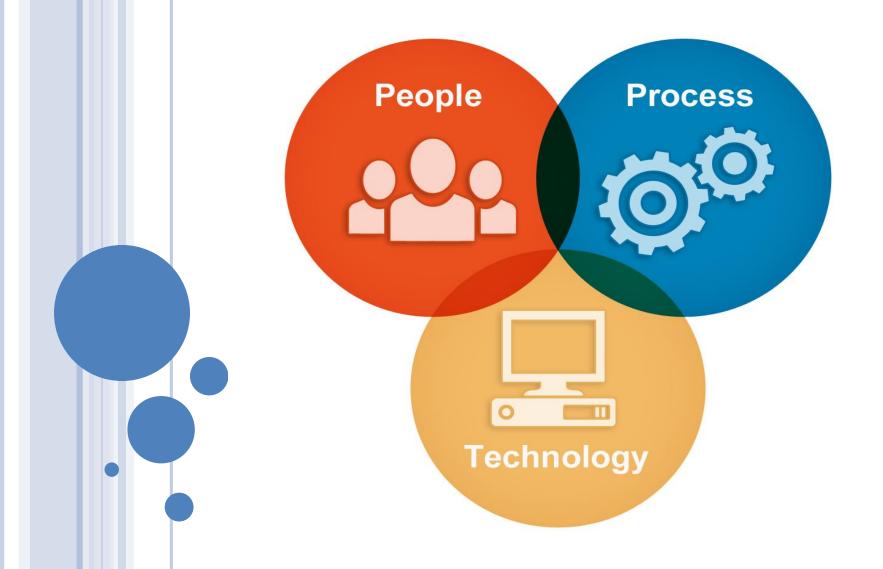
### **Big Data - Changing Corporate Culture**

**Dr. Chuck Brooks** 

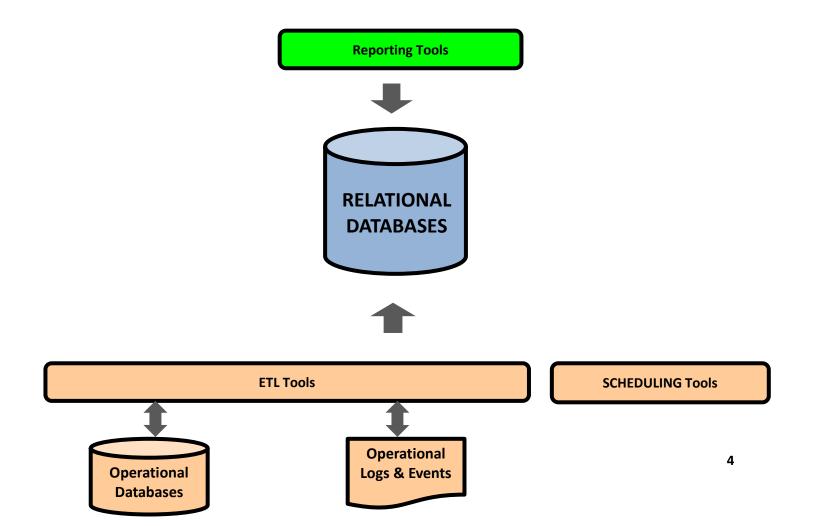
### Introduction

• While investment in big data is growing (expected to exceed \$41 billion by 2018 according to market research firm IDC) we are seeing a growing belief among organizations who've instituted big data projects: these projects aren't moving as quickly as they hoped (Brillio, 2016).

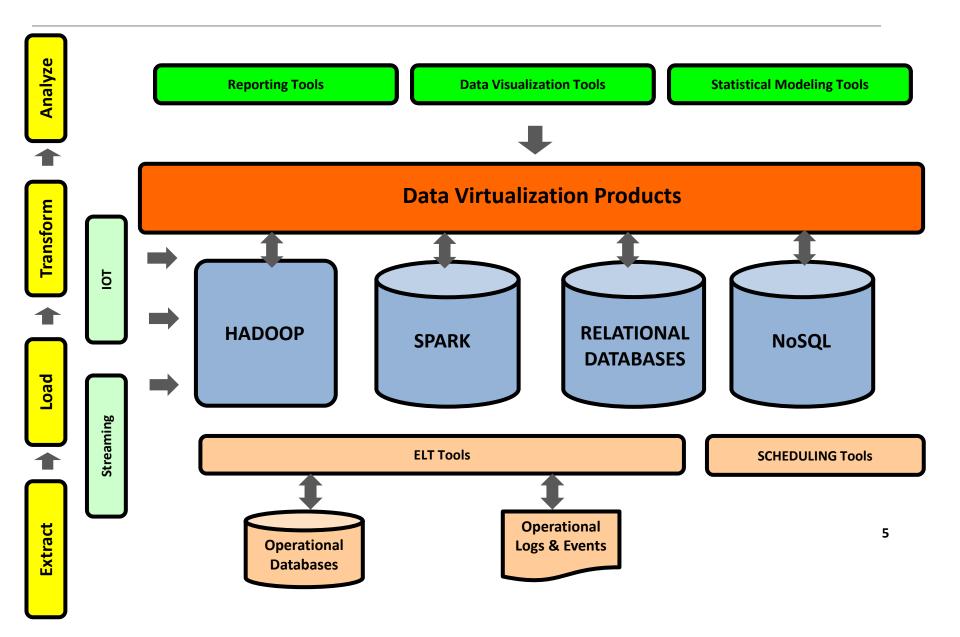
# Changing Corporate Culture



### The Old Data Management Technology

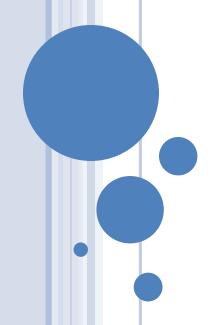


# The New Big Data Technology

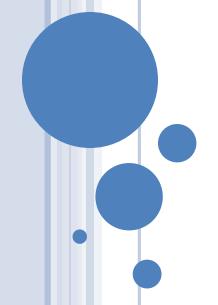


# Technology Culture Changes

- How we manage data is changing
  - The 4 V's (Volume, Velocity, Variety and Veracity)
  - More tools One size does not fit all. Use the right tool for the right job



### People – New Roles



#### **Data Scientist**

- Building Models
- Validation/Testing
- Algorithms
- Continuous Improvement
- Knowledge of:
  - Statistics
  - Linear Algebra
  - Machine Learning
  - R,Matlab etc.

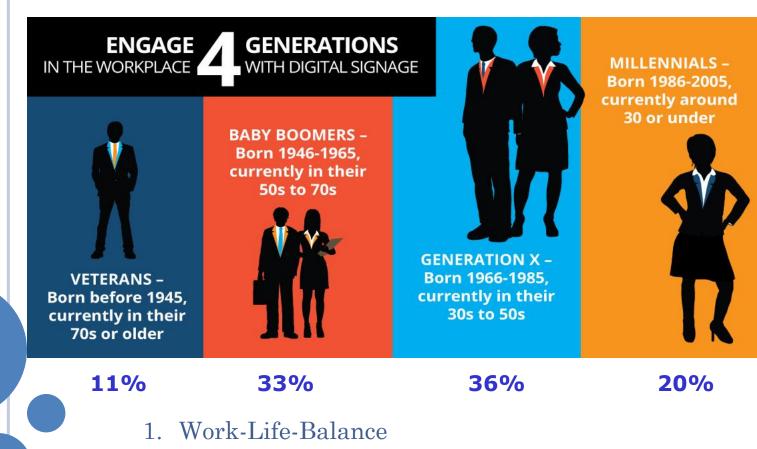
#### **Data Engineer**

- Data Pipelines
- · Manage Platforms
- Productionalize Algorithms
- Agile Development
- Knowledge of :
  - Platforms
  - Algorithms
  - Java, C++ etc.
  - Scripting languagues like python

#### **Data Analyst**

- Deep Domain Knowledge
- Report Generation
- Data Exploration
- Hypotheses Testing
- Pattern Discovery
- Correlations
- Serendipitous Discovery

### People – Changing Generations

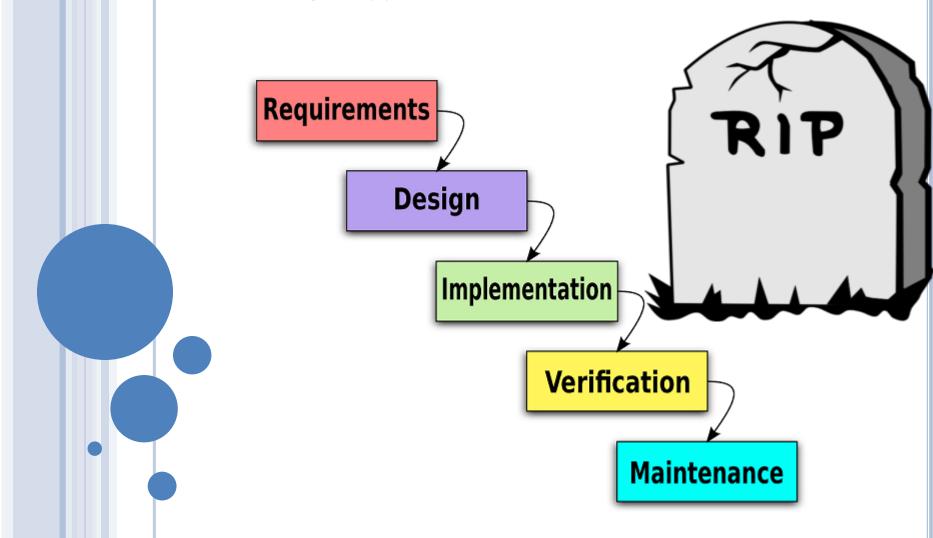


- 2. Dress Code
- 3. Healthy Living
- 4. Office Environment
- 5. Leadership
- 6. Group Interaction

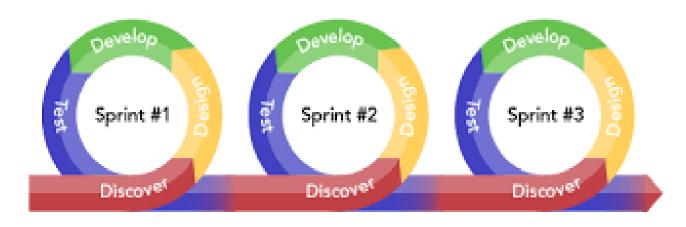
# People Culture Changes

- The type of people we need and how we manage them is changing:
  - Data Scientists and Data Engineers need to show the "art of the possible"
  - Data Scientists and Data Engineers need in-depth understanding of business processes.
  - Analysts need to understand data
  - Analysts need to create their own content Leadership is more complicated, leaders must have management, leadership and technology skills.
  - Change / update the workplace!

### Process – SDLC / Waterfall is dead!



## Process - Long live Agile!





02012 think interactive inc.

- 1. Action
- 2. Iterative
- 3. Interactive with the business
- 4. Accountable

### Process Culture Changes

- We need less process restrictions!
- Fail/Succeed fast and move forward.
- Experimentation mindset and methodology
- Quick iterative deliverables (Agile)
- Faster project funding process
- Self-Service BI
- IT and Business Partners working together to save costs and generate revenue