

13:00 - 14:00

WORKSHOP

Couchbase

Administración y desarrollo de bases de datos NoSQL con Couchbase

Pete Childers, Vice-President, Learning and Strategic Development en Couchbase

Agustín Calderón, Consultant and official instructor in Couchbase en PUE

Roberto López, Business Director en PUE



Couchbase Academy

Data Management Skills for the Digital Economy

April 26, 2017



An explosion of data...

Users creating more content, preferences, etc...

More formats, more data types...

Rapidly changing business models, schema...

Real-Time. Transactional. Mobile.

Need it now!



How will companies and organizations keep up?

How can traditional relational databases keep up?

How will data management **skills** keep up?



System of Engagement

NoSQL
JSON
N1QL

System of Record

{!}

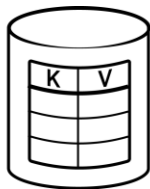
- **Everything other than the Transaction**
- User-driven, personalization, social
- Loose, flexible, changing schemas
- Adaptable to new data types, formats
- VVV = constant change, real-time
- Until recently: human, by-hand, CRM

- **Record of Transaction**
- Organization-driven
- Rigid schemas
- Small data fields, limited data types
- Purchase and sale record
- Archival requirement
- Change and scalability are difficult

The most comprehensive, general purpose, scalable database supporting the broadest set of web, mobile and IoT applications.



Managed Cache



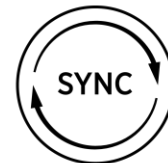
Key-Value Store



Document Database



Mobile /
Embedded Database



Sync Management

N1QL = SQL for JSON



The Flexibility of JSON + the Power of SQL + the Scale of NoSQL



Develop with Agility

- Multiple data models & index types
- N1QL: SQL-like query for JSON
- Built-in query workbench
- SDKs, ODBC / JDBC drivers and frameworks



Operate at Any Scale

- Elastic scalability on commodity servers
- Consistent high-performance
- High availability
- Easy Administration

Real-Time Operational Database



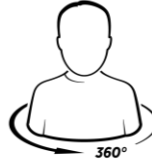
Profile Management



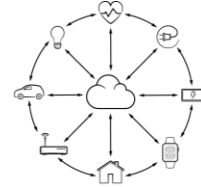
Personalization



360° Customer View



Internet of Things



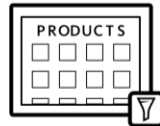
Mobile Applications



Content Management



Catalog



Real Time Big Data



Digital Communication



High Availability Caching



Access and manage data in Couchbase. Add Operational scalability to Analytics.



EXAMPLES:



Digital Economy Customers



eCommerce



Video Streaming



Financial Services



Social & Mobile Gaming



Ad Networks



Healthcare



Education



Software



Automotive



IoT



+300

EMPLOYEES

500+

ENTERPRISE
CUSTOMERS

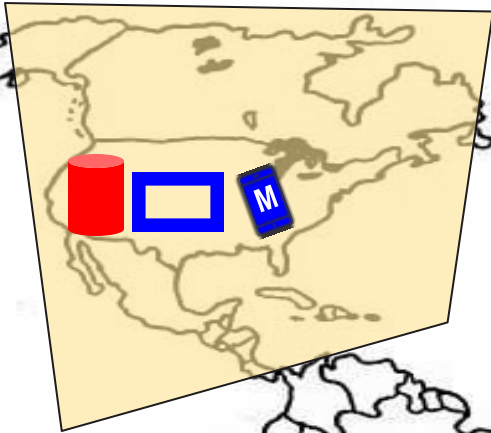
100%

OPEN SOURCE

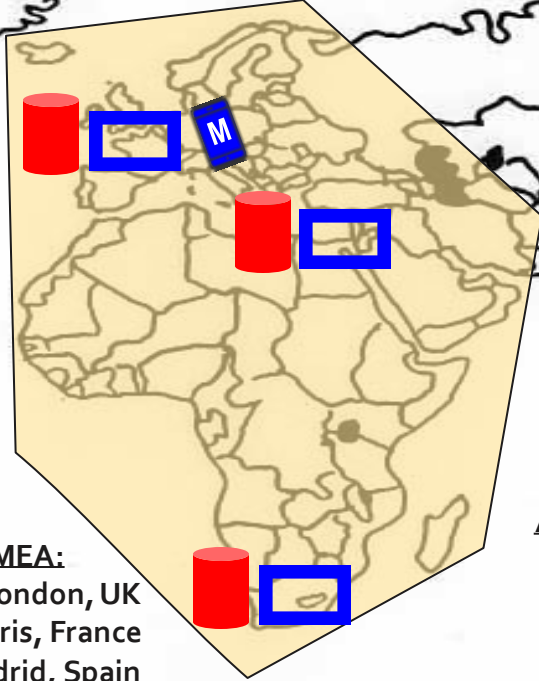


Couchbase Training - Worldwide

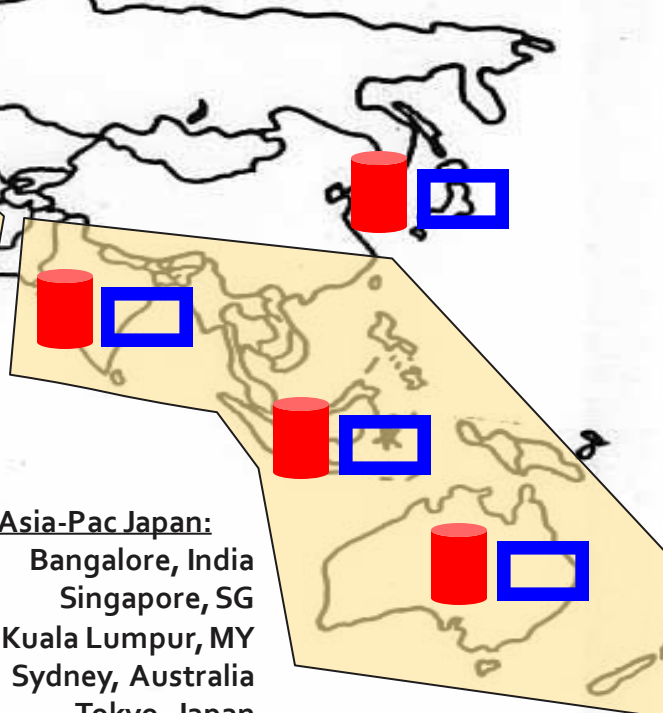
North America







EMEA



Asia-Pacific



-  CS300 System Admin
-  CD210 Dev N1QL
-  CD257 Mobile
-  Virtual Classes

EMEA:
London, UK
Paris, France
Madrid, Spain
Milan, Italy
Tel Aviv, Israel
Johannesburg SA

Asia-Pac Japan:
Bangalore, India
Singapore, SG
Kuala Lumpur, MY
Sydney, Australia
Tokyo, Japan
Hong Kong, China



Develop with Agility

CD210 Couchbase NoSQL Data Modeling, Querying, and Tuning Using N1QL

- 3-day hands-on lab intensive
- N1QL skills for application development
- Any programming or scripting language

Couchbase Certified Application Developer



Operate at Any Scale

CS300 Couchbase NoSQL Server Administration

- 3.5 day hands-on lab-intensive
- 9 nodes in AWS for each student
- Build and operate a POC in production

Couchbase Certified System Administrator

A new data management curriculum...

For the new IT workforce professional...

To help organizations manage this data explosion

Benchmarked on the best IT training methods

Available 2018



- Curriculum – hands-on, proper level for Academy audience and market
 - Data modeling, database design, data query
 - Application Developer skills
 - Systems Administration skills
- Teacher Training
- Certifications
 - **Couchbase Certified Data Professional** – entry level
 - **Couchbase Certified Application Developer**
 - **Couchbase Certified System Administrator**
- Discounts for Academy graduates
- Software license for education, research
- Support





< Thank You! >



Additional Information

The Digital Economy, explained



DIGITAL ECONOMY

disrupting every industry



GREAT WEB, MOBILE, IOT APPS

required to survive and thrive



KEY NEW REQUIREMENTS

to deliver great user experiences



APP RESPONSIVENESS



SUPPORT LARGE NUMBER
OF CONCURRENT USERS

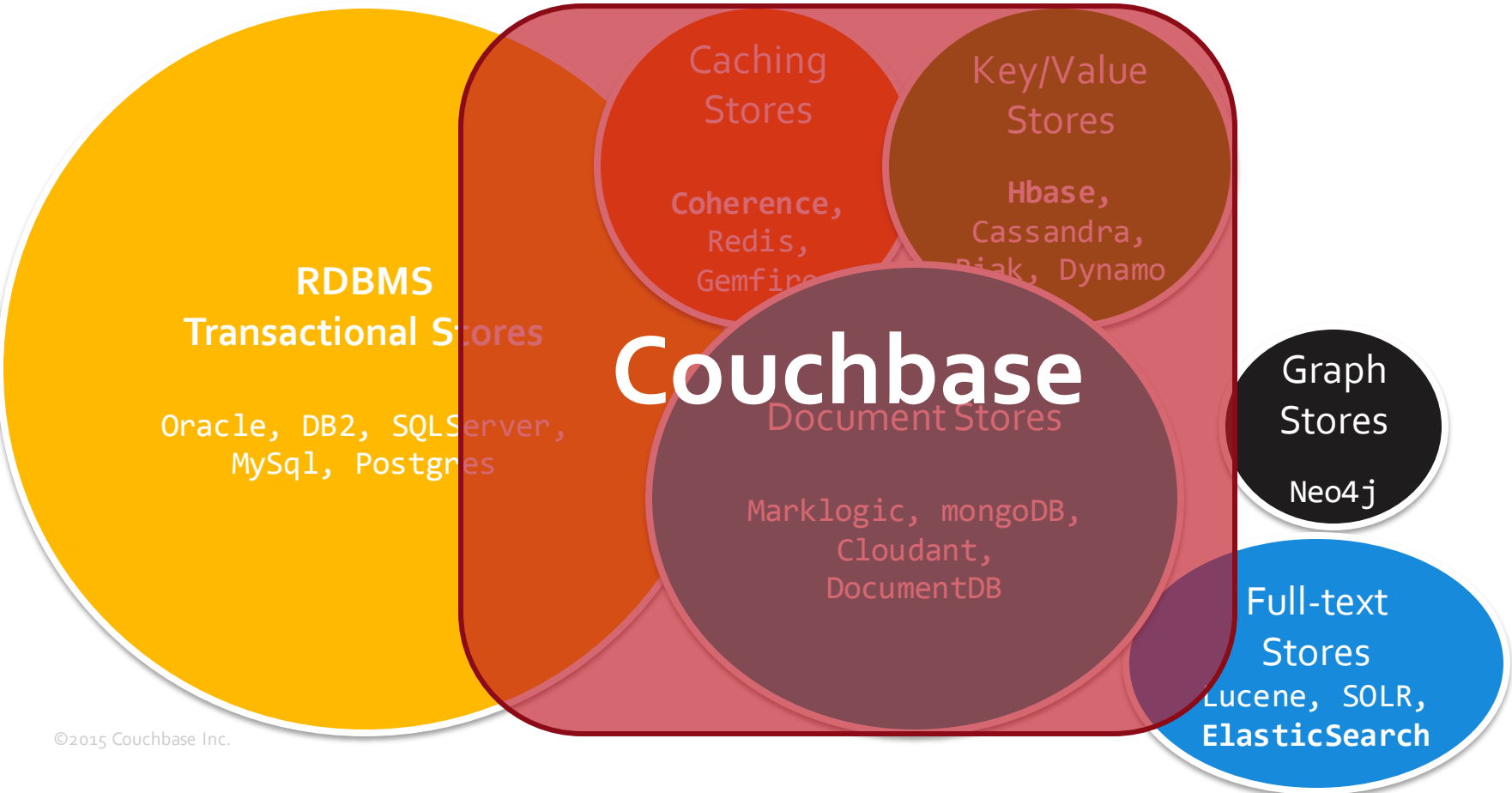


PROVIDE CONTENT-AWARE,
DATA-CENTRIC FEATURES

NOSQL MEETS REQUIREMENTS

better than relational databases

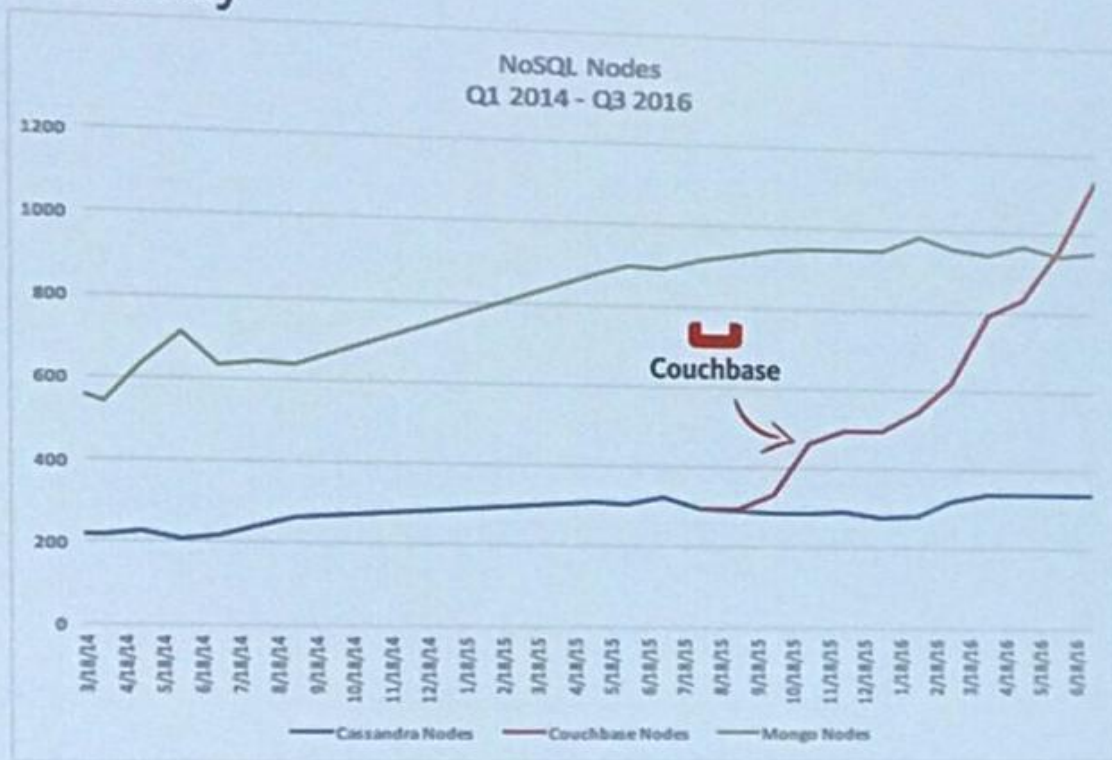




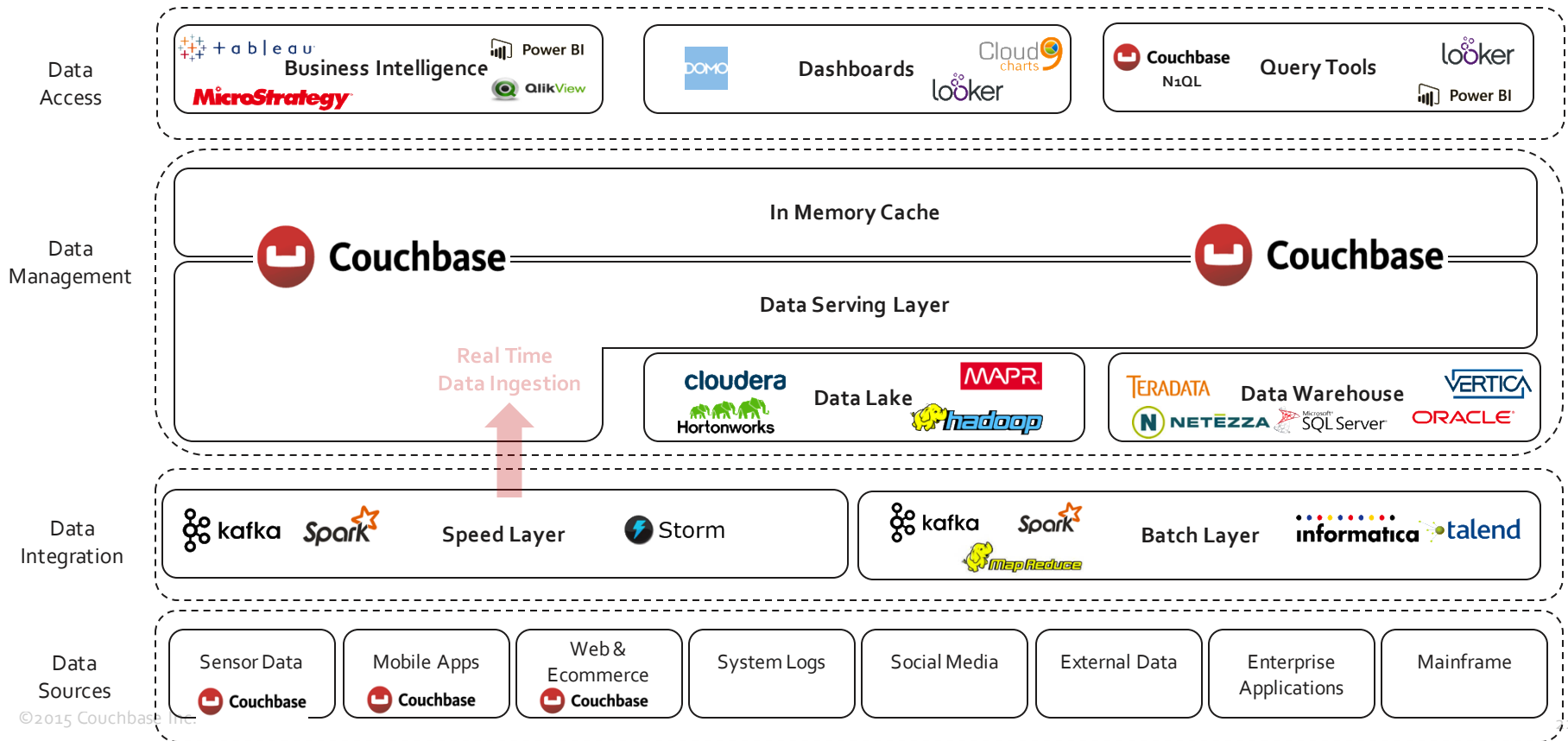
NoSQL Footprints at eBay

Besides Oracle/MySQL,
we also have

- **Cassandra**
- **Couchbase**
- **MongoDB**
- HBase
- Memcached
- Neo4j
- OpenTSDB
- Redis
- ...



Next Generation Data Management Architecture



100 Milliseconds Slower

amazon.com[®]

-1% SALES



\$660M

Google

-0.2% SEARCHES



\$45M

Walmart 

-2% CONVERSION



\$244M

The world's largest enterprises choose Couchbase for web, mobile and IoT applications



- 1 billion+ user profiles
- Replication across 7 data centers
- 740 server nodes
- 300K reads, 20K writes / sec, sustained

GANNETT

- 50M Unique monthly visitors
- 2.5B Monthly page views
- Replaced SQL Server and MongoDB



LinkedIn

- 12TB data
- 16M entries every five minutes
- 400K ops/sec. on four nodes







PayPal

- 1 billion+ documents
- 10TB+ data
- Sub-200ms response time

COUCHBASE Y PUE

PUE es partner oficial de Couchbase

- Consultoría
- Formación

Formación oficial en tecnología Couchbase		
La base de datos, redefinida.		
	Presencial	Virtual Class
Developers	 CD210 Couchbase NoSQL Data Modeling, Querying, and Tuning Using N1QL	 CD210 - VIRTUAL Couchbase NoSQL Data Modeling, Querying, and Tuning Using N1QL
	 CD220 Developing Couchbase NoSQL Applications	 CD220 - VIRTUAL Developing Couchbase NoSQL Applications
System Administrator	 CS300 Couchbase NoSQL Server Administration	 CS300 - VIRTUAL Couchbase NoSQL Server Administration

COUCHBASE Y PUE

PUE es partner oficial de Couchbase

- Economía Digital / Aplicaciones Online
- Flexibilidad
- Time to Market
- Escalabilidad
- Rendimiento
- Alta Disponibilidad
- Mobile First

¡Gracias!

¿Qué te ha parecido el workshop de Couchbase?

Sólo te pedimos 2 minutos o menos para responder 3 preguntas



pue.es/e-wcouchbase

Tu opinión nos importa. 