

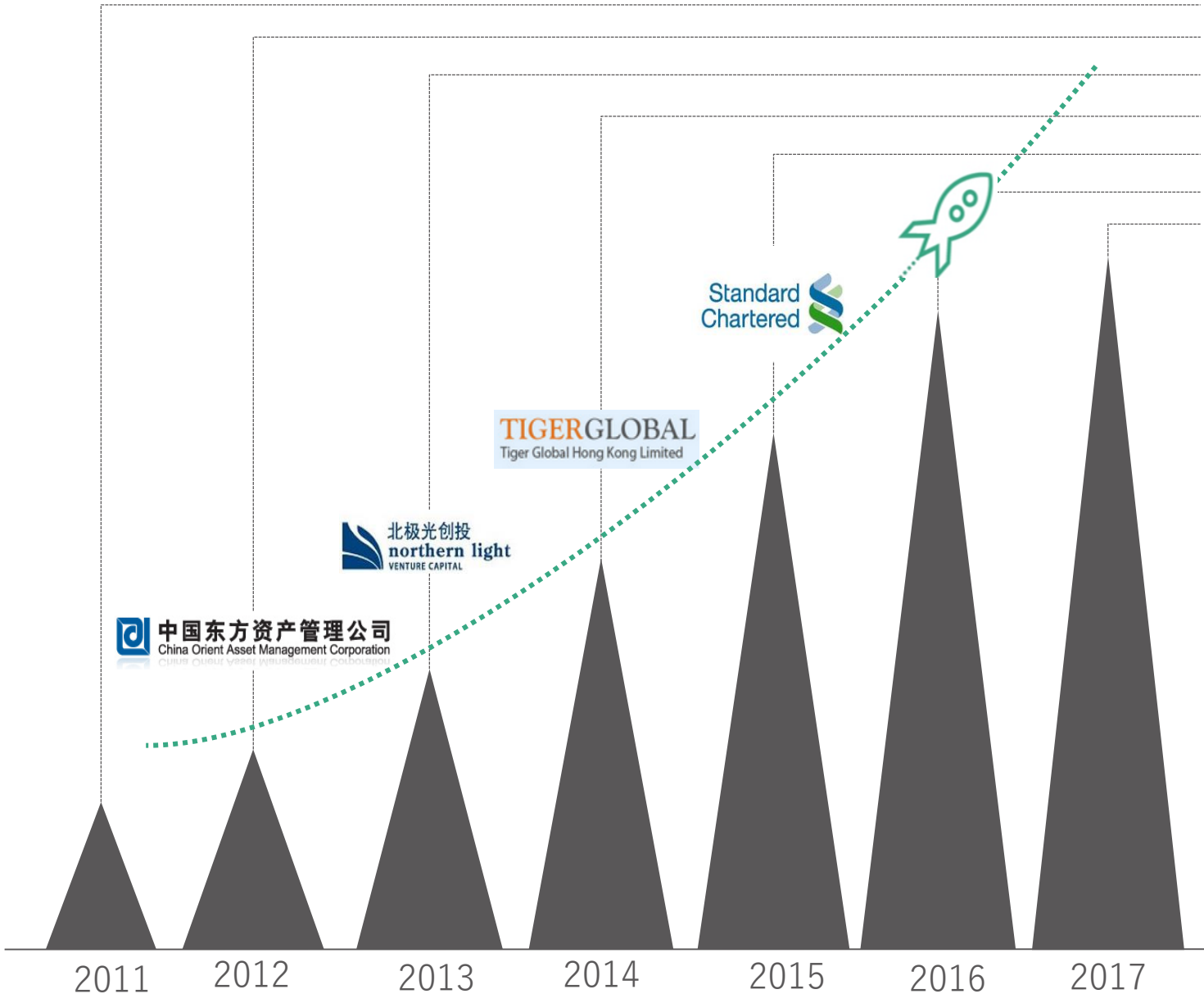


——数据库技术沙龙-上海站——

点融网金融数据平台践行

韩新润

Dianrong History



- Founded in Shanghai, China with technology platform from **Lending Club**
- We are **Six** years old
- VC investment from **Northern Light Venture Capital, Tiger Global, Standard Chartered Private Equity, China Internet Fintech Fund, Bohai Financial, and Max Giant**
- Over **2,600 employees** and **28 offices** across China
- Launched China's First **Block chain platform** with **Foxconn**
- As of end of **Apr 2017**, total lender volume reached **29 billion RMB**, accumulated interest for lenders exceeded **1 billion RMB**.

- 数据库

- 设计目标是事务处理，OLTP
- 关系模型，面向应用

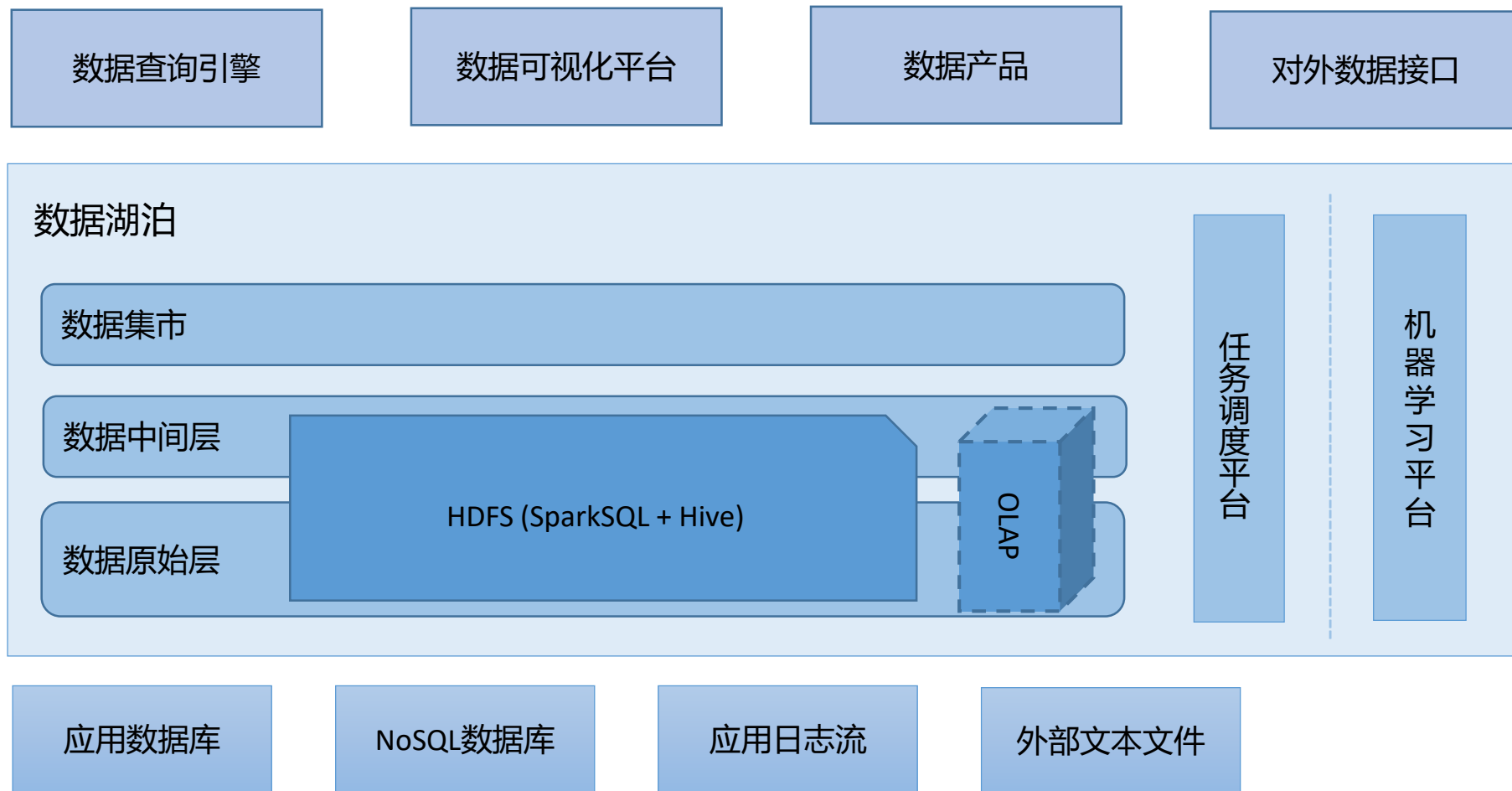
- 数据仓库

- 设计目标是决策支持，OLAP
- 多维模型，面向主题，反映历史变化

- 数据湖泊

- 存储结构化的、半结构化的原始数据

DATA WAREHOUSE	vs.	DATA LAKE
structured, processed	DATA	structured / semi-structured / unstructured, raw
schema-on-write	PROCESSING	schema-on-read
expensive for large data volumes	STORAGE	designed for low-cost storage
less agile, fixed configuration	AGILITY	highly agile, configure and reconfigure as needed
mature	SECURITY	maturing
business professionals	USERS	data scientists et. al.



- 数据ELT平台
 - ✓ 数据抽取转换：Sqoop + Hive / SparkSQL
 - ✓ 作业调度：定制化 Azkaban
- 数据查询平台
 - ✓ 定制化 Spark Thrift Server + Zeppelin
 - ✓ Hue
- 数据可视化展现平台：
 - ✓ Tableau
 - ✓ Pentaho

- 实时数据处理：
 - ✓ Kafka + Spark Streaming
- 机器学习与建模分析：
 - ✓ Spark MLlib / Graphx
- OLAP引擎：
 - ✓ 待实施

- 数据治理

- ✓ 元数据管理
- ✓ 数据重要性分级
- ✓ 表级别血缘关系管理
- ✓ 列级别血缘关系管理



- 数据质量告警

- ✓ 数据SLA告警
- ✓ 数据增量阈值告警



- 数据脱敏
 - ✓ 用户PII数据脱敏
- 数据权限分级
 - ✓ 根据数据敏感级别进行分级
 - ✓ 数据访问权限控制



• 审计

- ✓ 数据表访问记录
- ✓ 数据表下载记录
- ✓ 数据表授权记录
- ✓ 数据文件查看记录
- ✓ 集群访问记录



The logo for DBAplus, featuring the letters 'DBA' in red, blue, and orange respectively, followed by 'plus' in green. A thin white horizontal line is positioned below the letters.

DBAplus

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THANK YOU