STEPS TO DATA SCIENCE MATURITY

Kirk Borne [@KirkDBorne]

Principal Data Scientist and Executive Advisor

Booz Allen Hamilton

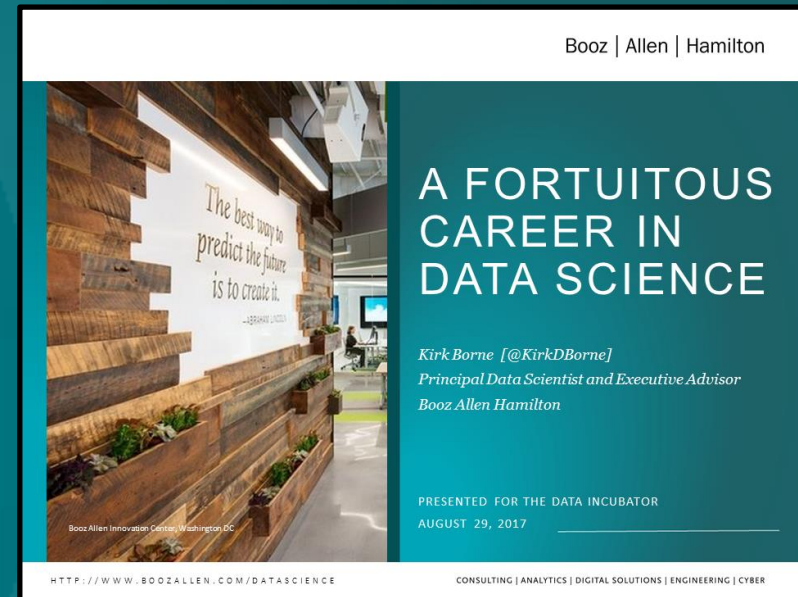SOUTHERN DATA SCIENCE CONFERENCE, ATLANTA

APRIL 12, 2018

Booz Allen Innovation Center, Washington DC

The best way to predict the future is to create it.
—ABRAHAM LINCOLN

Data Literacy For All
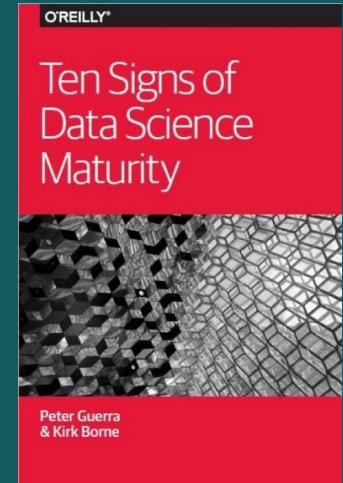## http://rocketdatascience.org/?p=356

My journey from Astrophysics into Data Science was motivated significantly by a strong desire to build Data Literacy in the next-generation workforce!

Learn about my journey here:
https://youtu.be/W19sGuvX7lw

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A FORTUITOUS CAREER IN DATA SCIENCE

Kirk Borne [@KirkDBorne]
Principal Data Scientist and Executive Advisor
Booz Allen Hamilton

PRESENTED FOR THE DATA INCUBATOR
AUGUST 29, 2017

HTTP://WWW.BOOZALLEN.COM/DATASCIENCE

CONSULTING | ANALYTICS | DIGITAL SOLUTIONS | ENGINEERING | CYBER
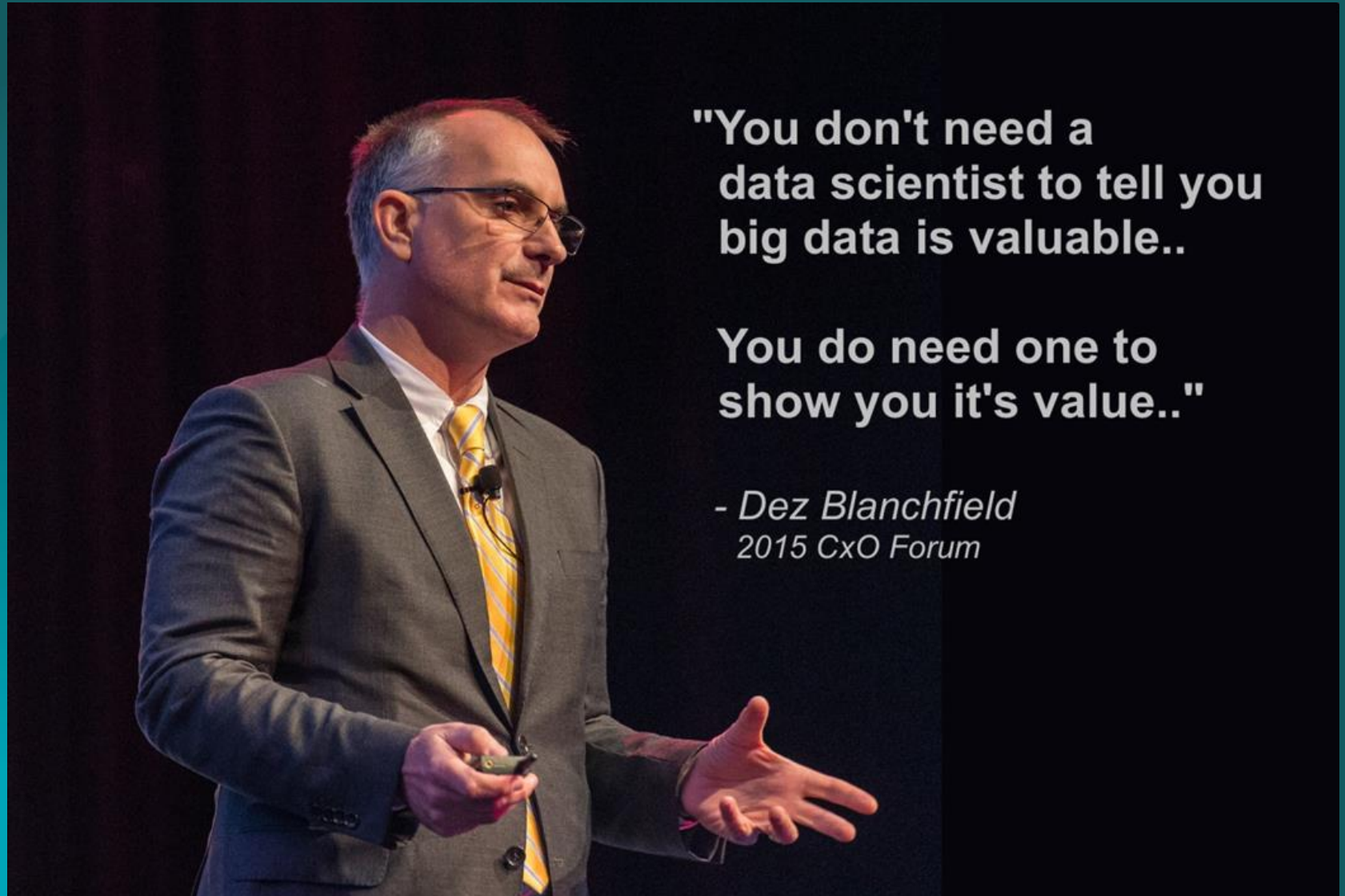
DATA SCIENCE MATURITY IN ORGANIZATIONS

Data Science …

1) …is "curiosity in action" that creates & organizes knowledge
2) …embraces & personifies a culture of experimentation
3) …follows rigorous scientific methodology (i.e., experimental, disciplined,…)
4) …systematically explores the world through observation & experiment
5) …relentlessly asks the right questions, and searches for the next one
6) …is testable and repeatable
7) …adopts a fast-fail learn-fast culture (knowing that errors are informative)
8) …attracts & retains diverse participants (granting them freedom to explore)
9) …is a way of doing things, not a thing to do
10) …presents insights by illustrating and telling the data's story.

https://www.oreilly.com/ideas/10-signs-of-data-science-maturity   --   http://www.boozallen.com/datascience

https://twitter.com/dez_blanchfield/status/645139875440668672

SAILING THE "7" SEAS OF DATA:

The Seven Seas (C's) of Data Scientists:

1) Cognitively Curious (ask questions ... the right questions!)
2) Creative (design thinker)
3) Courageous problem-solver (rocks the culture, willingness to fail)
4) Cool under pressure (tolerance for ambiguity)
5) Continuous life-long learner (hackathons, online classes, ...)
6) Communicator (data storyteller)
7) Collaborative ("data science is a team sport")

   + 3 more:

8) Critical Thinker
9) Computational
10) Consultative
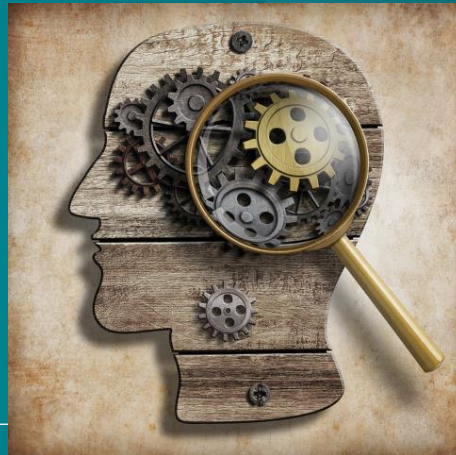
DATA SCIENTISTS ARE EXPLORERS – EXPLORING VAST AND ENDLESS SEAS OF DATA, WITH A PASSION TO SOLVE TOUGH PROBLEMS

"If you want to build a ship, don't drum up people to gather wood and don't assign them tasks and work, but rather teach them to yearn for the vast and endless sea."

– Antoine de Saint-Exupery

http://www.nytimes.com/2008/04/11/world/europe/11exupery.html

https://www.pinterest.com/pin/377106168772298092/