



The Open Source Analytic Universe: Data and Anecdota

Robert Hodges
OSA Con 2021 Keynote



Robert Hodges - Altinity CEO

30+ years on DBMS plus virtualization and security. Working with analytic databases since 2013

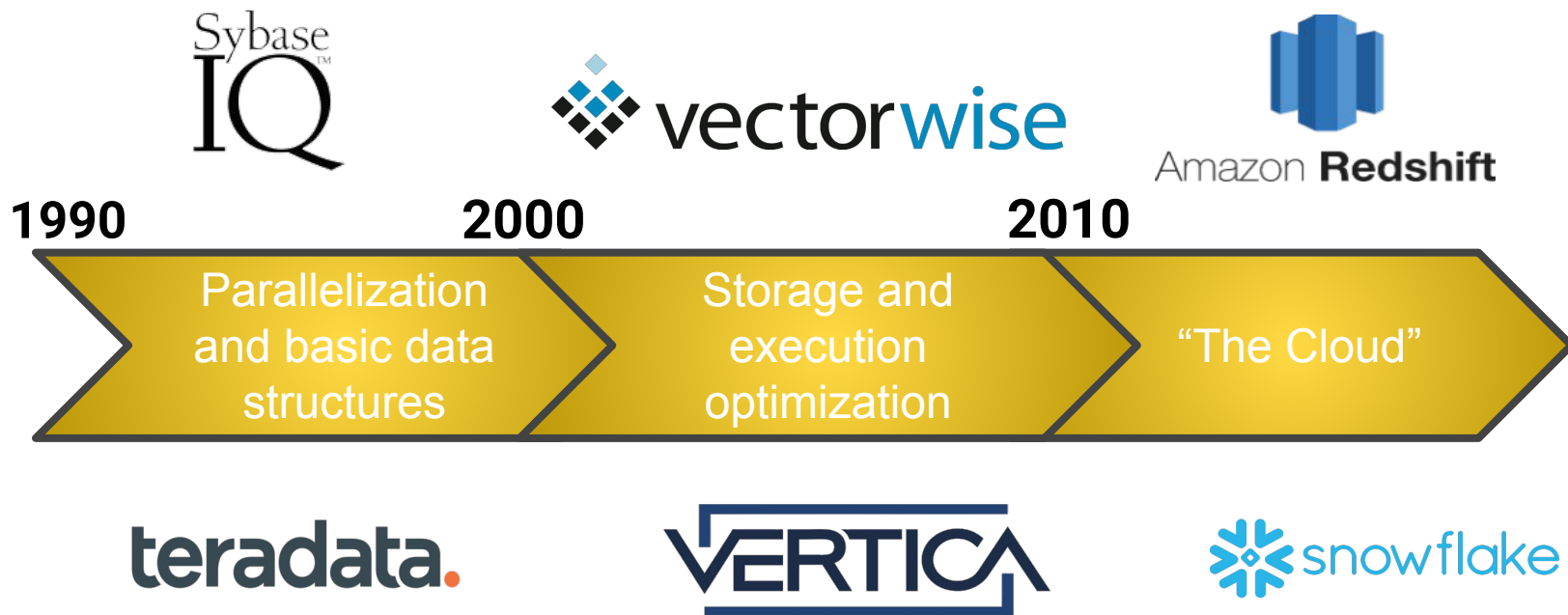
altinity.com



Altinity

Enterprise provider for ClickHouse, a popular, open source data warehouse. We run Altinity.Cloud, the first managed ClickHouse in AWS and GCP

A short history of data warehouse evolution



The next phase has new data and new requirements

Weblogs

Service
logs

Millions of events per second

Online ad
bids

Market
trading
data

Trillions of stored events

Sub-second query response

System
monitoring

Network
telemetry

...Which favor a new breed of open source database

Weblogs

Online ad
bids

System
monitoring



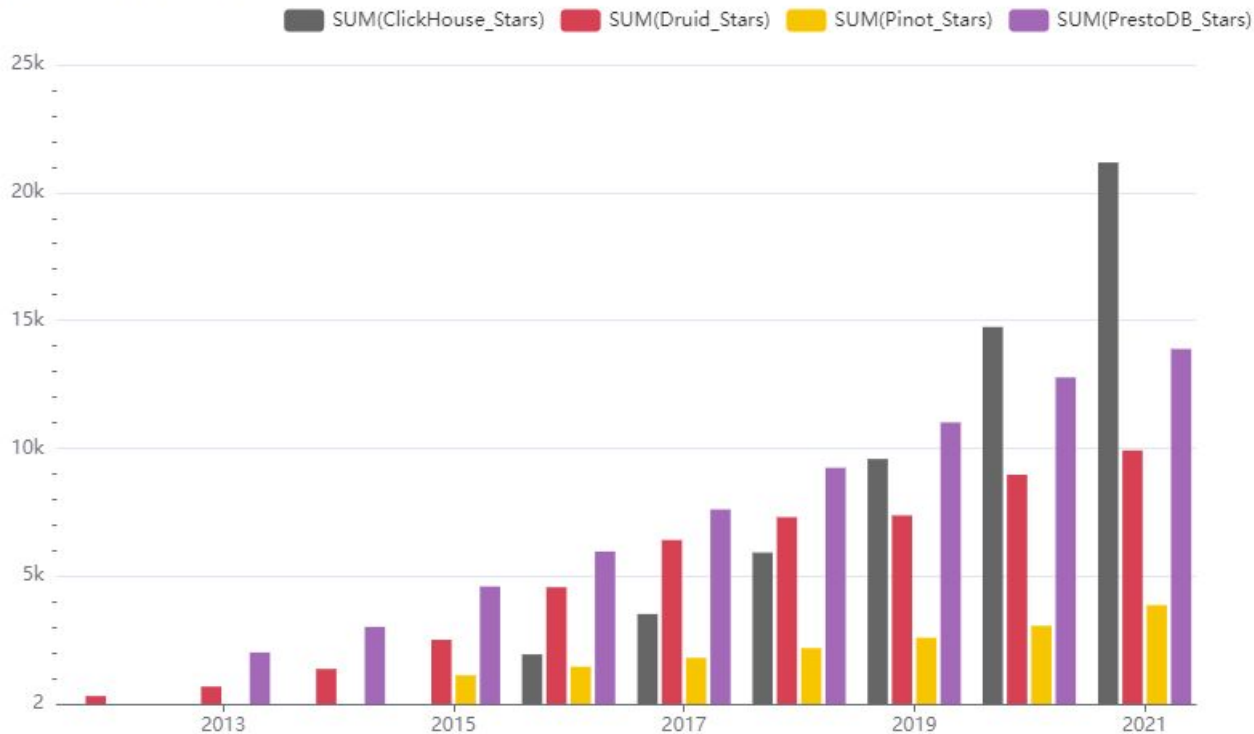
Service
logs

Market
trading
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Network
telemetry

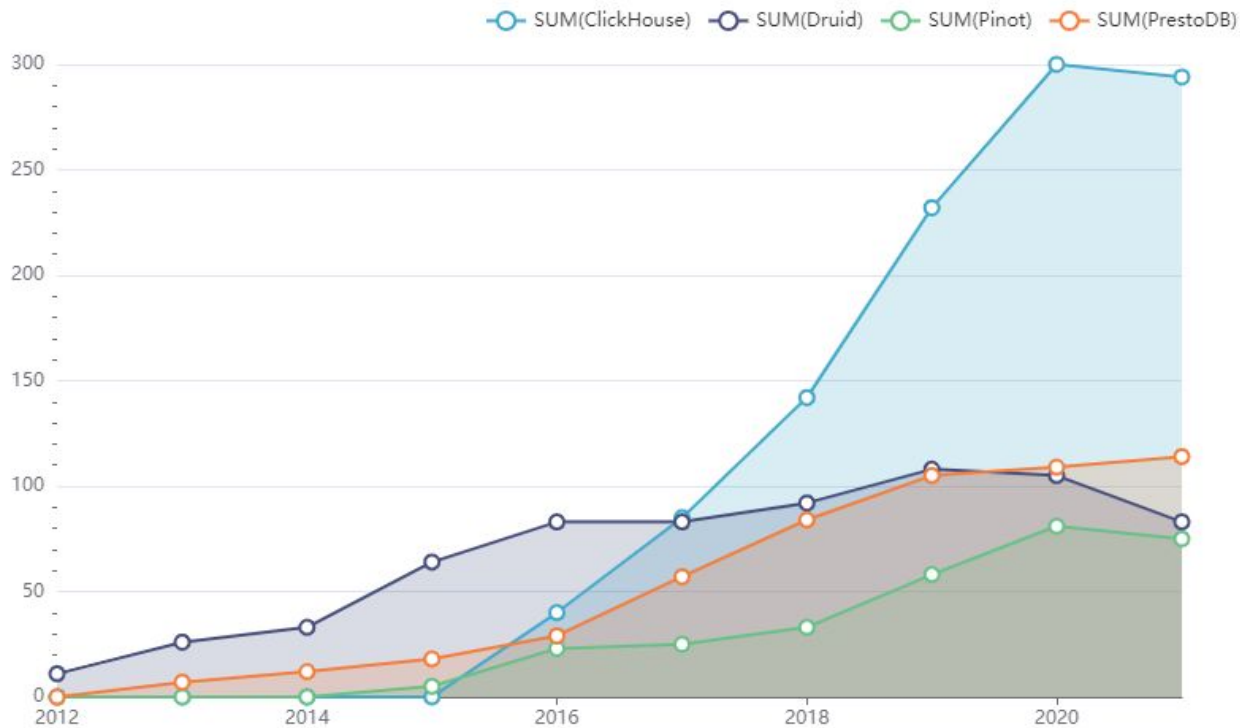
Data warehouses are rising fast on Github

Yearly Github Watchers



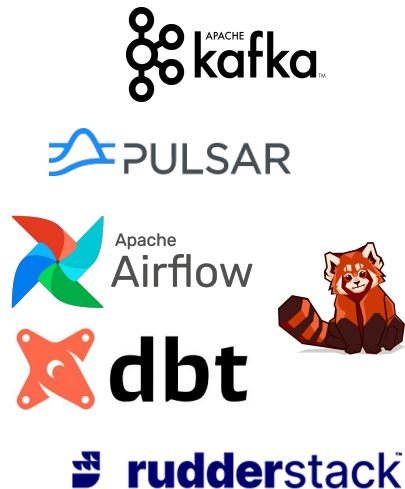
Driven by enormous communities of contributors

Yearly Github Contributors



And new open source projects and communities

Loading/ETL



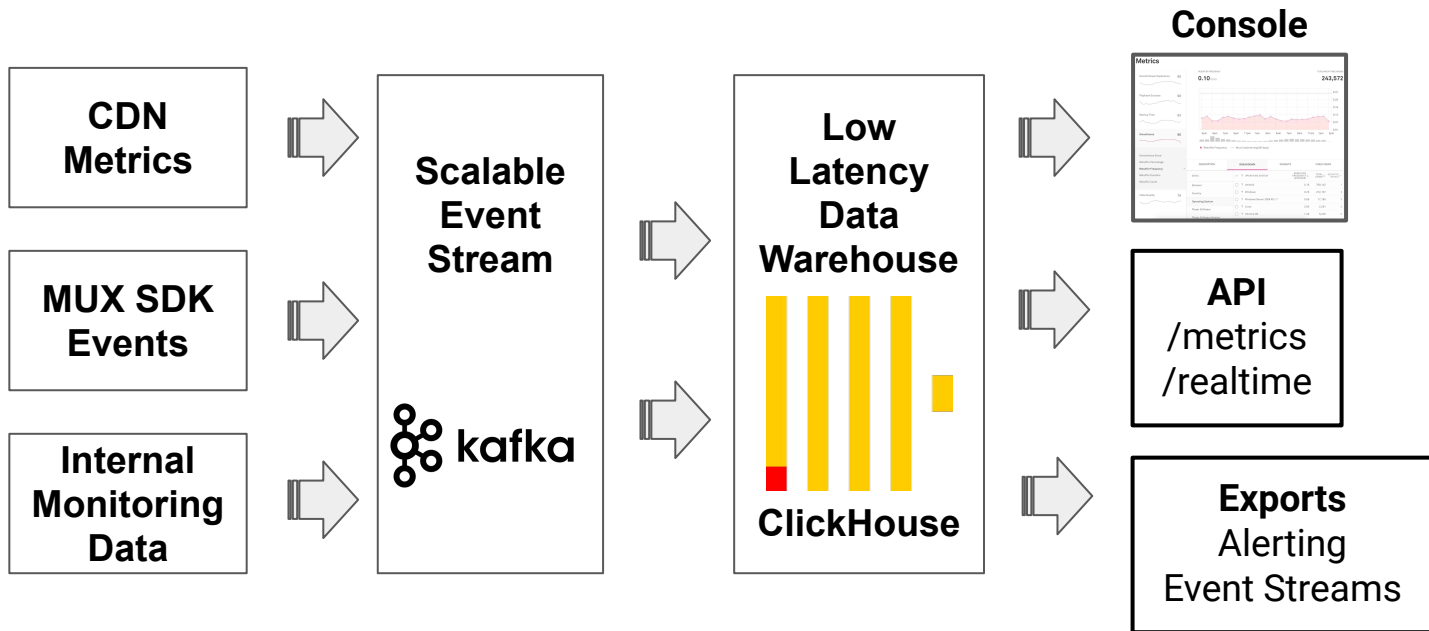
Query



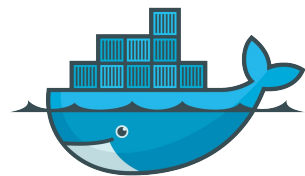
Visualization/Use



In-event CDN analytics at MUX



Analytic apps layer onto another OSS innovation

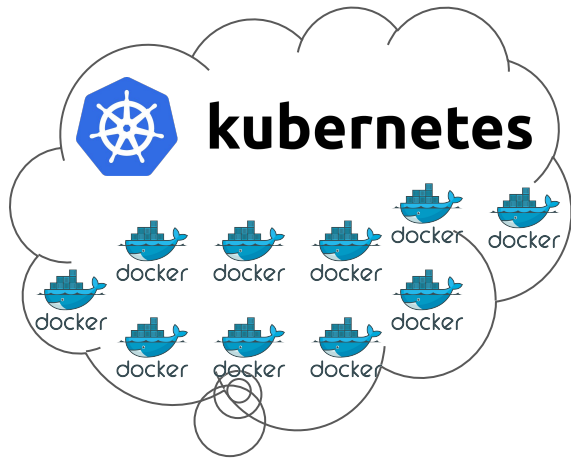


docker

Containers!

More accurately, cloud native apps on Kubernetes

Distributed applications!



Portable!

Open source analytics put power into the hands of users

Sift trading data to build
custom investment strategies

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Interactively diagnose
cloud system failures

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Dynamically manage SD
WAN performance

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Interactively diagnose
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Develop policies to adjust
online game awards
automatically

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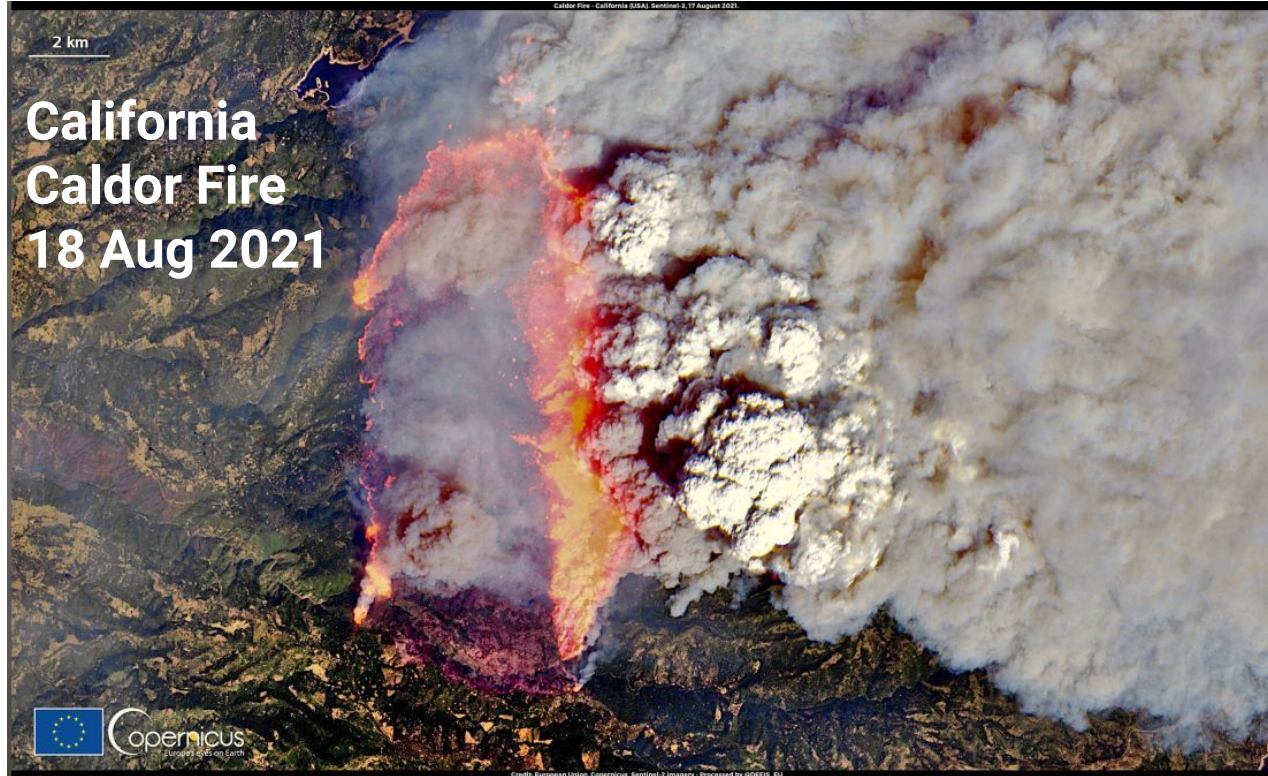
Develop policies to adjust
online game awards
automatically

Sift trading data to build
custom investment strategies

Get instant alerts on
network calls to malware
sites

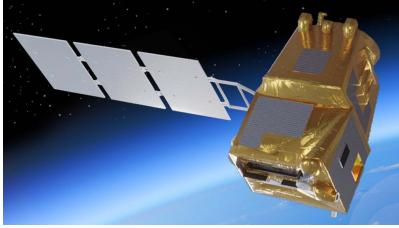
Dynamically manage SD
WAN performance

Business analytics are just the beginning

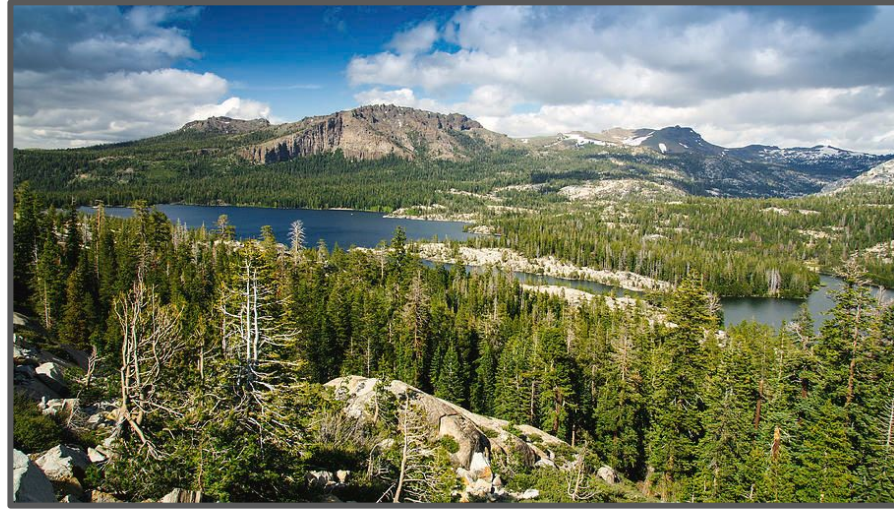


Our real-time world needs better management

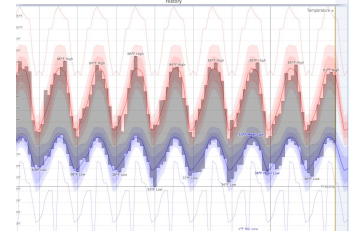
Satellite-based
measurements



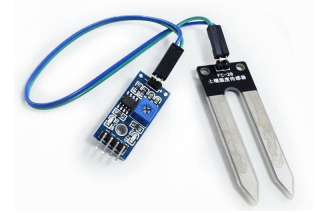
Drone telemetry



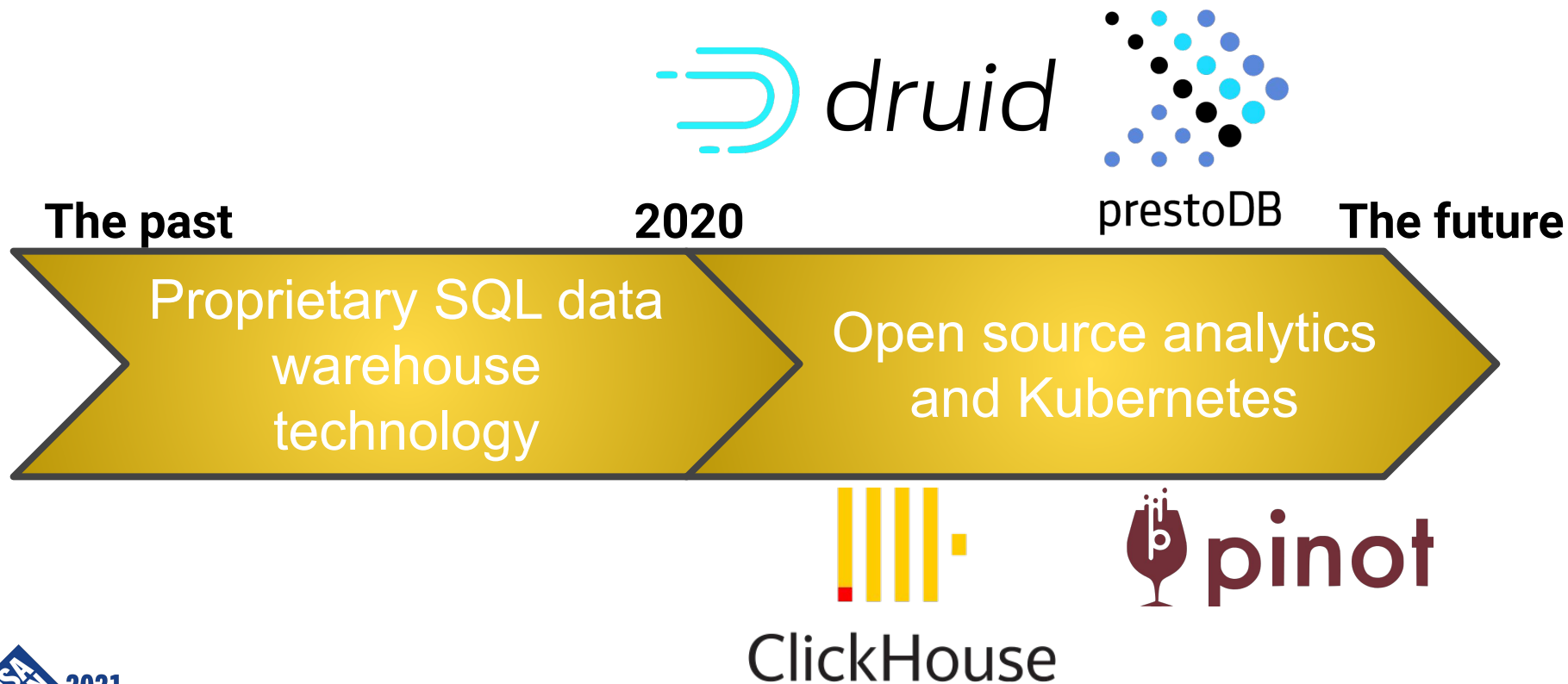
Historical weather data



Ground-based
moisture sensors



The open source analytic universe is paving the way





Altinity is proud to be a
part of the movement



Altinity

<https://altinity.com>