How to NOT miss the big picture in new big data initiatives

Jignesh M. Patel
University of Wisconsin
jignesh@cs.wisc.edu

A common scenario

CXO

- Has been hearing about big data (for too long now)
- Competitors may be gaining market share

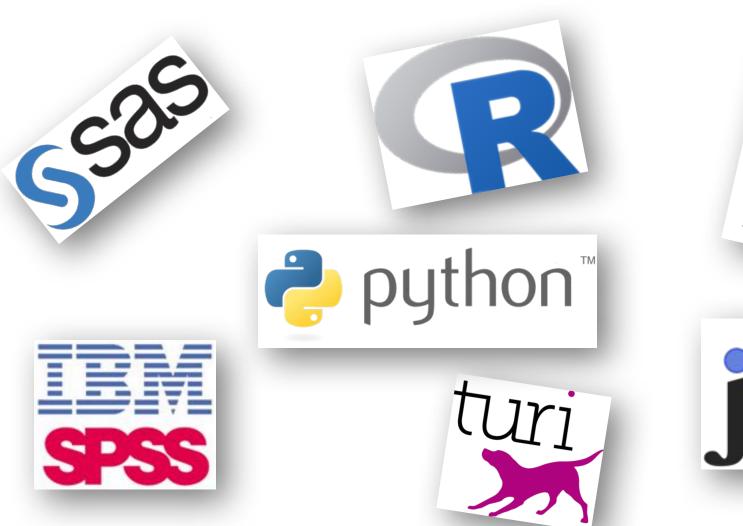
VP

Told to do something about it



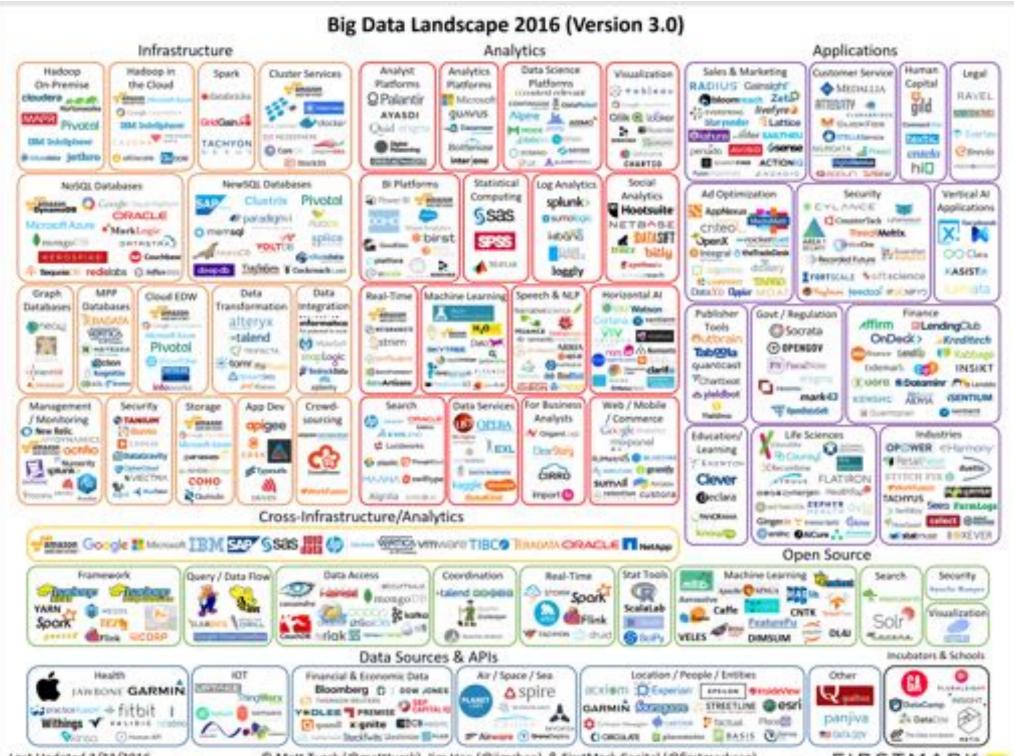
- Starts thinking about something to do with big data
- Lots of Googling

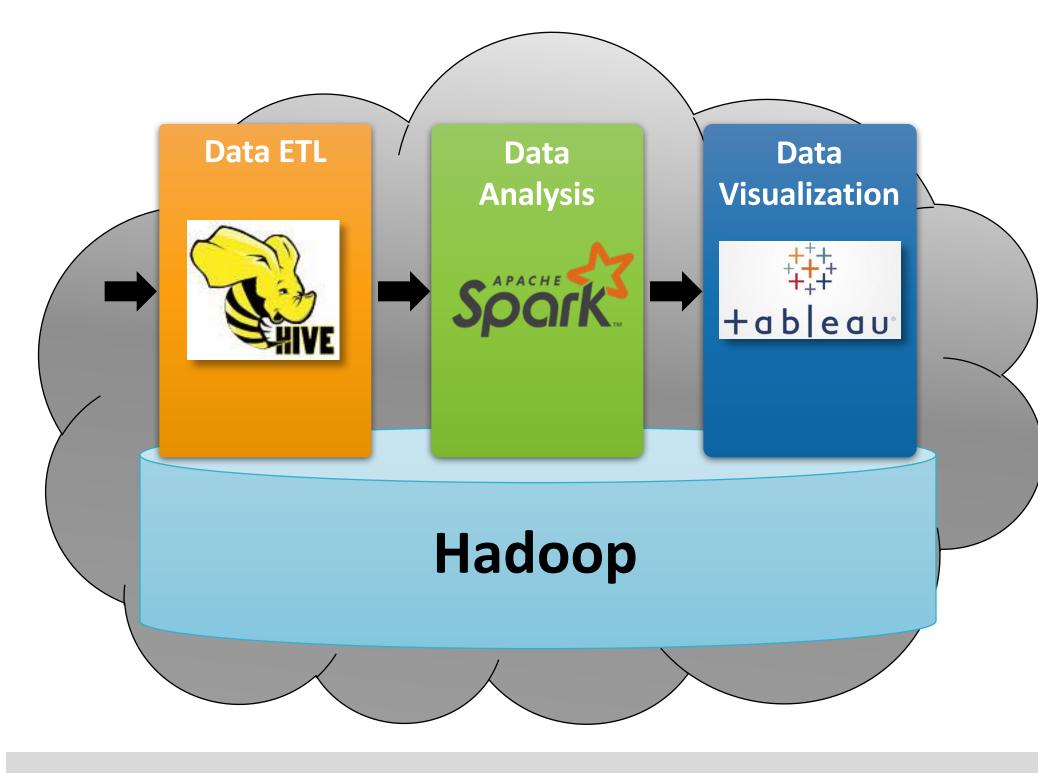






An even longer list at: https://en.wikipedia.org/wiki/List_of_statistical_packages



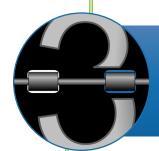




Outcome: Bundle of buzzword compliant technologies



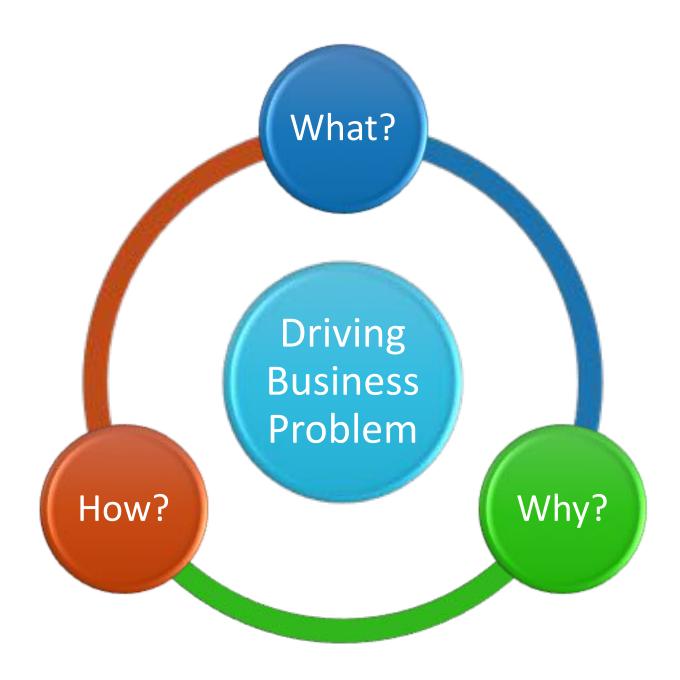
Refine, retune, redesign ...

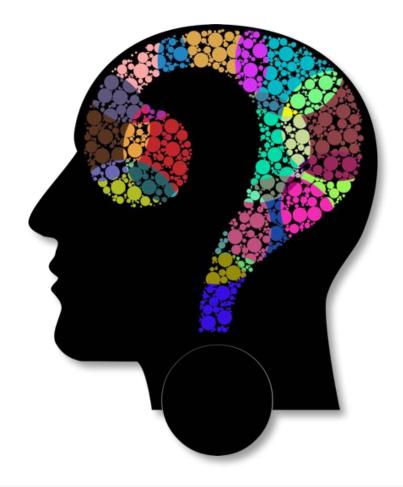


Hire consultants ...



Repeat ...



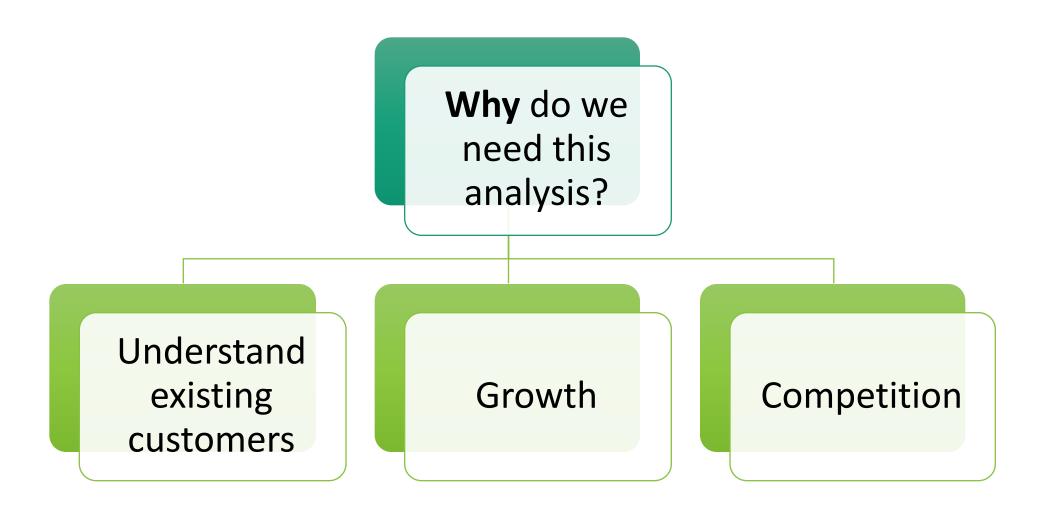


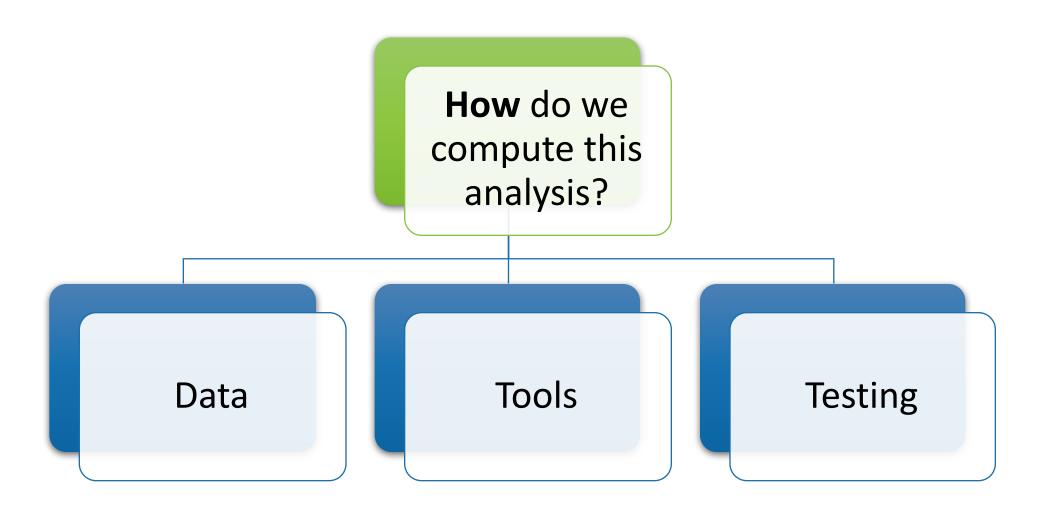
What is the business problem?



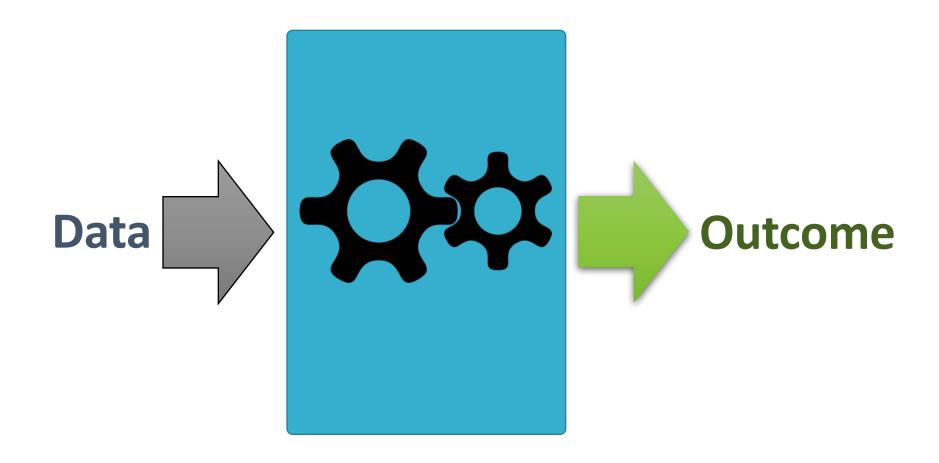
ROI Analysis

It is an investment for a <u>business!</u>

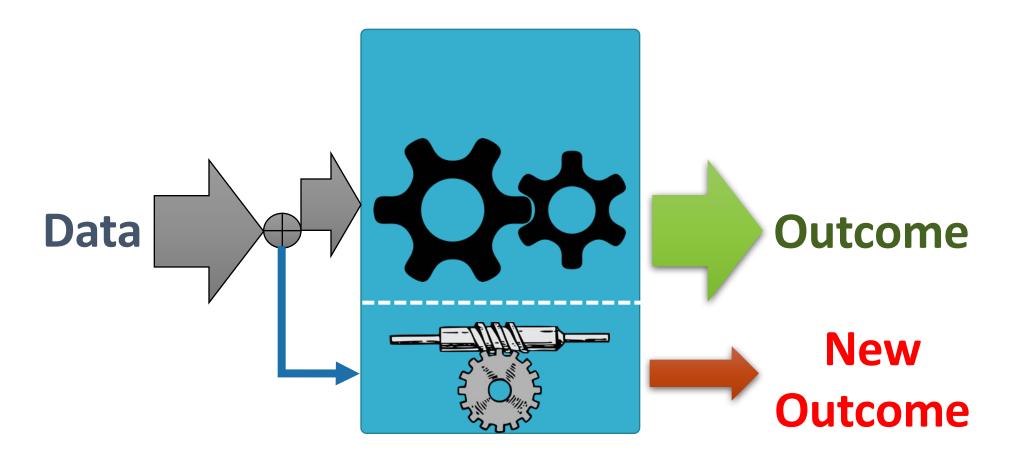




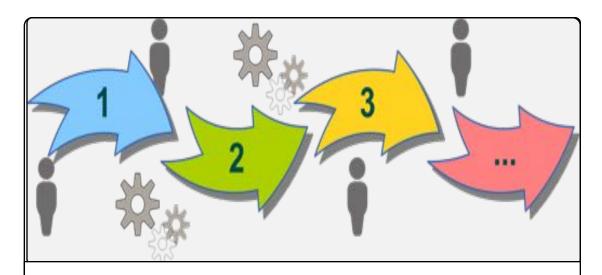
A/B testing infrastructure



A/B testing infrastructure

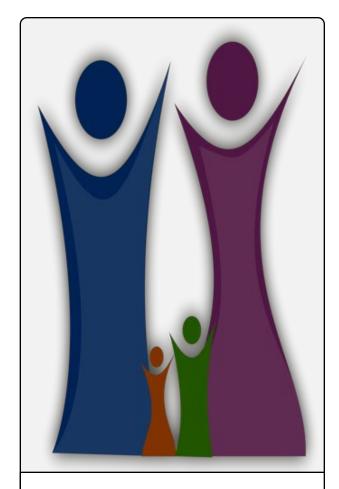


In addition ...



Process

Agile, transparent, and **short** iterations. And ego-less.



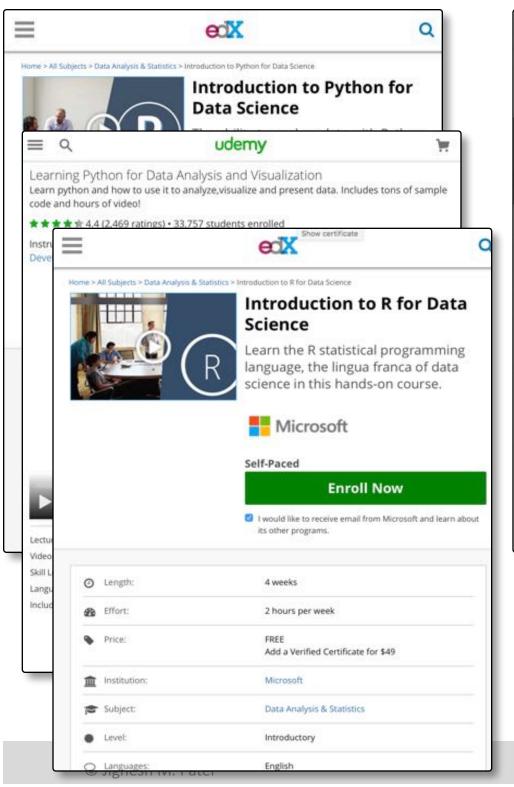
People

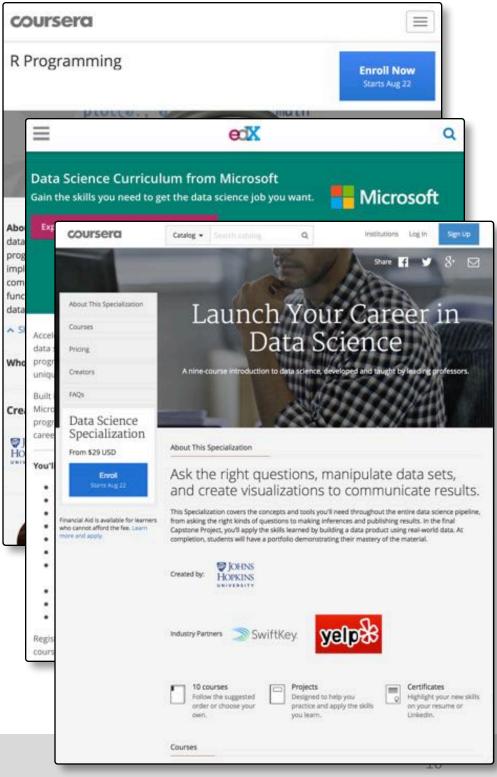
Invest in your existing people!

Democratization of data and tools

Open-source tools

Open access to education





Summary



Goal-oriented approach, with clear ROI



Separate means from the end



(Re-)invest in your existing people



My email: jignesh@cs.wisc.edu