

The Tableau Healthcare Show

Your Third Thursday Skill Pill

Skill Pill 4

Master your data with Tableau Prep

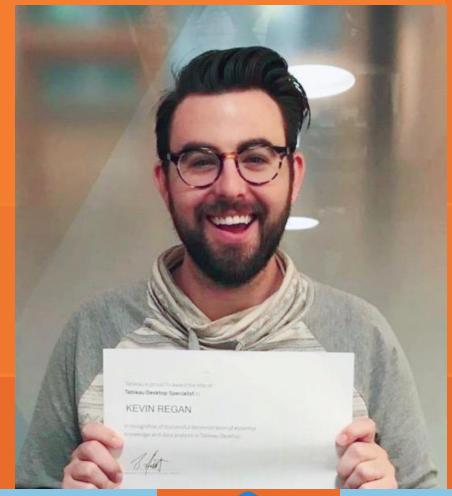
Thursday, January 16, 2020





Kevin Regan

Customer Success Manager
Tableau Healthcare

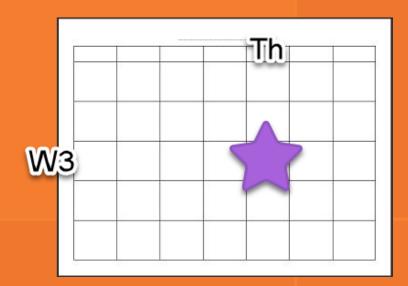












For Healthcare

Providers, Payers, Admins and Data fans

Information, News and Info Applicable to the Healthcare Analytics Community



Tableau works with 20 out of 20 of the Top Hospitals (US News & World Report)

Tableau has a dedicated Healthcare Team for Payers and Providers

Tableau works with all major Payers

Tableau works with over 2,200 healthcare organizations in the USA

Feedback, questions, comments

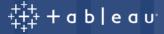
Email us!





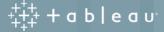
tableauhealthcareshow@tableau.com

We are listening and want your input!



Agenda

- Our Guests Today
- Master Your Data with Tableau Prep
 - Intro to Tableau prep
 - Prep Basics and Demo
 - Advanced Analytics with R/Python Integration
- Q&A



Amir Meimand

Matt McWhorter

CJ Callender



Strategic Sales Consultant
Machine Learning and Predictive Analytics
San Jose, CA



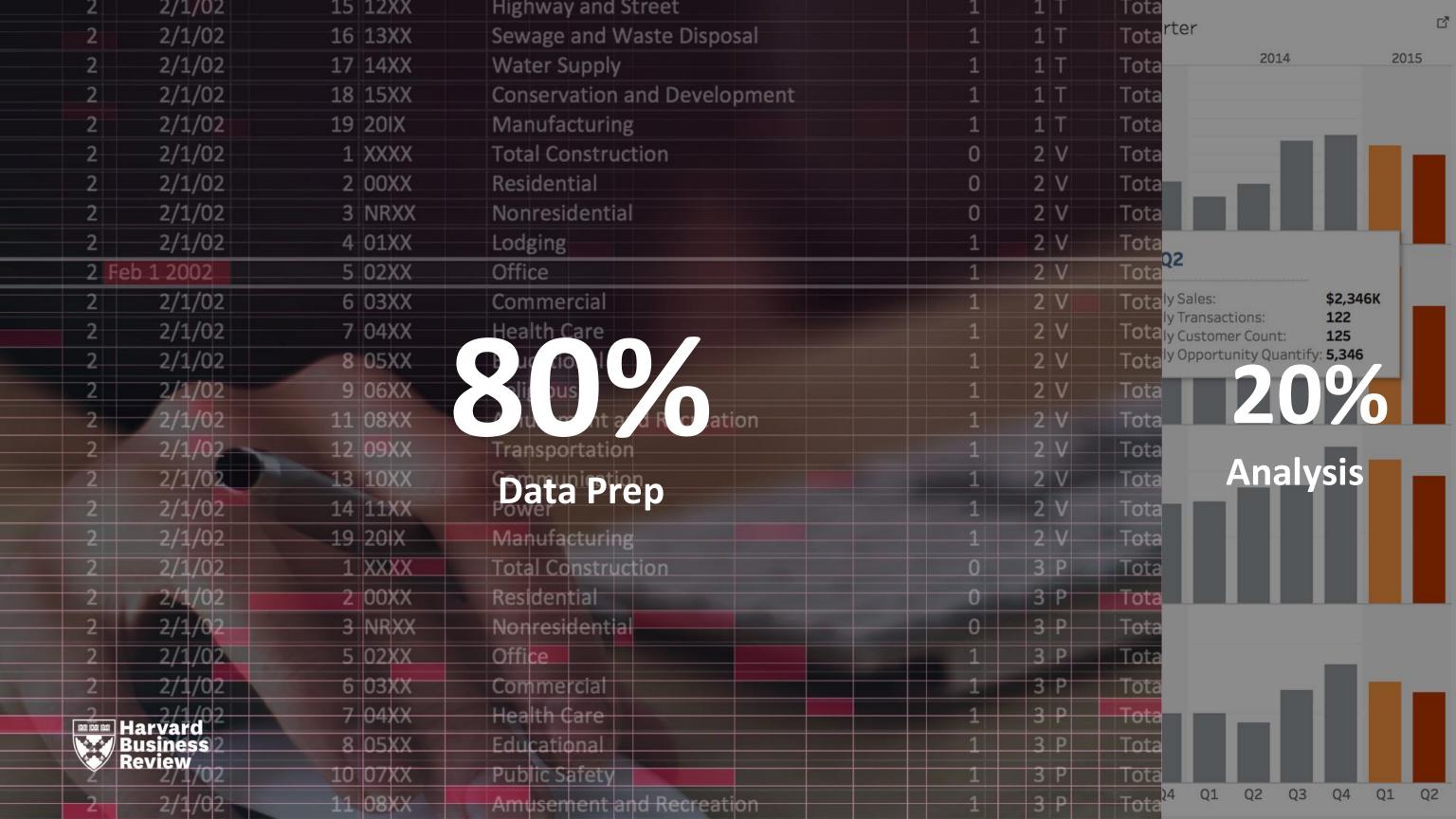
Sales Consultant Denver, CO

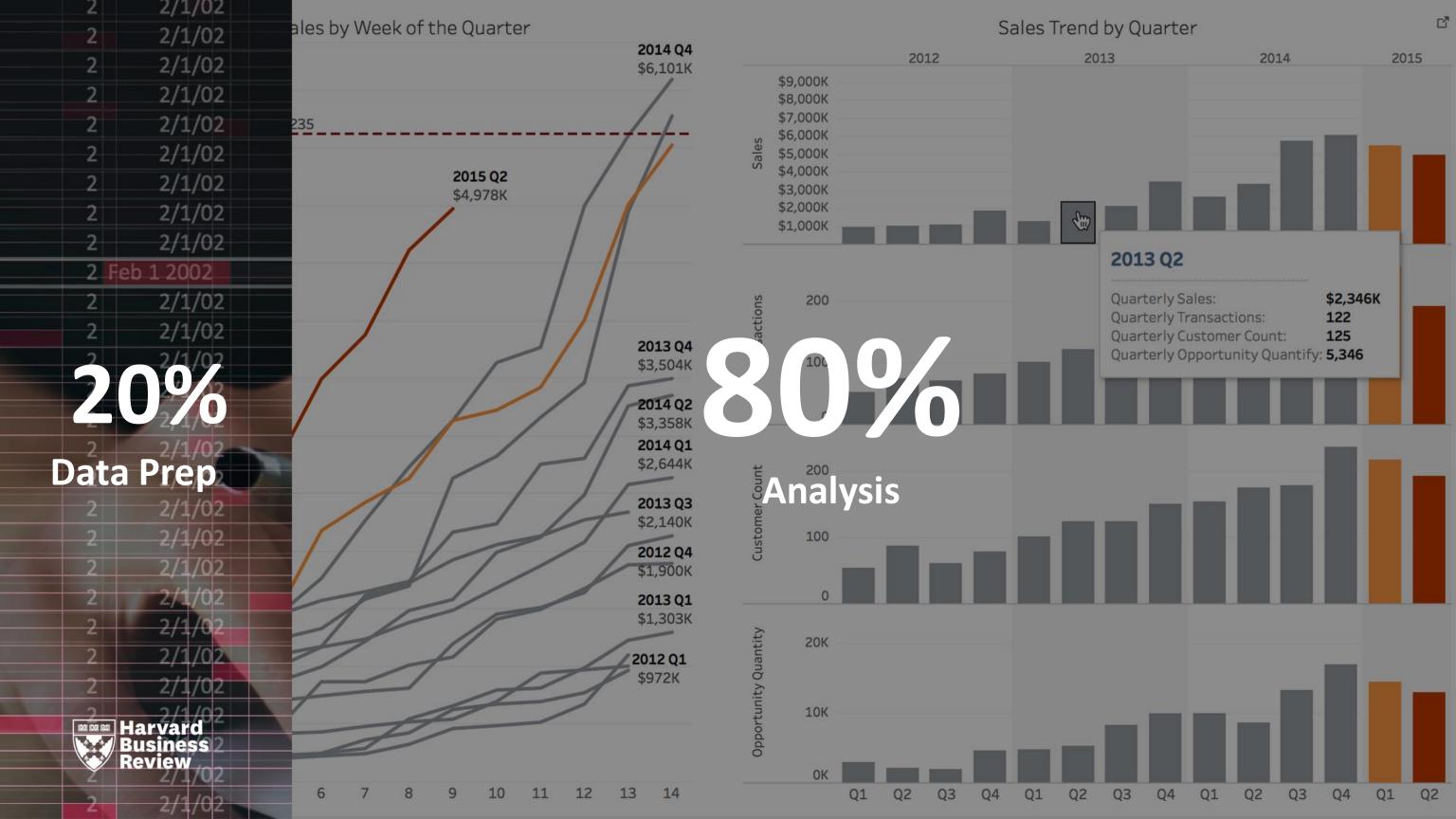


Dir Sales ConsultingAtlanta, GA

Today's Presenters







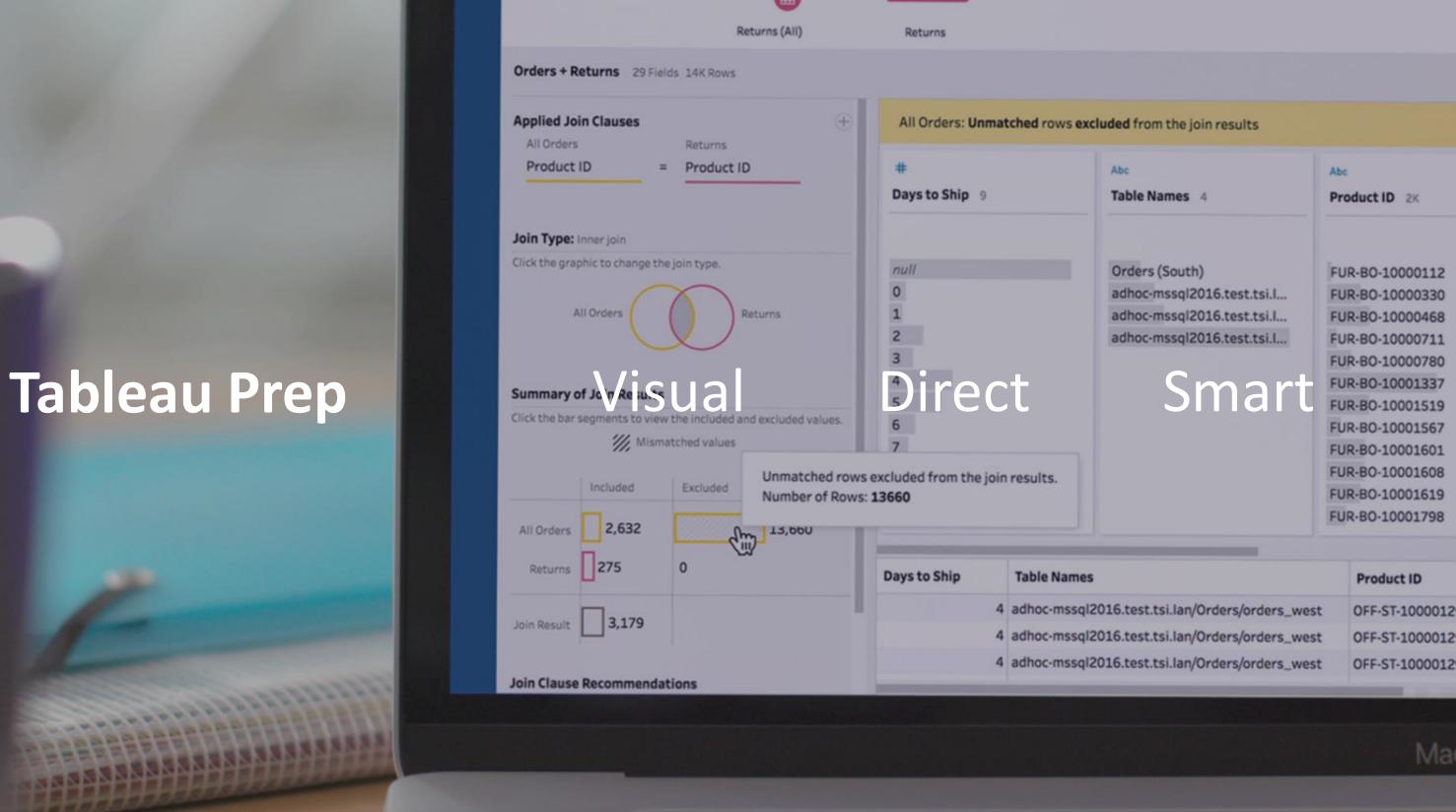


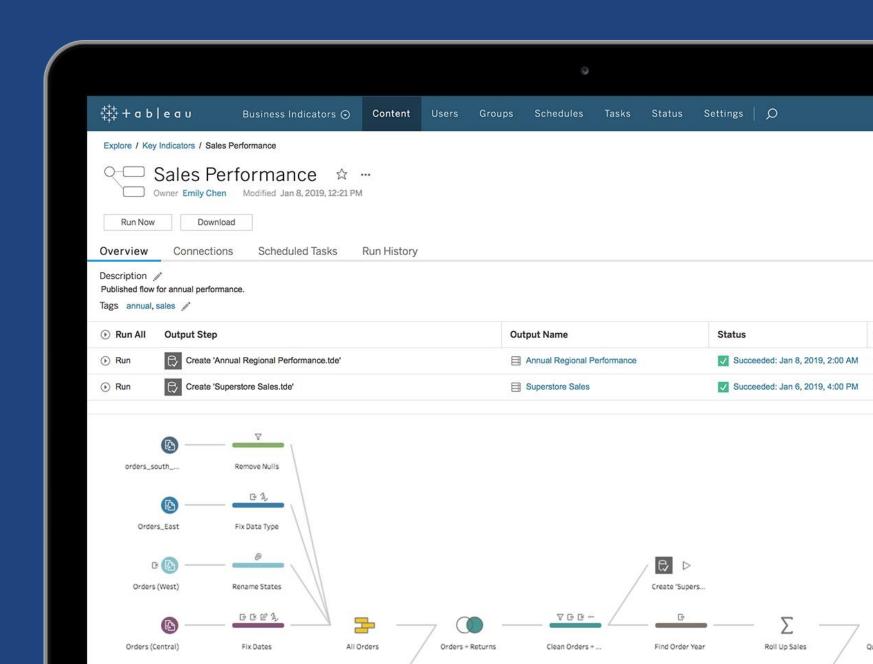
Tableau Prep

Prep Builder

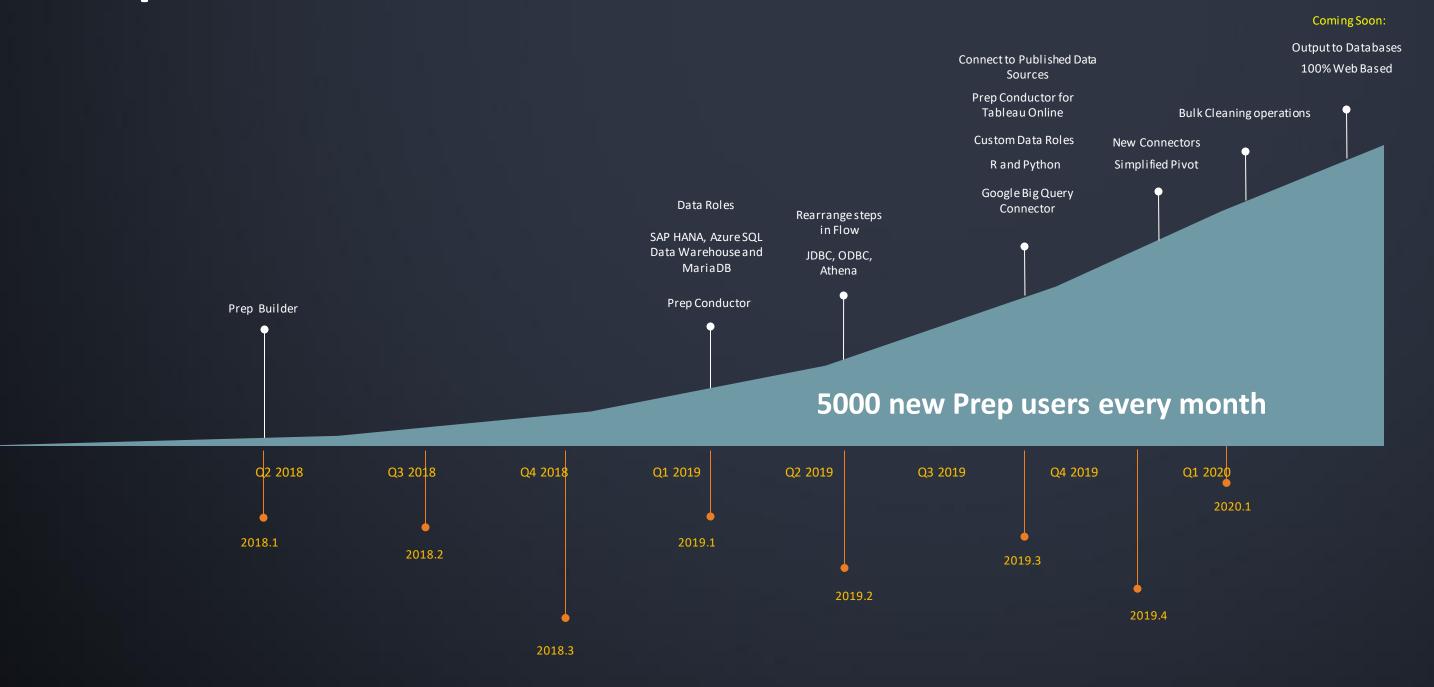
- Profile data
- Transform and clean
- Combine from multiple sources
- Integrate Advanced Models (R/Python)
- Publish data

Prep Conductor

- Automate jobs on the Server
- Support for Online
- Monitoring and alerting



Rapid Innovation and Customer Success

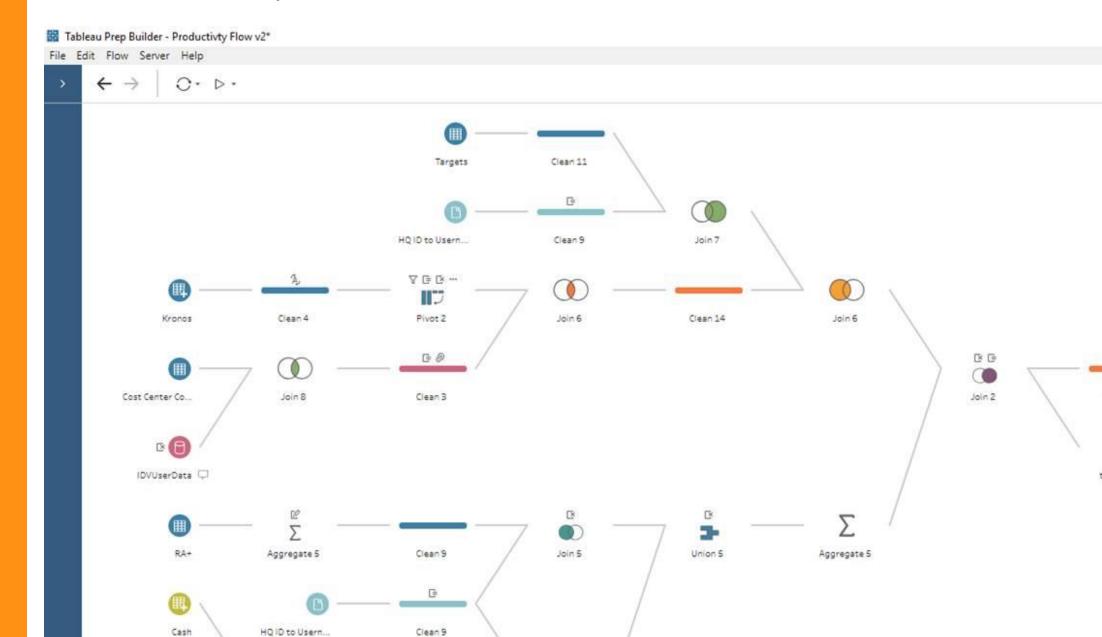




Trinity Health

"With Conductor, the promise of being able to step away and let the data refresh on its own is valuable to our team that is moving at warp speed. We can move toward full automation and free up our time to actually do analytics instead of refreshing data sources."

- Andrew Miller, Trinity Health



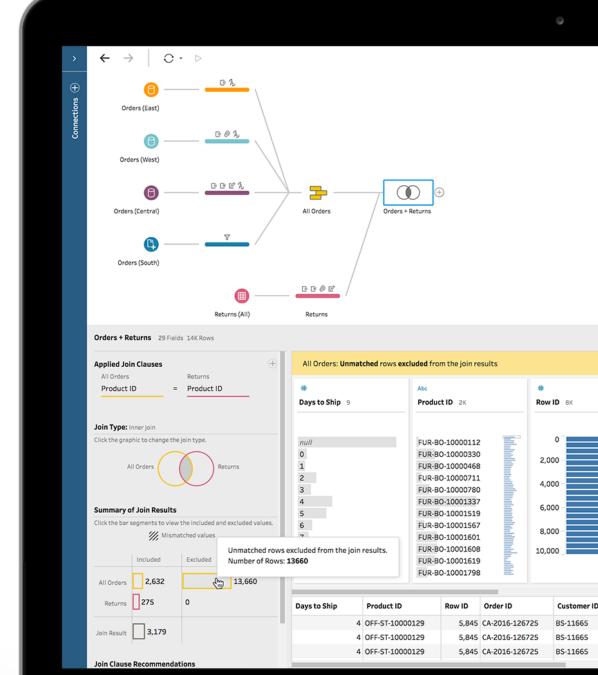


Customer SuccessWith Tableau Prep

Major US Hospital

Lab Operations

- Labs in multiple locations with data in different formats
- Questions: Throughput? Excess Capacity? Delays?
- Combined data into standard structure using UNIONs in Tableau Prep
- Single source for system-wide visibility of Lab operations





Prep Basics

CJ Callender



Sales Consultant
Denver, CO



Advanced Analytics Prep + R/Python

Amir Meimand



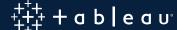
Strategic Sales Consultant
Machine Learning and Predictive Analytics
San Jose, CA

Machine Learning and Predictive Analytics in Healthcare

Advanced analytics plays a key role in many healthrelated realm:

- ✓ Disease Diagnosis
- ✓ Personalized Treatment
- ✓ Smart Electronic Health Record



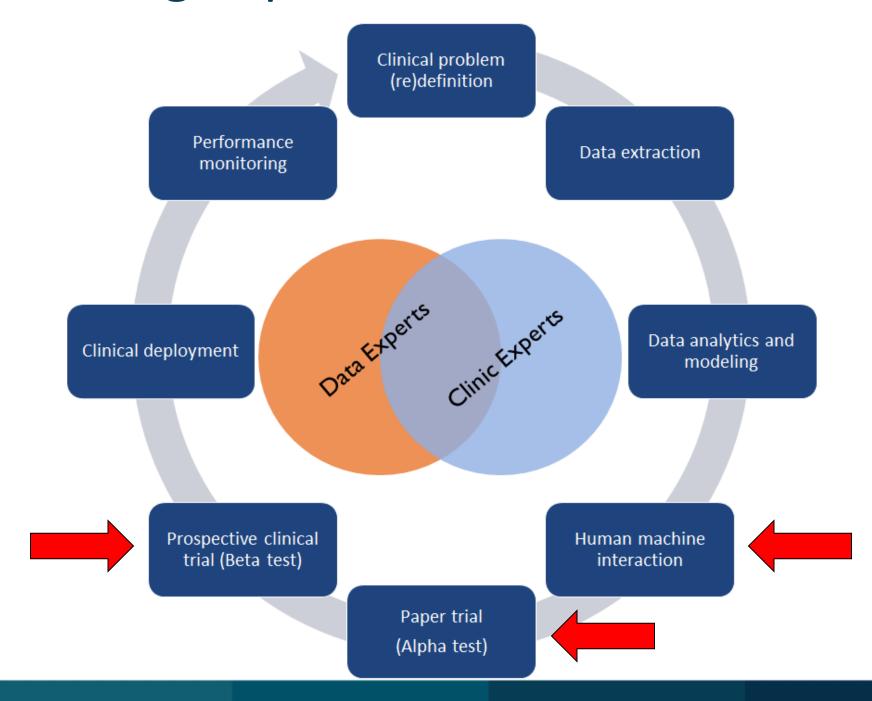


Healthcare is different from other sectors



- > Unstructured/Non-standard format
- > Generalizability
- > Transparency
- > Human vs. Machine

Machine Learning implementation for healthcare









Text Processing

- Electronic Health Records (EHRs) includes detailed information such as lab tests, medications, disease status, etc.
- Information mostly available as unstructured free text
- Extracting key information can facilitate the medical diagnosis process

Lawrence Weed

American physician

Born: December 26, 1923, Troy, NY

Died: June 3, 2017, Underhill, VT



Lawrence Leonard "Larry" Weed was an American physician, researchereducator, entrepreneur and author, who is best known for creating the problem-oriented medical record as well as one of the first electronic health records.

Probability Prediction

Demo 2

Asthma_Probability

Hypercholesterolemia_Probability



Obesity_Probability

Summary Past

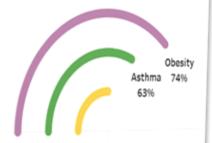
Patient Info

Gender Age Admission Status Service Discharge Female 7/12/2006 Signed None 11/4/2006 78%

Electronic Health Records (EHRs) - Past



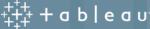
Health Status



Hypertension, hypertrophic cardiomyopathy, cigarette smoking, obstructive sleep apnea on CPAP, morbid obesity, status post gastric banding in 1998, chronic lower back pain, sciatica , history of DVT off Coumadin since 2000 and aortic insufficiency.

Learning Resources

- Tableau Prep integration with Python
- Python in Tableau Prep: Simple useful scripts
- Advanced Analytic with TabPy
- <u>TabPy Tools</u>
- Tableau Sci-Fic: Tableau + Data Science
- https://www.tableau.com/about/blog/2018/7/master-tableau-prep-list-learning-resources-92064?edition=prep&lang=en-us&platform=mac&version=2019.4.1

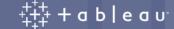


Register for the Next Show Feb 20th 12:00 Eastern

Skill Pill 5: Tableau Blueprint: Healthcare Edition

https://www.tableau.com/learn/series/tableau-for-healthcare





tableauhealthcareshow@tableau.com

We are listening and want your input!



##