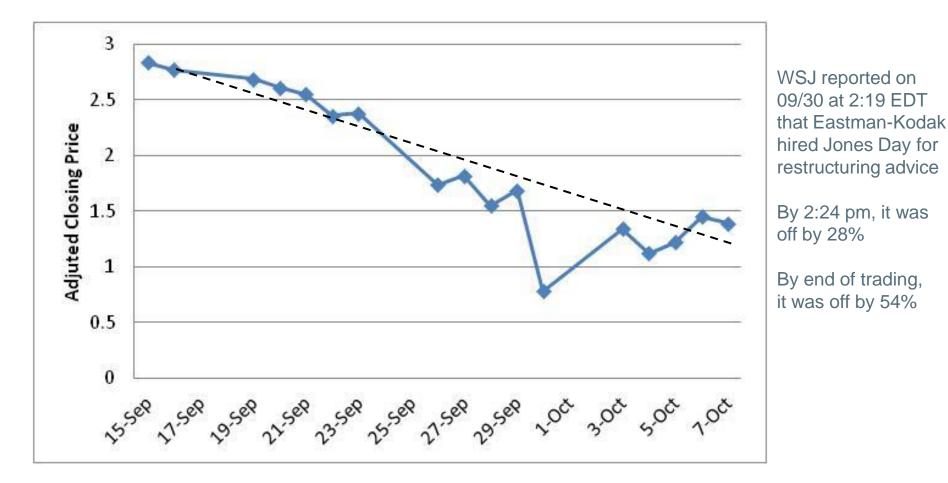




Market Sensing Using a Graph Database

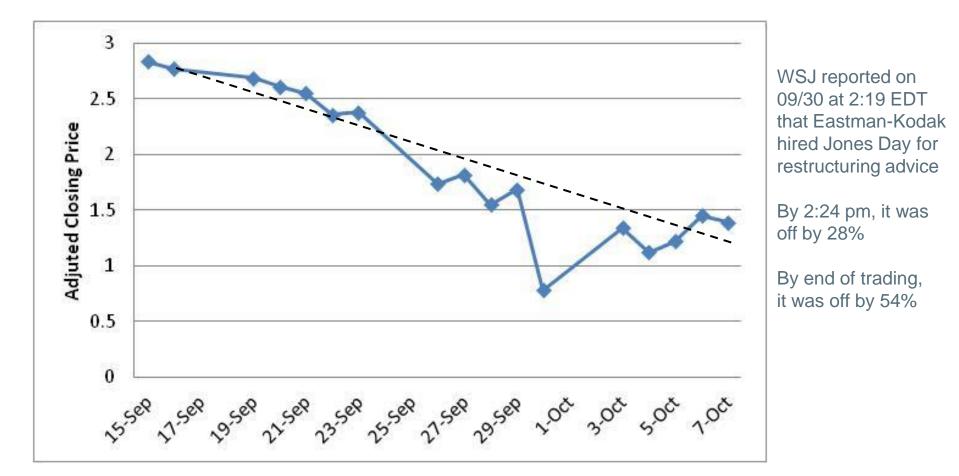


Sensing the Effect of News Media on Financial Markets





Sensing the Effect of News Media on Financial Markets



Market Sensing is a large-scale graph analytics problem



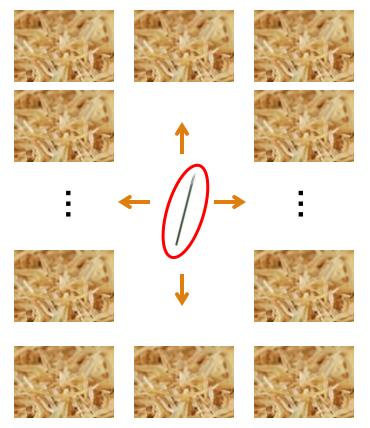
Current Big Data approaches are based on SEARCH...

SEARCH: Needle-in-a-Haystack



- We know what we're looking for
- We can break up the problem

Current Big Data Approaches: Partition and Scale out





YarcData focuses on DISCOVERY – not search



We do not know what we are looking for

We cannot break up the problem



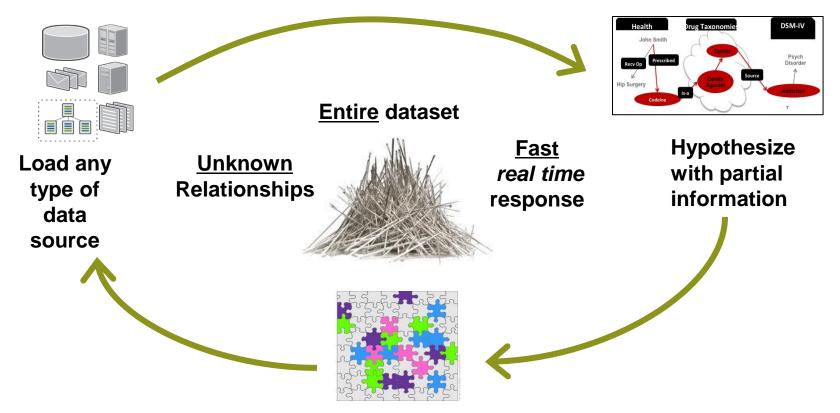


"....when the purpose of the system is discovery of relationships, not extracting information from already known interrelations, achieving satisfactory performance is difficult."

"When the relationships among data are mysterious, and the nature of the inquiries unknown, no meaningful scheme for partitioning the data is possible."

(Source: Gartner Report, YarcData's uRiKA Shows Big Data Is More Than Hadoop and Data Warehouses, September 2012) YarcData Company Confidential – Do Not Distribute

DISCOVERY through FAST hypothesis validation

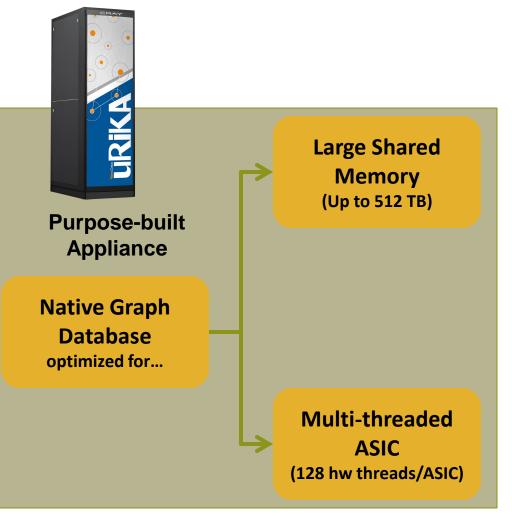


Validate with existing knowledge/data

"In the amount of time it takes to validate one hypothesis, we can now validate a 1000 hypotheses – massively improving our success rate and systematizing serendipity." (YarcData Govt Customer)



YarcData technology enables Big Data Graph Analytics



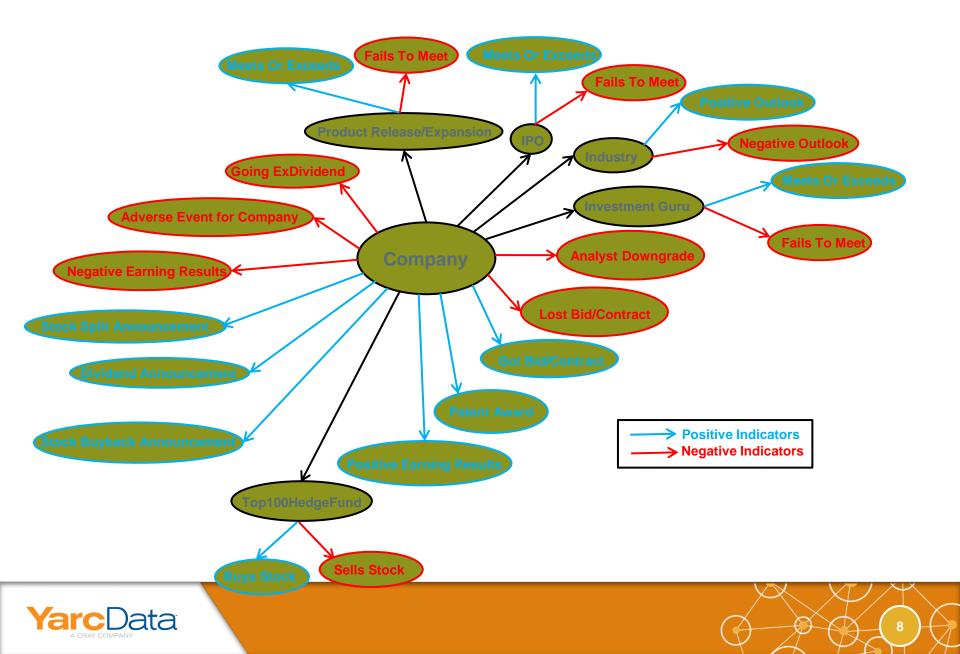
Gartner

"Employing a single systemwide memory space means data does not need to be partitioned, as it must be on MapReducebased systems like Hadoop. Any thread can dart to any location, following its path through the graph, since all threads can see all data elements. This greatly reduces the imbalances in time that plague graphoriented processing on Hadoop clusters."

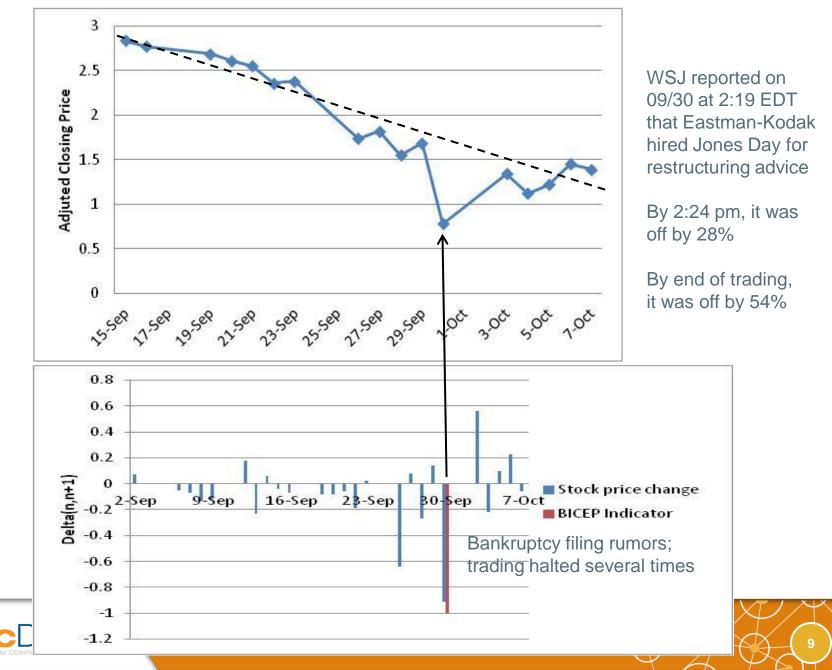
"A unique approach to processor design, YarcData's Threadstorm chip, shows no slowdown under the characteristic zigs and zags of graphoriented processing... the data is held in-memory in very large system memory configurations, slashing the rate of file accesses."



Market Sensing is a Large Graph Problem



Back to the Eastman Kodak case...



YarcData: Big Data Appliance for Graph Analytics

Gain business insight by discovering unknown relationships in big data

• Graph analytics warehouse supports ad hoc queries, pattern-based searches, inferencing and deduction on dynamic data sets



Achieve competitive advantage with scalable *real-time* graph analytics

• Purpose built to solve big data graph problems with large shared-memory and massive multi-threading

Ease adoption with subscription pricing and industry standards support

• Data center ready appliance with open interfaces enables re-use of in-house skill sets, no lock-in and simplified integration

