



# Data Science Meetup Vienna

## Introduction to Time Series

Thorsten Urban  
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# InfluxData at a glance

## FOUNDED

2013

San Francisco HQ, 173+FTE's, 57+ in technical functions

## MISSION

Deliver the best open source platform for time series data

Purpose built for time series data

## FOCUS

Real-time visibility into stacks, sensors and systems

One foundation platform to monitor and control the physical and virtual worlds

## DIFFERENCE

Purpose built, fastest time to awesome, real actions in real time

Clear leadership in the fastest growing segment of the database market

## TRACTION

~340,000 unique active deployments; 650+ customers

IBM, Cisco, PayPal, SAP, Comcast, Tesla and Siemens

## BUSINESS MODEL

Open source distribution with closed source economics

Clear and critical monetization

# Age of Instrumentation

Sensorification of the physical world

- Battery Capacity
- Cylinder wear
- Turbine speed
- Weather
- Tyre pressures
- Pulse rate
- Soil Moisture

Instrumentation of the virtual world

- K8s pod stats
- Website logins
- CPU, RAM, HDD
- Stock prices
- JMX, JTI, MBT
- MOM queue size
- CI/CD throughput

# Characteristics of the data

Time-stamped

Generated in regular (metric) and irregular (event) time periods

Huge volumes

Real time and time sensitive

# Emergence of a New Category

SQL

SEARCH

BIG DATA

TIME SERIES

Orders and  
order lines

Logs and  
web pages

Volume  
and variety

Metrics  
and events

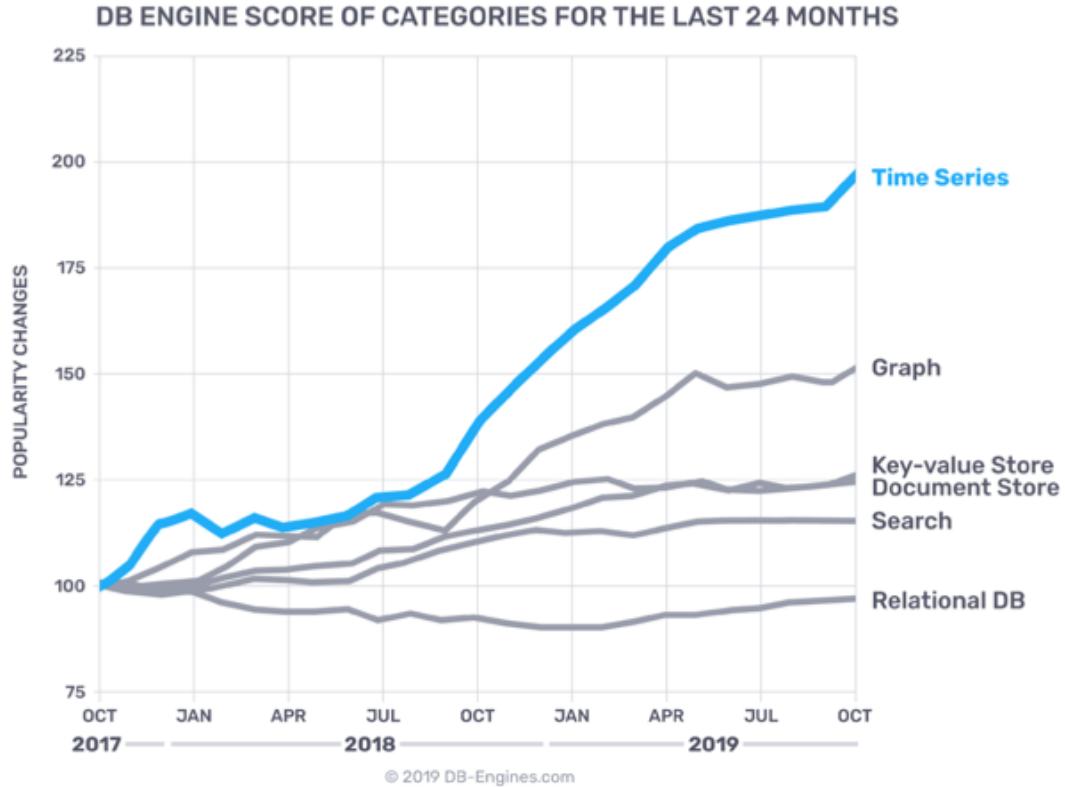
ORACLE®

splunk>

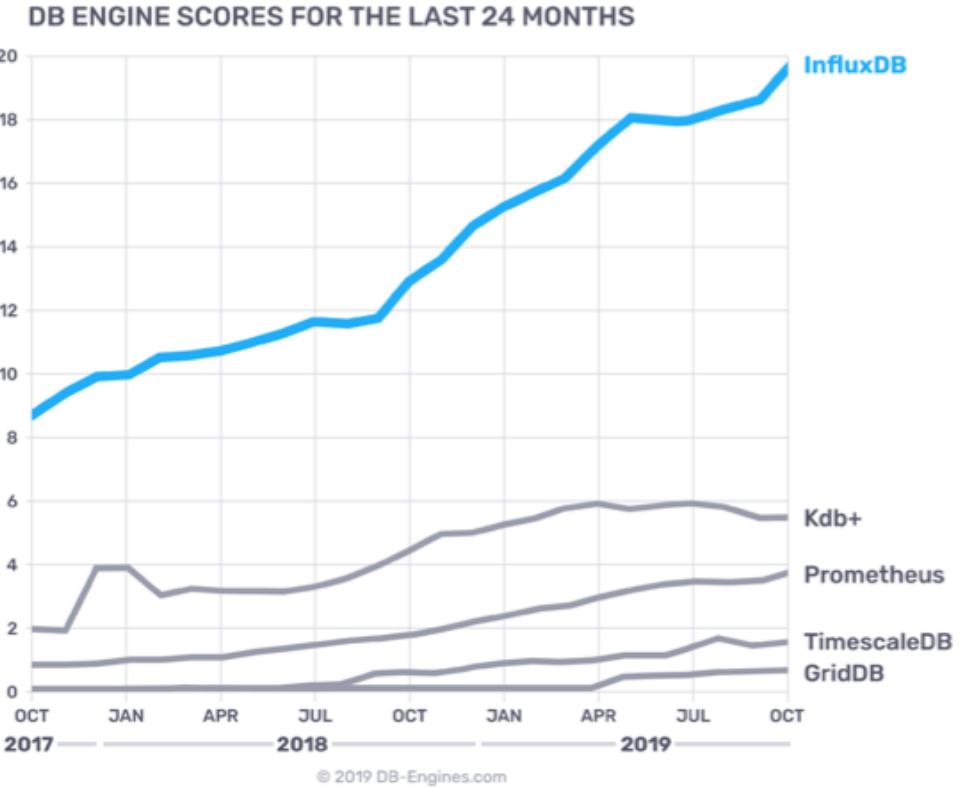
 hadoop

 influxdata®

# Time Series and InfluxDB

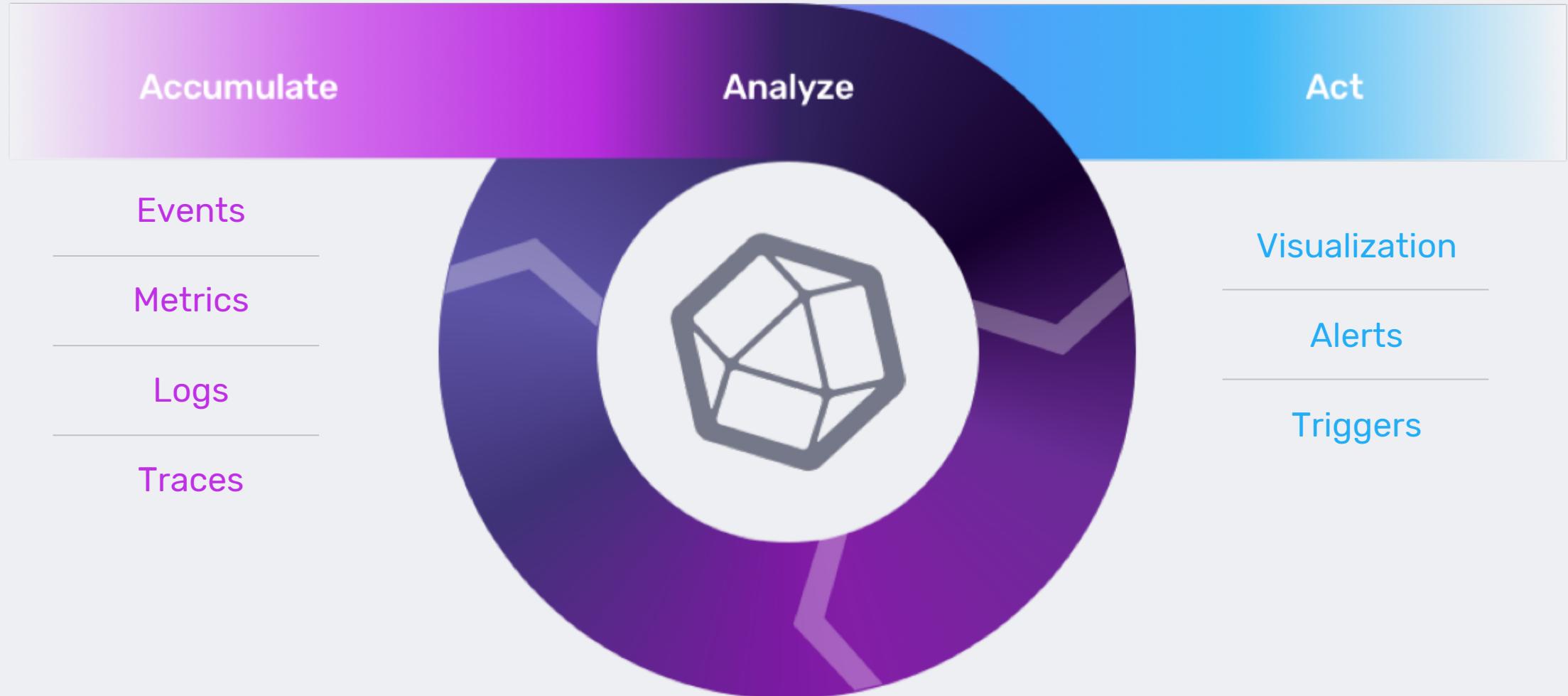


Time series – fastest growing category



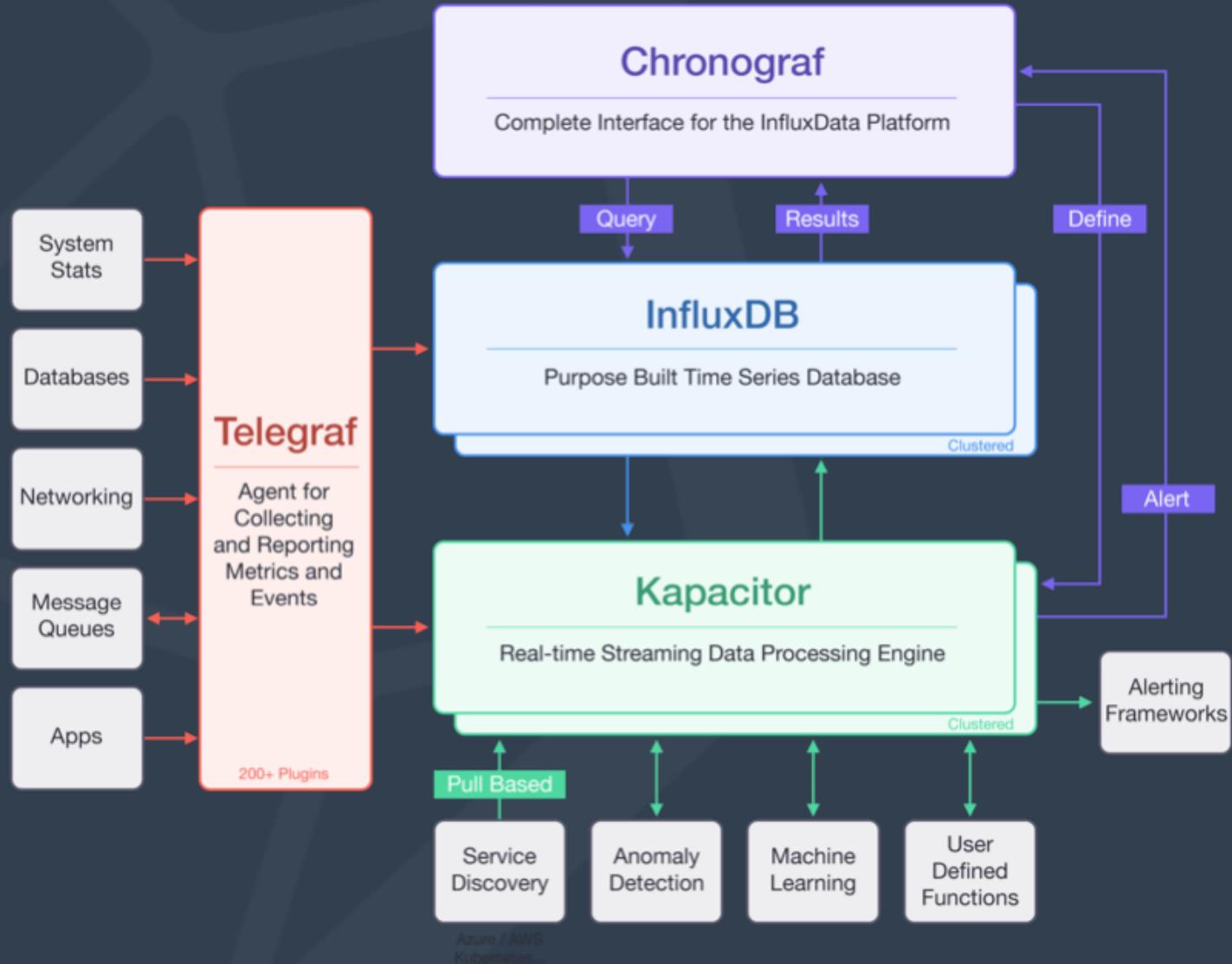
InfluxDB – leading time series database

# Time Series is the Platform for All Metrics and Event Workloads





# InfluxData Project Architecture



# Open Source or Enterprise software?

How valuable has  
your data become?

Executive dashboard  
Customer access  
Preventative maintenance  
When to invest

# InfluxDB 2.0 Offerings

## InfluxDB 2.0 (Open Source)

Single Binary

## InfluxDB Cloud 2.0 (AWS, GCS, Azure)

Free Forever

\$ Pay Per Use

\$ Packaged Offerings

\$ Dedicated Instance

## InfluxDB Enterprise 2.0 (On-premise/Own compute)

\$ Node Based

\$ Cloud Native

Common API

# Market Needs

```
315
316 annotations: '<click> status until first pale yellow button' +
317 annotations: '',
318
319 // Keyboard keys
320 onKeyboardKeys = (k) => {
321   var m = navigator.userAgent.match(/msie/i);
322
323   if (m) {
324     if (k.keyCode === 13) {
325       if (k.shiftKey) {
326         this.keyboard('down');
327       } else {
328         this.keyboard('enter');
329       }
330     }
331   }
332
333 render() {
334   return (
335     <div>{
336       <button>{this.state.value}
337     </div>
338   );
339 }
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```

Desire for full-stack monitoring

“Metrics first” approach

From monitoring to observability

# Thank You



***influxdata***<sup>®</sup>  
*Act in Time*

Thorsten  
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