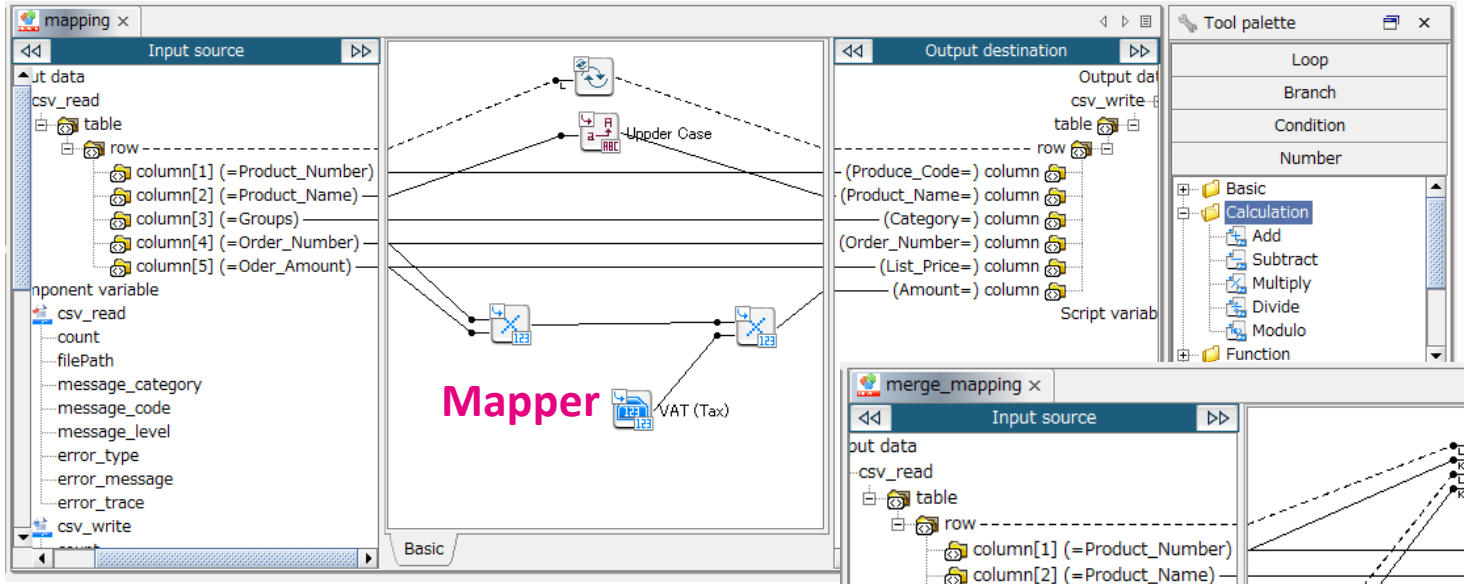
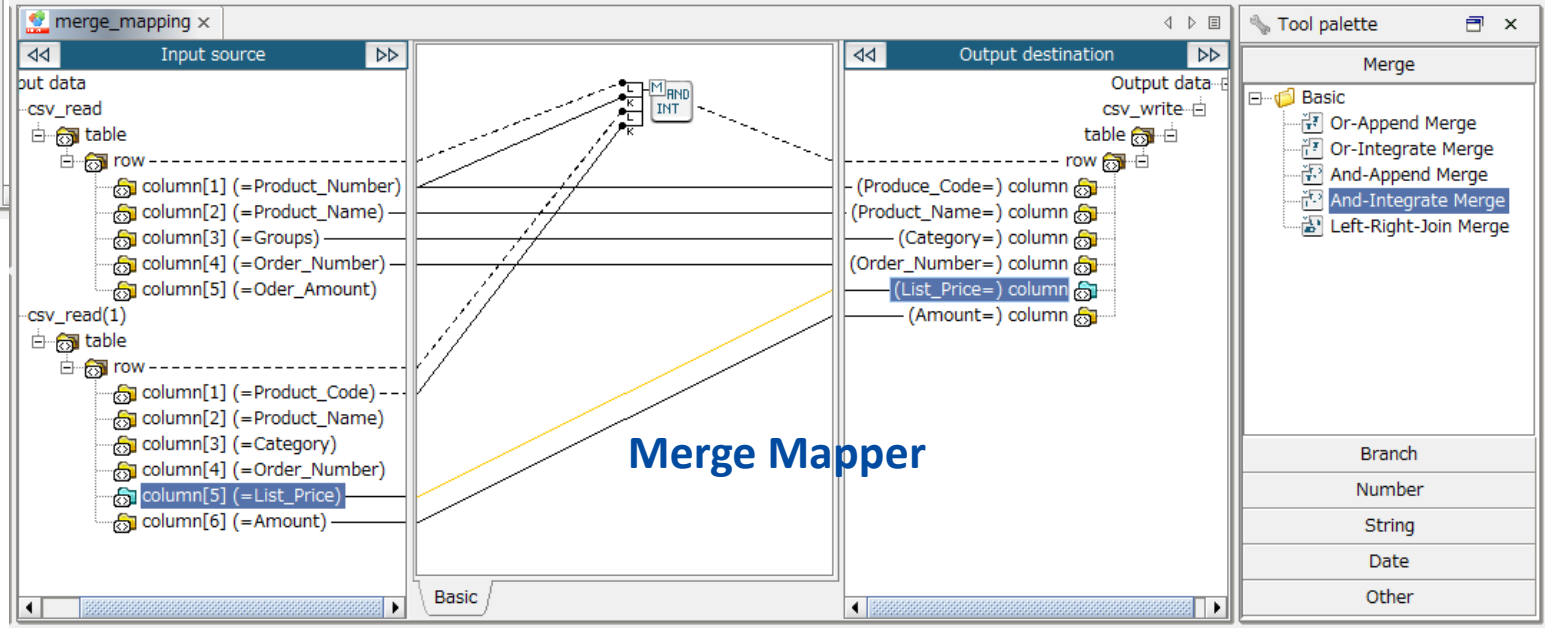
DataSpider Features “Mapper”

Convert an input data to an expected output format by “Mapper”





Visual Data Conversion

- Process
- Cleansing
- Calculation
- Merge
- Sort

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DataSpider DataSpider Triggers (=Automation)

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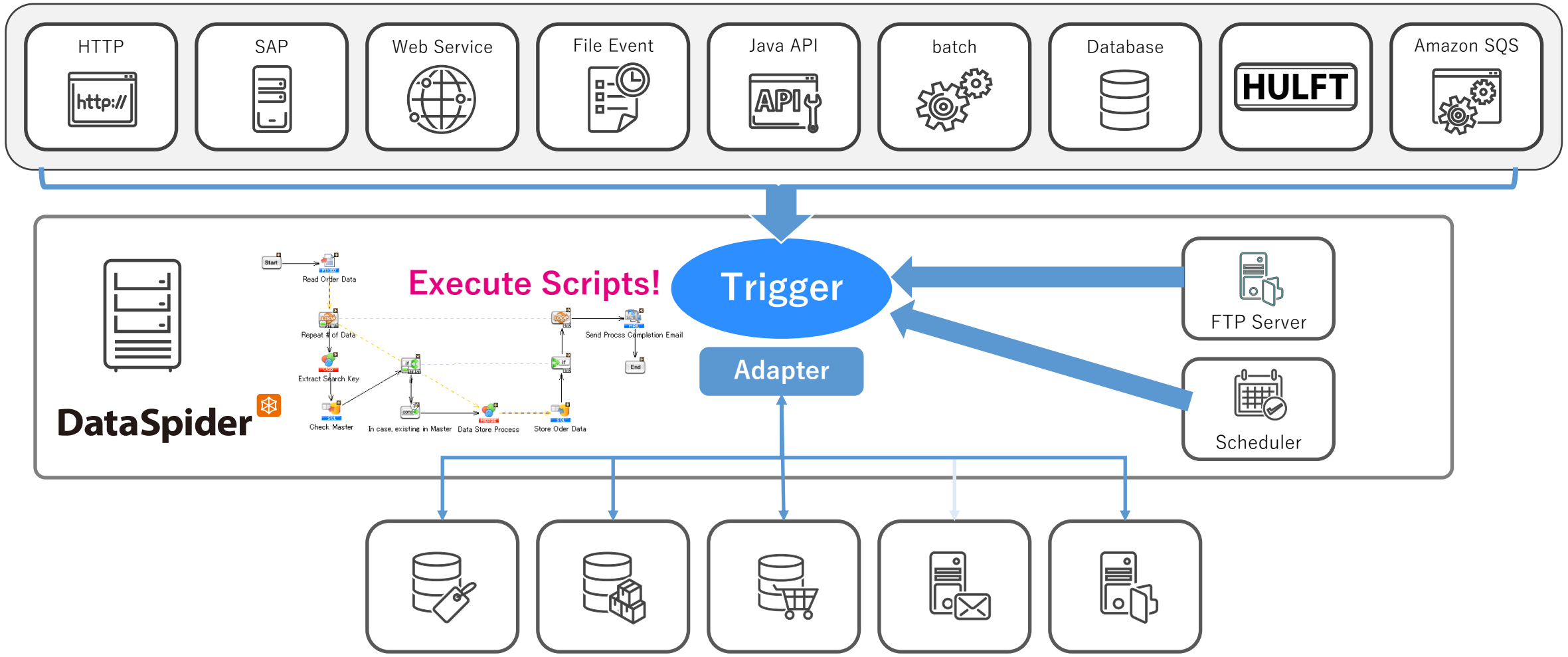
The process flows (=scripts) are automatically executed by various triggers.



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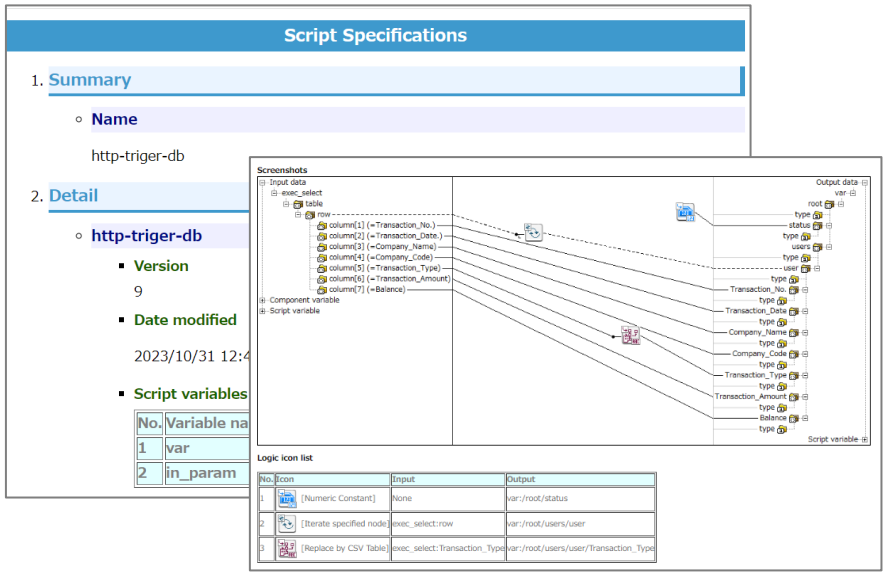
Users can output specification documents for the created processes by a single click

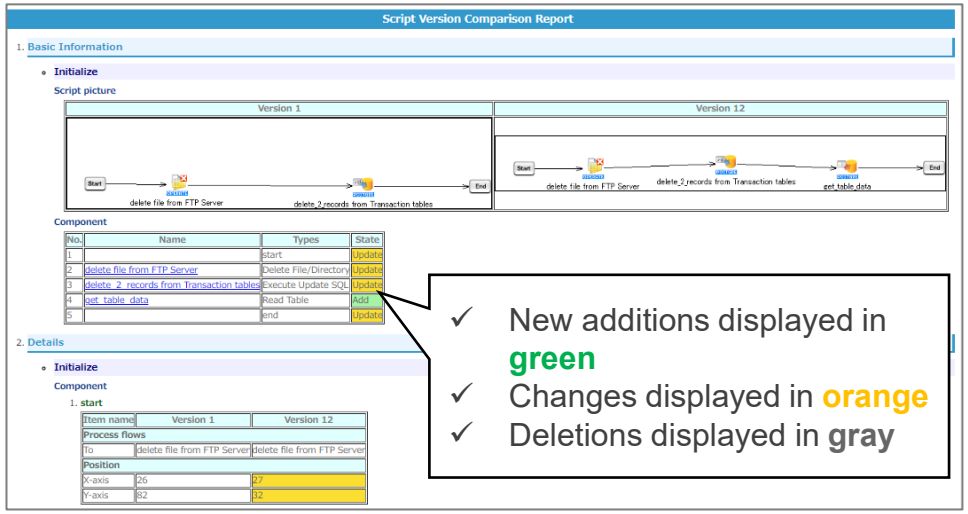
Possible to output specification documents in HTML format

- ✓ The documents can be used as deliverables from development, information materials of settings for maintenance, and handover documents
- ✓ Users can output a report that compares two different versions of processes and allows users to check the differences between them

Specification Document



Version Comparison Report



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Issues and Solutions for System and Data Integration in ASEAN over the next 3 years

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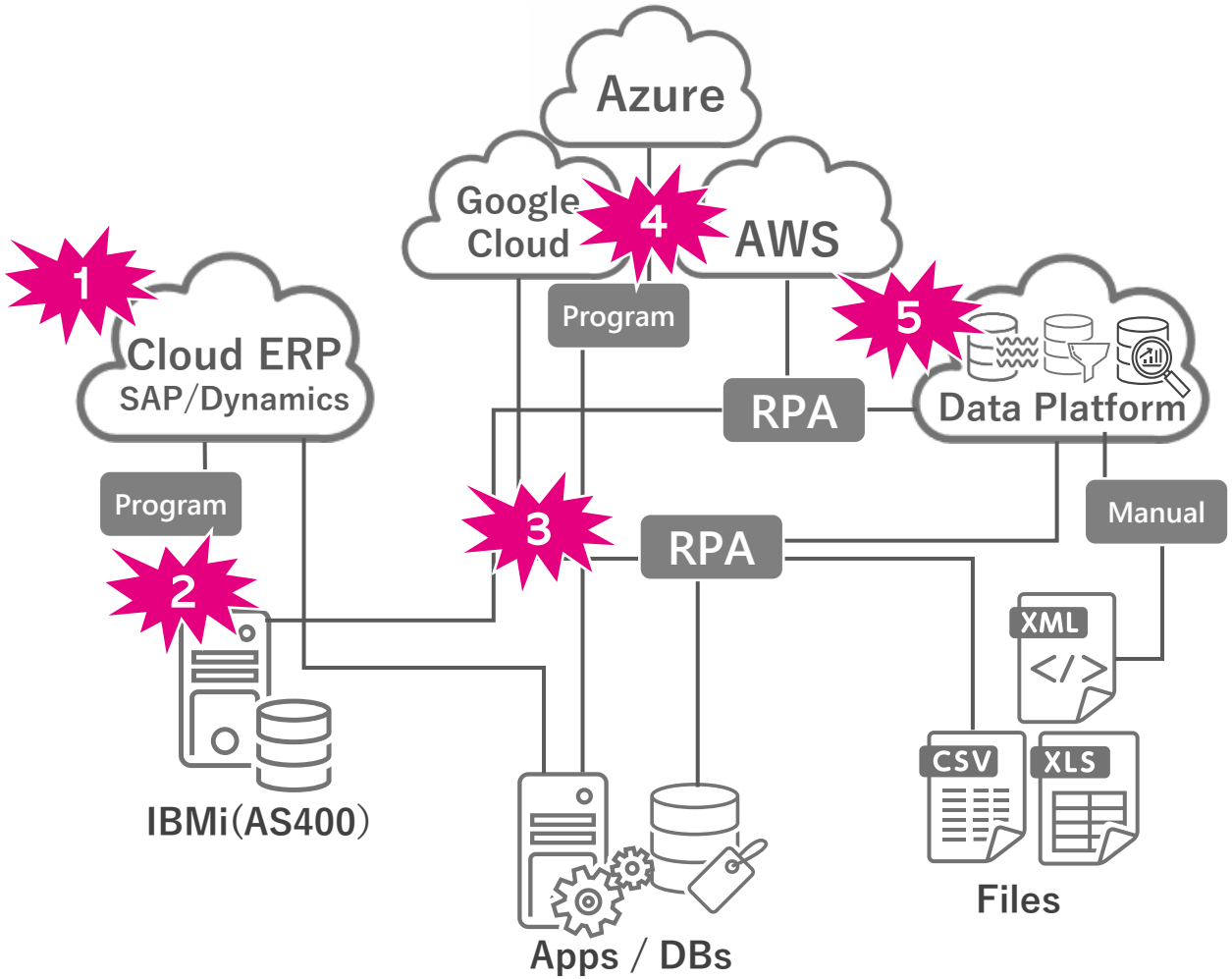
Issues for system and data integration in ASEAN over the next 3 years



1 **Difficult to integrate Cloud ERP and sub-systems**
Integration to SAP HANA and Dynamics requires knowledge and experience

2 **No IBMi engineer available to get data**
Lack of engineers makes it difficult to migrate from IBMi to other systems and utilize data

3 **Struggle with System Integration with RPA**
System integration & data conversion is difficult with RPA. Also, the performance is not as expected.

4 **Hard to connect between On-premise and Cloud**
System is being migrated to the cloud, but it is difficult to operate in coordination with on-premise systems.

5 **Scattered data & mixed format for Data Utilization**
DataPlatform construction is difficult due to scattered data and disparate data formats.

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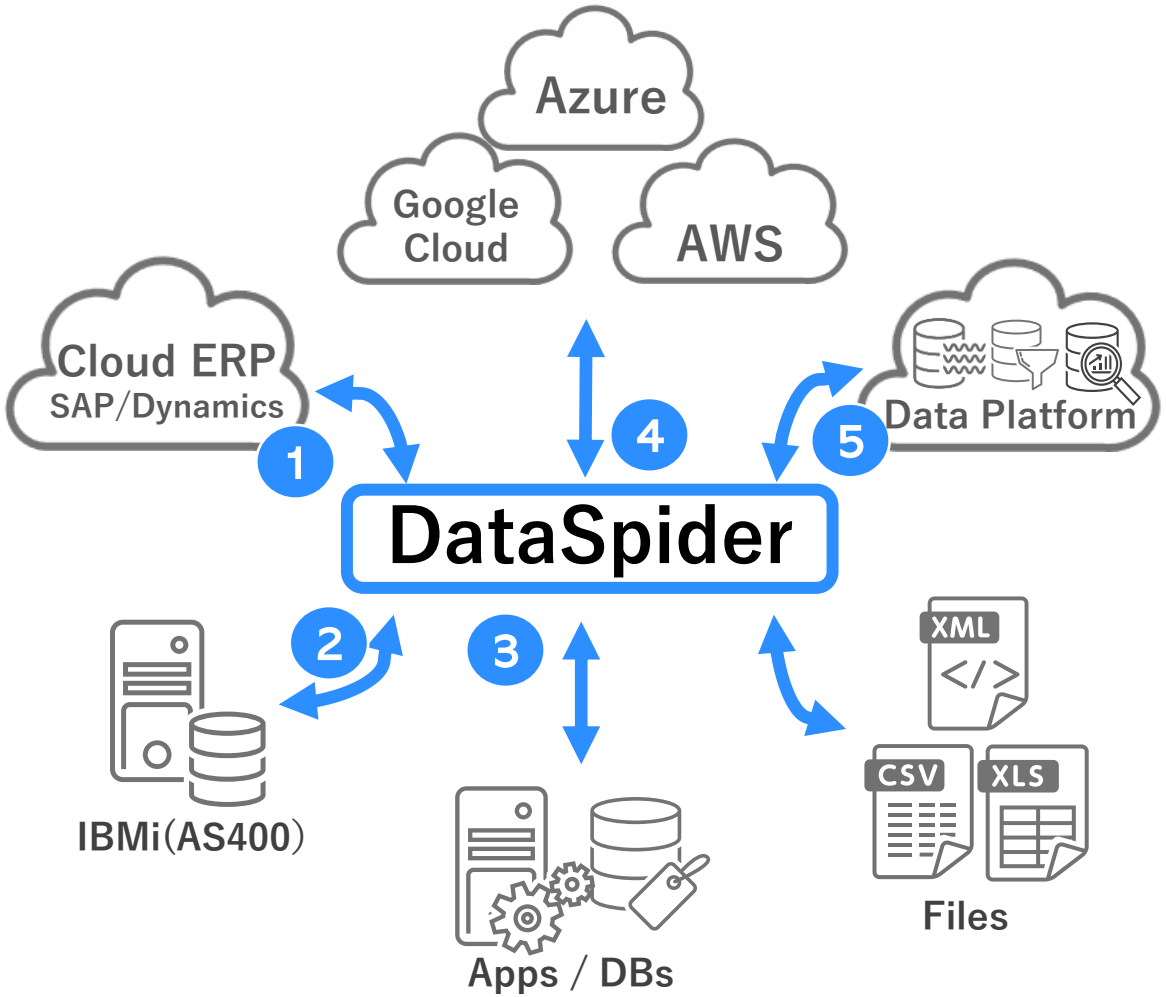
Solutions for system and data integration in ASEAN over the next 3 years



1 Easy and reliable integration with cloud ERP

Non-programming integration with cloud ERP using SAP adapters and REST adapters

2 Simple connection to IBMi without knowledge

DataSpider has a dedicated date read and write adapter for IBMi without using any computer language

3 Dedicated tools for system integration &automation

RPA is good at automating human operations, not SYSTEM.
DataSpider is good at SYSTEM Integration & automation

4 Flexible integration between on-premise and cloud

Wide range of dedicated adapters for Azure, AWS, Google Cloud and many on-premise systems.

5 Build Data Analysis / Utilization Platform easily

Develop data collection, data cleansing, and data storage without programming, and execute automatic operation.

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1 Easy and reliable integration with cloud ERP

Non-programmable MS Dynamics & SAP S/4 HANA System Integration

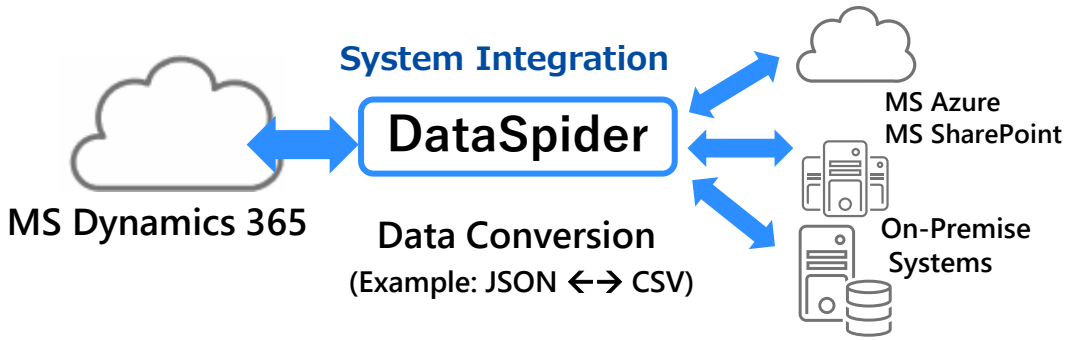
MS Dynamics 365 Integration
(MS Dynamics 365 & Sub-System)

Issues

- Difficulties in integrating Dynamics and on-premise systems.
- Large efforts required to develop data conversion

Solution

- Non-programming Dynamics system integration and data Conversion using DataSpider.



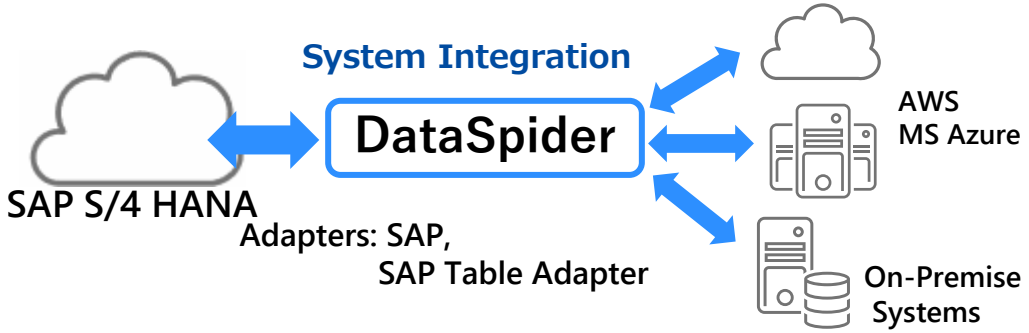
SAP S/4 HANA Integration
(SAP S/4 HANA & Sub-System)

Issues

- Add-ons are difficult to modify for SAP renewal
- ABAP engineers to develop add-ons are expensive, development costs soar.

Solution

- Only the standard BAPI interface is used, while the integration with subsystems is developed and operated by DataSpider.



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1 Customer Case

No more SAP Add-on for SAP HANA system integration with Sub-Systems

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Significant development and operating costs are reduced by using DataSpider to achieve other system integration using only standard SAP modules.

Customer Issues

❶ Bloated costs and man-hours due to SAP add-on development

❷ Need for use data governance and utilization with DX in mind

❸ Need for a basic infrastructure to support global management

Effects of DataSpider

❶ Cost reduction by SAP standard modules

❷ Data HUB construction and standardization formulation

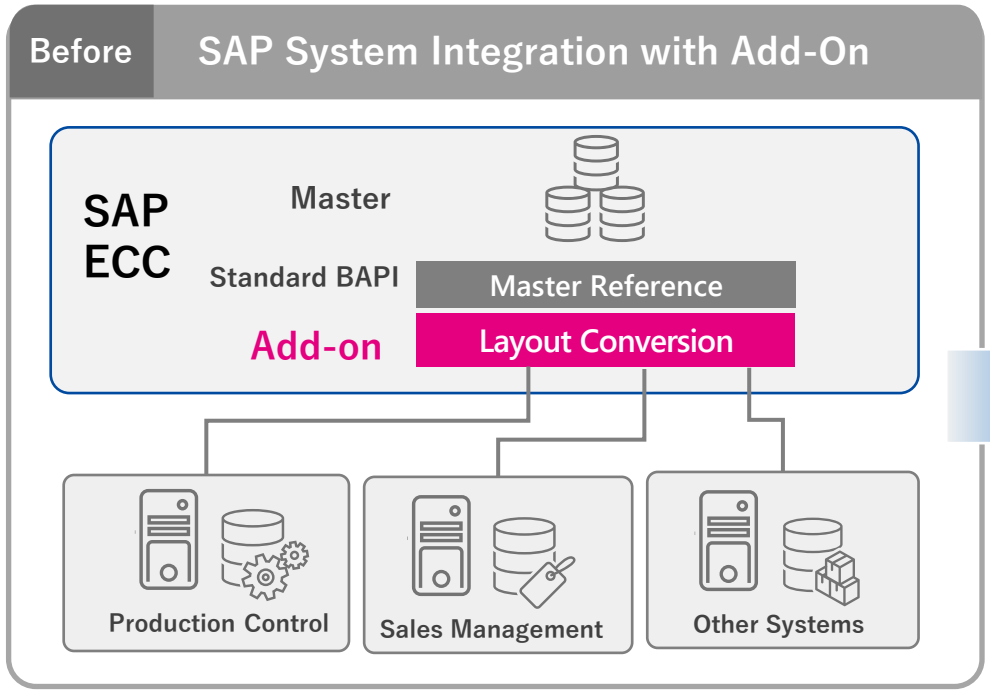
❸ Ensure ease of integration with non-programing technology

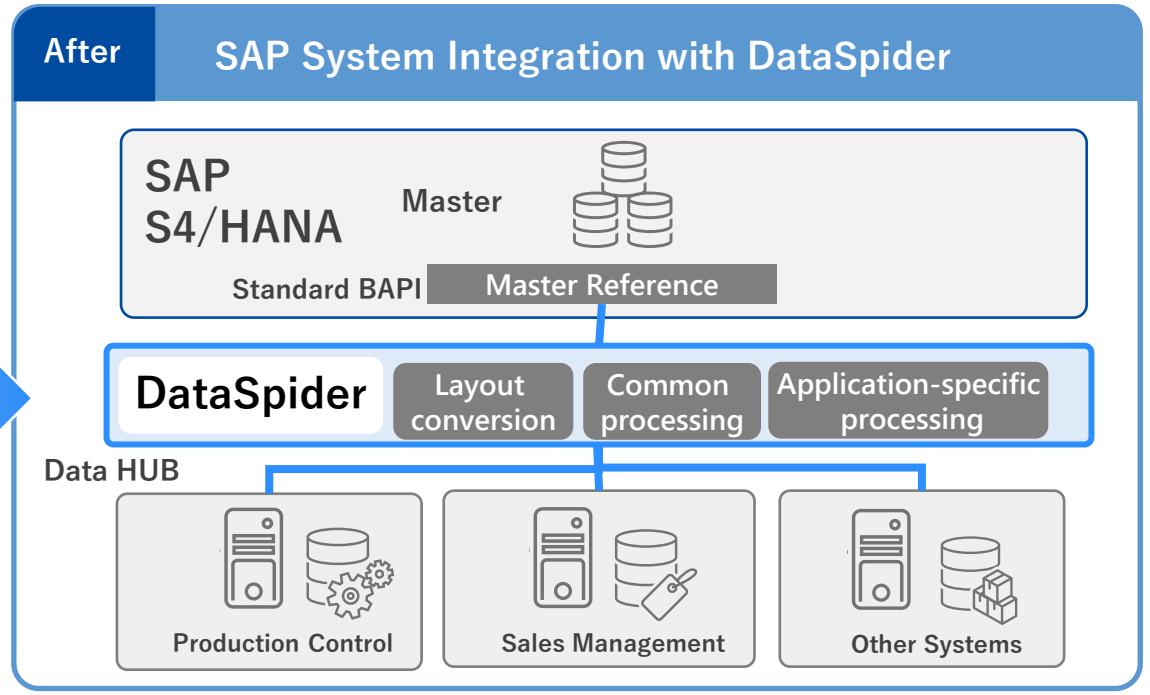
POINT

❶ Improvement of development productivity and maintenance

❷ Universalization and commonality of interfaces

❸ Overall optimization including group companies





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❷ Simple connection to IBMi without knowledge

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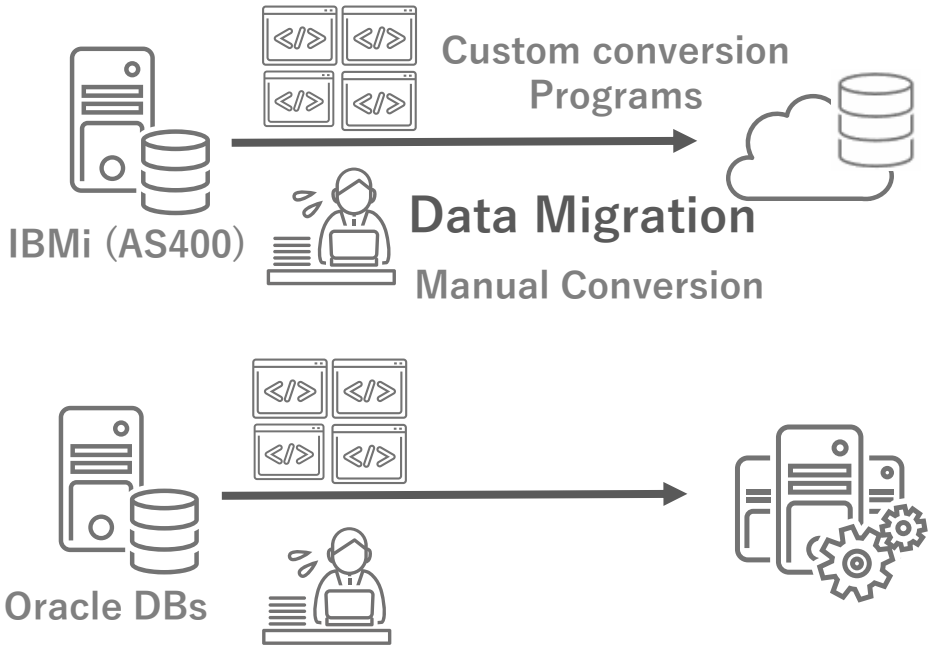
You can easily read and write data form legacy systems for migrations

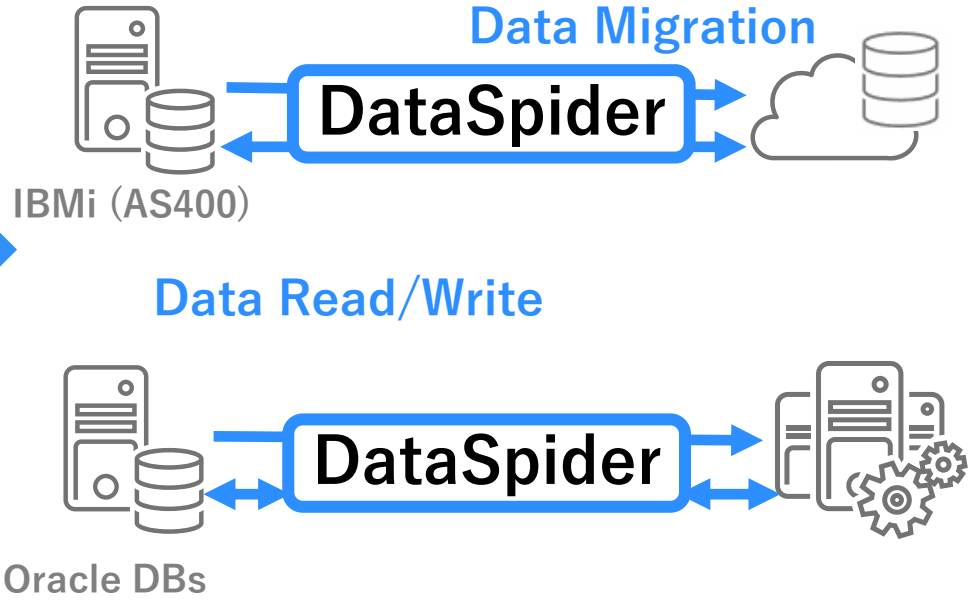
Before — Scratch & Manual Migration

Migration Program Developed by scratch, even it would be used for a short term



After — Data Migration with DataSpider

With adapters and mapper functions, no-programming required for Data migration and parallel operations



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Integrate Legacy IBMi System and Kintone(Cloud Applications)

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Modernize the legacy IBMi (AS/400) system to develop a platform with capabilities to rapidly adapt to business needs

Customer Issues

❶ Difficulty in maintaining and adjusting 30 years old core system

❷ Heavy manual workload due to various Excel based systems created by each workplace.

Effects of DataSpider

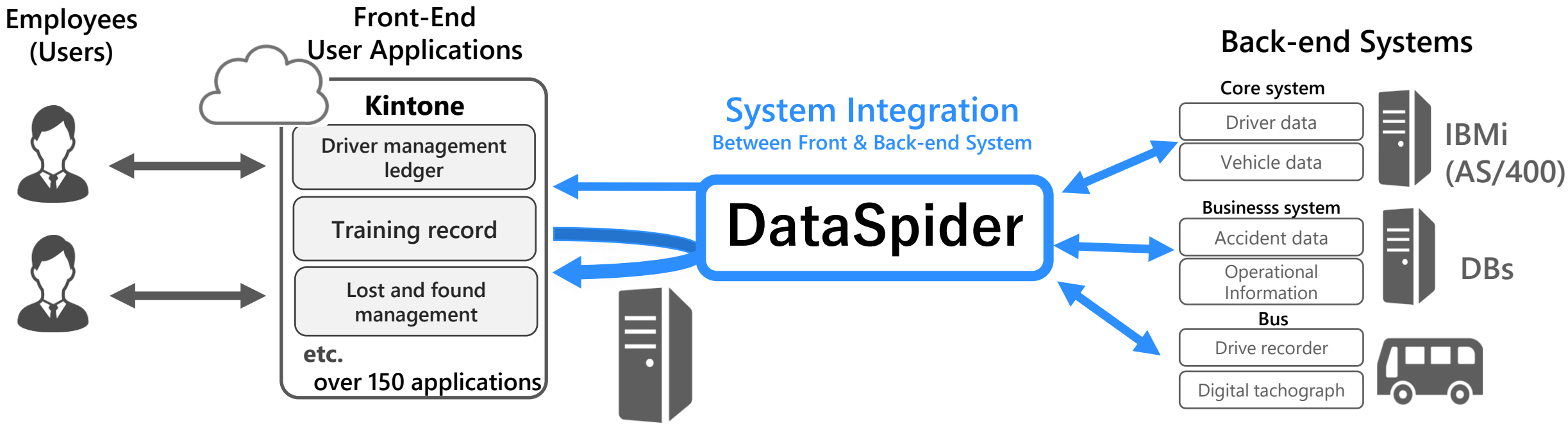
❶ Easier integration between back-end systems and front-end systems

❷ Automation of data integration that was previously done manually

POINT

❶ Easily utilize data stored in legacy system systems for front-end applications

❷ Automate manual work, reduce maintenance workload by 1/10.



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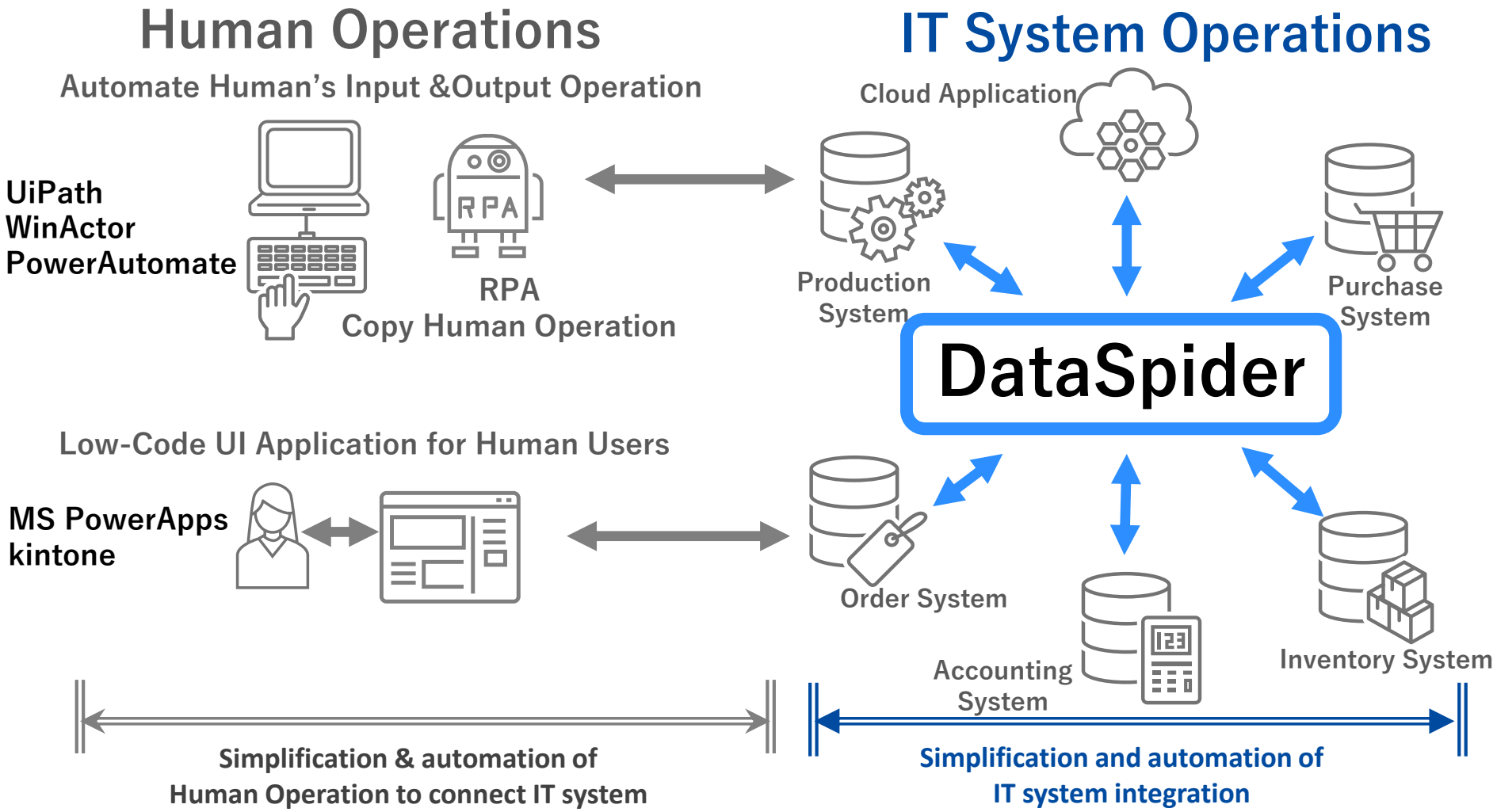
❸ Dedicated tools for system integration &automation

DataSpider is Specialized in Integration & Automation for IT systems



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3 Customer case

DataSpider solves issues of system integration, which is difficult for RPA

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DataSpider System integration platform with SAP HANA, IBMi, and other systems

Issues

❶ System integration between SAP HANA and existing legacy systems is required.

❷ Started development using RPA but encountered various challenges

Steps

❶ Session to understand differences between DataSpider & RPA

❷ Conducted POC for verification in customer environment

❸ Hands-on training in Thai and

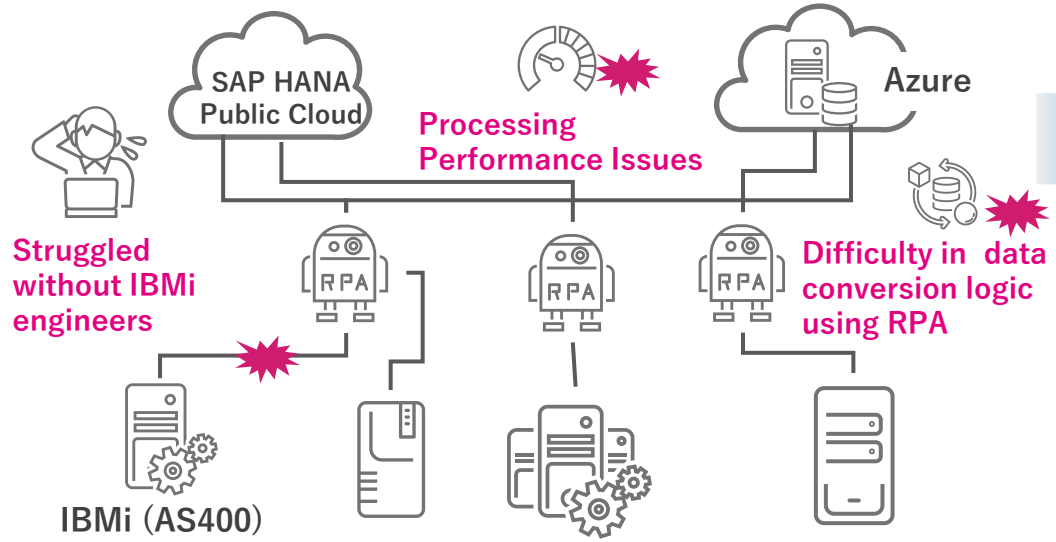
Point

❶ Clarification of the scope of application of DataSpider and RPA

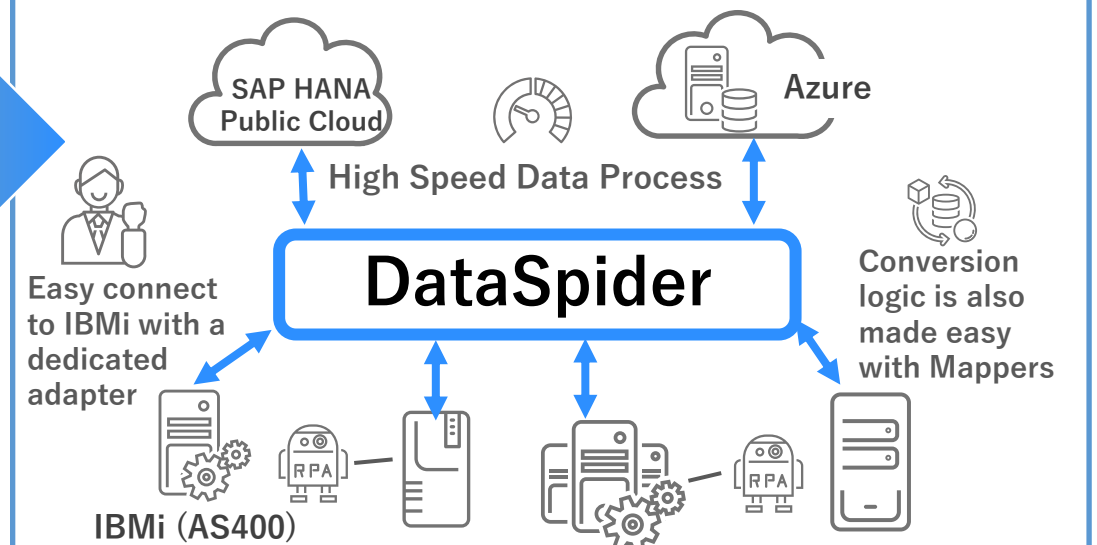
❷ Integration systems with No code

❸ System integration between SAP HANA, legacy systems, and the cloud

Before Development of System Integration Automation using RPA is a series of difficulties



After Consolidation of SAP HANA and legacy systems integration into DataSpider



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4 Flexible integration between on-premise and cloud

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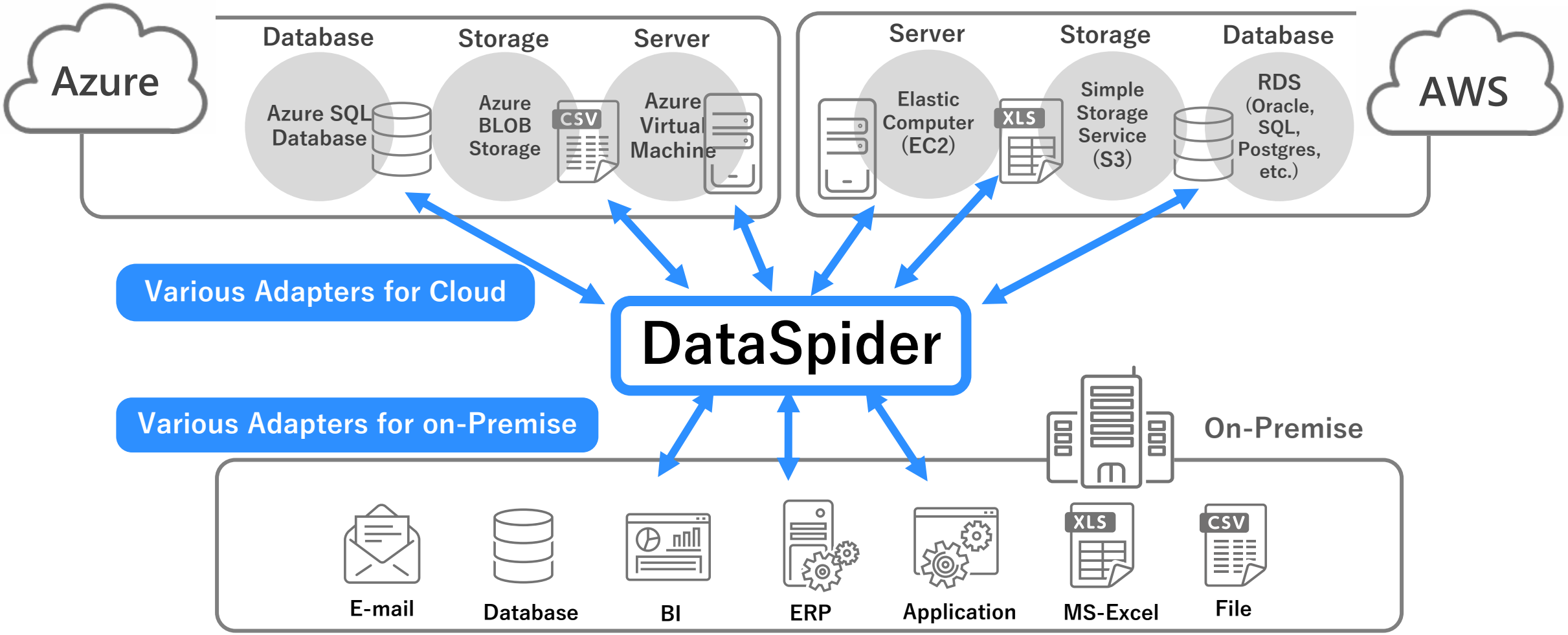
Specialized Adapters available for many Cloud and On-premise Systems



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Data integration between on-premises and cloud

DataSpider

Easy integration and operation with the cloud using a wide range of adapters

Issues

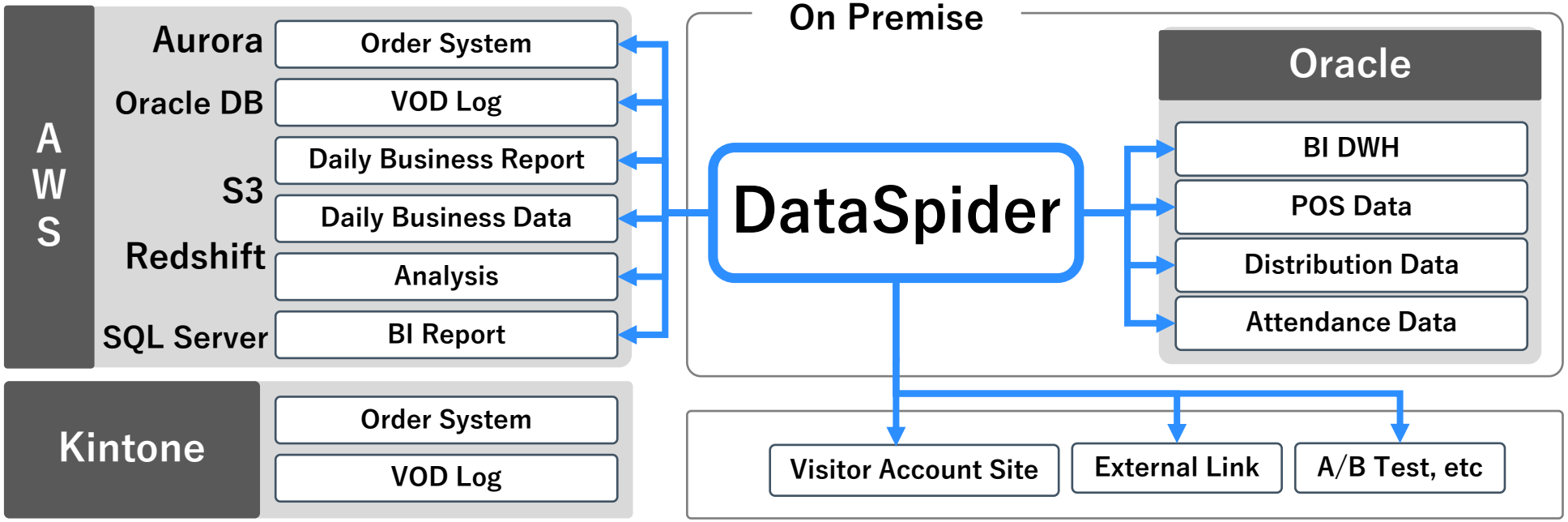
❶Systems are scattered across on-premises and cloud, and the amount of data is increasing.
❷ Development and operation are performed manually, and different tools are used for each system.

Effects of DataSpider

❶ Enable data integration between cloud and on-premise systems by leveraging a wide range of adapters
❷ Standardize data integration development work with DataSpider

Point

❶ Quickly responding to the management mission of “strategic data utilization”
❷Improved development productivity and maintainability



- ✓ Realized Strategic Data Utilization
- ✓ Integrated on-remise and cloud systems seamlessly
- ✓ More than 2 times Improved Dev. productivity & maintainability

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5 Build Data Analysis platform easily without programming

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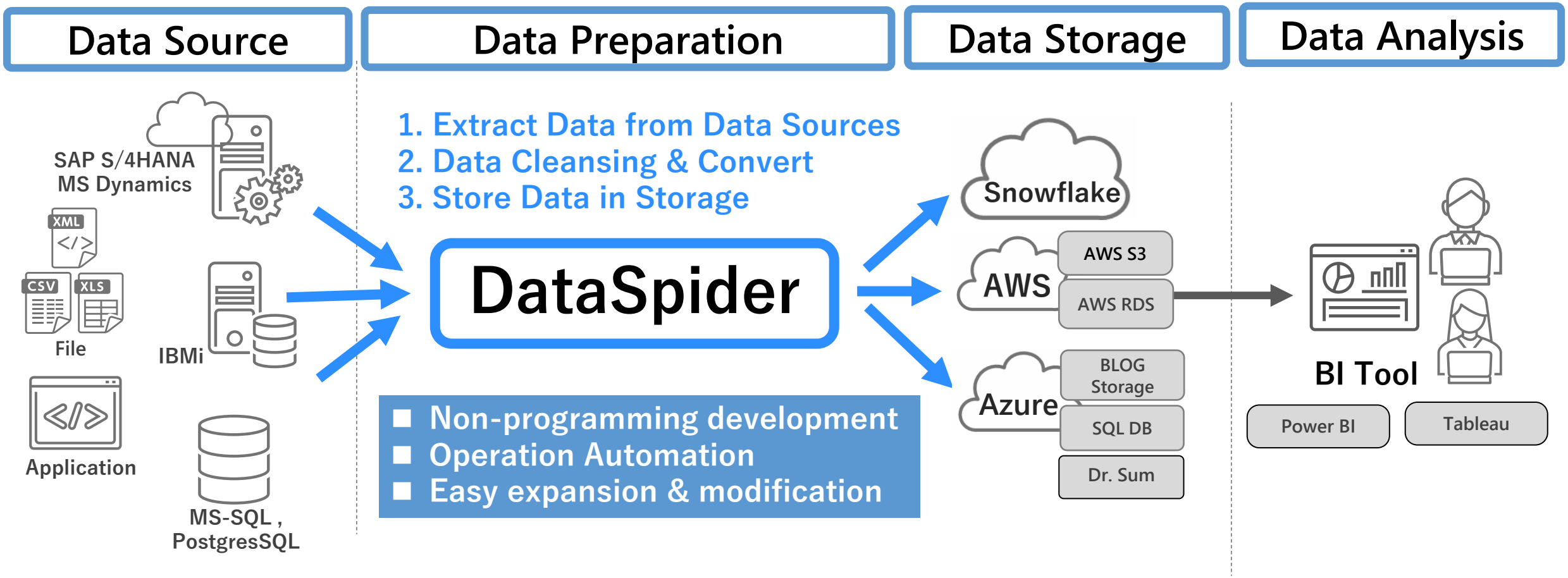
Automate data collection, conversion, and aggregation effortlessly



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5 Support Data Utilization at Manufacturing Factories

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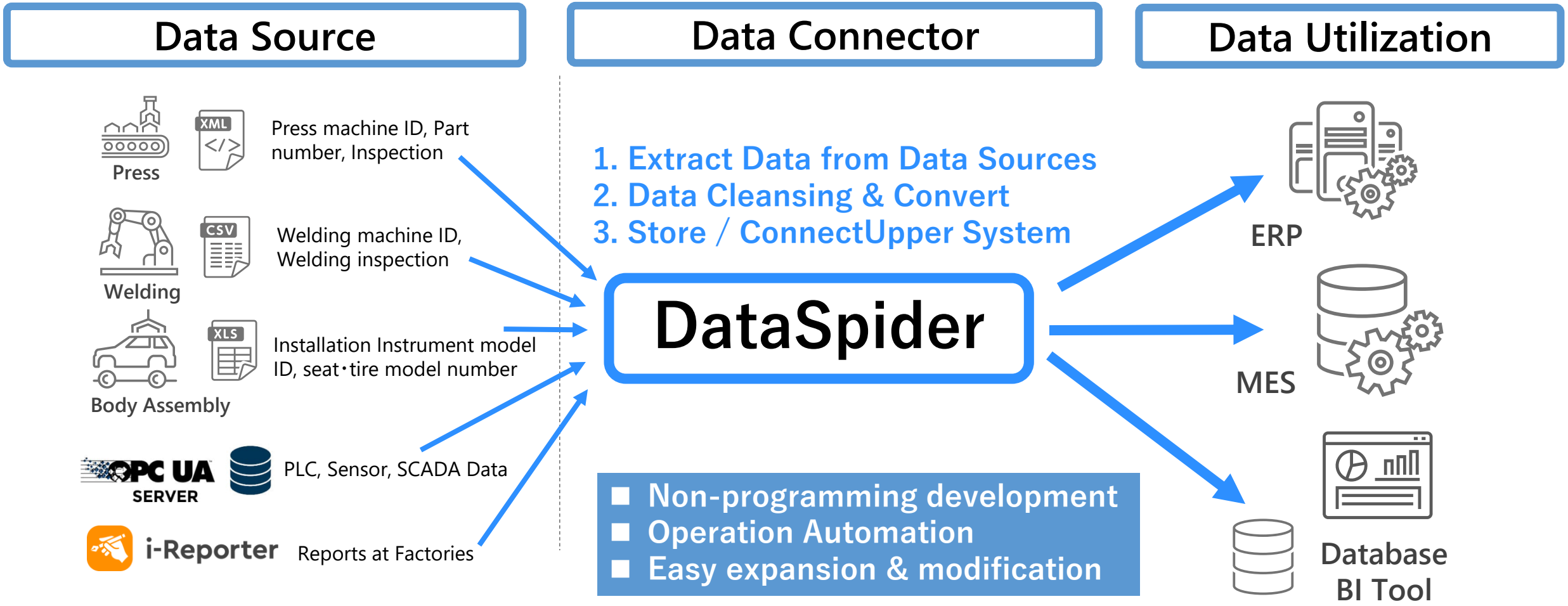
Supporting the utilization of data at factory sites without programming



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5 Customer Case

Data Analytics Platform to enable data-driven decision-making

DataSpider

Automated data visualization and analysis enable operational efficiency and rapid management decision-making.

Issues

❶Data was scattered across systems
❷Manual data collection and report creation
❸Management decisions were based on outdated & error contained reports

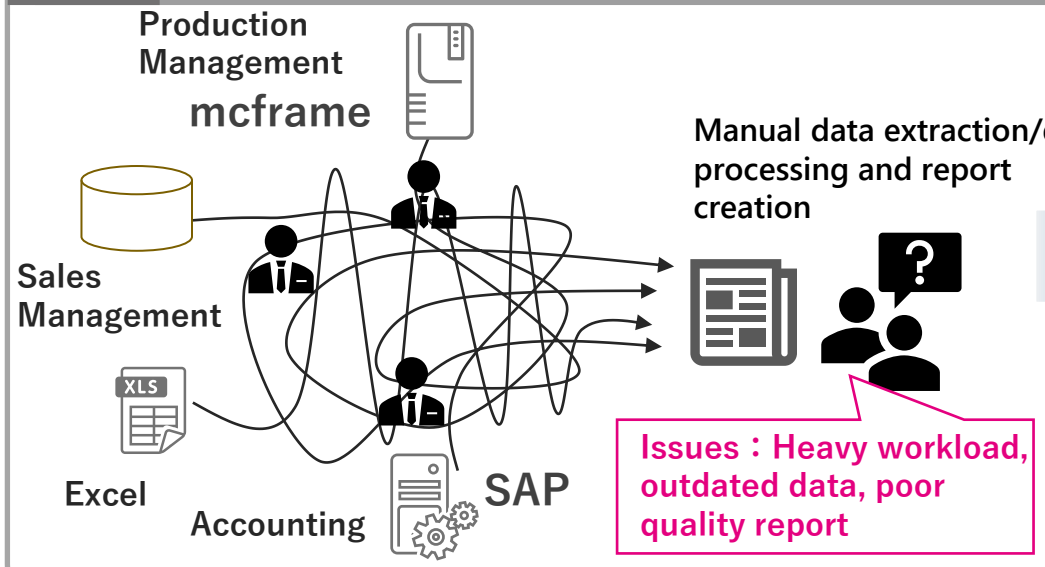
Effects of DataSpider

❶ Collect, convert, and store scattered data with No-coding
❷ Automatically generate reports
❸ Managers make decisions quickly based on error-free, up-to-date data

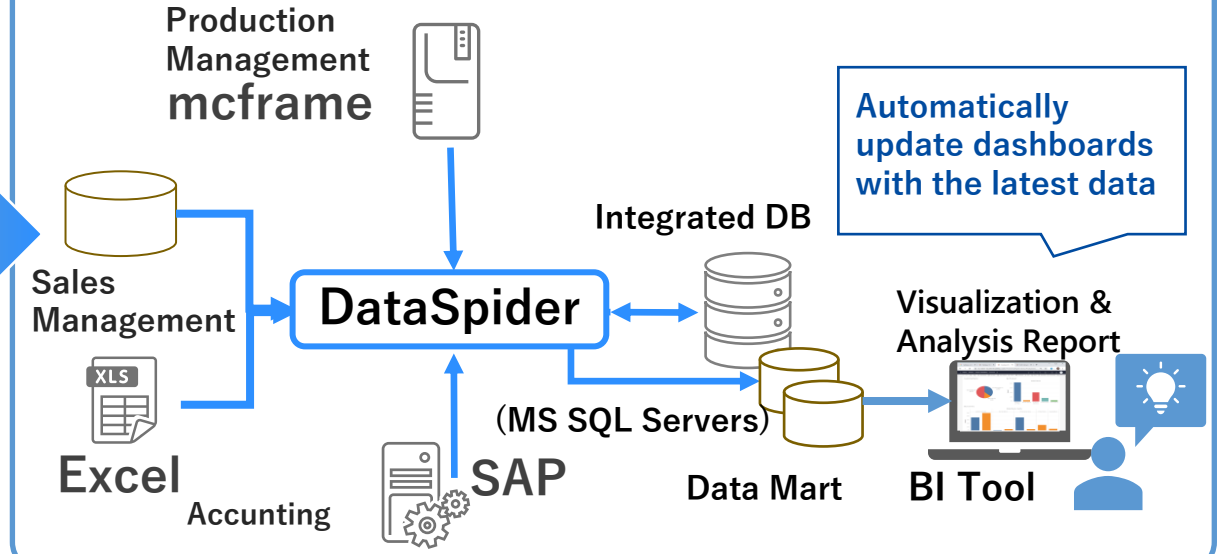
Point

❶ Significant reduction in report creation and analysis workloads
❷ Use the latest, accurate reports for management decision-making
❸ Easy maintenance for modifications

Before Manual Data Extraction and Report Creation



After Data visualization and automatic report creation



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