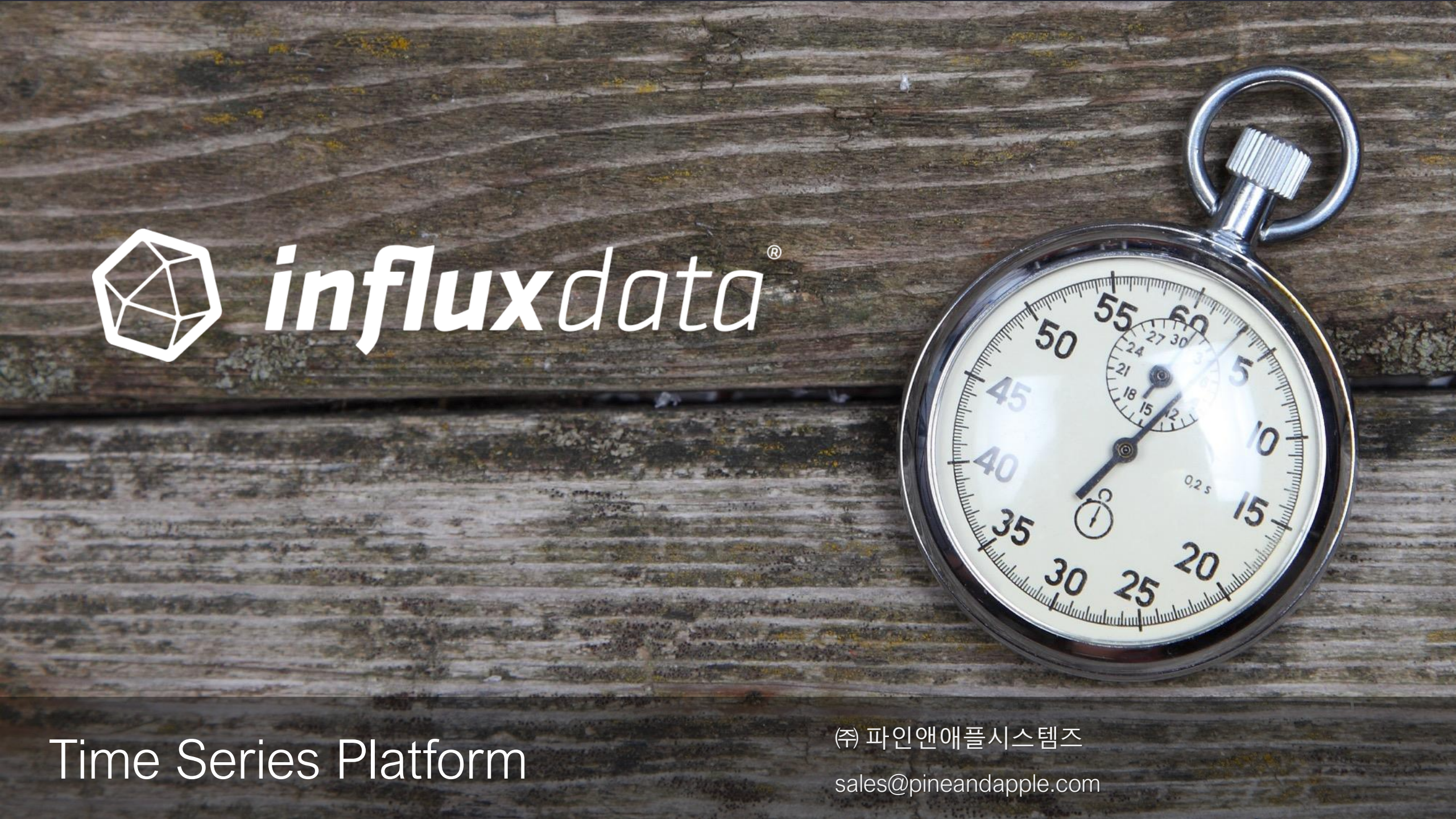
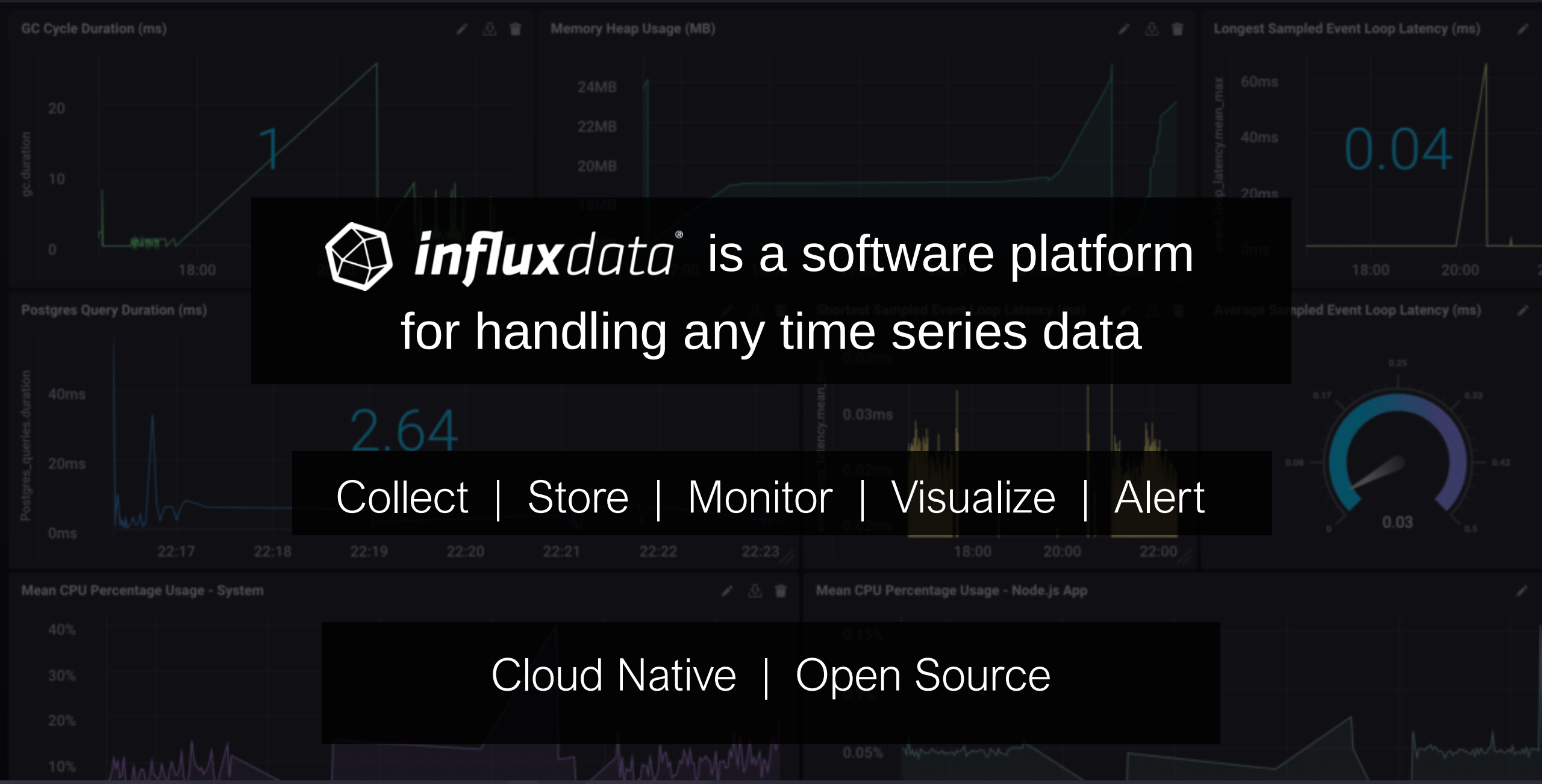


㈜ 파인앤애플시스템즈
sales@pineandapple.com



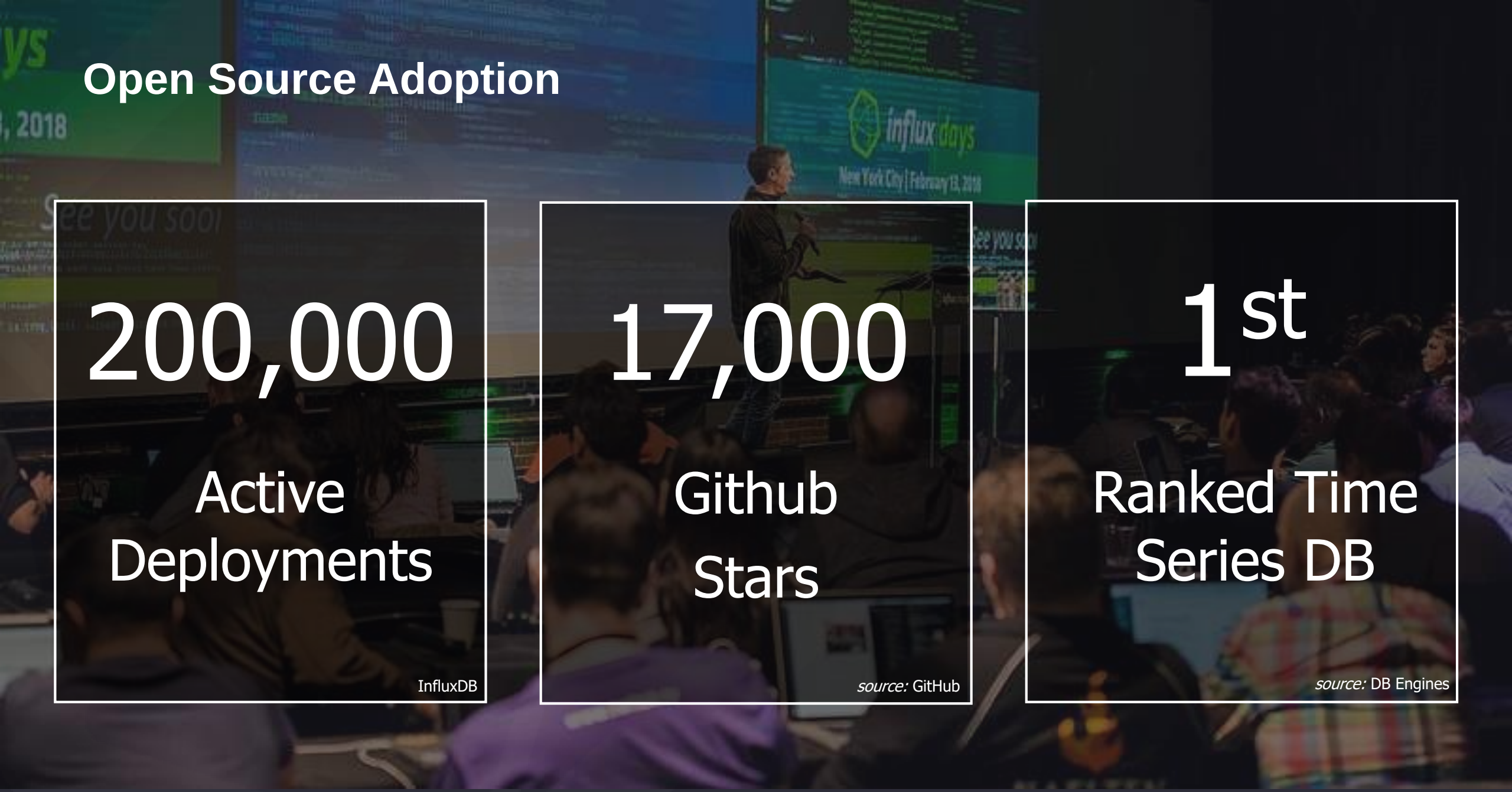
influxdata® is a software platform for handling any time series data

Collect | Store | Monitor | Visualize | Alert

Cloud Native | Open Source

influxdata

Open Source Adoption



200,000

Active Deployments

InfluxDB

17,000

Github Stars

source: GitHub

1st

Ranked Time Series DB

source: DB Engines

influxdata

Commercial Adoption

500+

Customers

influxdata

What is it?

time series data

a series of data points indexed (or listed or graphed) in successive, chronological order

Attributes

- Regular; occur in fixed intervals
- Irregular, occur randomly or by event

What makes it unique?

time series data

- Very fast ingestion of data
- Equally fast eviction of data
- High precision data for short term
- Low precision data for long term
- Continuous computation for high precision data
- Query patterns vary vastly by workload

Use Cases

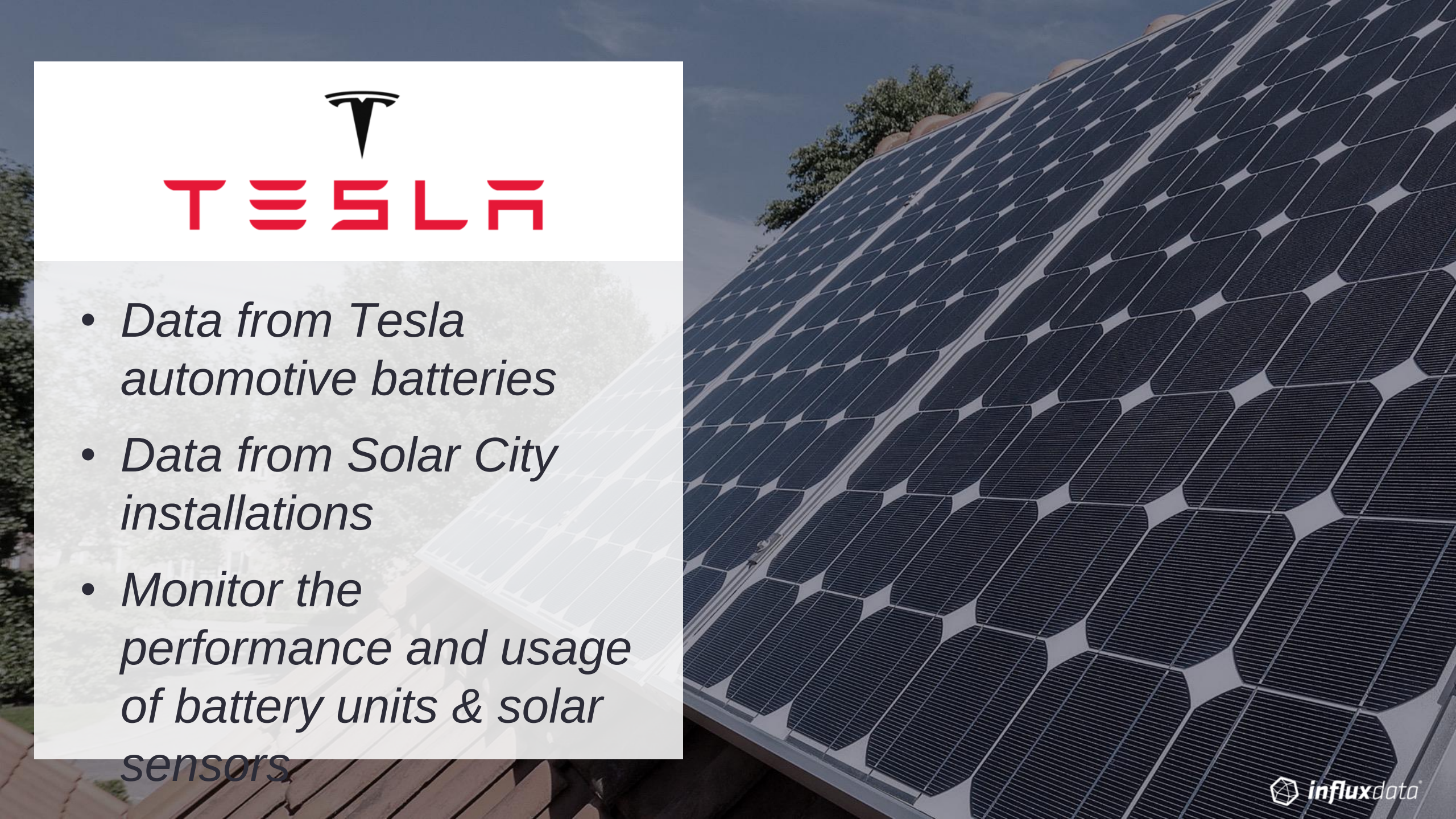
IoT devices & sensors

Cloud applications & infrastructure

Real-time transactions & analytics

NORDSTROM

- *Data from Nordstrom retail website*
- *Applications & cloud infrastructure*
- *Metrics from transactions & performance*



- *Data from Tesla automotive batteries*
- *Data from Solar City installations*
- *Monitor the performance and usage of battery units & solar sensors*

- *Data from infrastructure behind wind & gas turbines*
- *Monitor health, usage and performance of turbines*
- *Metrics via SaaS*

Why is this happening now?

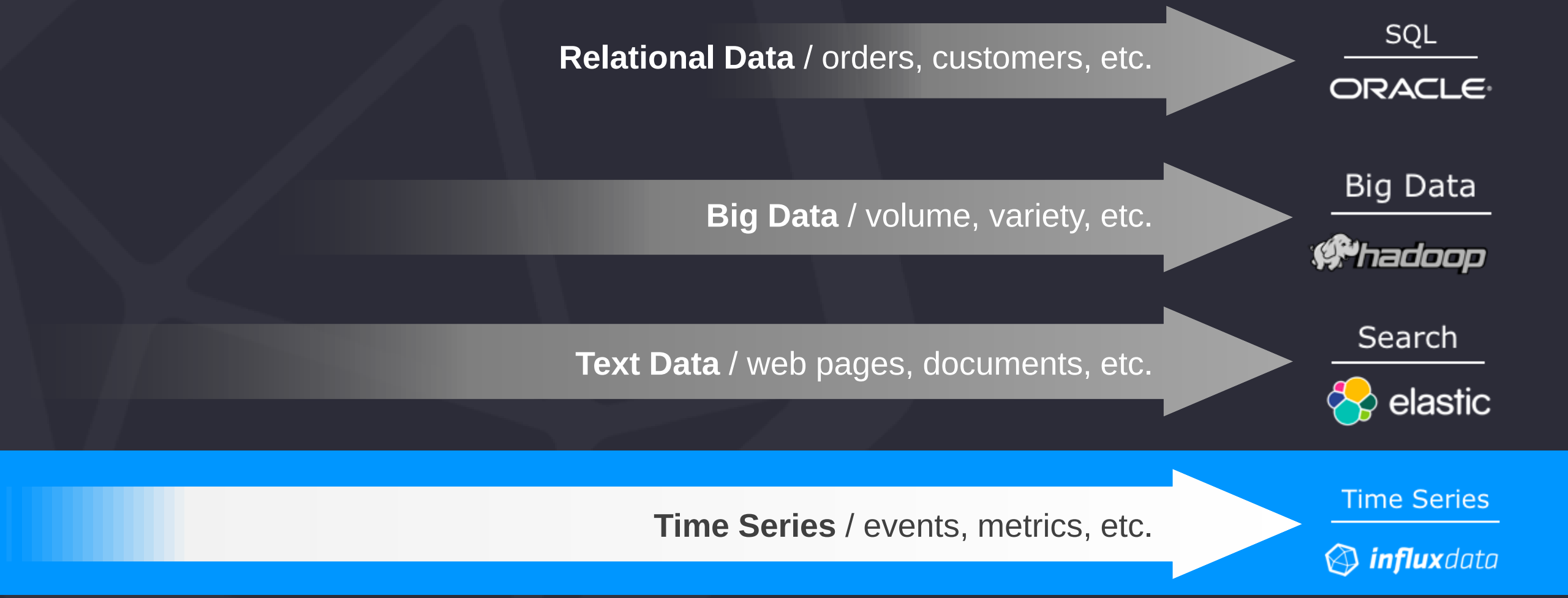
Macro trends

Massive growth of connected devices & cloud scale

Explosion of events & metrics is constant

Legacy platforms & tools are not equipped

Emergence of a new category



influxdata

Background

2013

- Y-Combinator
- Monitoring & anomaly detection
- SaaS model

2014

- Series A funding
- First commit on InfluxDB
- Open source model

2016

- Series B funding
- Completion of TICK stack
- Launch InfluxEnterprise

Today

2019

- Series D funding
- 150 employees
- Product & market expansion

Investment

Open Source

telegraf ***influxdb*** ***chronograf*** ***kapacitor***

Commercial

Influxdb *enterprise* ***Influxdb*** *cloud*

influxdata

The InfluxData Approach

1. Purpose built for time series data
2. Committed to open source
3. Focus on the developer first

Purpose built for time series data

Written in Go

- Modern
- Easy to learn
- Static binaries

Specialized Tools

- Filter input
- Shape visually
- Tune output

Platform Approach

- Operate at API & DB level
- Not packaged SaaS

Committed to open source

Four Projects

- T *telegraf*
- I *influxdb*
- C *chronograf*
- K *kapacitor*

Open Interfaces

InfluxQL

TICK Script

FLUX

Dashboards

Community Leadership

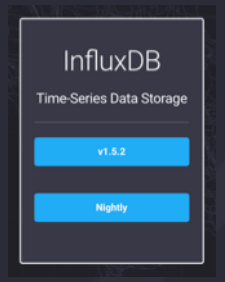
CLOUD NATIVE COMPUTING FOUNDATION

CLOUD FOUNDRY

eclipse

influxdata

Focus on the developer first



Full Product in Open Source

- Same features as Enterprise
- Easy path from dev to prod

Self-Service Experience

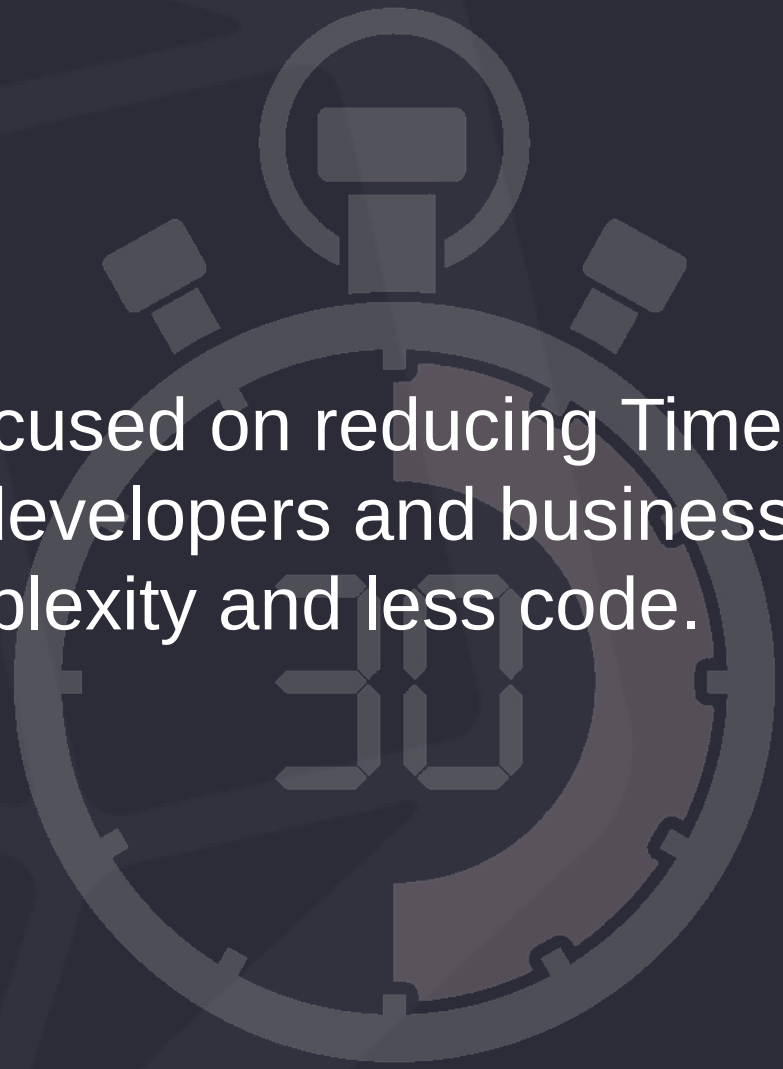
- Software, Docs, Tutorials are public
- No gates, no need to talk to a human

Time to Awesome

- Measure ourselves against time
- Dual product & ecosystem effort

influxdata

Time to Awesome™



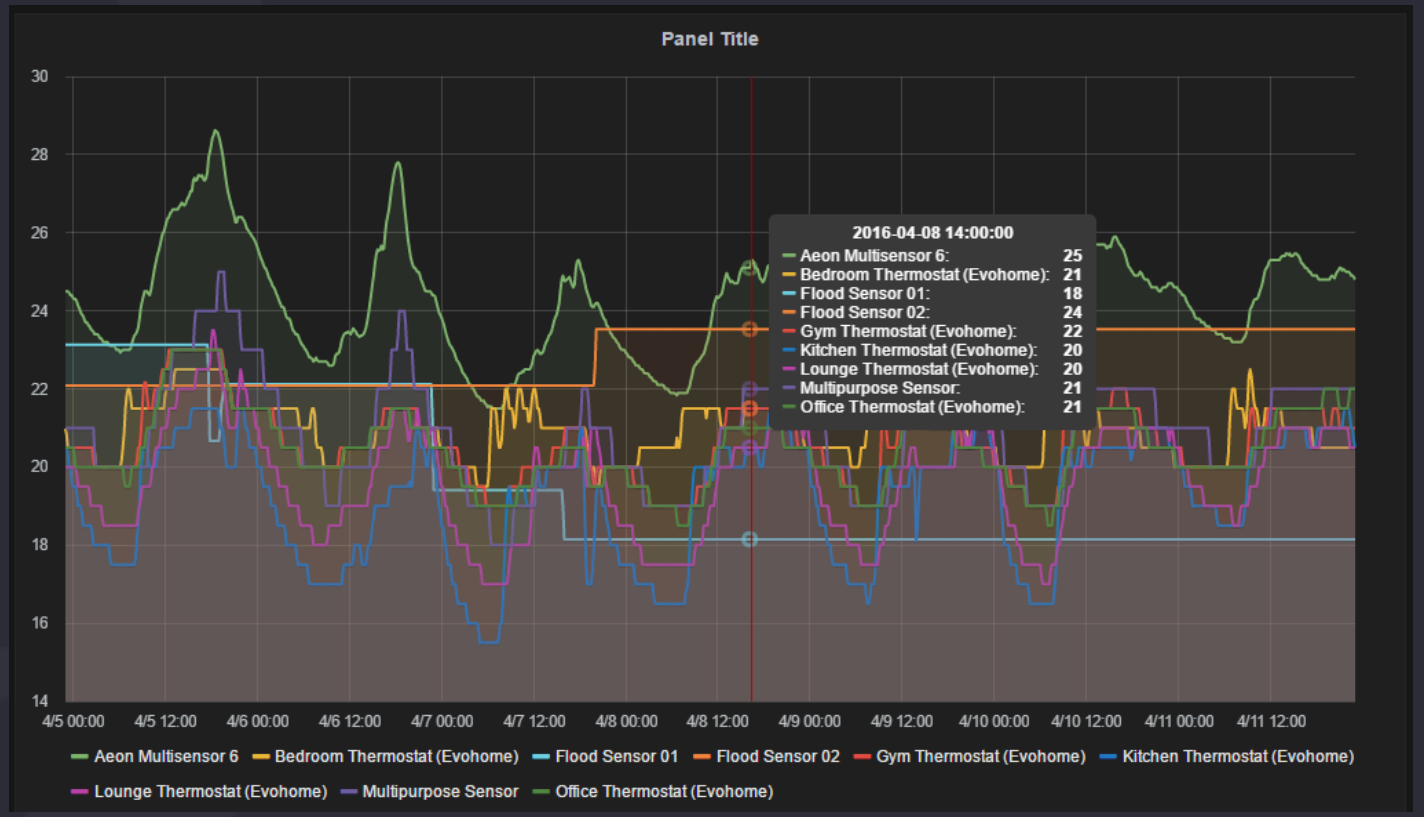
We are singularly focused on reducing Time to Awesome™. We care about helping developers and businesses get to results faster with less complexity and less code.

*Paul Dix, Co-Founder & CTO

IoT data *is* time series data

Readings are time stamped

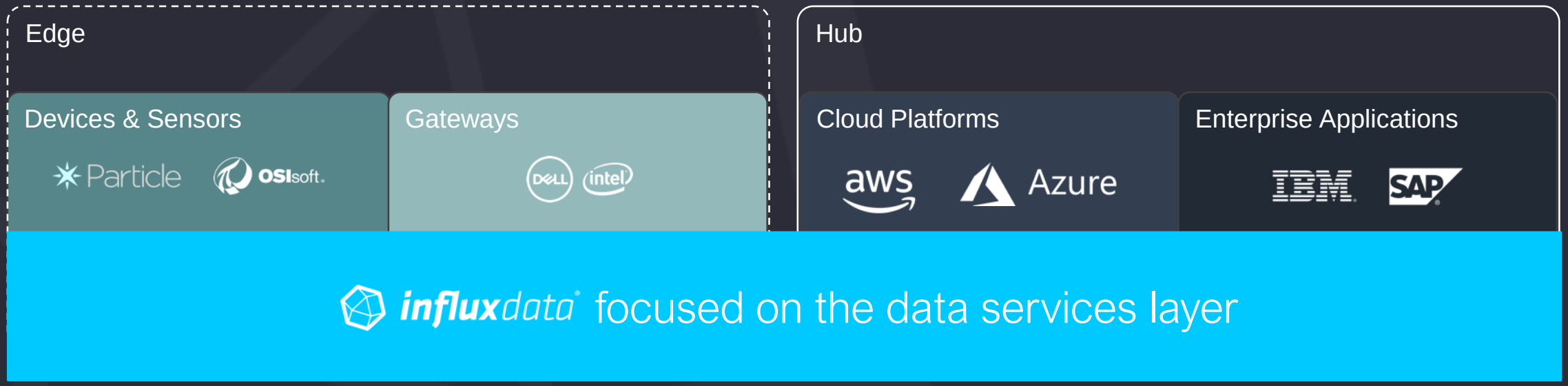
```
node 3124

Last update 2018-03-21 07:34:00:23
Altitude: 28.0
Speed: 10 Km/h
Course: 250
Odometer:254 Km/h
CO: 0.70 mg/m3
Particles: 0.01 mg/m3
Ozone +NO2: 92.00 ug/m3
Temperature: 7.20° C
```



- Show change over time
- Improve efficiency; optimize
- Energy, health, materials, production, operation

influxdata

Data Layer for IoT



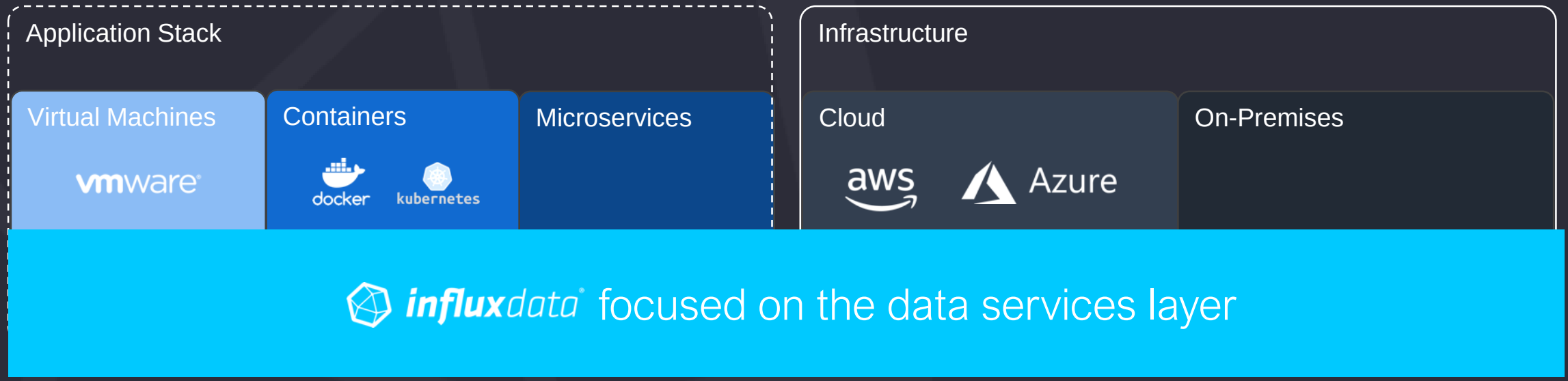
Collect

- Telegraf
- Open Source TICK
- 3rd party integrations

Act

- InfluxCloud
- InfluxEnterprise
- Kapacitor

Data Layer for App Stack & Infrastructure



Collect

- Telegraf
- Container Images
- Open source outputs

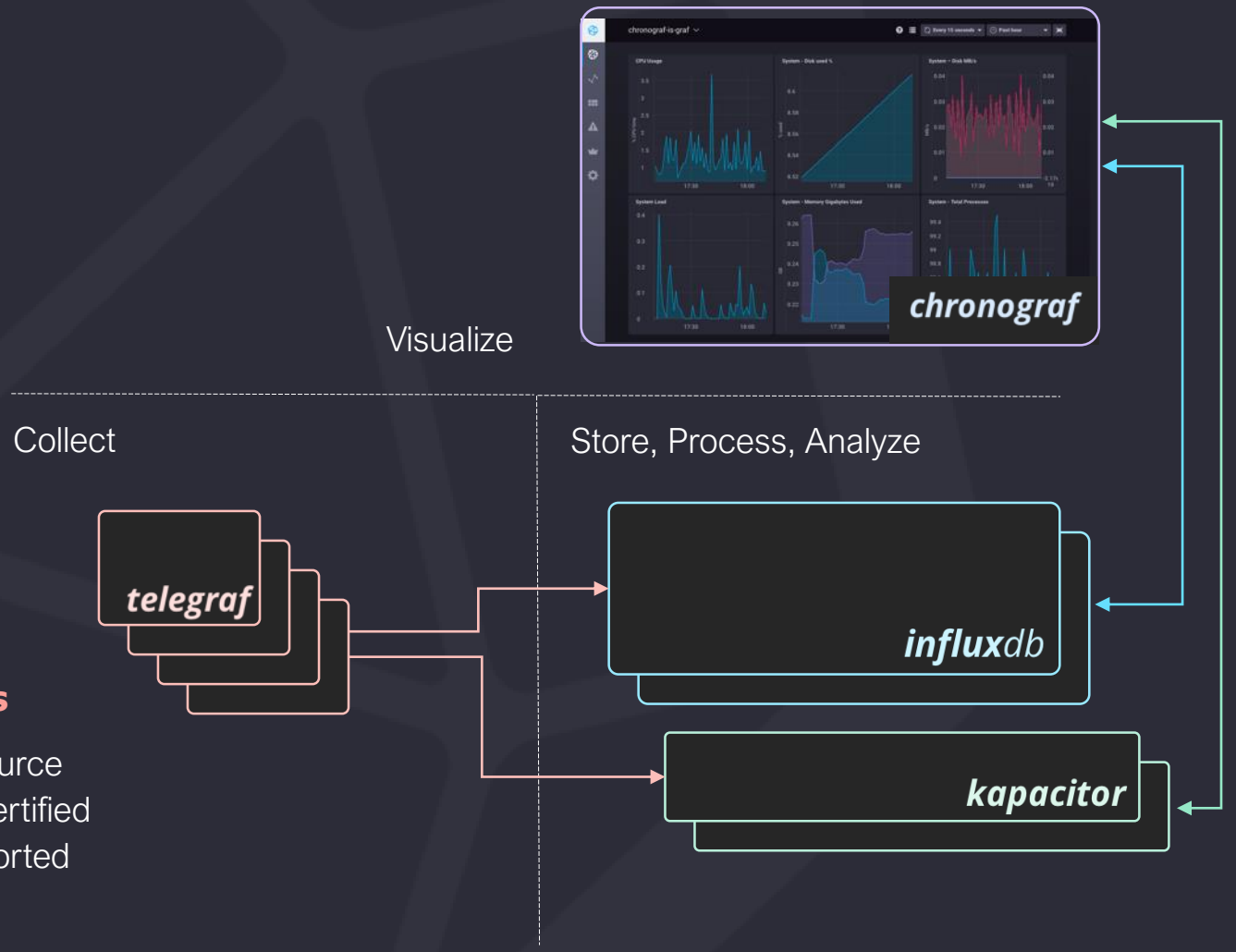
Act

- InfluxCloud
- InfluxEnterprise
- Kapacitor

influxdata

Open Source

Platform Architecture



130+

Telegraf Plugins

- 110 Open Source
- 15 Partner Certified
- 5 Influx Supported

30+

Chronograf Templates

- 22 pre-created dashboards
- 8 visualization types

25+

InfluxDB Inputs

- 16 client libraries
- 2 query languages
- 7 write protocols

20+

Kapacitor Event Integrations

- 20 Open Source
- 5 Partner Certified

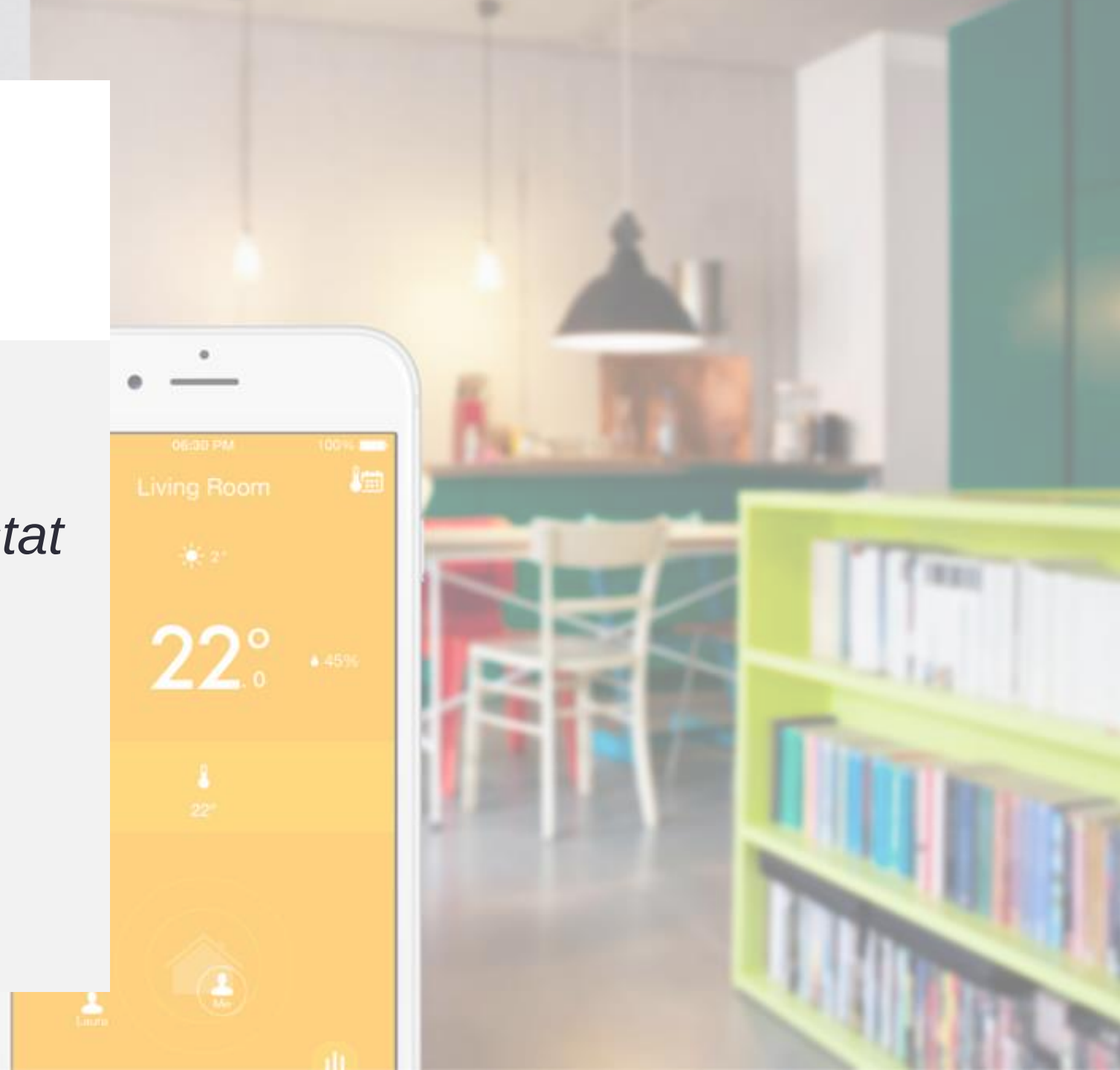
influxdata


Thank you
influxdata®

Customers

tado°

- *Smart AC control & data*
- *Collect & analyze thermostat data in energy efficient home*
- *InfluxData for collection & analysis in SaaS & mobile app*

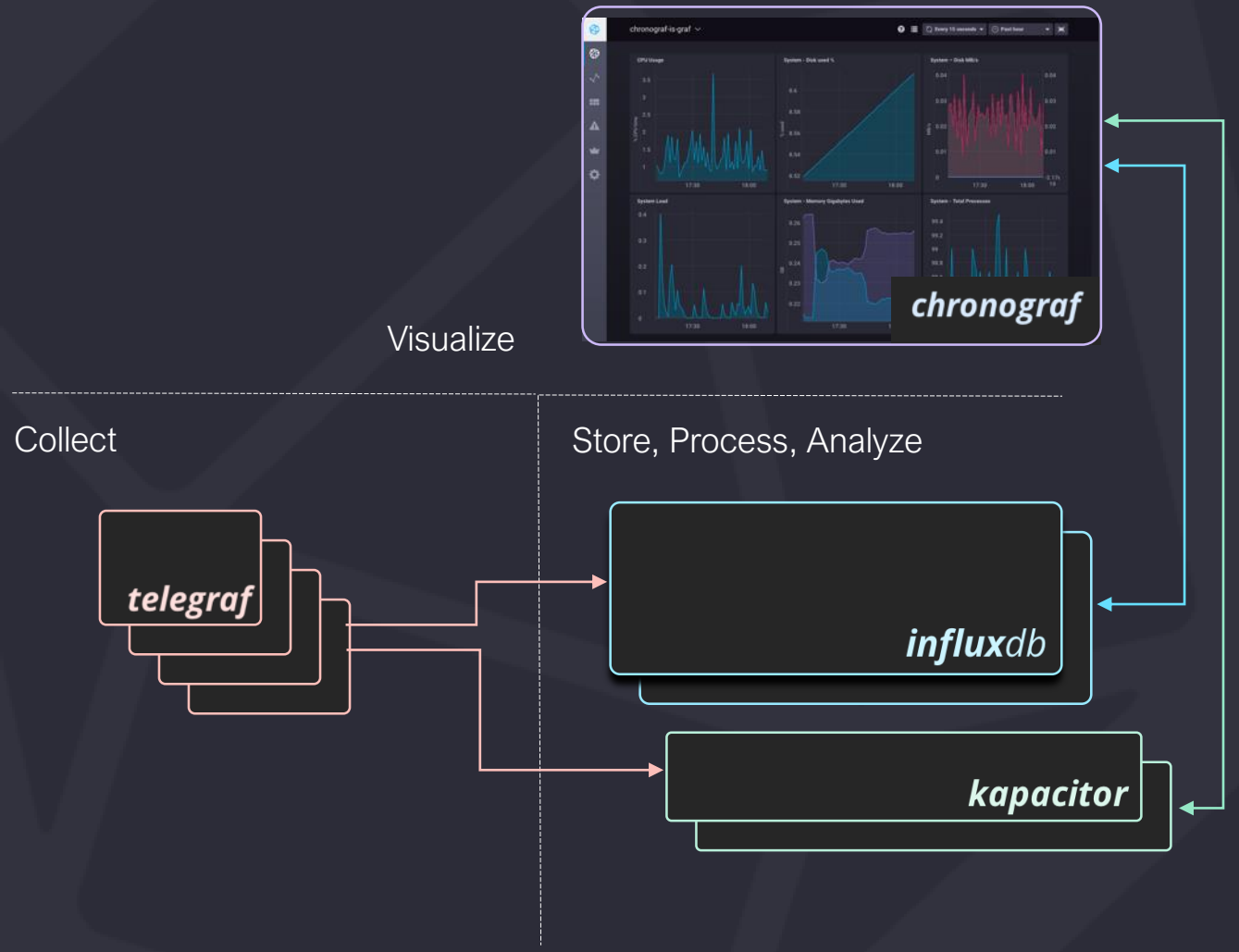


- *Green wall irrigation system*
- *Monitor plant data for automated remote irrigation*
- *InfluxData to store tagged data, incl. location, type*
- *Detect events, visualize, alert*

BBOXX

- *Distributed solar installations*
- *85,000 solar units in 35 countries*
- *InfluxData to analyze usage patterns & detect customer usage trends*

Telegraf



Collection agent for metrics & events

Plugin-driven server agent for collecting data & reporting metrics

Pull metrics directly from system it's running or via 3rd party APIs

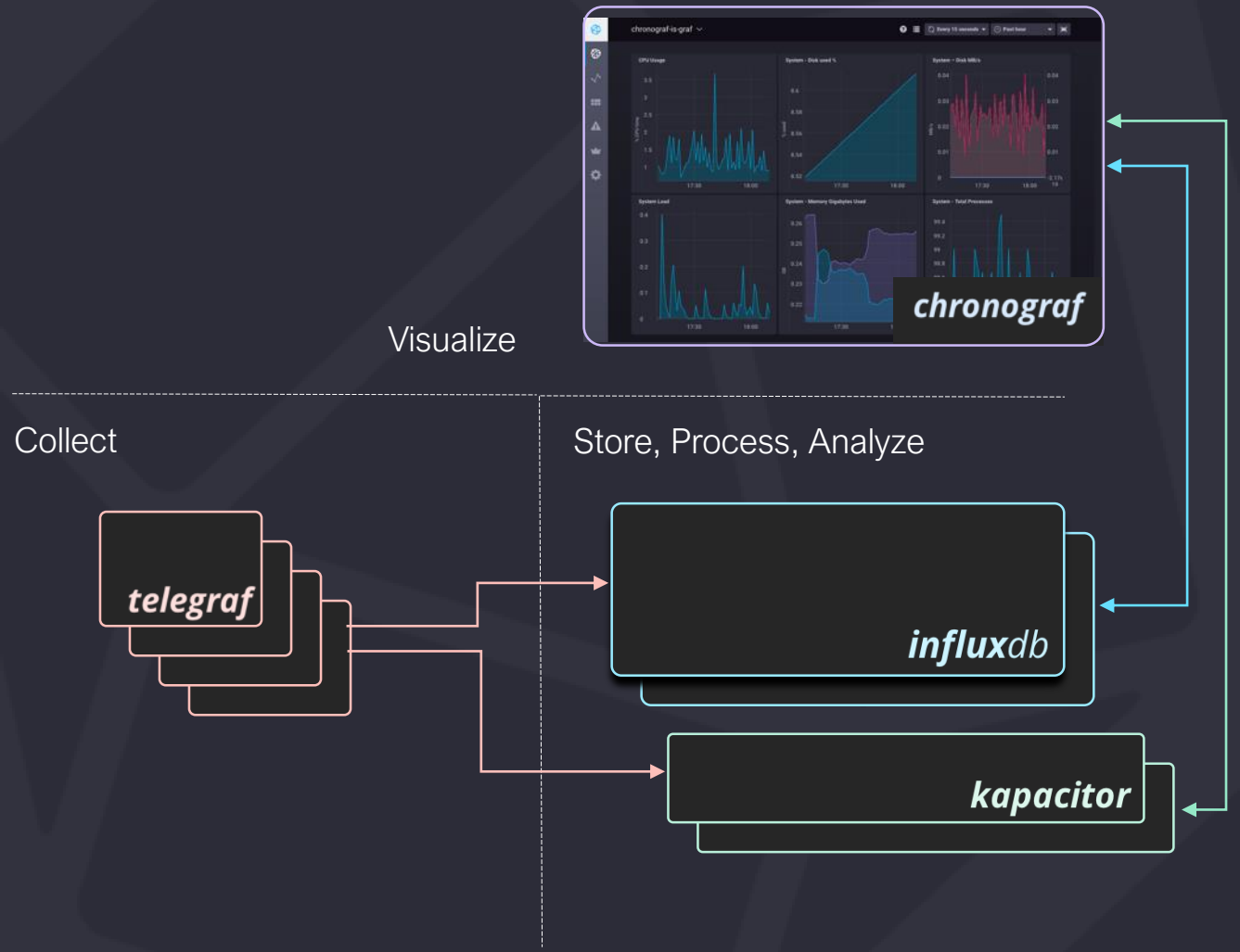
Output plugins to send metrics to other data stores, services, message queues

Telegraf Plugins / 130+

Apache	HTTP Response	RabbitMQ
Bcache	HTTP JSON	Redis
Cassandra	Memcached	RethinkDB
Cloudwatch	Mesos	Riak
Consul	MongoDB	Zookeeper
Couchbase	MySQL	AMQP
Disque	NGINX	MQTT
Docker	NSQ	Graphite
Eleasticsearch	PHP FPM	Kinesis
Flutentd	Postgres	NSQ
Haproxy	Prometheus	Kafka
	Salesforce	Graylog

influxdata

InfluxDB



Purpose-built time series database

Time series DB to handle high write & query loads

Conserve space on machine by configuring:

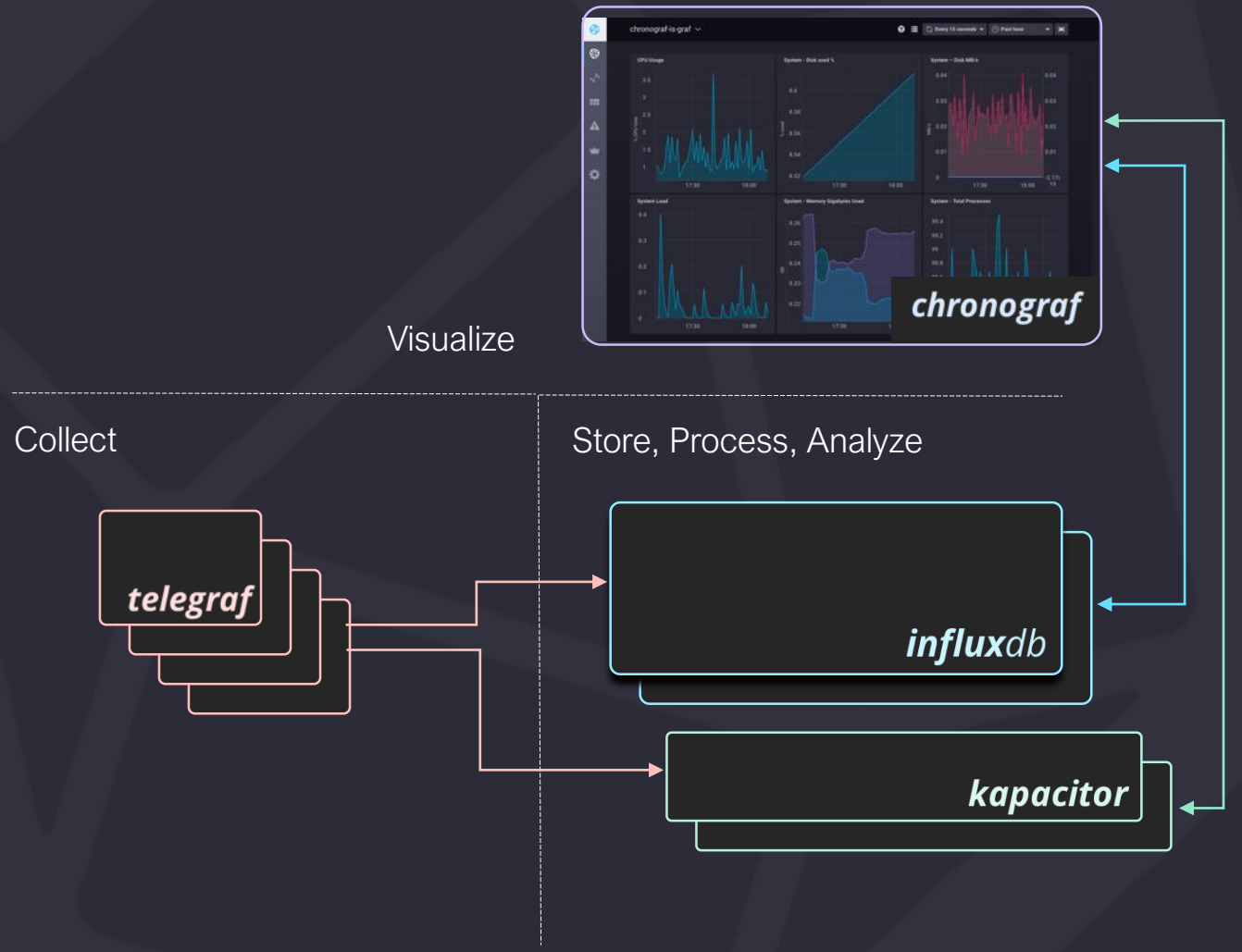
- Retention policy, expiration, cold storage

Multiple query languages for data interaction:

- InfluxQL for SQL-like queries
- FLUX for broad, higher level language

influxdata

Kapacitor



Real-time streaming data processing engine

Native processing engine

Processes both stream and batch data from InfluxDB

Plug-in custom logic or user-defined functions

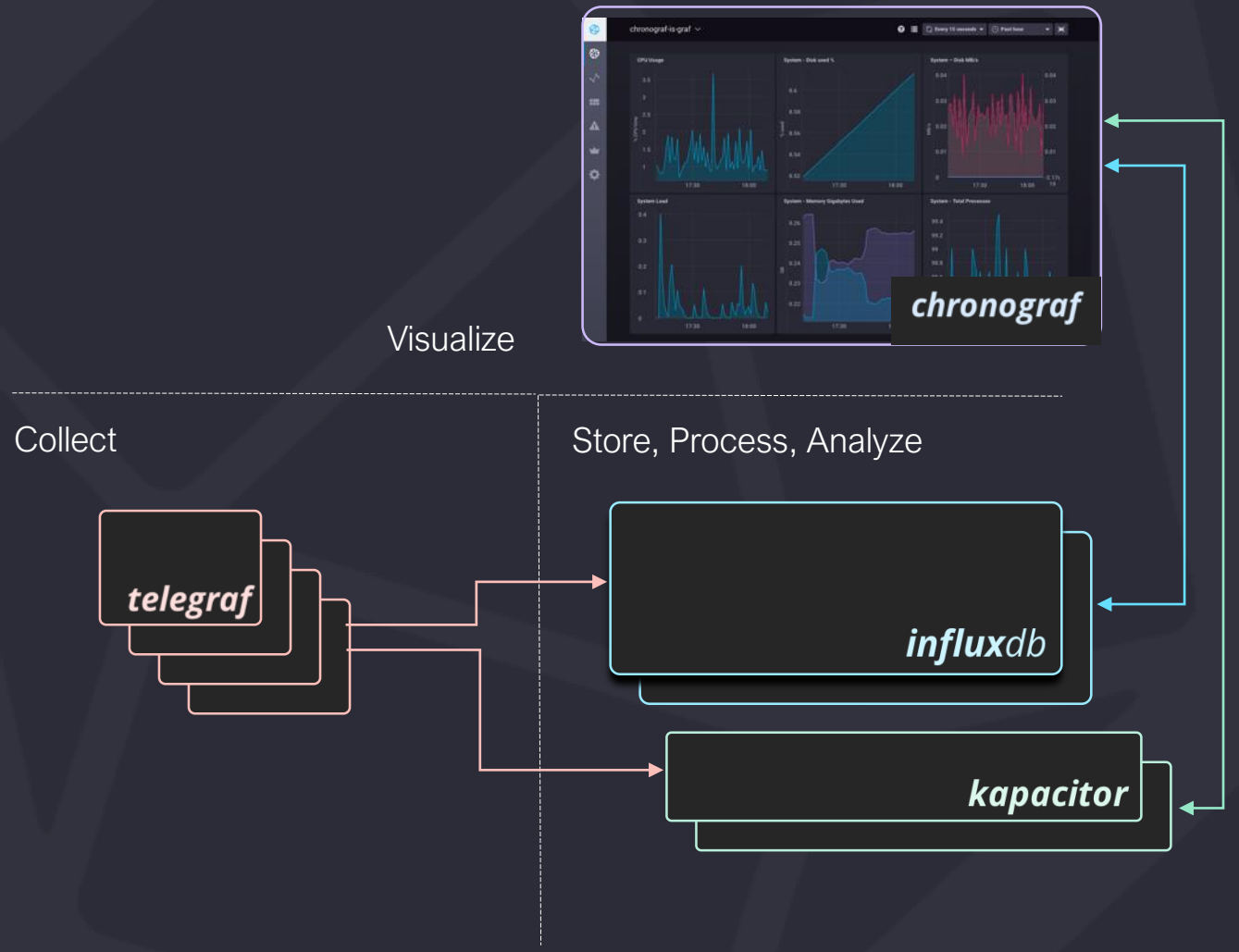
Process alerts with dynamic thresholds

Perform specific actions based on alerts

Output integrations for PagerDuty, VictorOps, Slack, HipChat, Twilio, etc.

influxdata

Chronograf



User Interface for InfluxData platform

Native processing engine

Processes both stream and batch data from InfluxDB

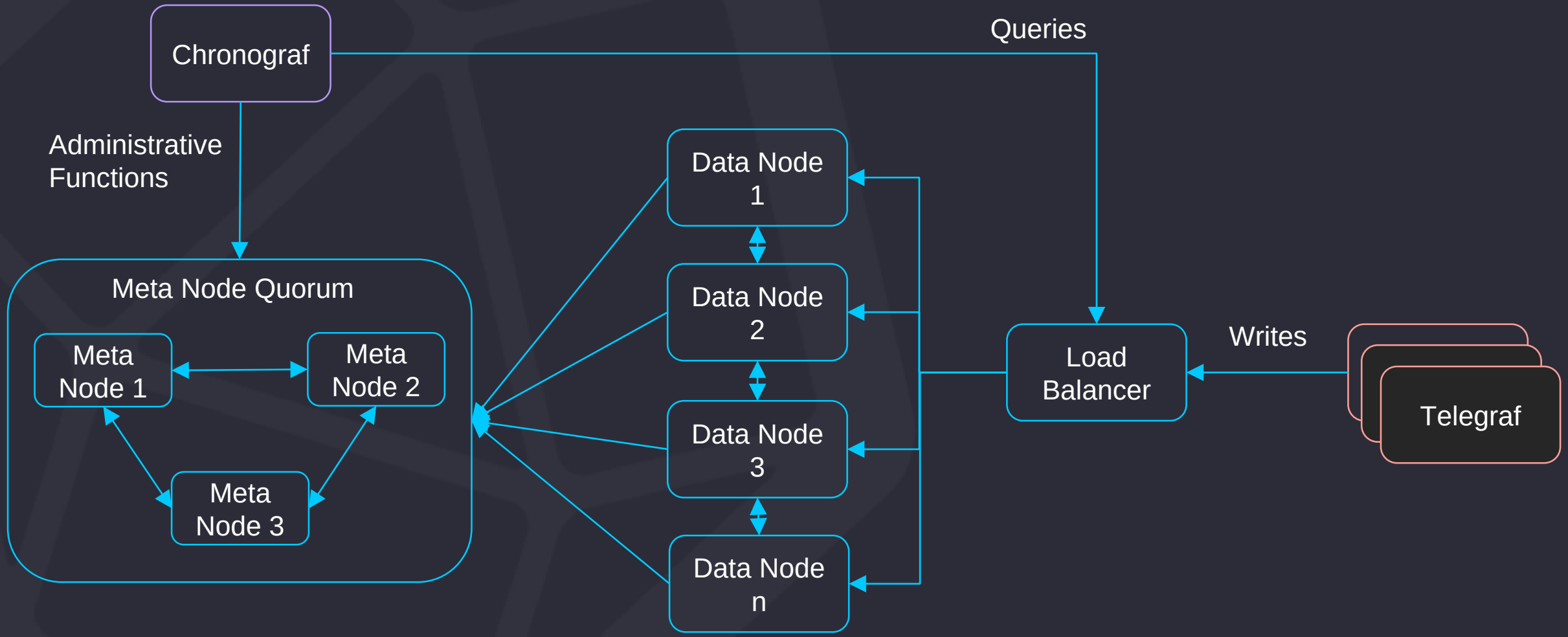
Plug-in custom logic or user-defined functions

Process alerts with dyanmic thresholds

Perform specific actions based on alerts

influxdata

InfluxEnterprise / Clustered Architecture for HA



influxdata