



DataStax Hands-On Workshop

Thomas Gregg, Negib Marhoul

27. Februar 2017

Agenda

| | |
|---|----------------------------------|
| 1 | Quick intro to DataStax and Team |
| 2 | Key Facts DataStax Enterprise |
| 3 | Hands-On Agenda today |

DataStax

DataStax

400+
Employees

Founded in April 2010

Santa Clara • San Francisco • Austin •
London • Paris • Berlin • Tokyo • Sydney

\$190M
Funding



(Series E – Sept. 2014)

500+
Customers



Forbes

2016 World's Best
100 Cloud Companies

Gartner

Ranked #1 in multiple operational
database categories

DACH Sales & Partner Team



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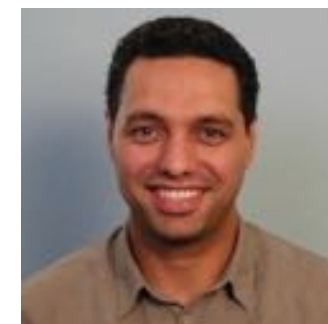
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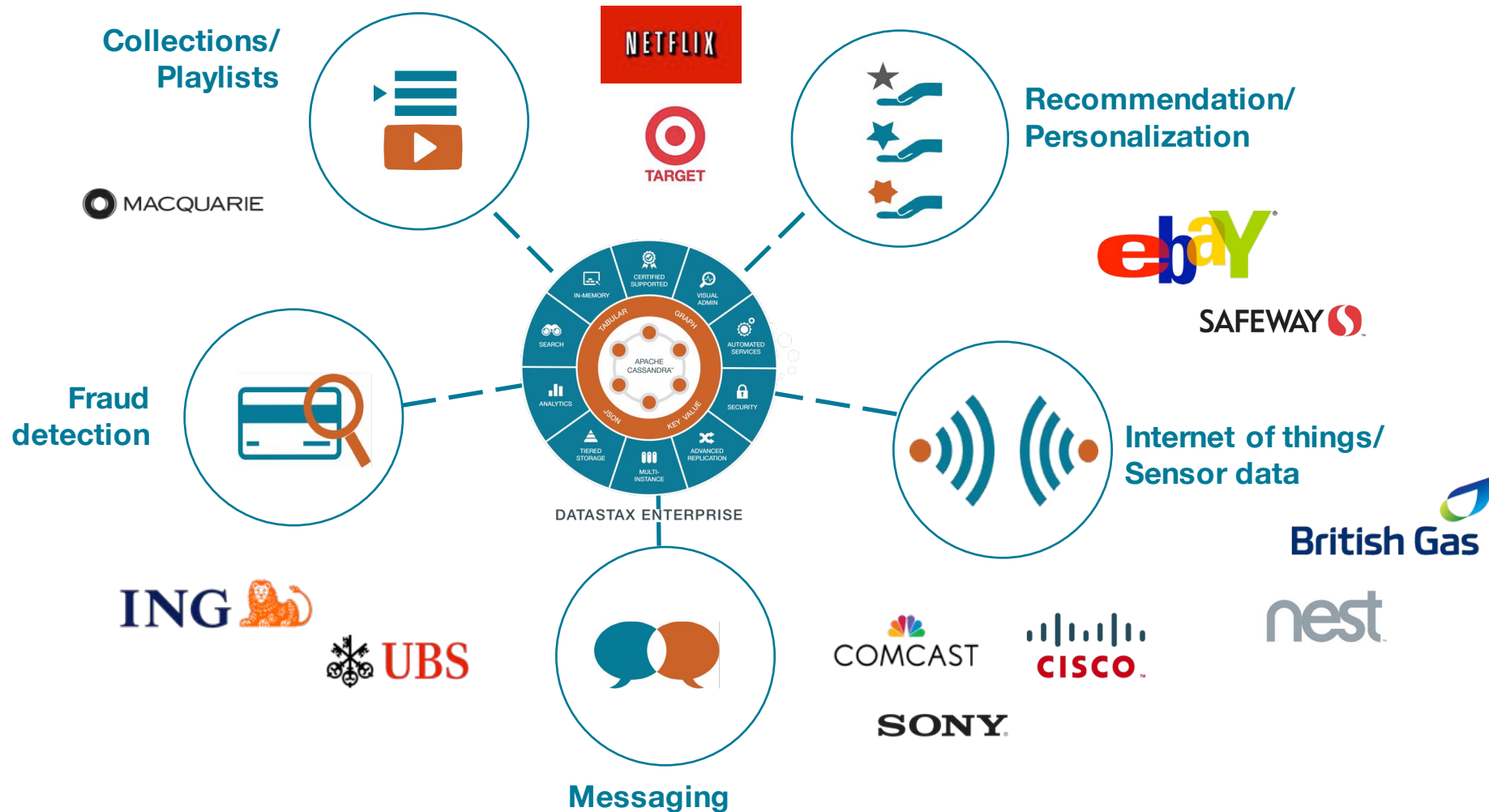


DATASTAX ENTERPRISE

Distributed Database Management Platform for Cloud Applications

- Always-on architecture
- Effortless Scale
- Best in class for multi-data center and cloud deployments
- Handles transactional, analytical, search, and in-memory
- workloads in a single database cluster

Functional use cases



DataStax Enterprise

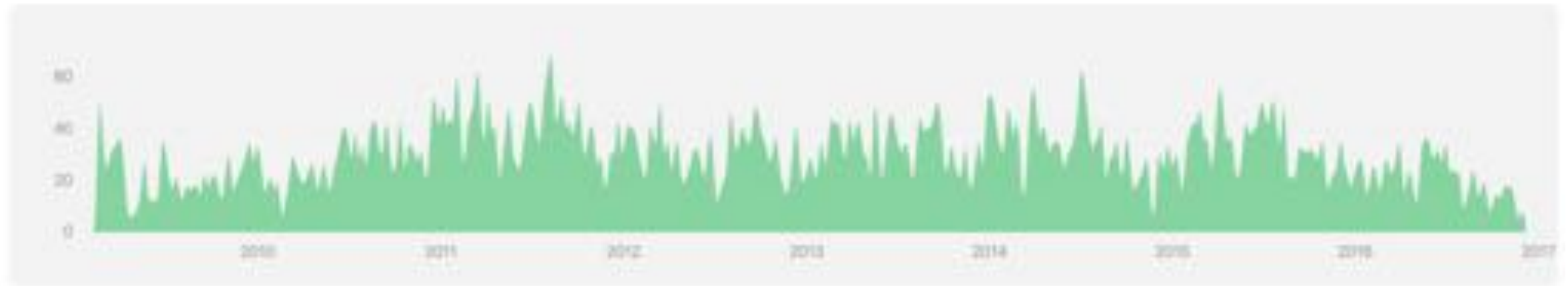
Key Facts

...Driven by DataStax: The World Leader in Apache Cassandra™ Engineering

Mar 1, 2009 – Jan 8, 2017

Contributions: **Commits** ▾

Contributions to trunk, excluding merge commits



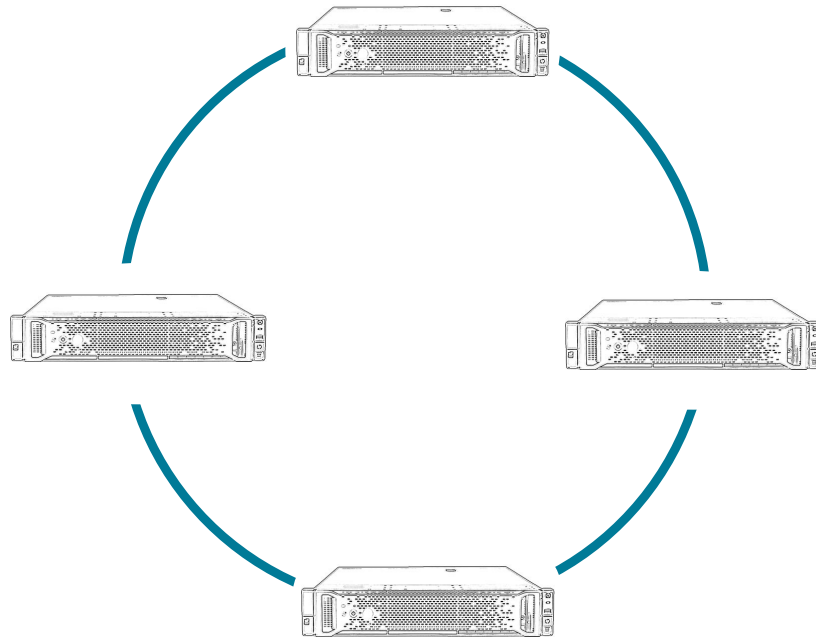
Contributors

110 Total
22 DataStax Employees (20%)

Contributions

10,423 Total
8,950 DataStax Employees (86%)

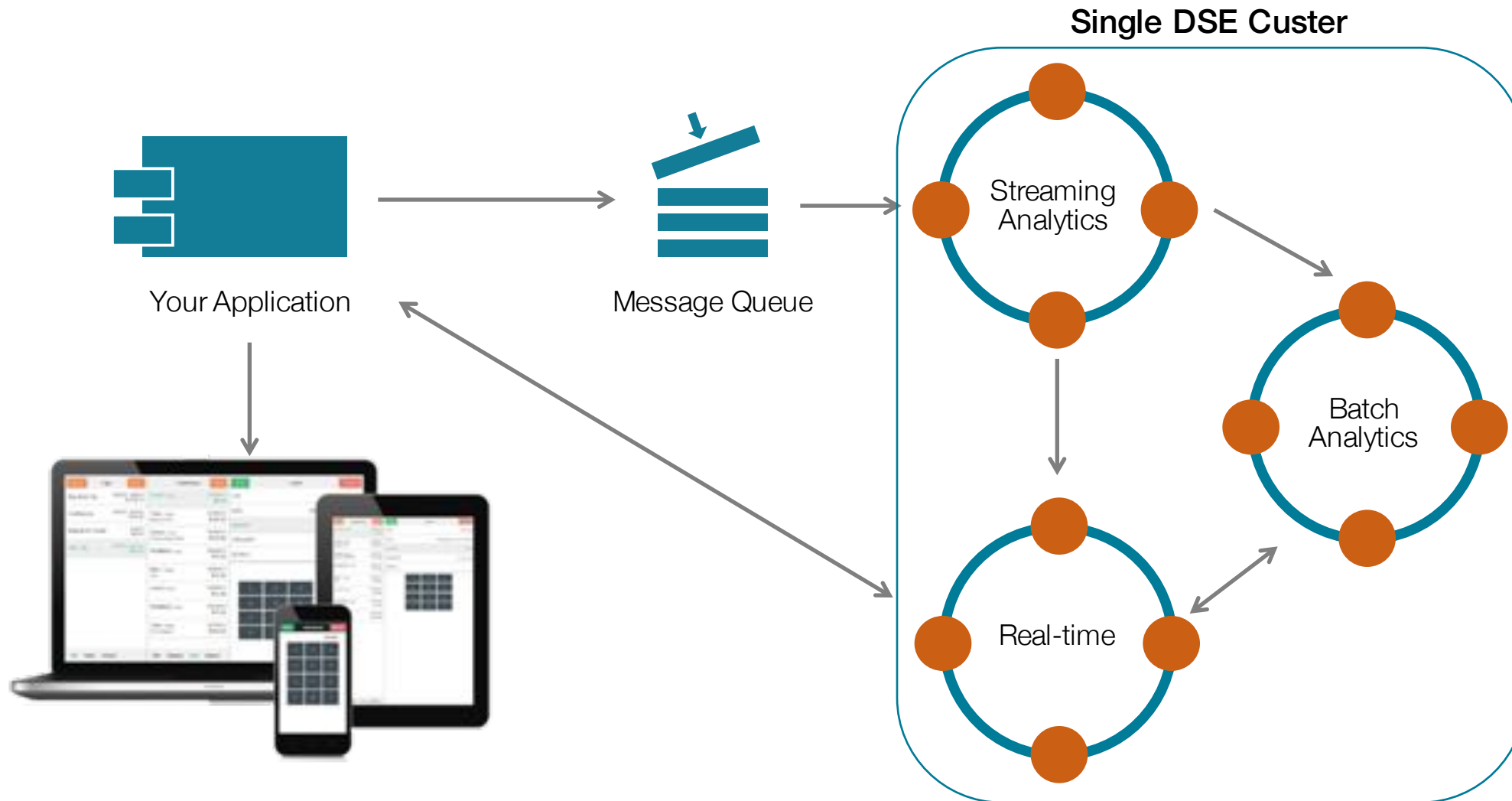
Best distribution of Apache Cassandra™



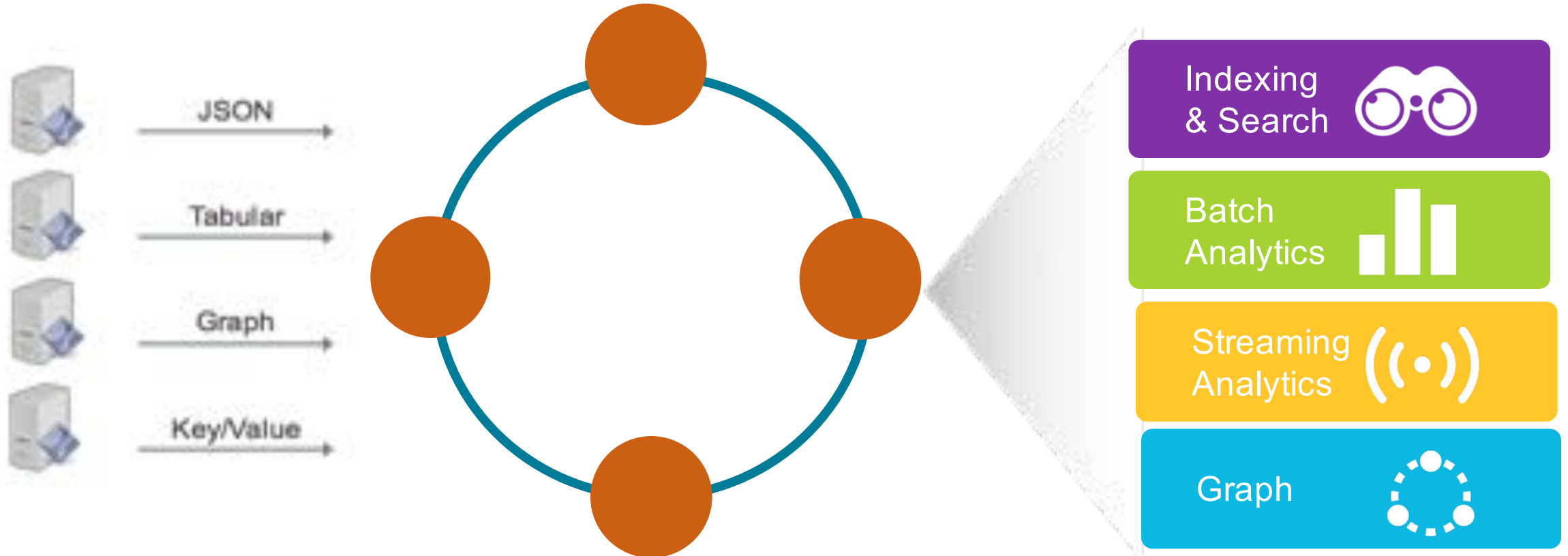
- Continuously Available
- Master Less
- Fully Distributed
- Shared-Nothing Architecture
- Build In Replication
- Linear Scalability
- Scale out



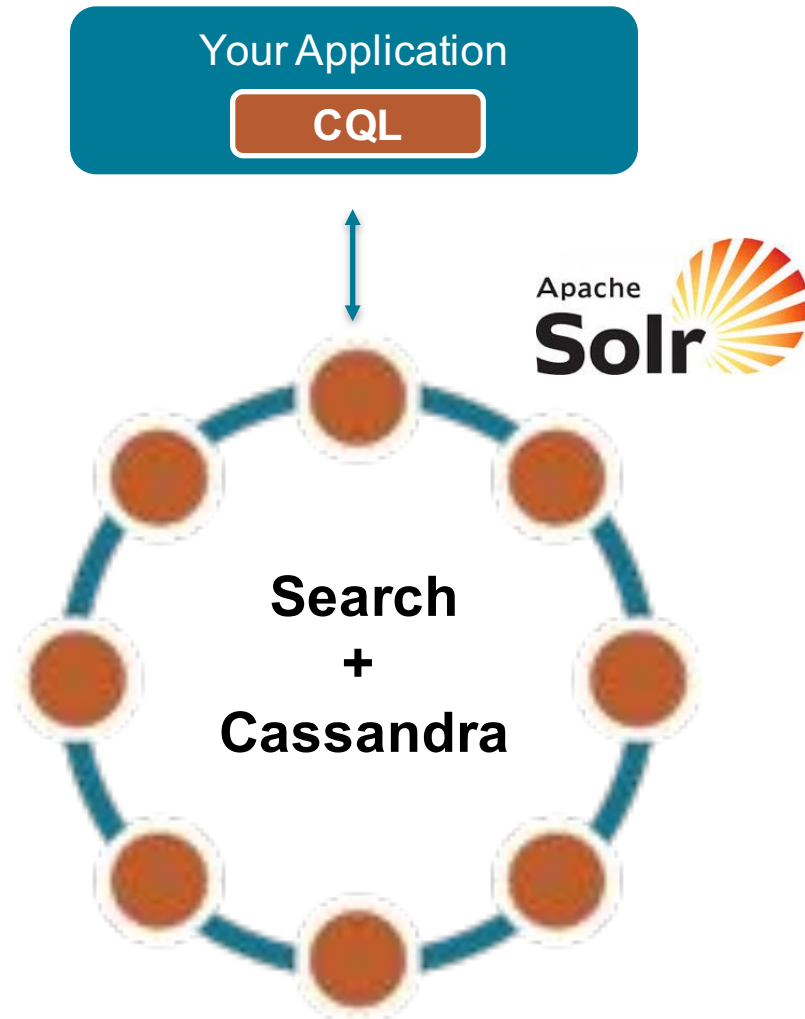
DSE Analytics Referenzarchitektur



Integrated Multi-Model/Mixed Workload Platform



DSE Search



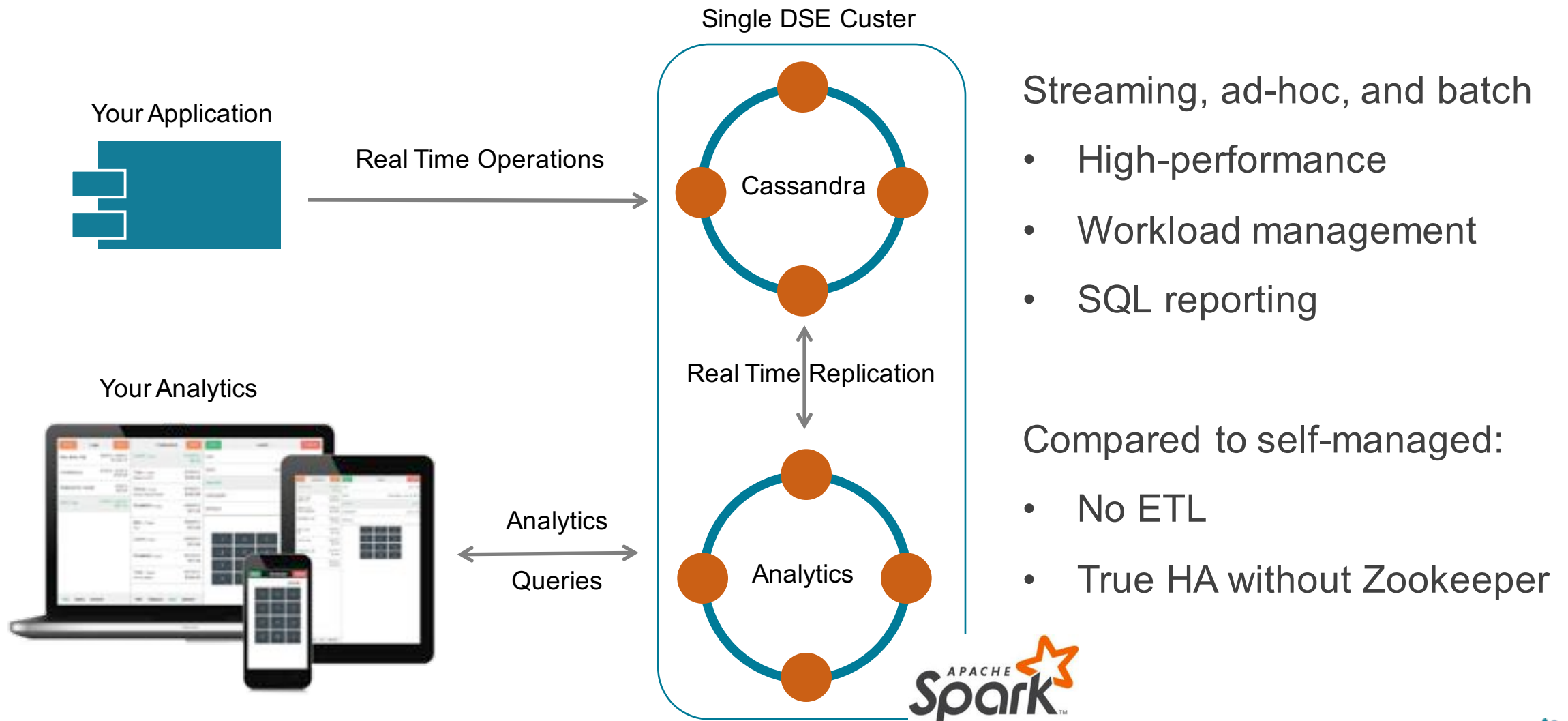
Live indexing engine with powerful search

- Automatic indexing on insert
- Higher ingestion throughput
- Distributed query optimization

Compared to self-managed:

- No separate search cluster to manage
- Probably less total hardware required
- No “Split Brain” data inconsistencies
- No ETL or synch to build and maintain
- No app level data management code

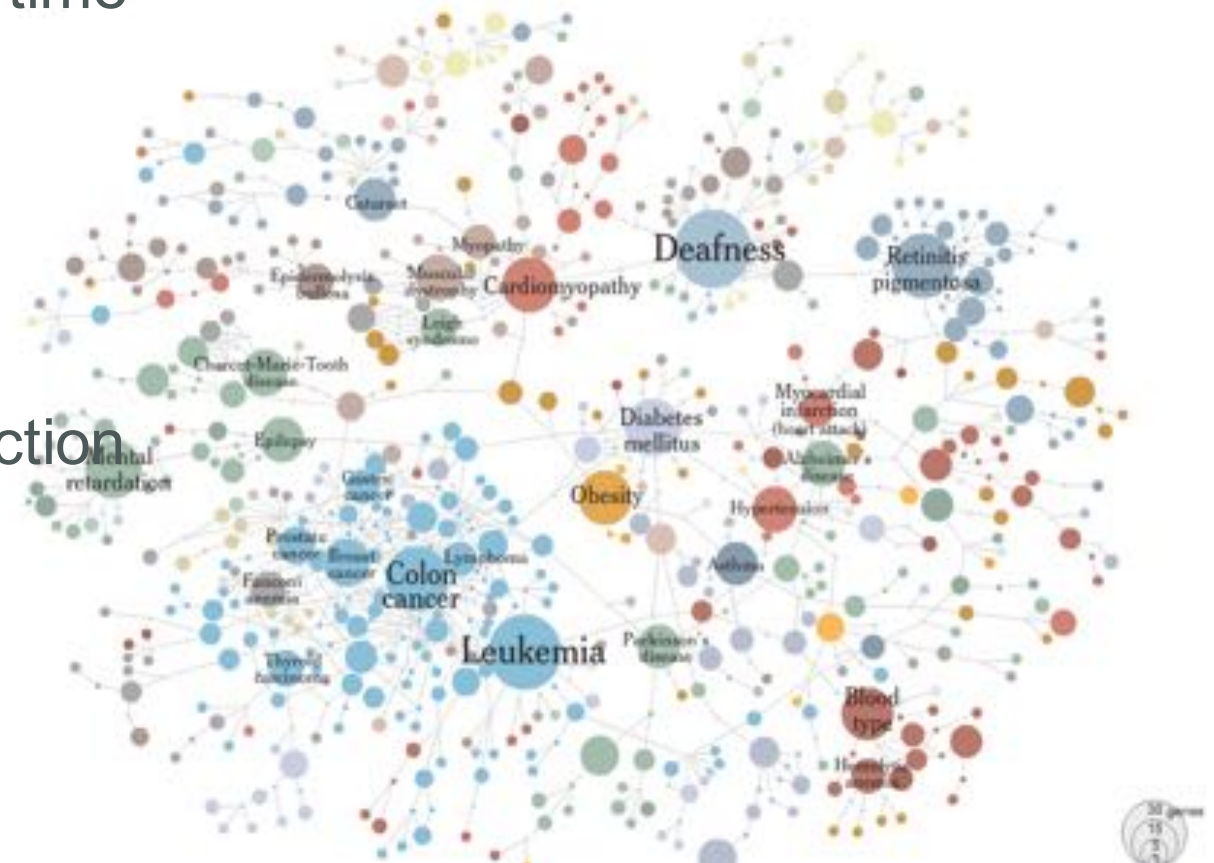
DSE Analytics



DSE Graph

A scalable, distributed graph database that is optimized for storing, traversing and querying complex graph data in real time

- Value data between relationships
- DSE Analytics and Search integrated
- Perfect for use cases: Customer360, Recommendations, Fraud Detection



Agenda

| | | |
|---|---|-----------|
| 1 | Apache Cassandra™ Datenstrukturen und Replikationsmöglichkeiten | 11:15 Uhr |
| 2 | Workshop: Datenmodellierung mit DataStax Enterprise und Apache Cassandra | 13:00 Uhr |
| 3 | Workshop: Live Data Indexing mit DataStax Enterprise und Apache Solr | 14:00 Uhr |
| 4 | Workshop: DataStax Enterprise Analytics mit Apache Spark | 15:00 Uhr |
| 5 | Diskussionsrunde, Fragen & Antworten | 16:00 Uhr |

Vielen Dank!