



# DataStax Hands-On Workshop

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12<sup>th</sup> Jan 2018

# Agenda

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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



**30% +** **FORTUNE 100**

**Forbes**

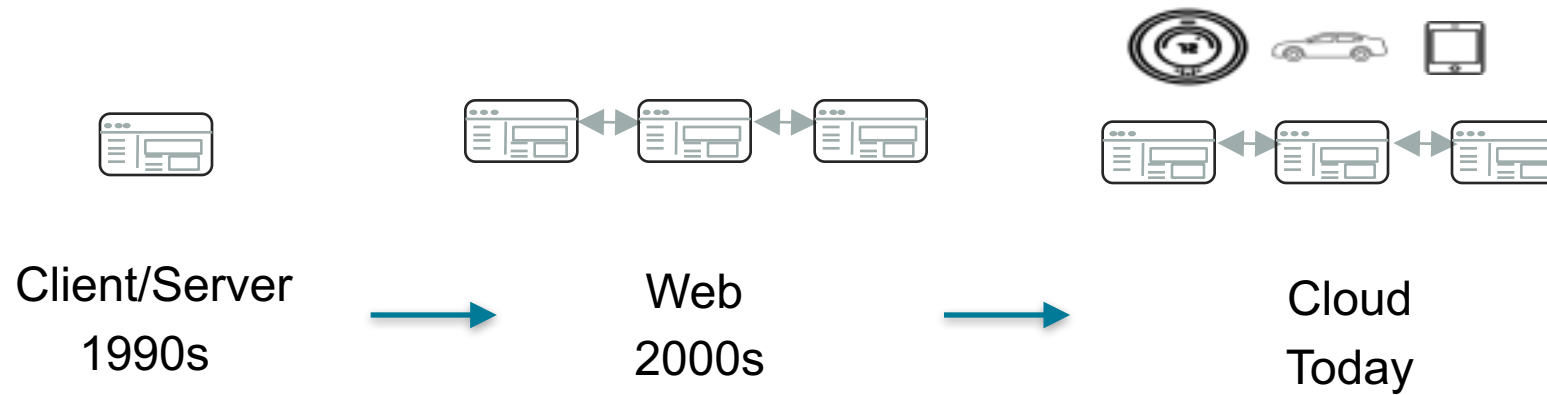
2016 World's Best  
100 Cloud Companies

**Gartner**

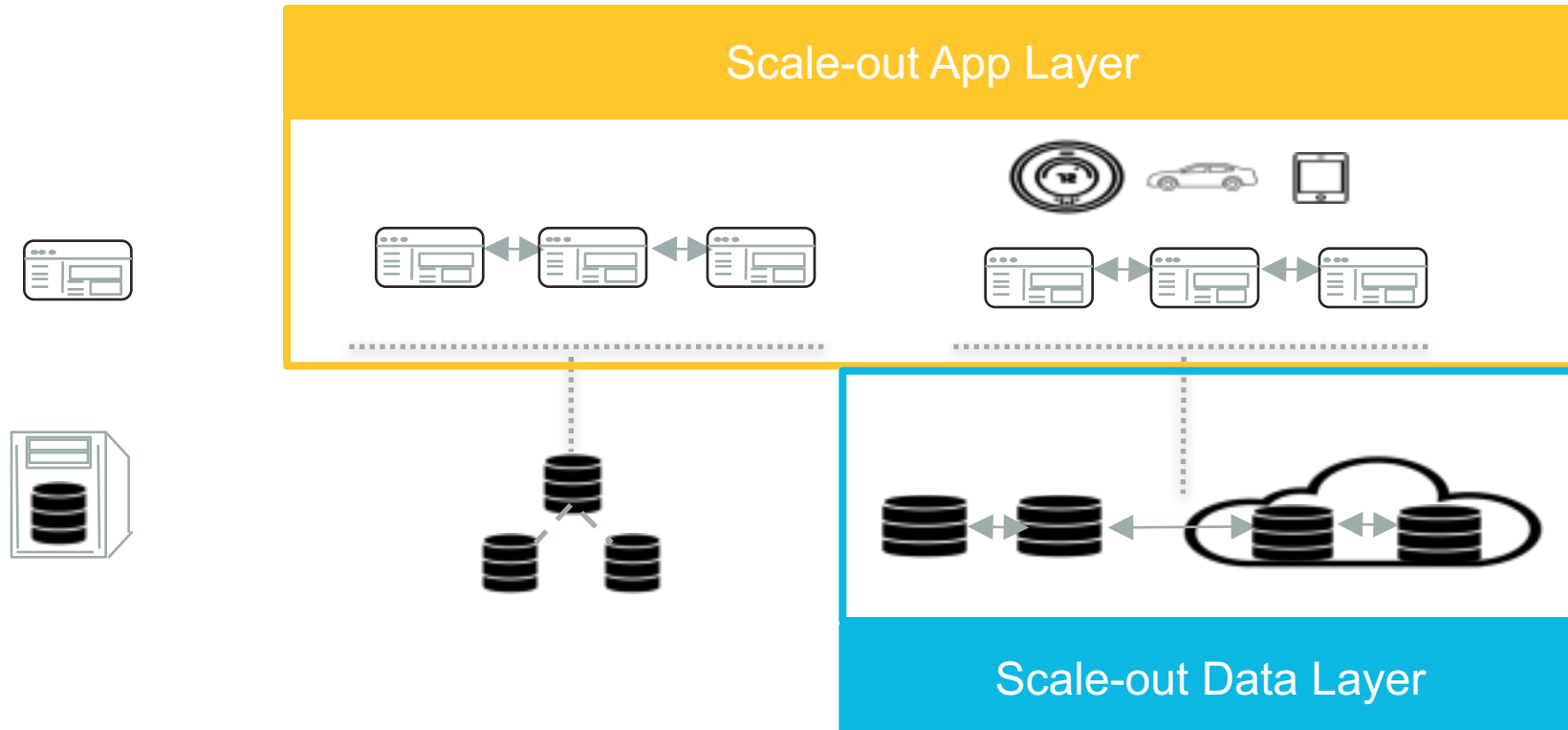
Ranked #1 in multiple operational  
database categories

# Apps have changed

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# And what powers them



# Cloud Application Characteristics

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Contextual



Always-On



Real-Time



Distributed



Scalable

# Powering Cloud Applications

## Always-on

- Designed to handle any failure, no matter how catastrophic.

## Effortless scale

- Take advantage of every opportunity.
- Focus on what matters most to you.

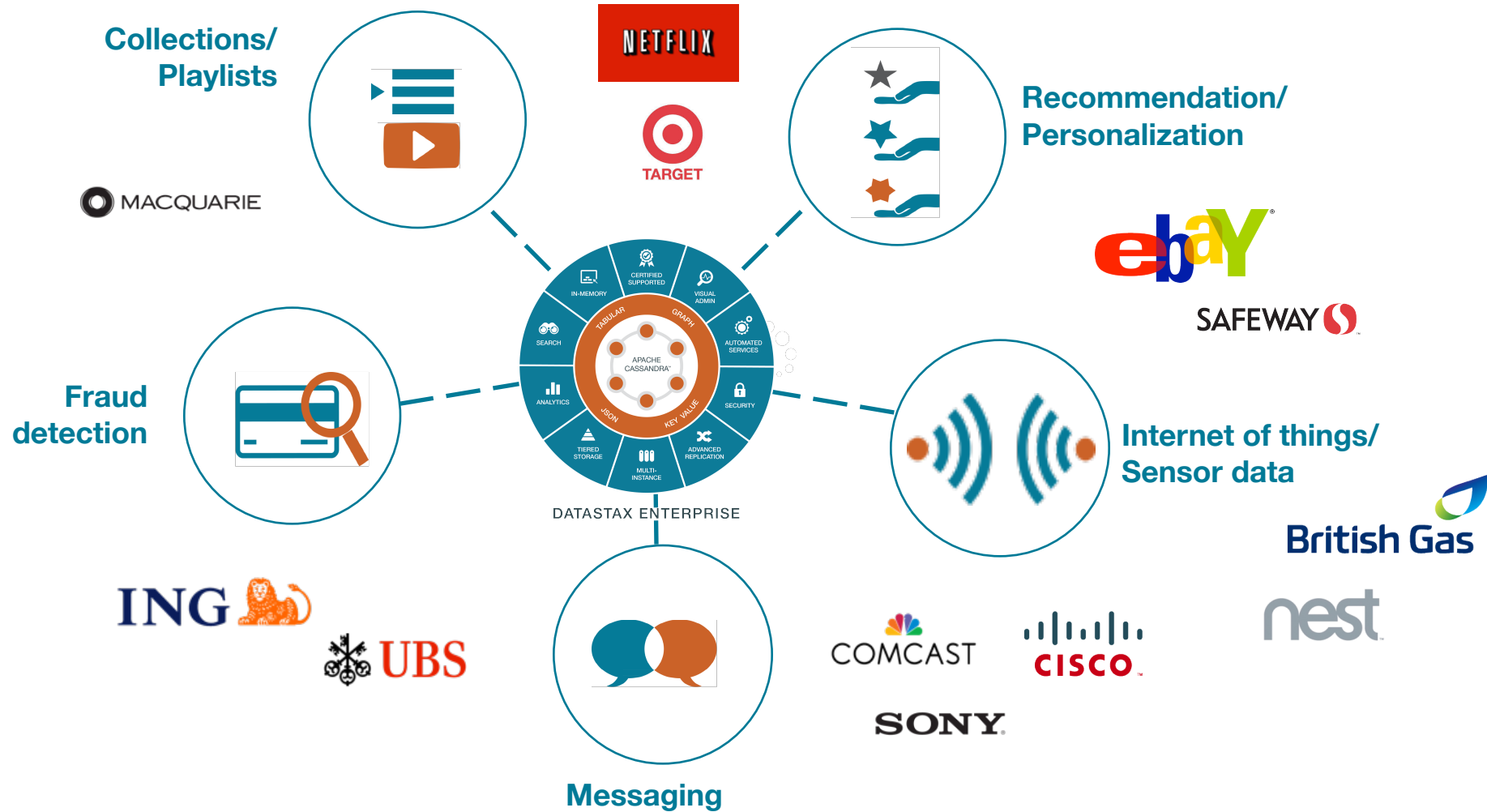
## Instant insight

- Built into your application to create actionable, modern experiences.





# Functional use cases



# DataStax Enterprise

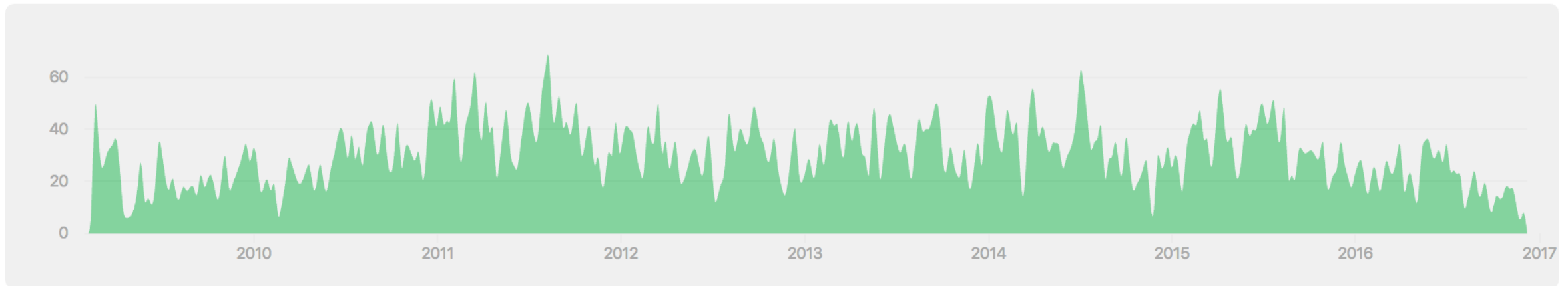
Key Facts

# DataStax: The World Leader in Apache Cassandra™ Engineering

Mar 1, 2009 – Jan 8, 2017

Contributions: **Commits** ▼

Contributions to trunk, excluding merge commits



Contributors

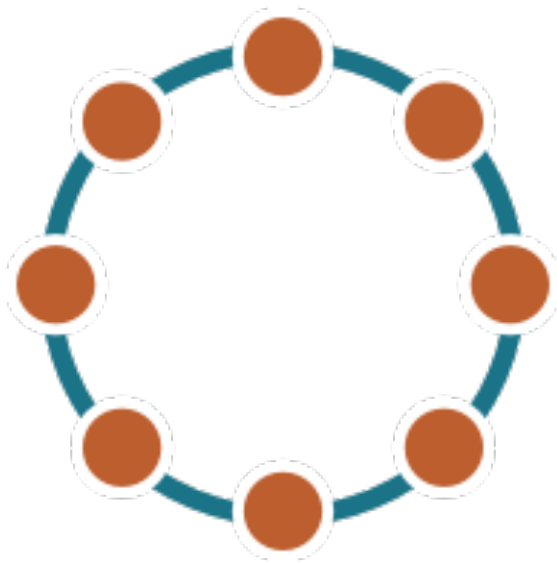
110 Total  
22 DataStax Employees (20%)

Contributions

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

# DataStax Enterprise (DSE)

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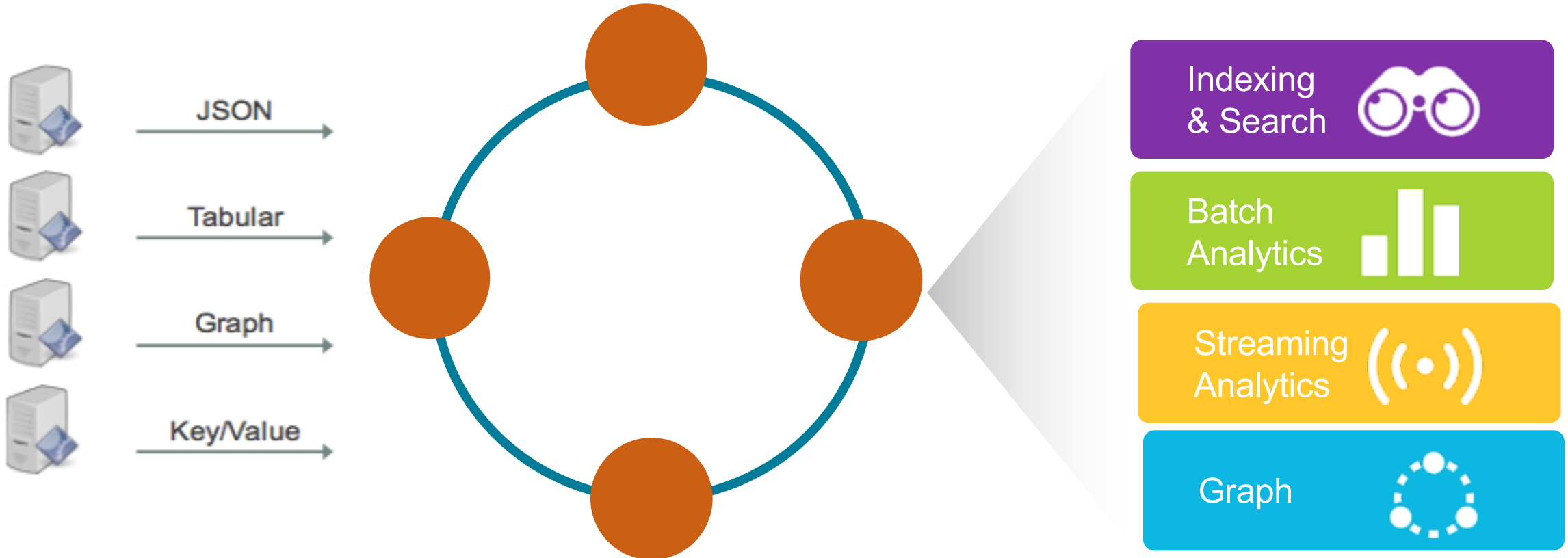


Based on the best distribution of Apache Cassandra™

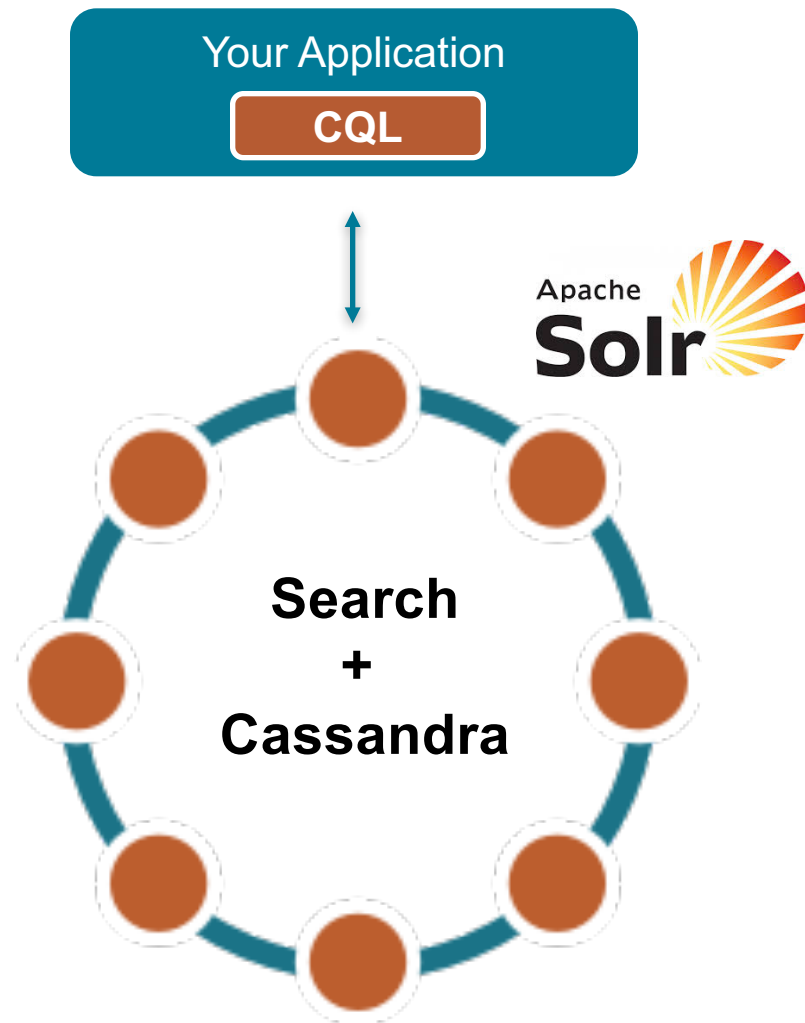
- Continuously Available
- Master Less
- Fully Distributed
- Shared-Nothing Architecture
- Build In Replication
- Linear Scalability
- Scale out



# Integrated Multi-Model/Mixed Workload Platform



# DSE Search



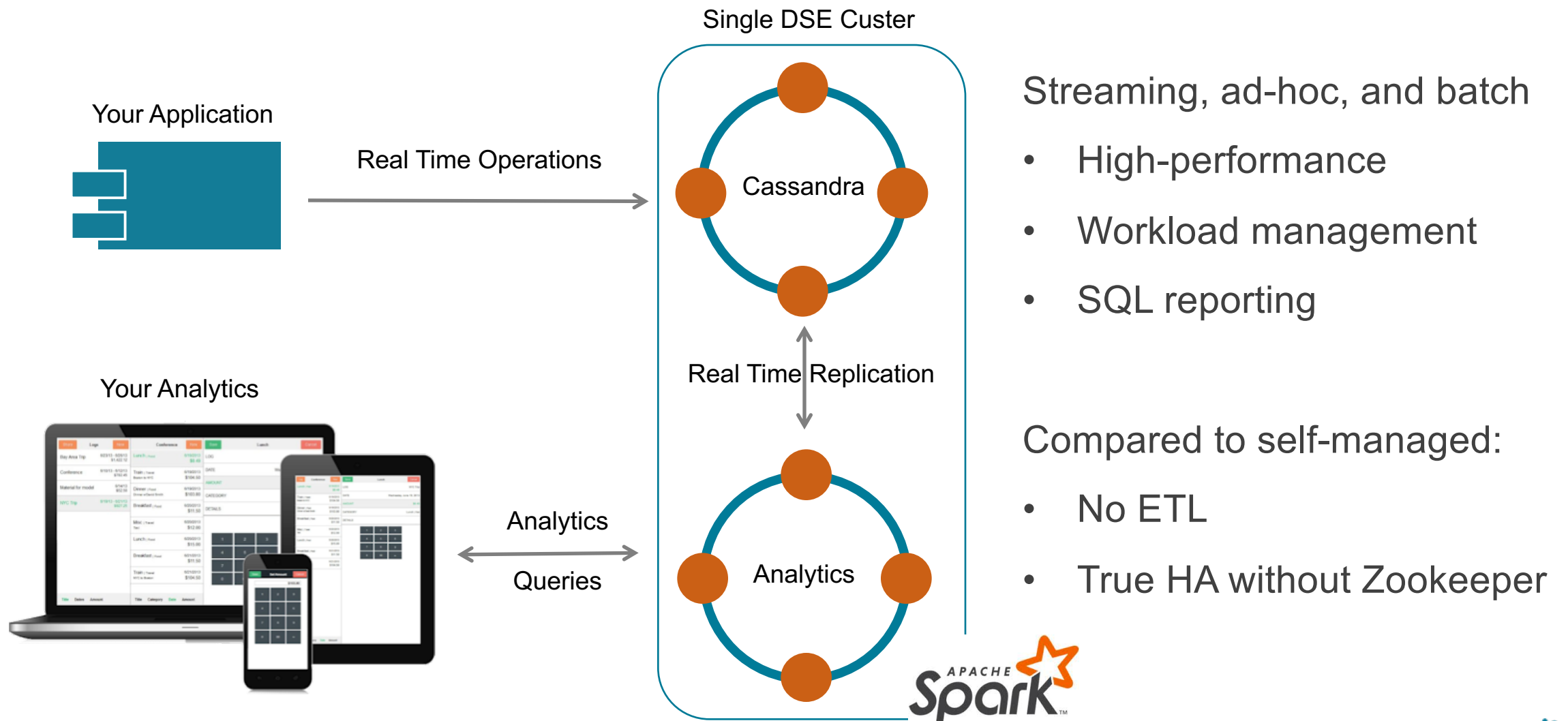
Live indexing engine with powerful search

- 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

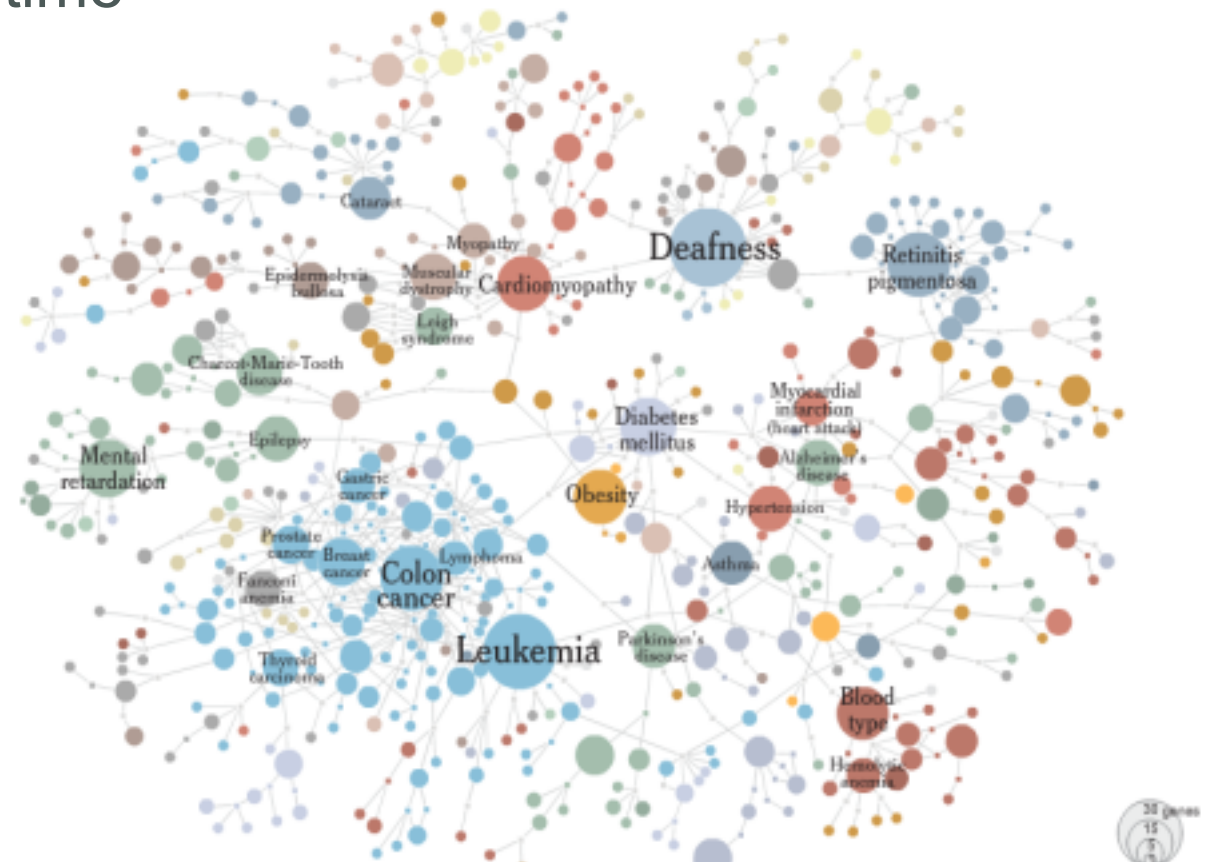
A scalable, distributed graph database that is optimized for storing, traversing and querying complex graph data in real time

- Value data between relationships
- DSE Analytics and Search integrated
- Perfect for use cases:

Customer360

Recommendations

Fraud Detection





# Agenda

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1	<b>Workshop:</b> Apache Cassandra™ Data Structures and Replication	10:15
2	<b>Workshop:</b> DataModelling with DataStax Enterprise and Apache Cassandra™	12:00
	BREAK	13:00
3	<b>Workshop:</b> Live Data Indexing with DataStax Enterprise and Apache Solr	14:00
4	<b>Workshop:</b> DataStax Enterprise Analytics with Apache Spark	15:00
5	Discussion, Questions and Answers	16:00