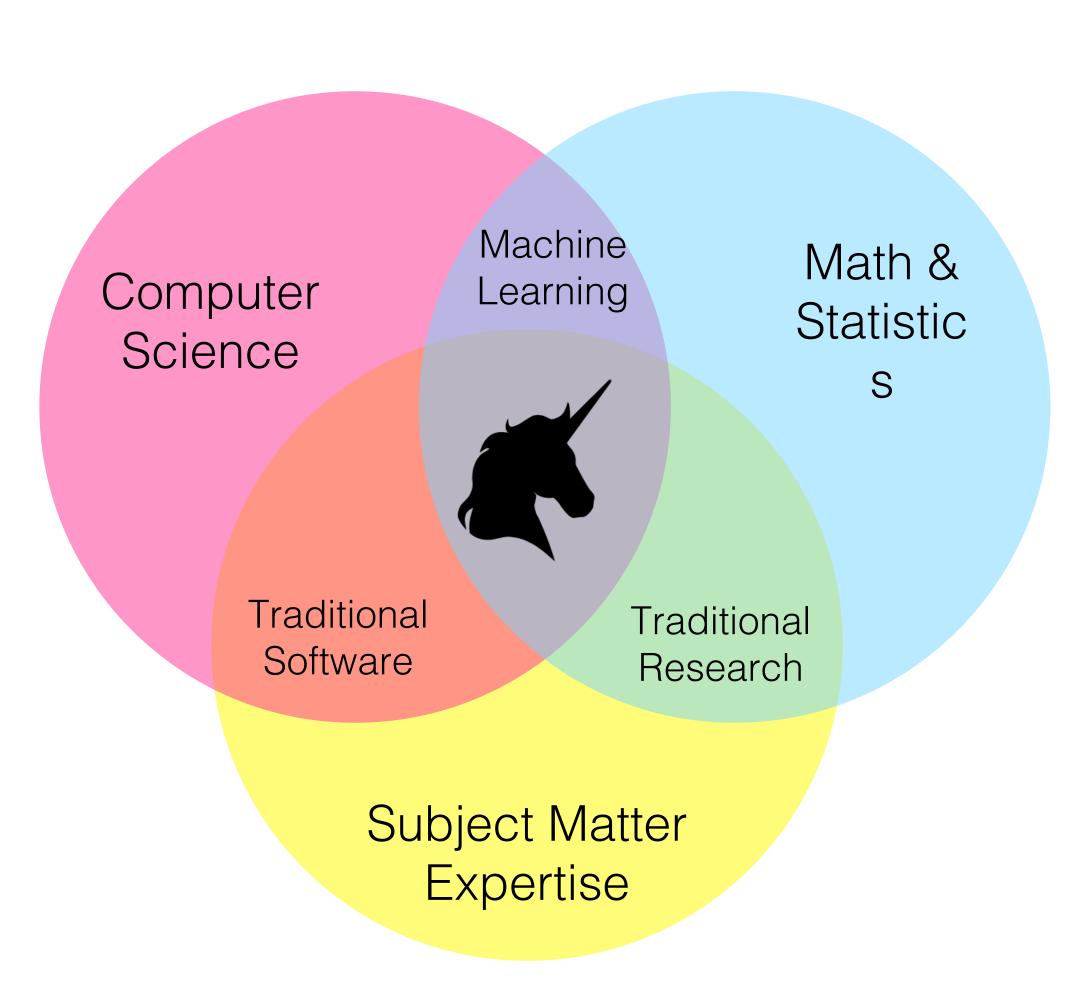
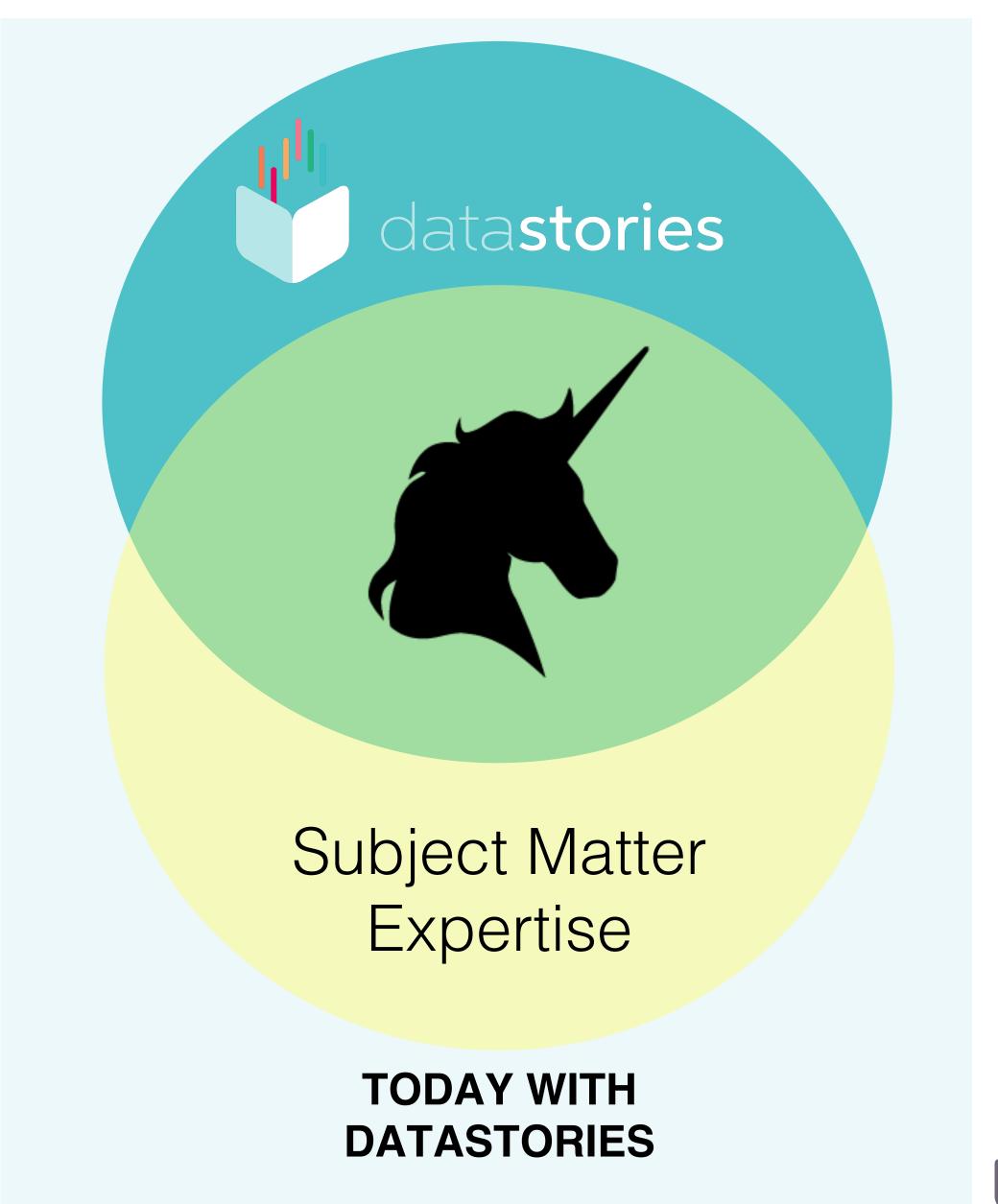


SYSTEMATIC INNOVATION ORGANIZATION



BEFORE





AMBITION: # in R&D



Al for domain experts...



1.000 data scientists in-a-box



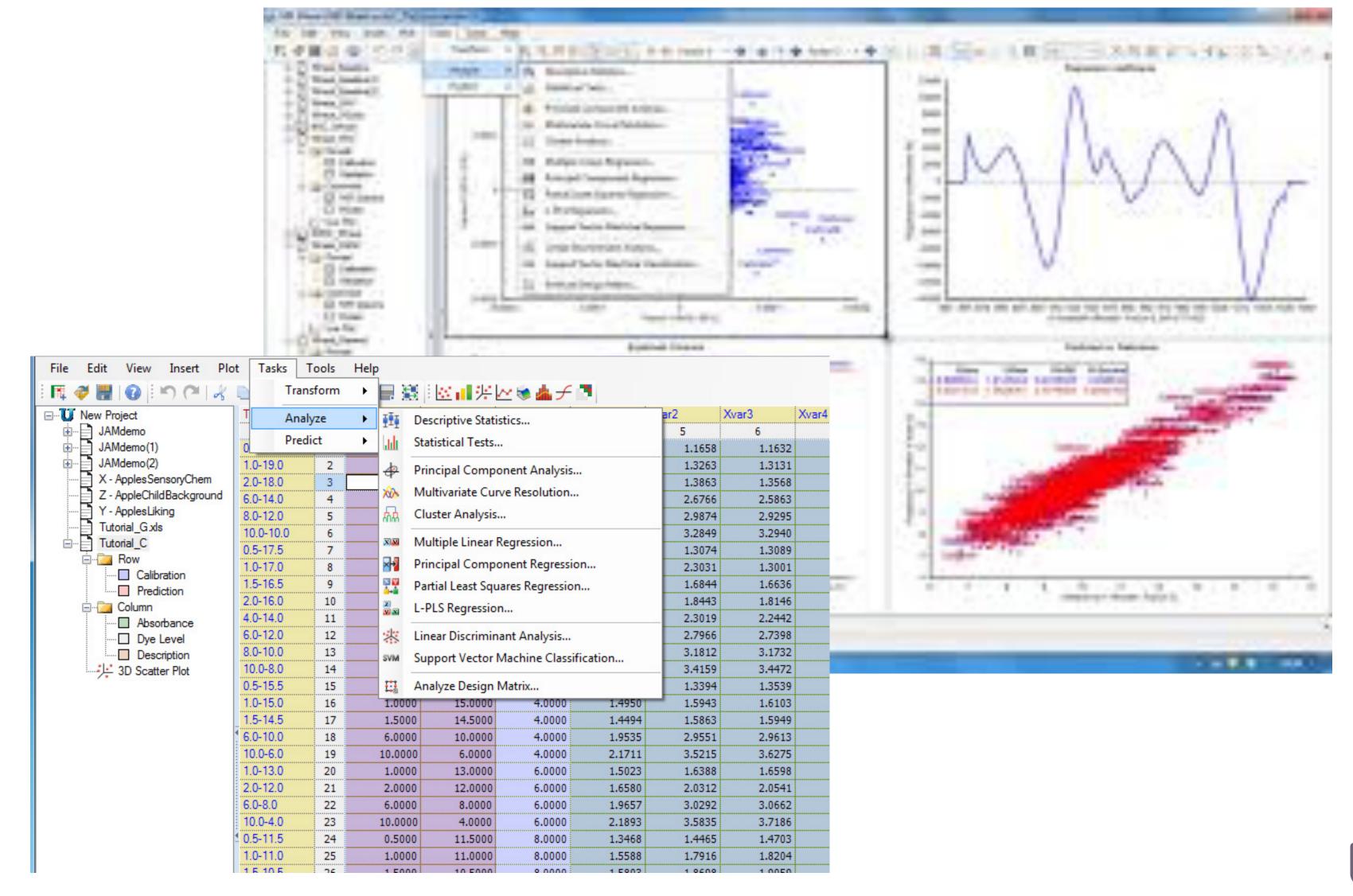


Four main challenges

- 1. How does everything interconnects with each other?
- 2. What are the dominant variables?
- 3. How can I achieve optimal targets?
- 4. What are the exceptions to the rule?



TRADITIONAL APPROACH





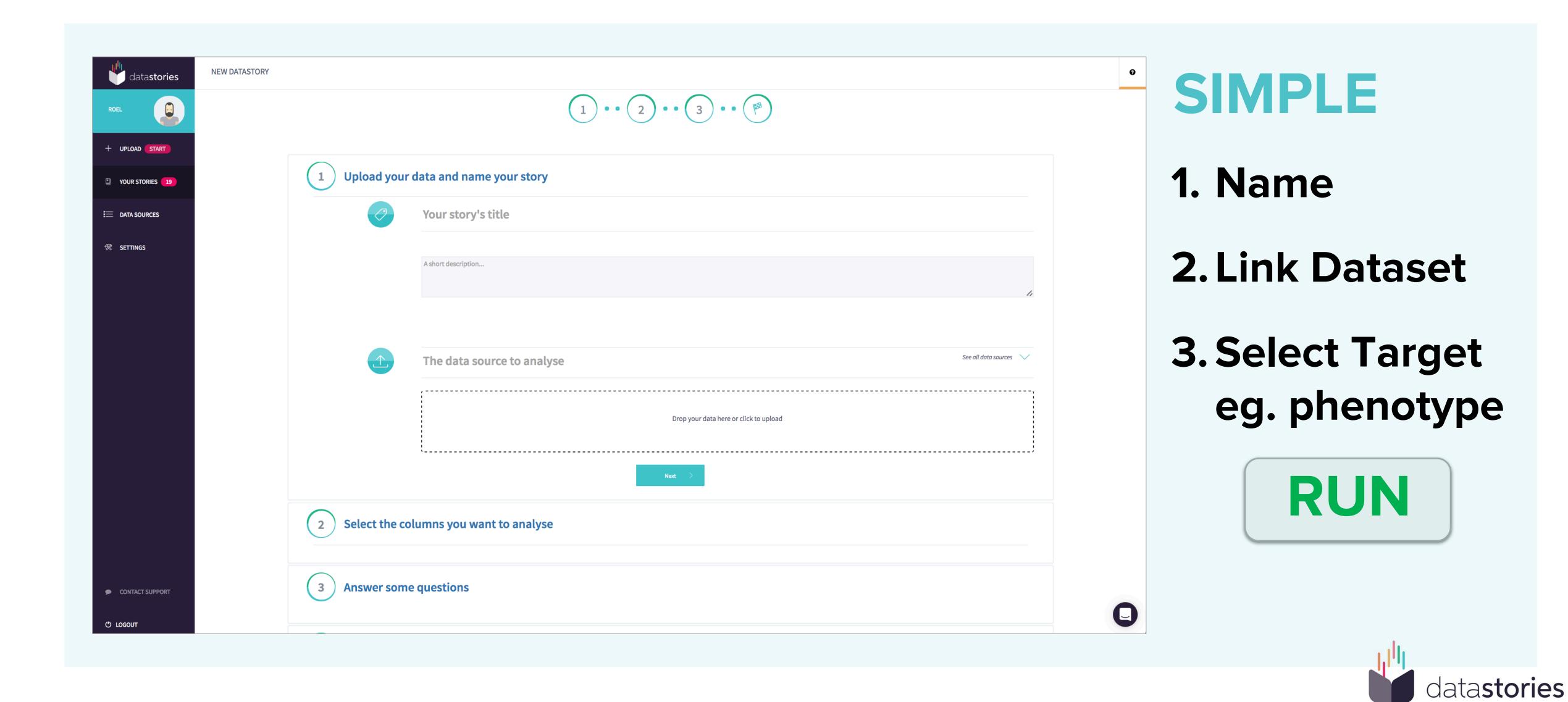
FINDING THE RIGHT SNPs

OVER A CUP OF





FINDING THE RIGHT SNPs



RESULTS

datastories

ACCURACY IMPROVEMENT WITH 20% TO 200%

WITH ONLY DOMINANT VARIABLES > 4 TO 10 SNPs in different cases





FINDING THE RIGHT QTL's

OVERA





CHALLENGE

• +8000 QTLs

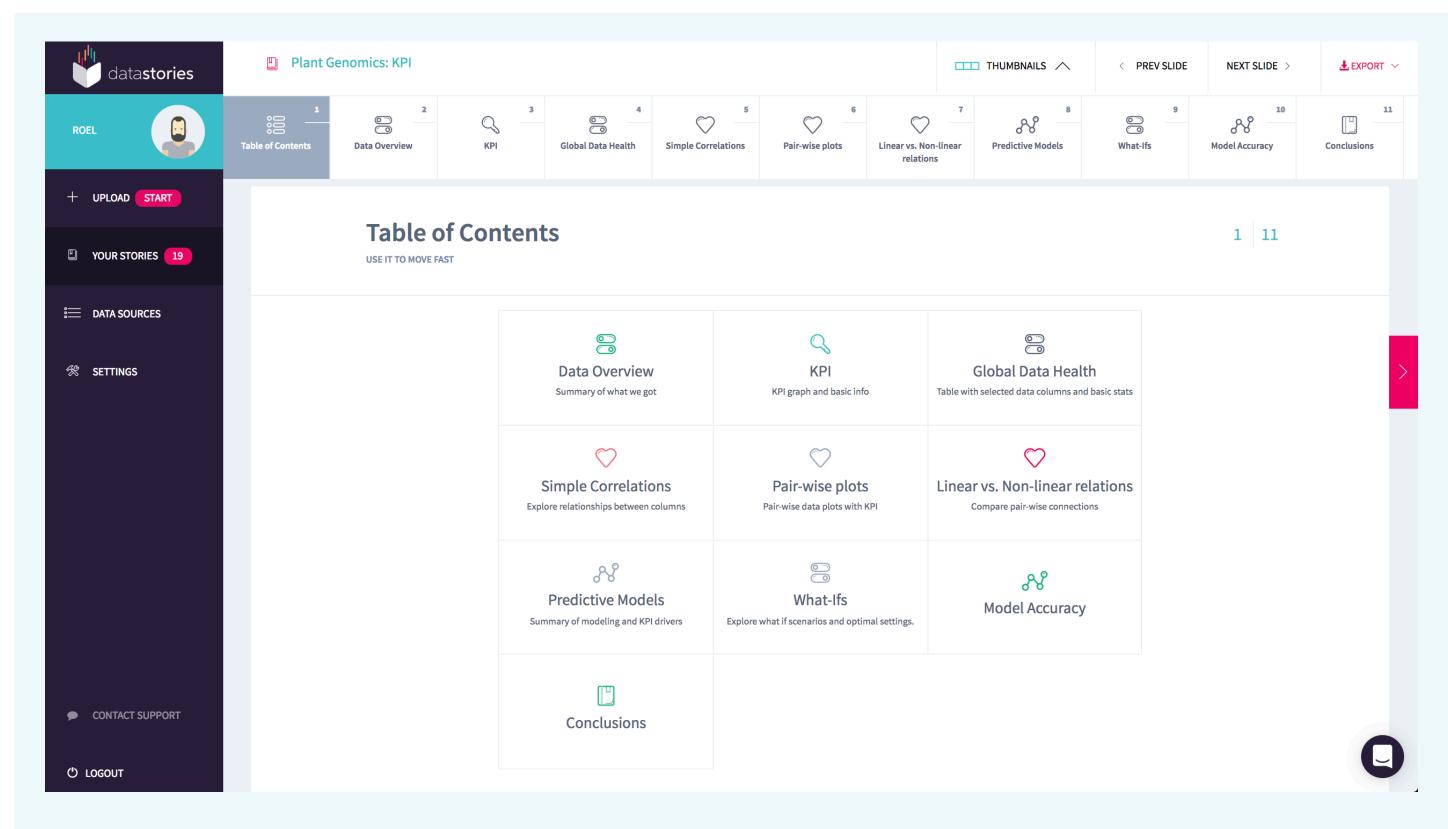
• ONLY 150 MEASUREMENTS

• RESULT OF WEEKS: 45% accuracy

WHICH ARE THE DOMINANT QTLs?







The story behind your data.







Robust & Automatic correction for: missing data, unbalance, binary, categorical, etc...

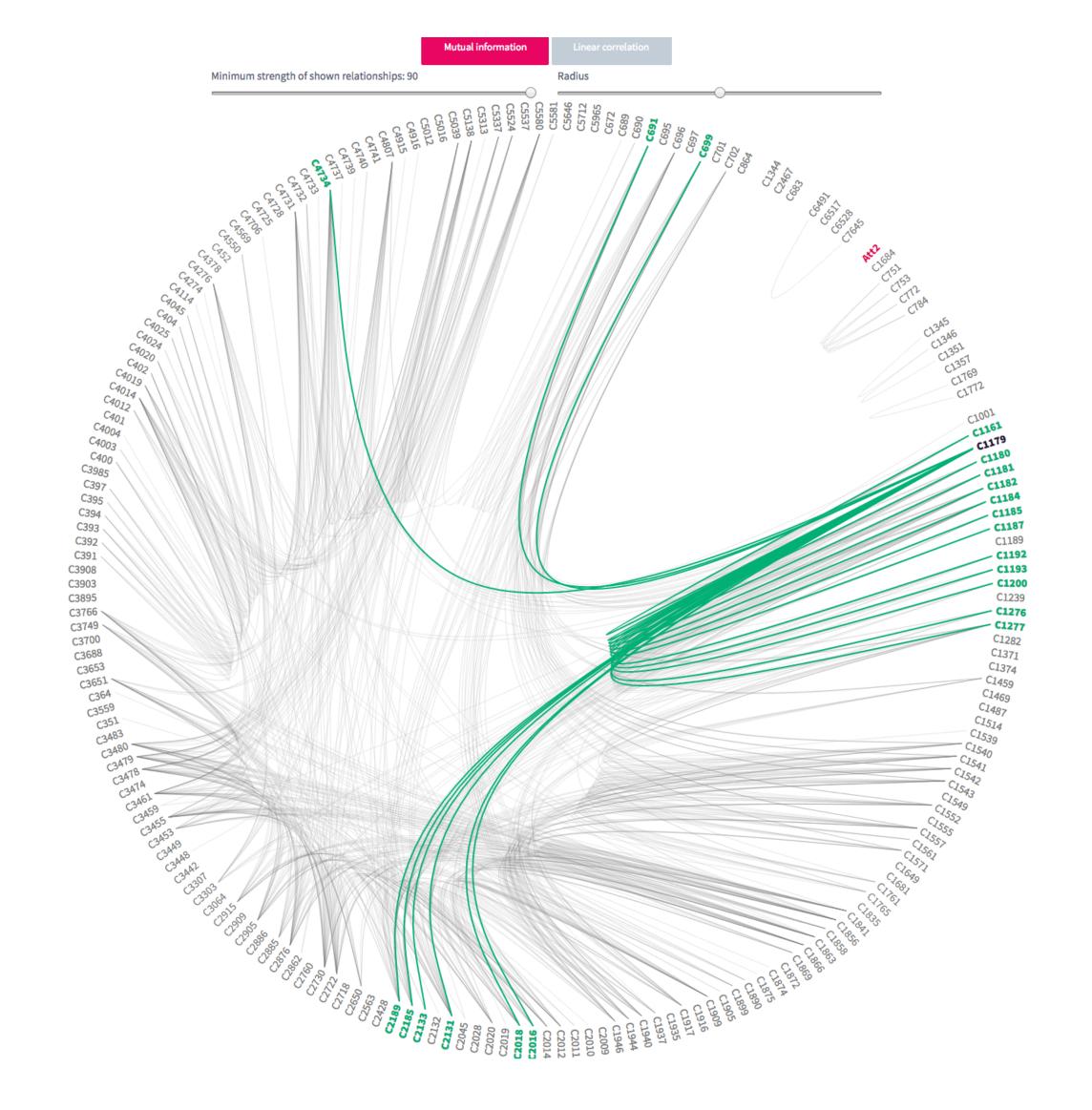












Non-linear correlation linkage map



datastories





RESULT

AFTER LESS THAN 1 HOUR

datastories

• IDENTIFIED 4 DOMINANT QTLs

 ACCURACY IMPROVED FROM 45% TO 81%





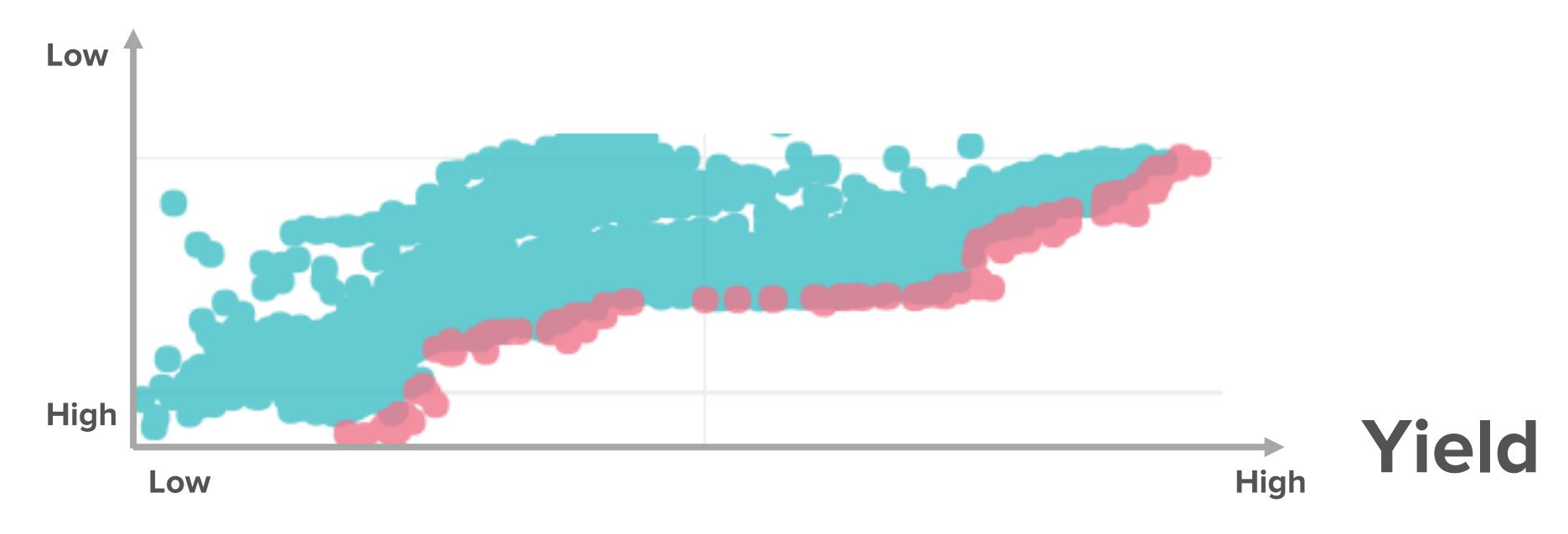
MULTI-OBJECTIVE OPTIMISATION

eg. Yield & Resistance



IN-SILICO EXPERIMENTS

Resistance





WORK IN PROCESS

datastories

PROPRIETARY TECHNOLOGY DATASTORIES CRISPR

For millions of variables





APPROACH



 APPLIED OUR IoT BEST PRACTICES FROM THE INDUSTRY

• INSPIRED BY GENOMICS PROPRIETARY TECHNOLOGY FOR VIRTUAL MARKERS



RESULT DATASTORIES CRISPR

datastories

ACCURACY IMPROVED FROM 45% (PCA) TO +84% (DataStories)







• AI SOFTWARE FOR RESEARCHERS

MULTI OBJECTIVE OPTIMISATION

 SMART DESIGN OF EXPERIMENTS 100x to 500x faster

UNICORN ACADEMY



Unicorn Academy

- Fundamentals of Data Science
- Advanced Data Science
- Business-driven Data Science
- Data science for R&D
- Systematic Innovation Organisation
- The Data infrastructure and Data engineering behind Data
 Science / Big Data





