PingThings
The Analytics and AI Platform for Sensor Data at Scale

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Series A Raise has Closed!

We have left a small amount for a second investor to take a strategic position in PingThings.
What’s in Your Wallet?
The Current State of Time Series: Real Time vs Historical

Real Time Control

System Planning
VOLUME: Sensors are Everywhere

Data Generated per Year

Contemporary Utilities

SCADA

PMU

DFR/Point on Wave

Sampling Rates

10/6/21
## Thinking in Measurements

<table>
<thead>
<tr>
<th>Group</th>
<th>Start</th>
<th>End</th>
<th>Days</th>
<th>Pts/Stream</th>
<th>PMUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>July 2018</td>
<td>Aug 2019</td>
<td>~400</td>
<td>1,000,000,000</td>
<td>~200</td>
</tr>
<tr>
<td>B</td>
<td>Jan 2016</td>
<td>Dec 2017</td>
<td>~700</td>
<td>2,000,000,000</td>
<td>~40</td>
</tr>
<tr>
<td>C</td>
<td>Jan 2016</td>
<td>Dec 2017</td>
<td>~700</td>
<td>2,000,000,000</td>
<td>~200</td>
</tr>
</tbody>
</table>

**Estimated Total Measurements**

10,000,000,000,000

(10 Trillion)
# The Reality of the Situation

Assume 10 Trillion Measurements

<table>
<thead>
<tr>
<th>Read Speed (points/second)</th>
<th>Time to Read All Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>~ 3 Decades</td>
</tr>
<tr>
<td>100,000</td>
<td>~3 Years</td>
</tr>
<tr>
<td>1,000,000</td>
<td>~3 Months</td>
</tr>
<tr>
<td>10,000,000</td>
<td>~ 2 Weeks</td>
</tr>
<tr>
<td>100,000,000</td>
<td>~ 1 Day</td>
</tr>
</tbody>
</table>
The Solution

Tabula Rasa
Catalyzing Digital Transformation in Asset-Intensive Industries

1. Handle Time Series Data
   Ingest, store, access, fuse and visualize time series data where others can’t

2. Unlock Analytics at Scale
   Realize previously-impossible engineering and industrial analytics at scale

3. Train Artificial Intelligence Systems
   Leverage vast, untouched data to train machine learning models for next generation use cases

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PingThings Platform

Hierarchy of Needs

**Ingest and Persistence**
- Normalization across sensor types
- Keep and control *all* your data
  - Scales to Petabytes; best in class compression

**Access and Query**
- Keep up with the speed of industry
  - Read 15M pts/s/node; write 30M pts/s/node

**Applications**
- Put stored data to work
  - Realize previously-impossible engineering and industrial analytics at scale

**Analytics**
- Data becomes smarter
  - Train machine learning models for next-gen use cases

**AI**
Applications

• Inverter-based events
• GIC/GMD
• Cybersecurity
• Event detection
• Line impedance
• System imbalance
• And more!
Creating Value from Data

This is where all of the value is

This is what most platforms provide access to

Total Sensor Data

What a single computer can handle

The last few minutes

Data volume grows continuously

Sensor Sample Rate

Time

10/6/21

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A New Cost Curve for Time Series ROI

Cost of Experimentation

Use of Data

New Use Cases
Digitalization Creates Unforeseen Value

Having all data at your fingertips fundamentally changed travel...

Small data with slow tools imprisons progress in invisible assumptions and processes.

Data at scale allows new possibilities.

Hundreds of billions in value created from unforeseen use cases.

... Asset-intensive industries undergoing similar transformation.