# 全域智能平台
# 支撑工业智能

Comprehensive Platform
Support Industrial Intelligence

智
Intelligence
NB-IoT
4G/5G
LoRa
工控协议
光纤
5G
端
End
网
Network
边
Edge
网
Network
云
Cloud
TV

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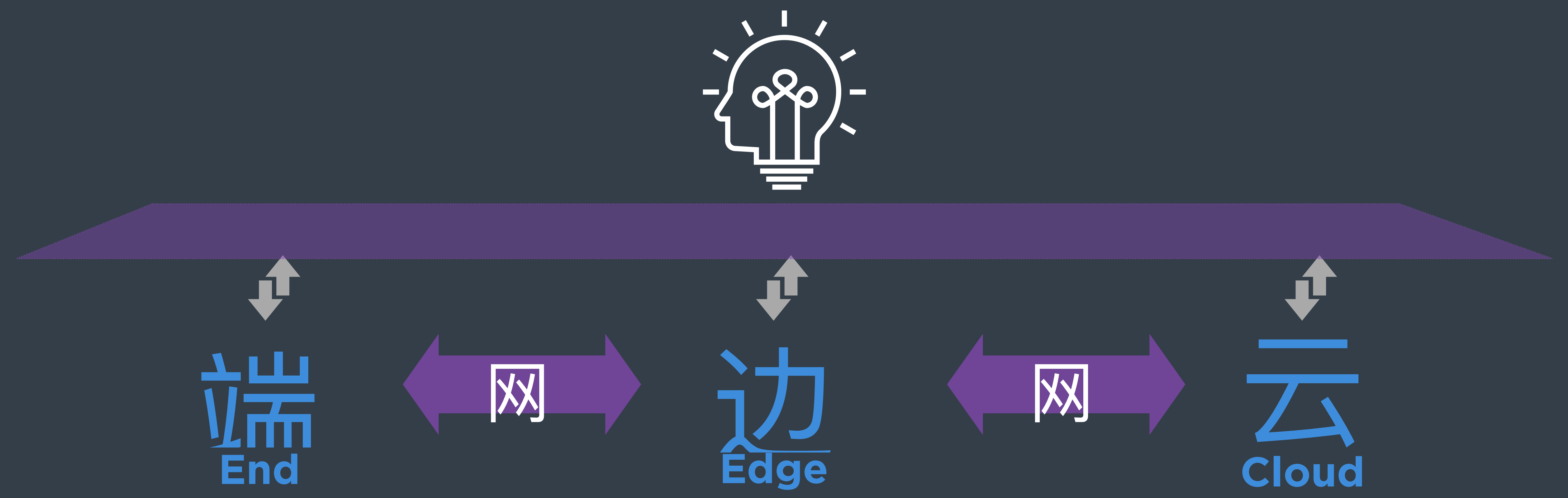
Network
边
Edge
网
Network
云
Cloud

# 行业智能通用架构

Industry Intelligence Architecture




## 智 Intelligence

**Orchestrator**

（ 咨询 Consulting、系统集成 System Integrating、端到端专业服务 E2E Professional Service ）

**行业智能应用 Smart Verticals Applications**

| | | | | |
|---|---|---|---|---|
| 智能制造<br>Smart Manufacturing | 智慧教育<br>Smart Education | 智慧能源<br>Smart Energy | …… | 智慧城市<br>Smart City |

**数据智能核心平台 Data Intelligence Core Platform**

| | | |
|---|---|---|
| 联想工业物联网平台<br>LeapIOT | 联想大数据平台<br>LeapHD | 联想企业级人工智能平台<br>LeapAI |

# 工业企业智能转型技术架构图

# Industrial enterprise intelligent transformation technology architecture diagram

# 联想三大软件平台产品

## Lenovo Three Major Software Platform Products

### LeapIOT
### 联想工业物联网平台

1:数据采集
Data Collection

2:边缘计算
Edge Computing

3:实时分析
Real-time Analysis

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### LeapHD
联想大数据平台

1:数据汇聚
Data Gatheringr

2:数据融合
Data Integration

3:数据分类
Data Classification

### LeapAI
联想企业级人工智能平台

1:预测分析
Forecasting Analysis

2:知识融合
Knowledge Integration

3:智能决策
Intelligent Decision

# LeapIOT
# 联想工业物联网平台架构图

LeapIOT Architecture

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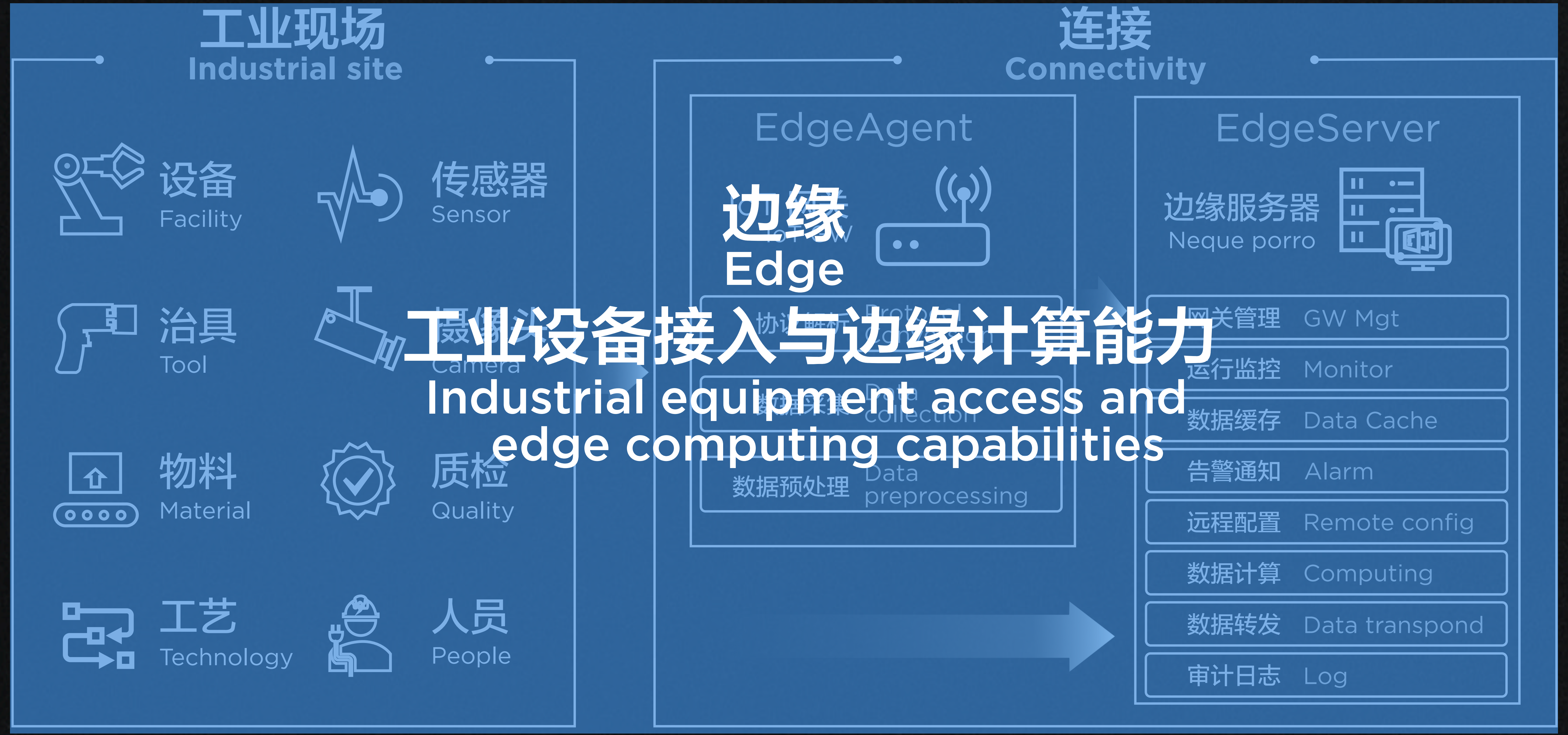
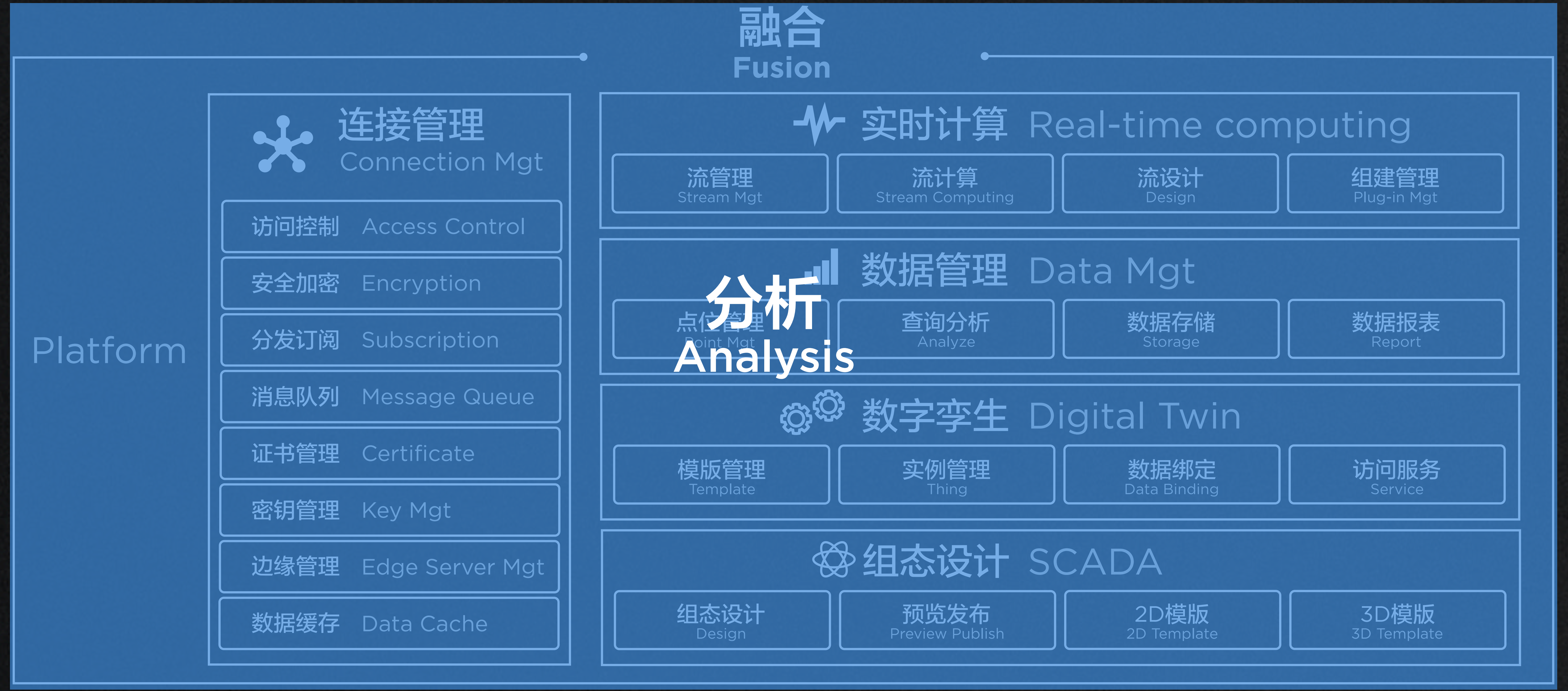
LeapIOT Architecture



# LeapIOT
# 联想工业物联网平台架构图

LeapIOT Architecture

# LeapIOT 优势与特性 Advantages & Features

**无缝接入**
**任意物联设备**
Seamless access to
any IoT device

# LeapIOT 优势与特性 Advantages & Features

## 完整的工业数据接入能力

Complete industrial data collection capabilities

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## 30分钟接入 一条数字产线

Access a digital production line in 30 minutes

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Simple and efficient Usability design

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## 10M点位/s 亿级数据 秒级响应

10M points/s writing speed tsdb, second-level response by Billion-level data querying

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## 领先的工业数据处理能力
Leading industrial data processing capabilities

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## 200+种边缘计算插件 灵活扩展
200+ Edge computing plugin modules, flexible extension

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Powerful edge intelligence engine

200+种边缘计算插件 灵活扩展
200+ Edge computing plugin modules, flexible extension


联想工业物联网平台
助力衡钢产线智能化升级
LeapIOT Promoted the Intelligent Upgrade of HVST's
Production Line

# LeapHD
# 联想大数据平台架构图
LeapHD Architecture

# LeapHD 优势与特性 Advantages & Features

高于Spark10倍的计算性能
10 times higher computational performance than Spark

## 运行高效
Efficient operation

## 安全可靠
Safe and reliable

验证平台稳定性99.98%
Verify platform stability 99.98%

支持SQL语法高于99%
支持SQL Server存储过程高于98%
Support SQL syntax above 99%
Support for SQL Server procedures up to 98%

## 高度兼容
Highly compatible

## 简单易用
Easy to use

提供6种自主研发的
图形化大数据开发工具集
Provide 6 kinds of independently developed graphical big data development tool sets

# LeapHD 应用案例 Use Case

## 核心数据源
Core Data Source

| | |
|---|---|
| 线索数据<br>Data of Clue | 保客数据<br>Customer Retention Data |
| 销售数据<br>Sales Data | 售后数据<br>After Sale Data |
| 车主App数据<br>Vehicle Owner App Data | 车联网数据<br>Telematics Data |
| 垂媒数据<br>Vertical Media Data | 外部合作数据<br>External Data |

## 数据湖
Data Lake

| | |
|---|---|
| 企业级数据湖<br>Enterprise-class Data Lake | 整车销量预测<br>Vehicle Sales forecast |
| 管理驾驶舱<br>Cockpit management | 配件预测&安全库存<br>Mountings Forecast & Safety inventory |
| 销售&售后分析<br>Sales& After Sale analysis | 客户回站预测<br>Customer loss Forecast and redeem |
| 统一客户画像<br>Unify Client Portrait | 企业舆情<br>Enterprise public opinion |

## 应用效果
Application effect

- 线索到店转化率提升10%；
  Store conversion rate increased by 10%
- 客户满意度提升8%；
  Customer satisfaction increased by 8%
- 降低相关部门工作量70%
  The workload of relevant departments was reduced by 70%

# LeapAI
# 联想企业级人工智能平台架构图
LeapAI Architecture

## LeapAI 优势与特性 Advantages & Features

### 强大的数据处理能力
Strong Data Preprocessing Ability

### 丰富的行业模板
Rich Industry Solutions

### 适用各层次用户
Applicable to all Levels of Users

### 易扩展的架构设计
Extensible Architecture Design


联想企业级人工智能平台
助力天弘化学汽油收率提升
LeapAI Improved the Gasoline YieldRate of THC

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# 整合全域数据
# 实现通链智能

All Data For Full Value
Chain Intelligence

**工业智能**
**整体规划**

Overall Planning of
Industrial Intelligence

**工业互联网**
**核心平台建设**

Core Platform Construction
of Industrial Internet

**智能化**
**创新应用**

Intelligent Innovative
Applications