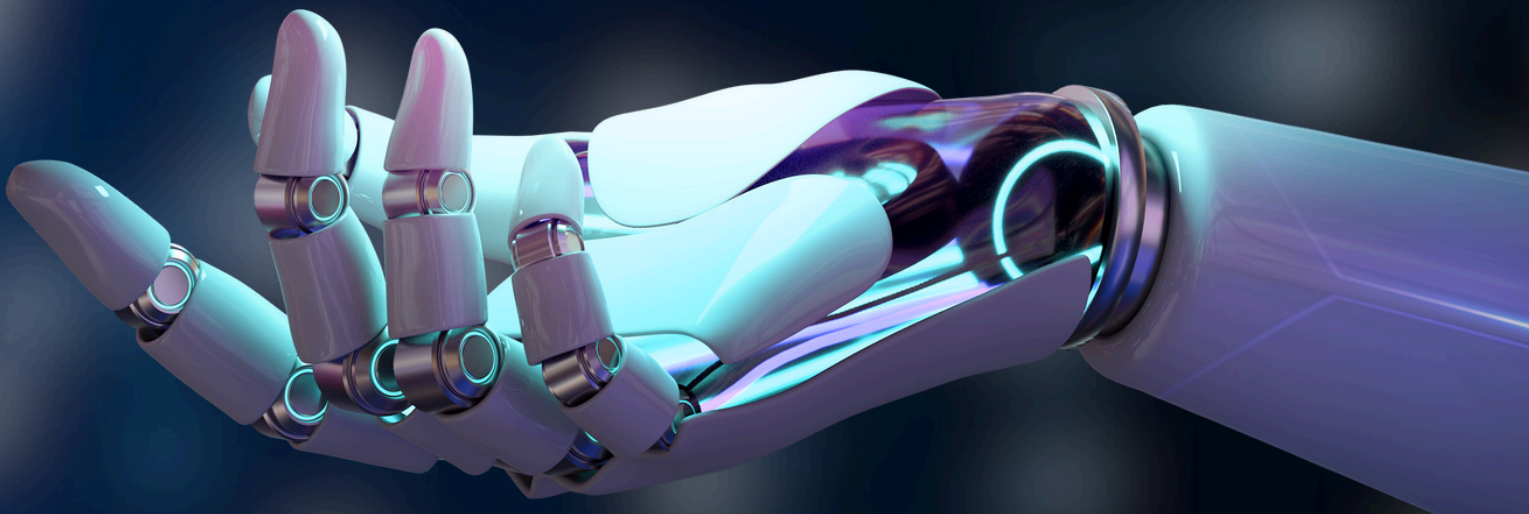




**OVERVIEW**

# **DATA PLATFORM**

[WWW.PROMES.CO.TH](http://WWW.PROMES.CO.TH)



# WE ARE TECHNOLOGY SOLUTION FOR ENTERPRISE



We're a cutting-edge research organization focused on advancing artificial intelligence, machine learning and Data analytic in a way that benefits society as a whole. Our mission is to develop and promote friendly AI, NLP and Data Insight that is safe and beneficial for Thailand and the world.

## WHY CHOOSE FUSE SUIT DATA PLATFORM ?



### Streamlined Integration

Our platform seamlessly integrates a range of open-source tools and technologies, making it easier than ever to manage and process data within the Hadoop ecosystem.



### Scalability

Whether you're a startup or an enterprise, our platform scales to meet your evolving data needs, ensuring optimal performance and efficiency at any scale.



### Flexibility

Tailor the platform to suit your specific requirements and workflows, with customizable configurations and deployment options to accommodate diverse use cases.

## BENEFITS OF FUSE SUIT : DATA PLATFORM.



### Enhanced Performance



### Reliability and Security



### Cost - Effectiveness



### Ease of Use



#### ADDRES

95, MOBICOM 4, SATHORN, BANGKOK



#### EMAIL

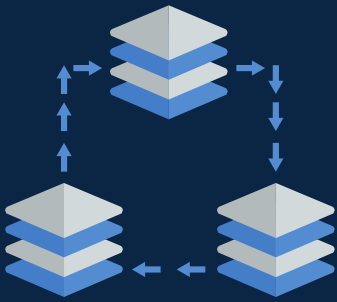
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# KEY FEATURES



## Scalable Storage and Processing

**HDFS:** Reliable, scalable, and distributed storage system. **Parallel Processing:** Powerful framework for processing vast amounts of data efficiently.



## Comprehensive Data Integration

**Data Transfer Tools:** Efficiently move bulk data between various systems and Hadoop. **Stream Data Ingestion:** Seamlessly ingest data from multiple sources into HDFS.



## Real-time Data Analytics

**Cluster Computing:** Fast and general-purpose system for real-time data analytics. **Data Warehousing Solutions:** Facilitate easy data summarization, querying, and analysis.



## Enhanced Data Security

**Secure Authentication:** Ensures data privacy and integrity through robust authentication methods. **Centralized Security Management:** Framework for data authorization and auditing.



## Advanced Data Management

**Workflow Scheduling:** Manage and schedule complex data processing jobs. **Coordination Services:** Efficiently manage distributed applications.



# DATA PLATFORM FEATURES

## 1. Advanced Distributed Architecture

- **Scalable Design** : Developed with a distributed architecture to ensure high availability and scalability.
  - **Fault Tolerance** : Built-in mechanisms for data replication and fault tolerance to prevent data loss.
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## 2. Centralized Management Interface

- **Unified Control** : Manage all aspects of the platform through a centralized, web-based interface. Cluster
  - **Management** : Efficiently manage and monitor cluster performance and health.
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## 3. Hadoop Distributed File System (HDFS)

- **Reliable Storage** : Use HDFS for reliable, scalable, and distributed storage of large datasets. Data
  - **Redundancy** : Ensure data redundancy and quick recovery from failures.
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## 4. Comprehensive Data Handling

- **Structured and Unstructured Data** : Store and manage both structured and unstructured data seamlessly.
  - **Query Support** : Perform complex queries using SQL-like languages (Hive) and NoSQL databases (HBase).
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## 5. Powerful Querying and Analysis

- **Hive Query Language (HQL)** : Utilize HQL for querying data stored in Hive without additional costs.
  - **Advanced Analytics** : Support for distributed query engines for efficient data analysis.
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## 6. Standard Connectivity Options

- **ODBC and JDBC** : Support for ODBC and JDBC standards for seamless database connectivity.
  - **API Integration** : Easily integrate with other systems and applications using standard APIs.
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## 7. Extensive Language Support

- **Programming Languages** : Support for R, Python, and Spark ML for advanced data analysis and machine learning.
  - **Custom Scripting** : Enable custom scripting and automation to meet specific business needs.
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## 8. Notification and Alerting System

- **Real-time Alerts** : Receive real-time alerts via email, SNMP, or HTTP based on predefined conditions.
  - **Custom Notifications** : Configure custom notification channels as per organizational requirements.
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## 9. Configuration and Cluster Management

- **System Configuration** : Manage system settings and configurations through a user-friendly interface.
  - **Resource Allocation** : Efficiently allocate and monitor resources such as CPU and memory.
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# DATA PLATFORM FEATURES

## 10. Activity Monitoring and Reporting

- **Job Monitoring** : Track the status of jobs and system activities, with real-time updates.
  - **Reporting Tools** : Generate comprehensive reports on system usage and performance.
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## 11. Resource Management

- **Dynamic Allocation** : Automatically allocate resources based on workload demands.
  - **Performance Monitoring** : Monitor resource utilization and optimize system performance.
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## 12. Workflow Management

- **Job Scheduling** : Schedule and manage complex workflows with a built-in job scheduler.
  - **Workflow Automation** : Automate repetitive tasks to improve efficiency and accuracy.
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## 13. Security and Compliance

- **User Authentication** : Ensure secure access with robust user authentication methods.
  - **Access Control** : Define user roles and permissions to control access to sensitive data.
  - **Data Encryption** : Encrypt data in transit and at rest to safeguard against unauthorized access.
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## 14. Performance and Priority Management

- **Workload Management** : Balance and prioritize workloads to ensure efficient processing.
  - **Resource Optimization** : Optimize resource usage to maximize performance and minimize costs.
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## 15. Audit and Logging

- **Activity Logs** : Maintain detailed logs of user activities and system operations.
  - **Audit Trails** : Create audit trails to ensure compliance with regulatory requirements.
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## 16. Session Management

- **Session Timeout** : Configure session timeouts to enhance security and resource management.
  - **User Session Tracking** : Track active user sessions and manage system access.
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## 17. Ecosystem Compatibility

- **Integration** : Seamlessly integrate with other distributed architecture ecosystems.
  - **Scalability** : Support for expanding the ecosystem with additional software without disruption.
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## 18. Extensibility

- **Modular Design** : Add new features and functionalities as needed without affecting existing operations.
  - **Third-party Tools** : Support for integrating third-party tools and applications to enhance platform capabilities.
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# TECHNICAL SPECIFICATION

## Data Visualization



## Services

### Hadoop Distributed File System (HDFS)

- Store and manage large volumes of data efficiently with this distributed file system.

### Apache Hive

- Query and analyze data using SQL-like syntax, simplifying data exploration and analysis tasks.

### Apache YARN

- Efficiently manage resources across distributed applications, ensuring optimal performance and resource utilization.

### Apache Spark

- Process large-scale data sets rapidly and efficiently with this fast and versatile data processing engine.

### Apache Kafka

- Facilitate real-time data streaming and processing for mission-critical applications.

### Apache Airflow

- Orchestrate complex data workflows with ease, automating data pipelines and scheduling tasks efficiently.

### Apache Ambari

- Simplify cluster management and monitoring with this intuitive web-based tool.

### Trino

- Execute interactive SQL queries across multiple data sources in real-time, enabling fast and efficient data analysis.



# BUSINESS PROCESSES

## Data Sources

- Customer Data
- Sales Data
- Marketing Data

STEP  
01

## Data Collection and Integration

- Batch Collection
- Real-time Data
- Collection

STEP  
02

## Centralized Data Repository

- Structured Data
- Unstructured Data

STEP  
03

## Centralized Data Analysis

- Data
- Transformation
- Data Cleansing
- Data Enrichment
- Business Intelligence
- Analytics Machine Learning

STEP  
04

## Business Insights and Decision Support

- Dashboards Strategic
- Planning Operational
- Reports Performance
- Management Advanced
- Analytics Customer
- Engagement

STEP  
05