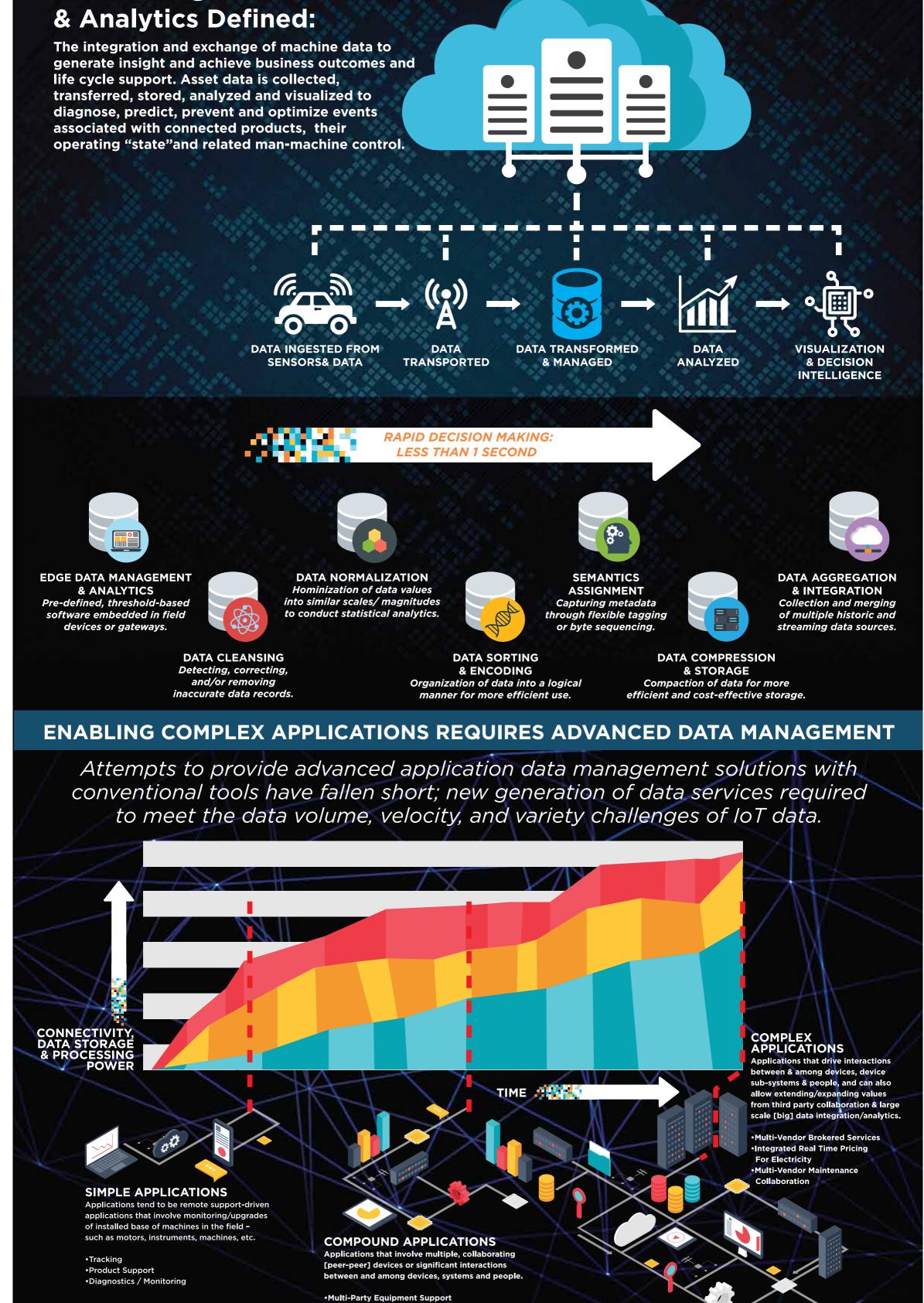
HOW DATA MANAGEMENT & ANALYTICS UNLOCK THE TRUE POTENTIAL OF THE INTERNET OF THINGS

NEW DATA MANAGEMENT CHALLENGES CREATED BY IOT DATA



### **Data Management**





Demand Response

• Maintenance Support & Collaboration

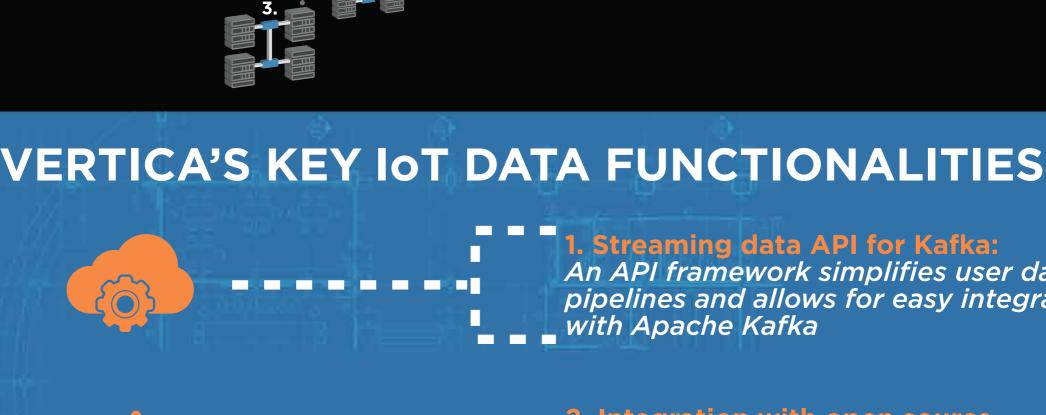
#### & CONSUMPTION MODELS ANY NODE CAN INITIATE THE QUERIES & USE OTHER NODES FOR WORK.

5. PROJECTIONS COMBINE HIGH AVAILABILITY WITH SPECIAL OPTIMIZATIONS FOR FAST QUERY PERFORMANCE.

PROVIDES HIGH SCALABILITY ON CLUSTERS WITH NO

NAME NODE OR OTHER SINGLE POINT OF FAILURE.

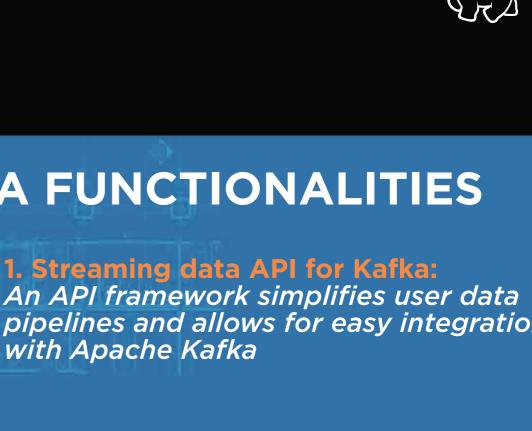
4. DISTRIBUTED QUERY



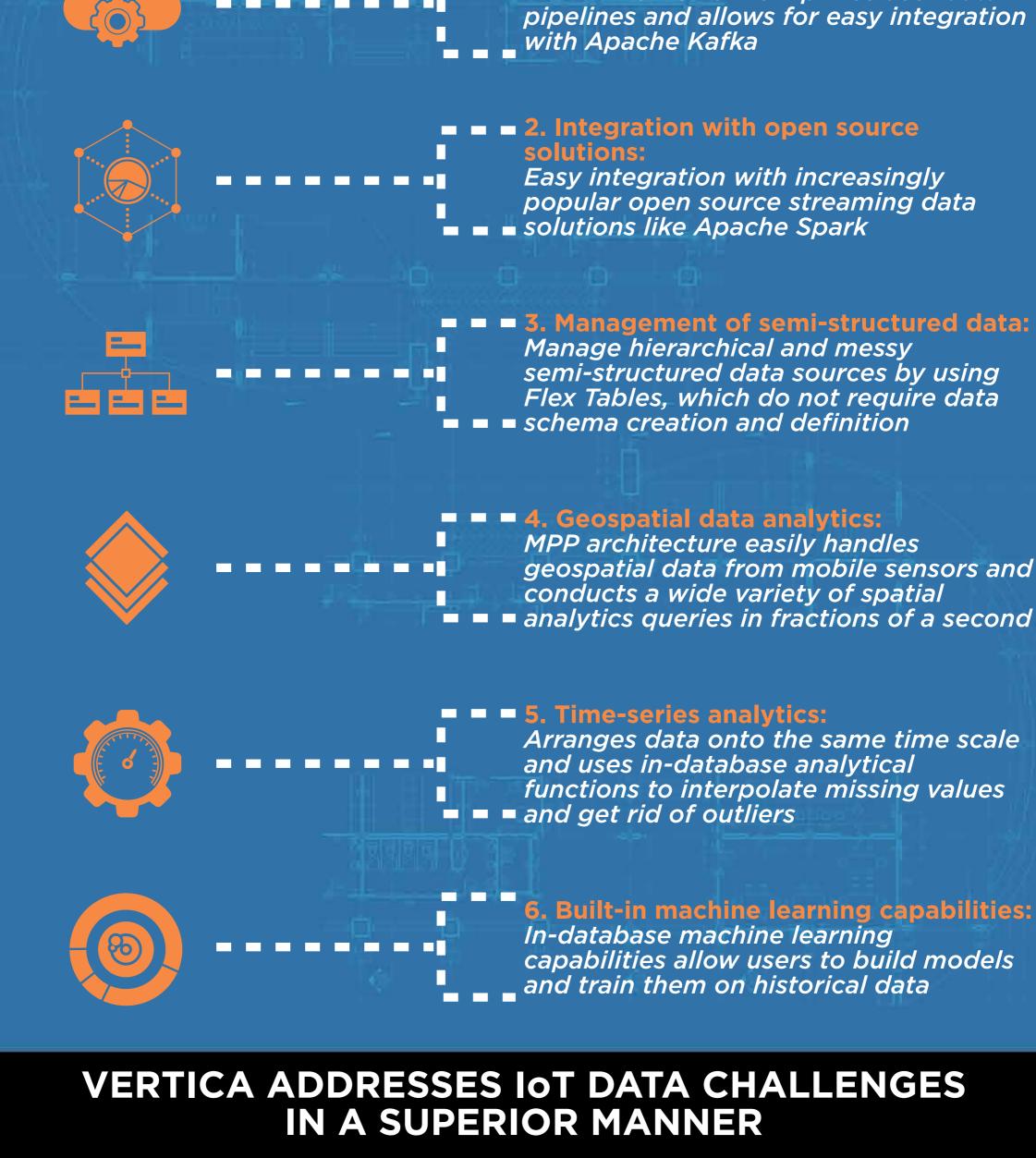
**ON-PREMISE** 

RANGE OF DEPLOYMENT

**CLOUD** 



### solutions:



### **LEGACY DATA WAREHOUSE**

**ABILITY TO HANDLE STREAMING DATA VOLUMES ON** 

A PETABYTE SCALE

**BATCHED** 

VERTICA

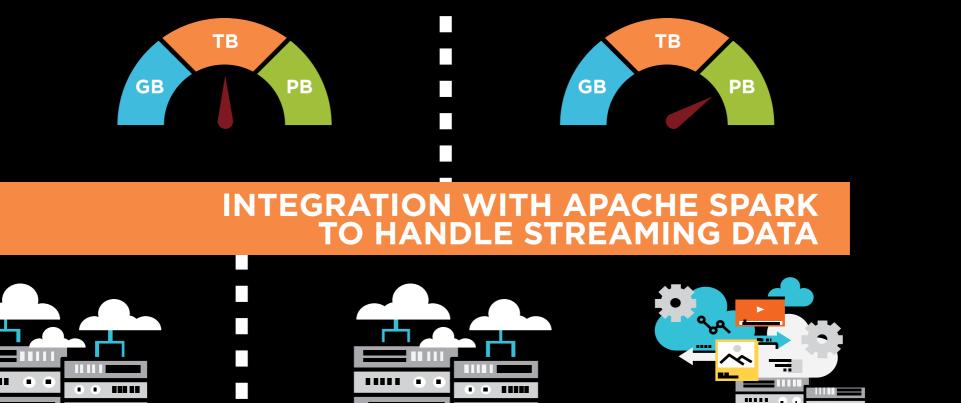
**NEAR REAL-TIME** 

TIME

**SERIES** 

PERFORMANCE OF VERTICA'S MASSIVELY PARALLEL

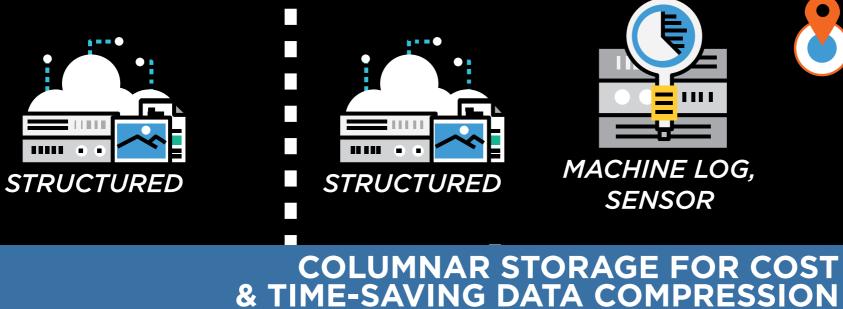
PROCESSING ARCHITECTURE VS. A TRADITIONAL CENTRALIZED DATA WAREHOUSE ARCHITECTURE



## **GEOGRAPHIC**

**BATCHED** 

MANAGEMENT OF MULTIPLE IOT DATA SOURCES

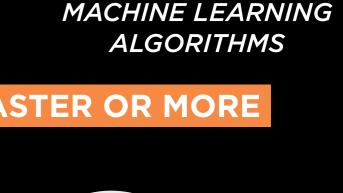


# FOR ADVANCED ANALYTICS

IN-DATABASE MACHINE LEARNING



MINIMAL (<10%)



**DONE IN MILLISECONDS!** 

SIGNIFICANT (>75%)

ROBUST 3RD PARTY TECH SUPPLIER ECOSYSTEM, INCLUDING:



TAKES HOURS

DATA MANAGEMENT AS A KEY ENABLER OF SMART SYSTEMS Companies that wish to build Smart Systems business models based upon true,

DATA

TRANSFORMATION

**ADVANCED** 

**ANALYTICS** 

across-the-board digital automation, need to start with a data management & analytics solutionthat is purposely built to handle IoT data. The Vertica Analytical Database is well suited to be the key enabler that allows equipment manufacturers & IoT platform providers to increase the service scope & value delivered to their end-customers through system enhancement & optimizationinstalled base data management, predictive analytics, and other increasingly complex use cases.