



# Big Data Aggregation

Jonathan Spinetto / Lucie Fortier



**2017**  **RESO™ TECHNOLOGY SUMMIT**  
ORCHESTRATING COLLABORATION & INNOVATION

# SPEAKERS

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✓ Public Records

✓ MLS Data

✓ School Info

✓ Mortgage Info

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✓ Demographics

✓ Statistics



# The missing element:



John Doe  
johndoe@email.com  
999.999.9999



**600M+**

Unique properties  
and transactions

**260M+**

Individual adult  
consumer records

**1Bil+**

Phone, email and  
social media info

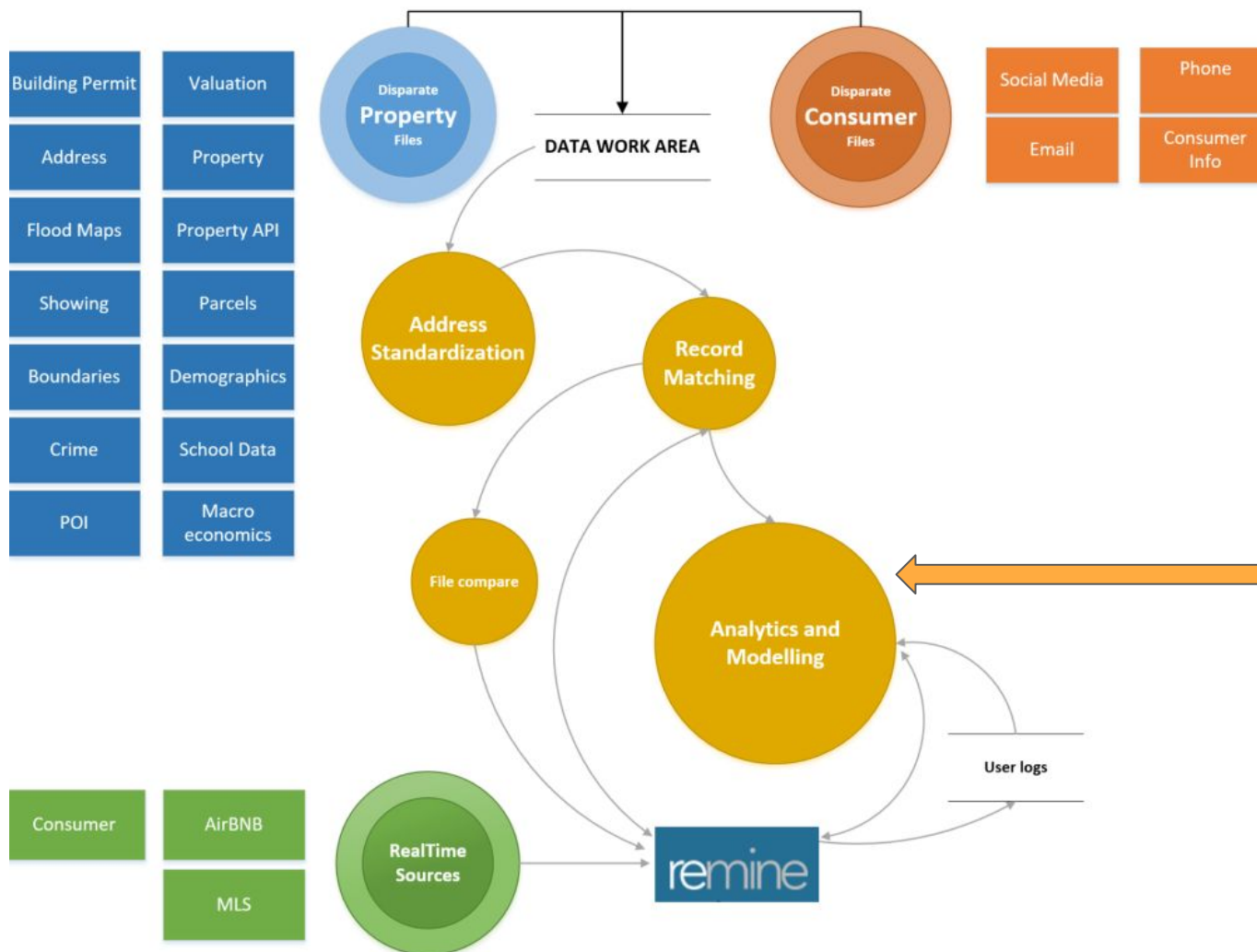


- Home values
- Taxation rates
- Mortgage rates
- Energy consumption
- Life stage & events
- Macroeconomics
- Traffic patterns

# BIG DATA!

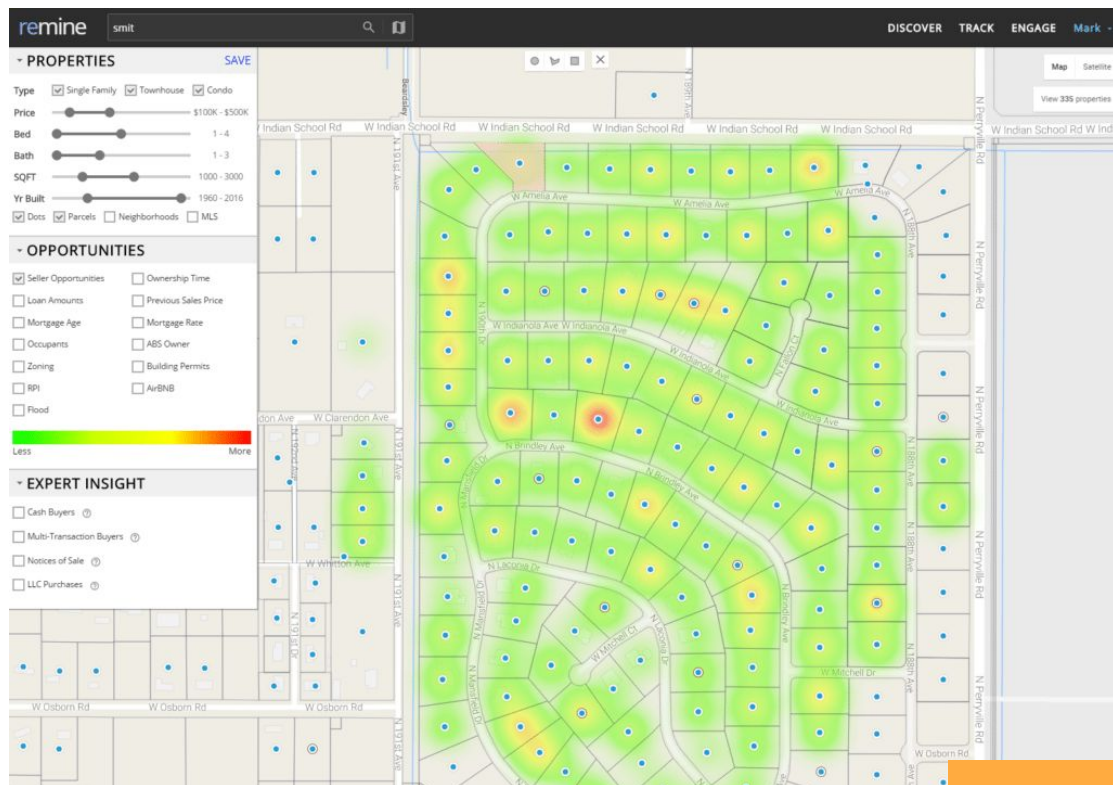


## Connecting the dots to discover hidden patterns



**Machine learning** the study and construction of algorithms that can **learn** from and make predictions on data.

# Predictive Analytics: Remine Sell Score



## Predictions

0 – 6 months

7 – 12 months

13 – 18 months

19 – 24 months

25 + months

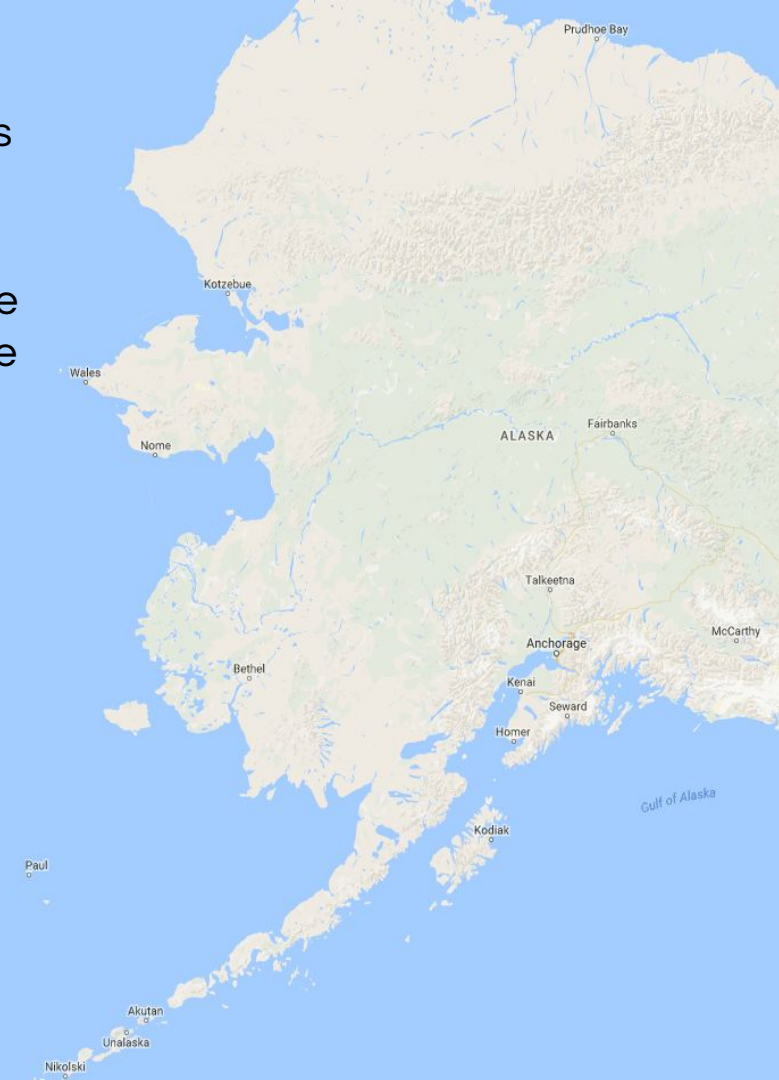
# 98.6 – 98.9 % Accuracy



**Precision (positive predictive value):** number of true positives divided by the total number of elements labeled as belonging to the positive class

**Recall (sensitivity):** number of true positives divided by the total number of elements that actually belong to the positive class

Prediction	Recall
0 – 6 months	89.9%
7 – 12 months	↓
13 – 18 months	
19 – 24 months	
25 + months	95.8%



# Data Challenge #1



## Data Challenge #2



Garbage In – Garbage Out

## Data Challenge #3









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