

September 28th, 2018 – CURENT



PingThings



Presentation Outline

1. Introduction and Motivation Sean Murphy (~10 minutes)



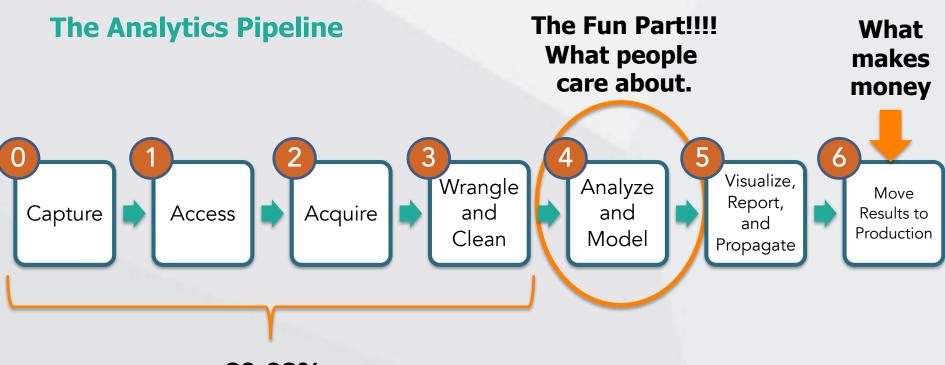
2. Time Series Storage and Analysis Michael Andersen (~30 minutes)



3. Q&A(~10 minutes)

The Analytics Pipeline





80-98% of time/resources

Annual Data Volumes



Ping**Things**

Two Options





Really Only One Option

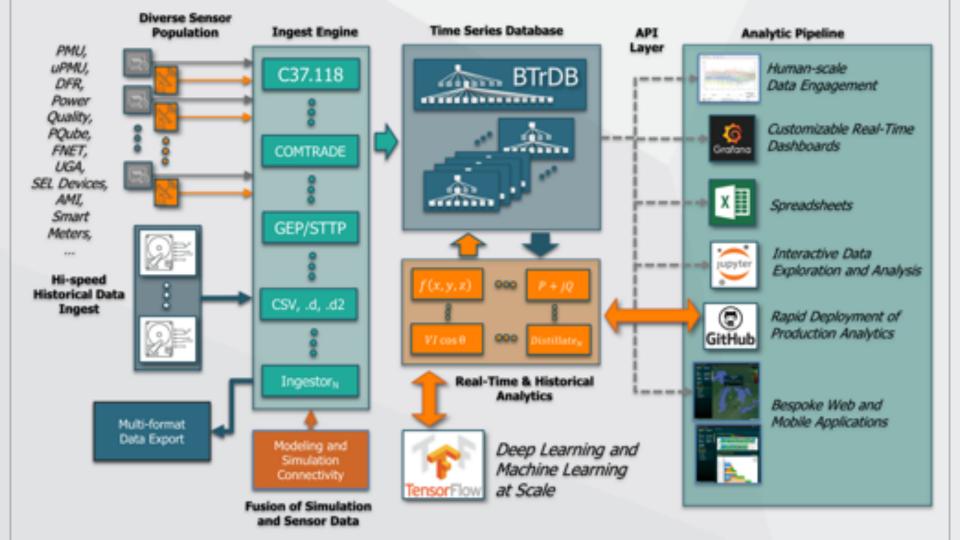




The Three Generations of Big Data Systems

	(1) Hadoop	(2) Spark	(3) Custom
Workload	Batch processing	Iterative processing	Continuous processing
Dominant Analytics Paradigm	Classic Business Analytics	Machine Learning	ML and Deep Learning
Features	Map reduce Disk oriented Generic	In memory Better tooling	Data type specific Industry and application focused
Limiting Reagent	Disk bandwidth	Memory capacity	Compute

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Jevons Paradox

In 1865, a twenty-nine-year-old Englishman named William Stanley Jevons published a book, "The Coal Question," in which he argued that the bonanza couldn't last. Britain's affluence, he wrote, depended on its endowment of coal, which the country was rapidly depleting. He added that such an outcome could not be delayed through increased "economy" in the use of coal—what we refer to today as energy efficiency. He concluded, in italics, "It is wholly a confusion of ideas to suppose that the economical use of fuel is equivalent to a diminished consumption. The very contrary is the truth."*

"occurs when technological progress increases the efficiency with which a resource is used (reducing the amount necessary for any one use), but the rate of consumption of that resource rises because of increasing demand"

Thank You!

Any questions?

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