



2017 Fall Conference

**GETTING DOWN TO BUSINESS
UTILIZING DATA STANDARDS**

Leveraging Predictive Analytics



WHO AM I?



COMPETENCIES (AS FAR AS YOU KNOW)

- Predictive Analytics (we'll get to this phrase)
- Marketing Intelligence
- Product Channels
- Prompt Presentations – to not impact lunch schedule (my strength)

CONNECT?

mauseth@mapvida.com

Facebook.com/Mapvida

info@mapvida.com (if you like MapVida, but don't want to talk with me)

“PREDICTIVE ANALYTICS”: ANOTHER BUZZ PHRASE?

Top Data Buzz Phrases

- **Predictive Analytics**
- Artificial Intelligence
- Small Data
- Fast Data
- Dark Data/Moneyball

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Big Reveal:

MapVida is focused on *Predictive Analytics*. I fear the phrase may be close to....

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“predictive analytics”

shark



JUMPING THE SHARK HAS ADVANTAGES – IT'S EVERYWHERE

Customers Who Bought This Item Also Bought



Coleman Palmetto Cool-Weather Sleeping Bag

★★★★☆ 248

\$24.99 ✓Prime



Slumberjack Latitude 20 Degree Synthetic Sleeping Bag

★★★★☆ 117

\$48.95 - \$9,993.00



Coleman Brazos 20 Degree Sleeping Bag

★★★★☆ 255

\$29.89 - \$139.20

HOW YOU SHOP

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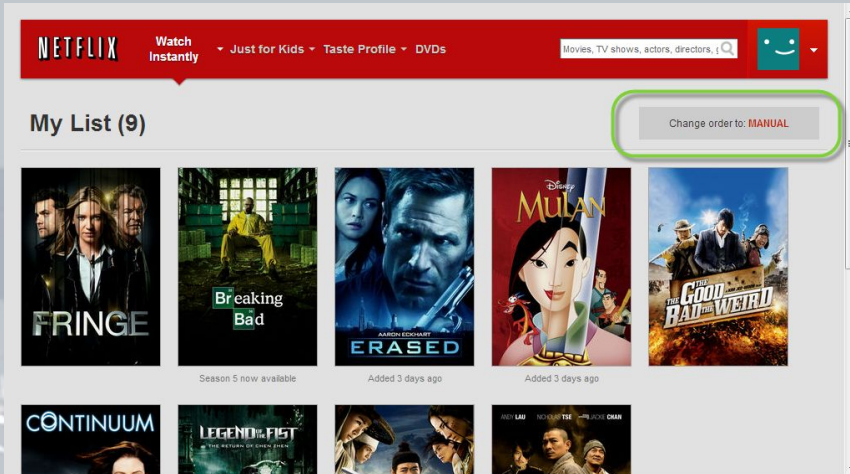


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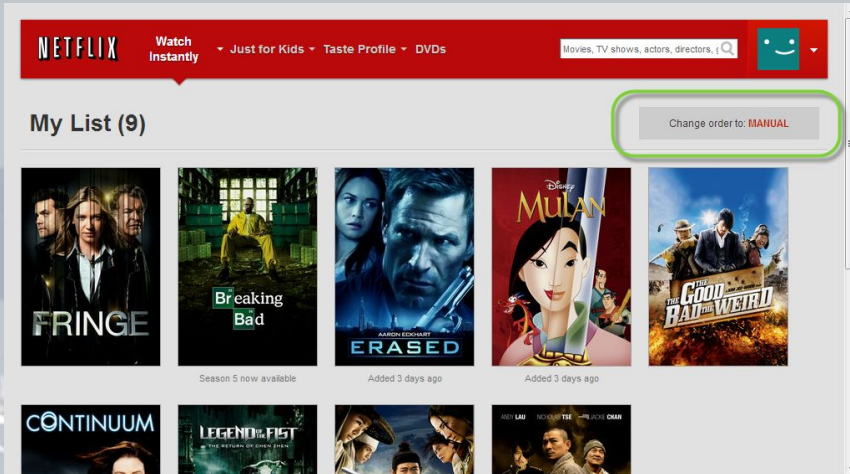


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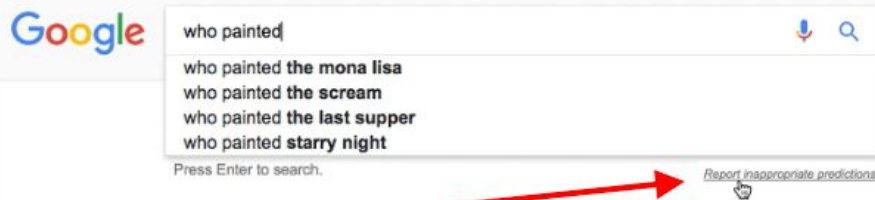
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ASSIST WITH SEARCH

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HOW YOU SHOP

Google

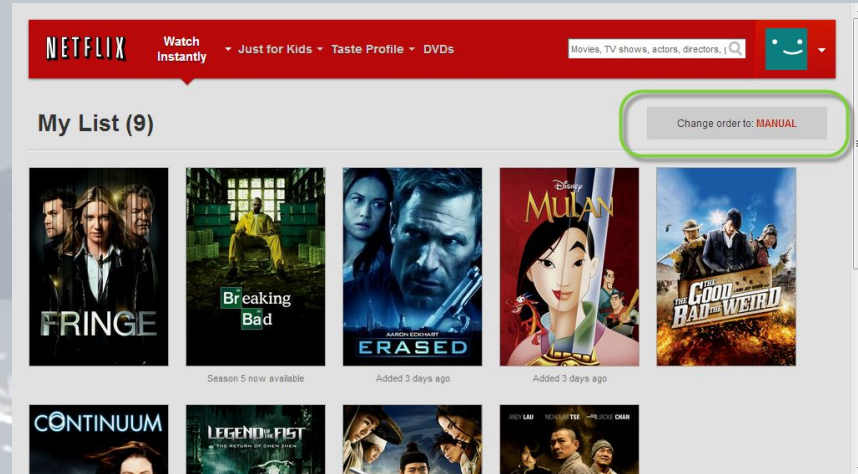
who painted

who painted the mona lisa
who painted the scream
who painted the last supper
who painted starry night

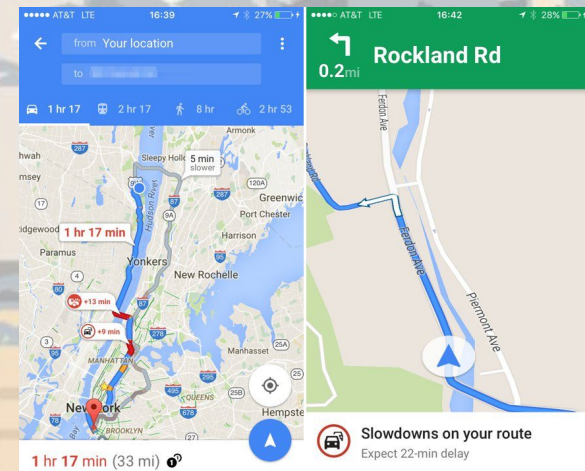
Press Enter to search.

[Report inappropriate predictions](#)

ASSIST WITH SEARCH



WHAT YOU WATCH



ASSIST WITH COMMUTES

WHAT ABOUT REAL ESTATE?: USES OF PREDICTIVE ANALYTICS

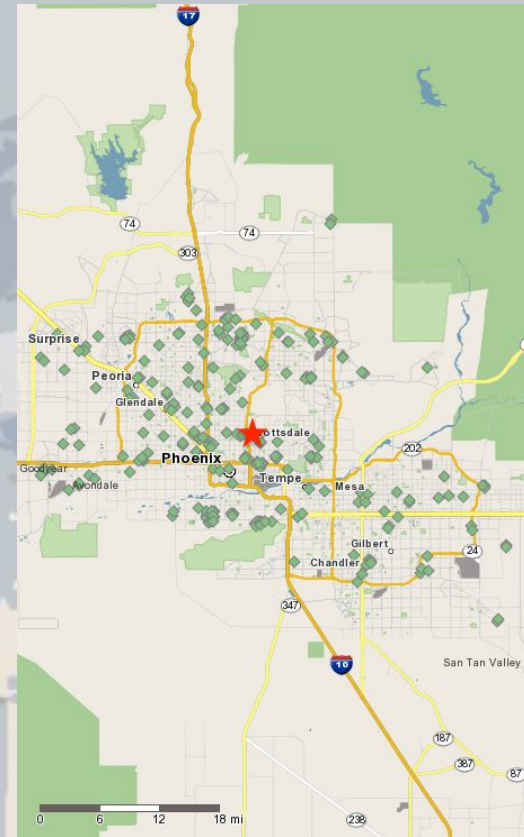


HOW CONSUMERS SEARCH

WHAT ABOUT REAL ESTATE?: USES OF PREDICTIVE ANALYTICS



HOW CONSUMERS SEARCH

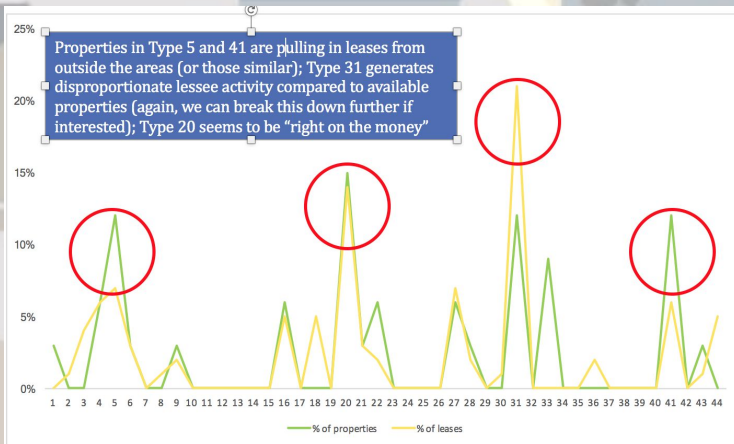
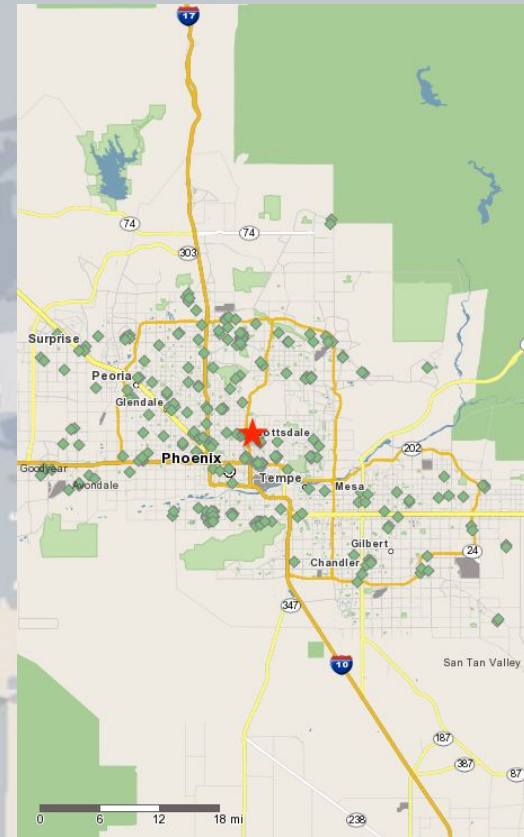


FINDING HOME
SELLERS/BUYERS

WHAT ABOUT REAL ESTATE?: USES OF PREDICTIVE ANALYTICS



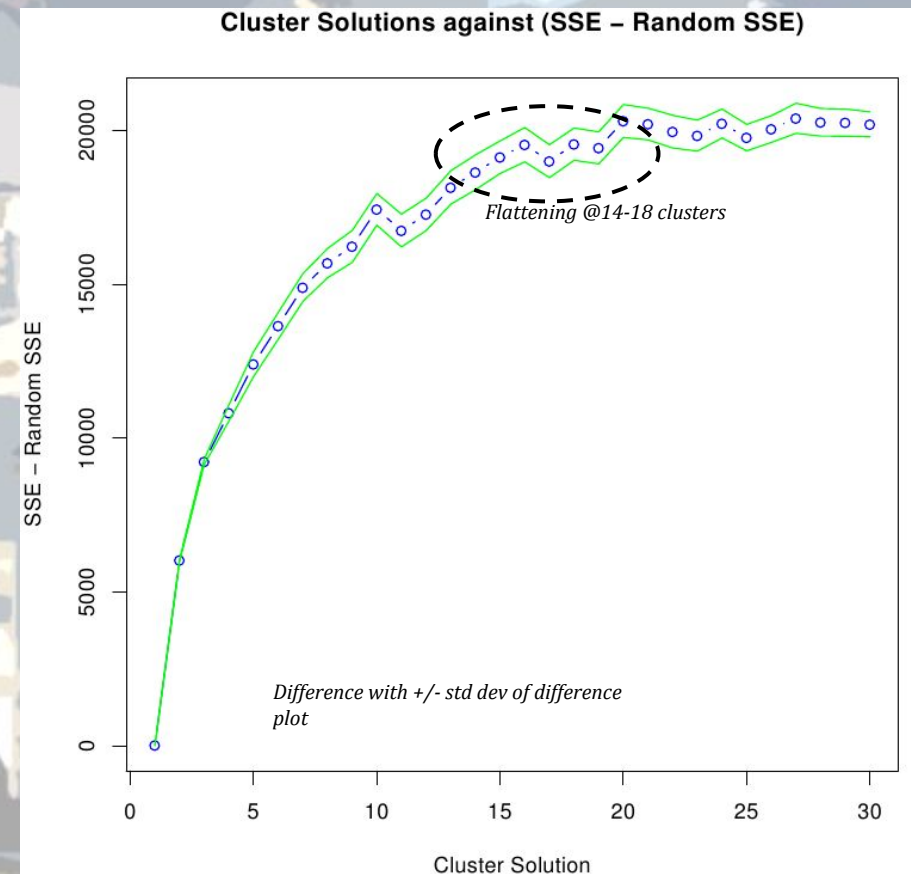
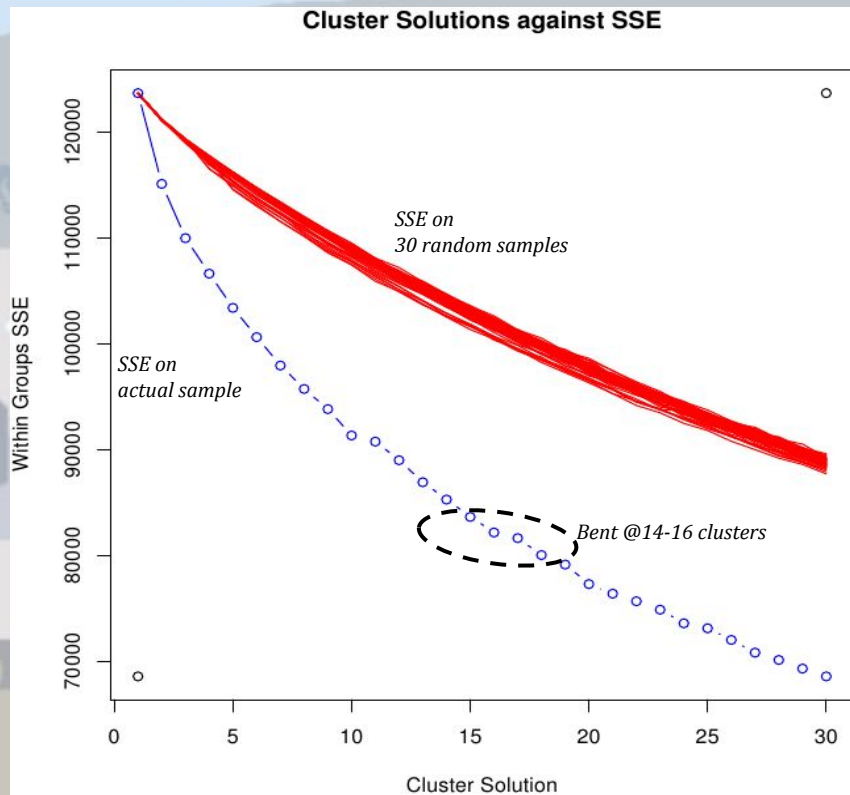
HOW CONSUMERS SEARCH



FINDING HOME SELLERS/BUYERS

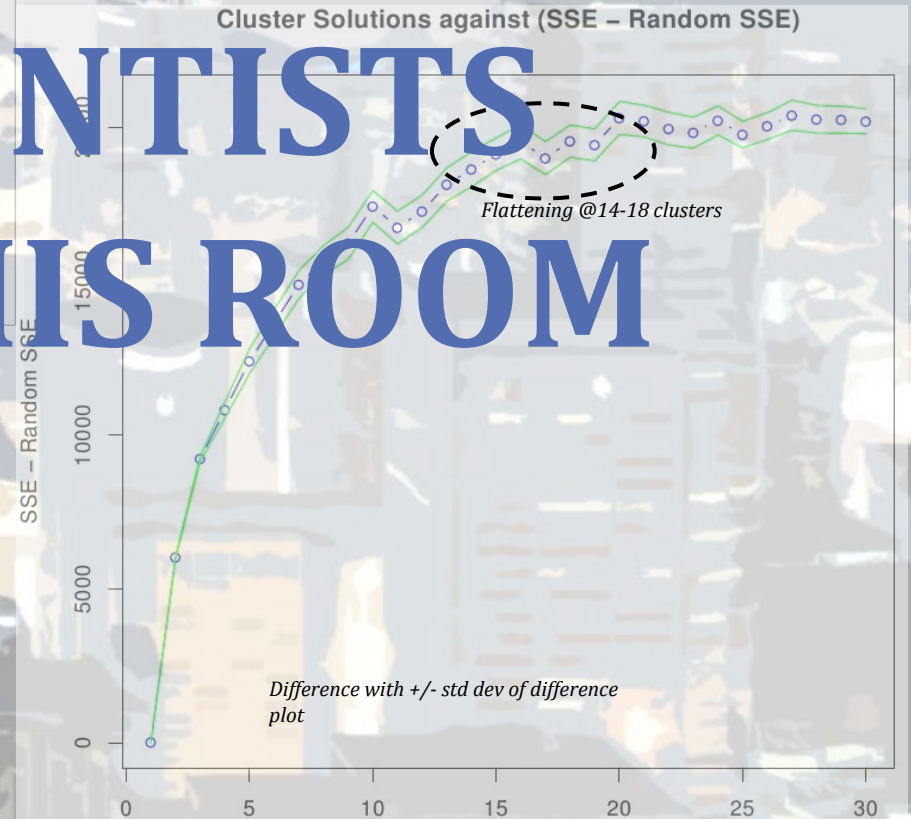
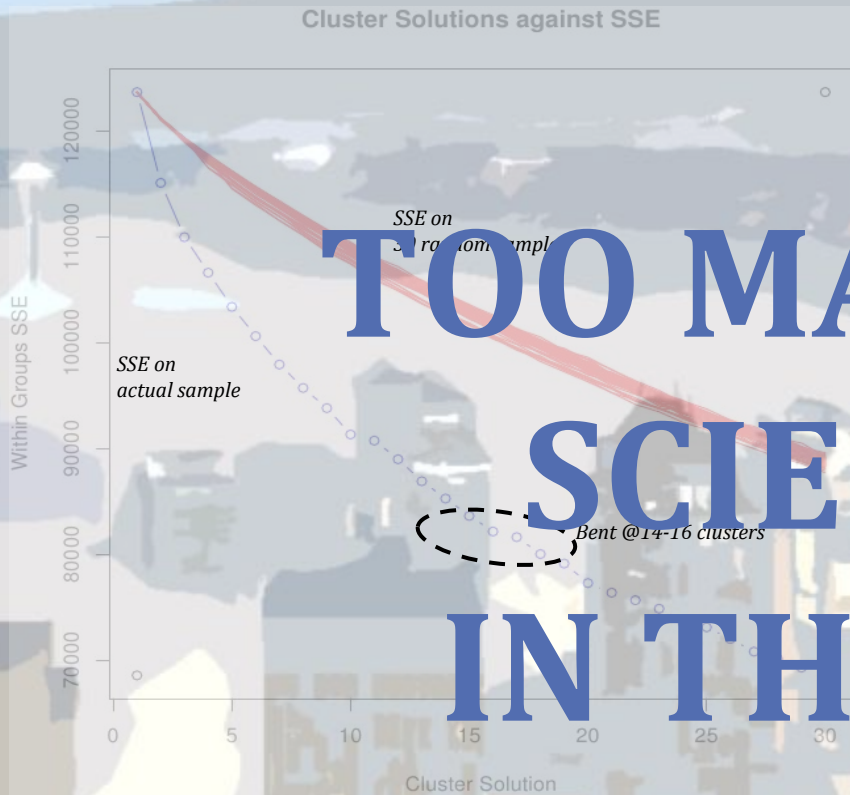
FINE-TUNING DUE DILIGENCE

EXAMPLES OF CREATING A PREDICTIVE APPROACH



EXAMPLES OF CREATING A PREDICTIVE APPROACH

TOO MANY DATA
SCIENTISTS
IN THIS ROOM



PREDICTIVE ANALYTICS CONCEPTS

BASICS

- What are the outcomes you're looking to predict (this can be harder than you may think)
- Determine the predictive method that works best with your data/approach (consult with your data scientist)
- Validate often and iterate

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BUSINESS

- Does your business generate data/outcomes (it does, but can you access at scale)
- What are the risks of use (risks of the model not working well, or regulatory risks)
- Implementation and ease of use (this is the biggest obstacle)

WAKE
UP



IT'S ABOUT TO GET MORE INTERESTING

REAL ESTATE PREDICTIVE EXAMPLES



THE PROBLEMS

CONSUMER: LOCATIONS AREN'T PUT INTO "CONTEXT"

Renting an Apartment

Buying a Home

Travel and Explore

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BUSINESS: IMPROVE REACH TO AUDIENCES AND LOCATIONS FOR GROWTH

Marketing Intelligence

Site Acquisition

Asset Management

HOW WE ADDRESS THE PROBLEMS





**PROSPECT
TOOLS**

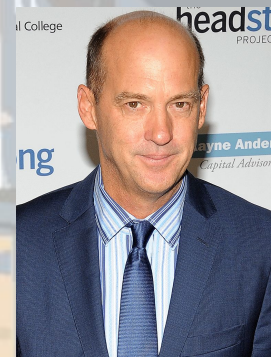


**PREDICTIVE
ANALYTICS**

WE FIND “LOOK-ALIKE” NEIGHBORHOODS



**MARKETING
TOOLS**



**BUSINESS
INTELLIGENCE**



**PROSPECT
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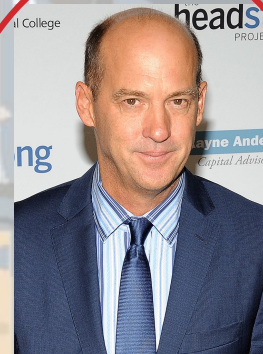


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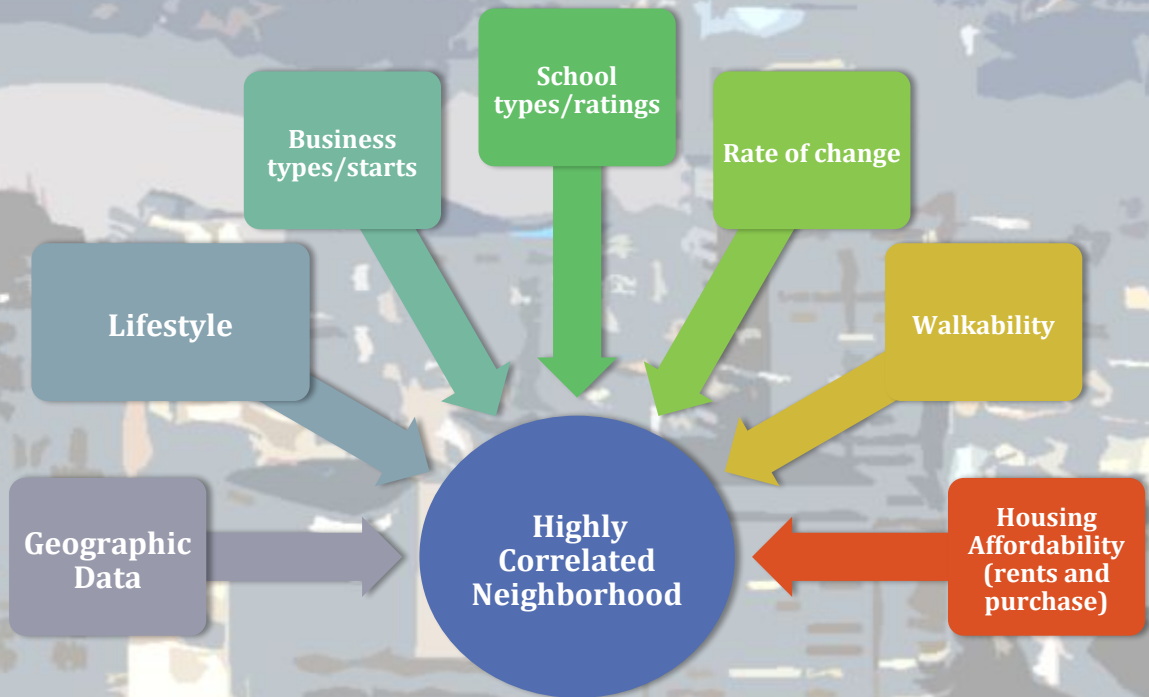
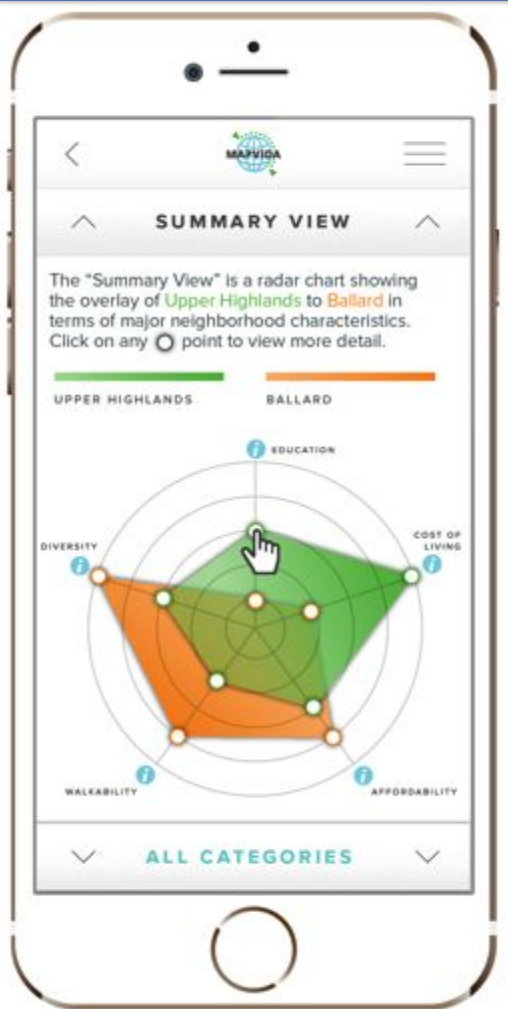


**BUSINESS
INTELLIGENCE**

WE CREATED NEIGHBORHOOD CLUSTERS – AND ALLOW CONFIGURATION

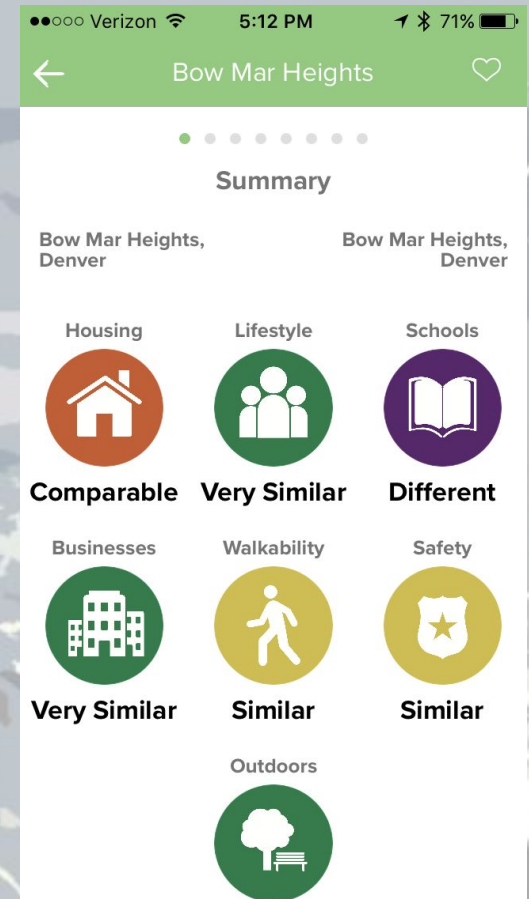
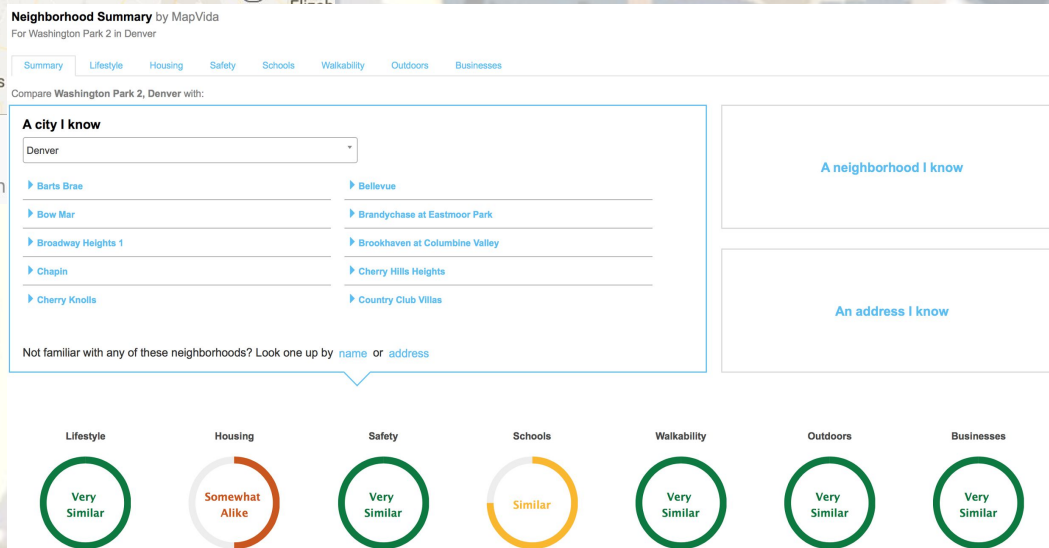
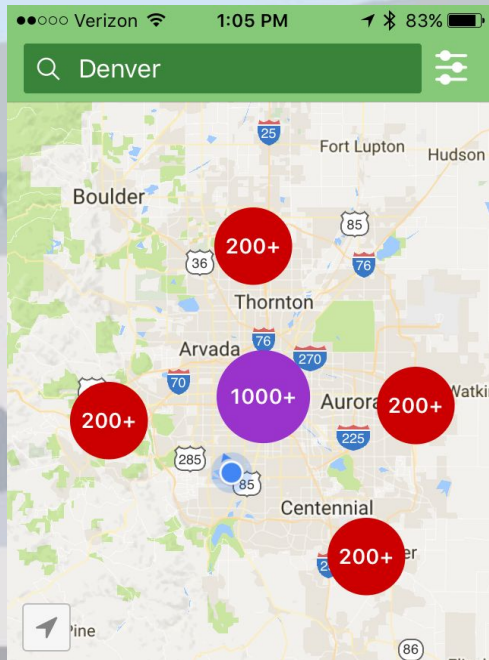
MapVida Compares and Contrasts Familiar Neighborhoods

MapVida Clusters Millions of Neighborhood Data Points to Find the Familiar

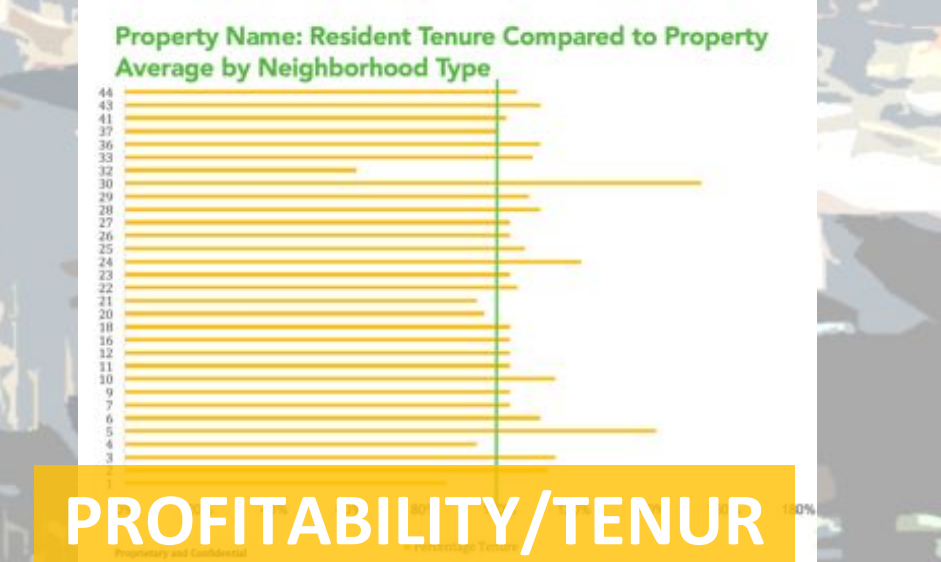
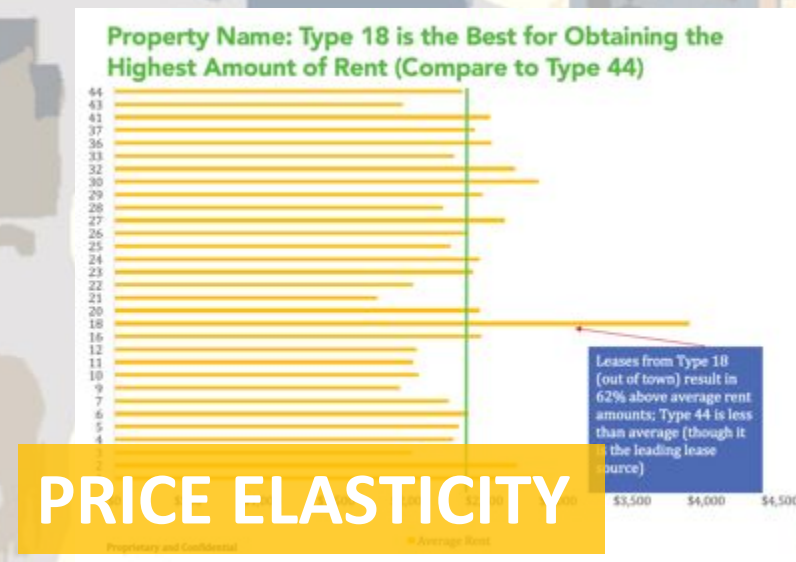
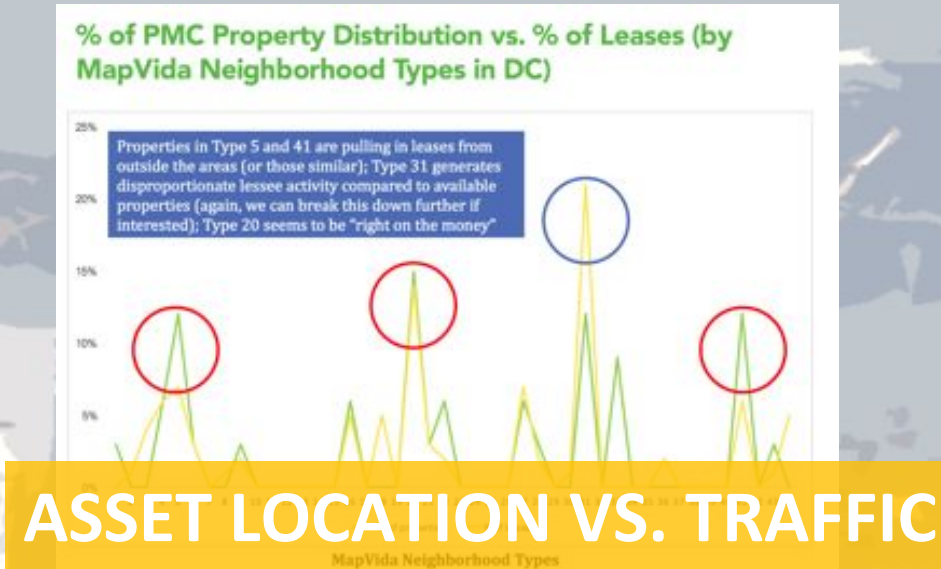


- Measure 17+ Years Rate of Change (not just a static snapshot of the neighborhood)
- Coverage: Top 150 MSAs in U.S.

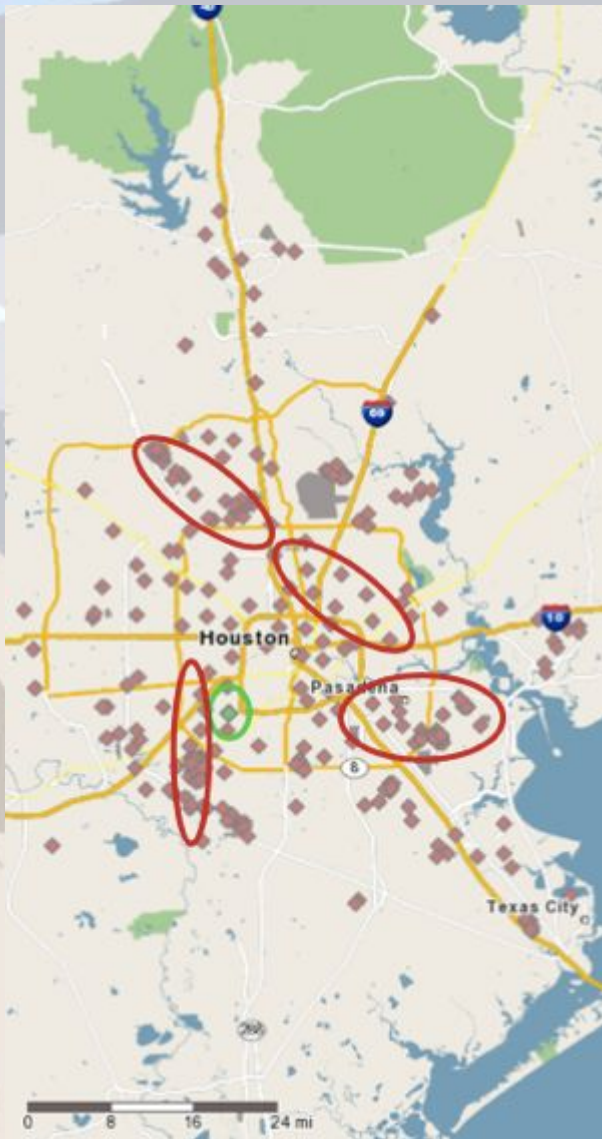
CREATED CONSUMER FACING TOOLS – TO HELP NAVIGATE UNKNOWN AREAS VIA DATA AND CONTEXT



WE STARTED COMPARING OUTCOMES TO CLUSTER DISTRIBUTIONS – TO FIND OVERPERFORMING AREAS



FORTUNATELY FOR US, OUR APPROACH IS WORKING – MARKETING IS MORE EFFECTIVE



57% ↑

Click Through Rate

40% ↓

Cost Per Click

Case study: Company adjusted its advertising to focus on MapVida's suggested neighborhoods

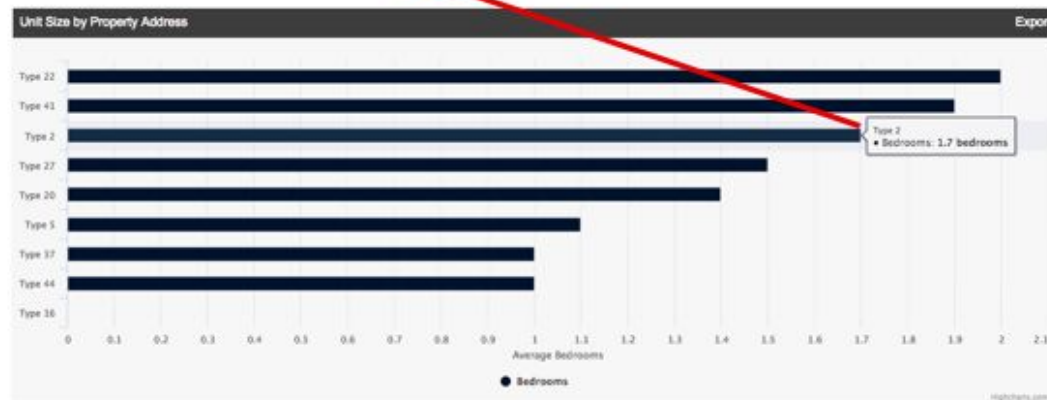
Caveat: Results may vary based on market and previous marketing approach

WE'VE ALSO BEEN ABLE TO ASSESS DEVELOPMENTS BASED ON PROFITABILITY AND MIGRATION PATTERNS

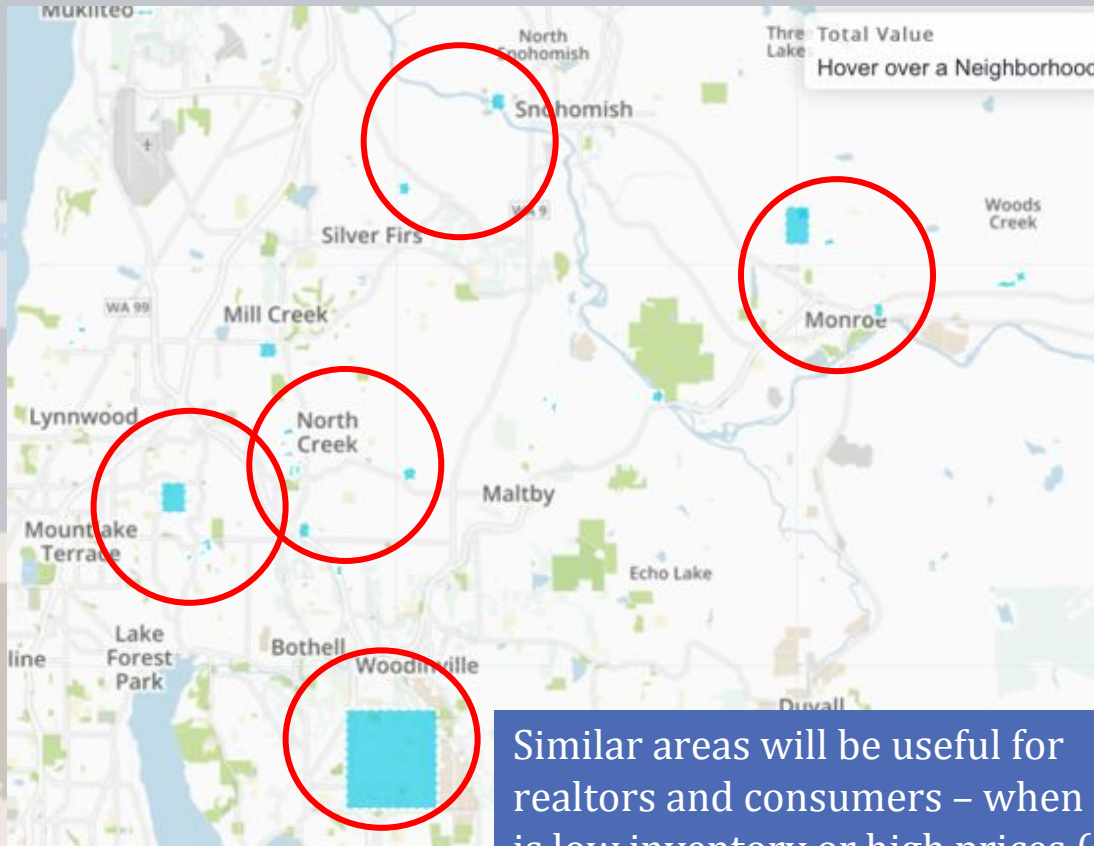


Lessees coming from type 2 neighborhoods are moving from .5 bedroom units while customer's properties in type 2 neighborhoods have 1.7 bedroom units

To attract applicants looking for 2 bedroom units, could focus their marketing on neighborhood types 11, 19, 25, etc...



IDENTIFYING SIMILAR AREAS, BY CLUSTER TYPE, RANKED BY DESIRED OUTCOME



Similar areas will be useful for realtors and consumers – when there is low inventory or high prices (e.g., realtors can offer solutions at all price points)

6

FACTS ABOUT A VERY PROFITABLE NEIGHBORHOOD

HOOD 30

**FEWER PLACES TO EAT**
90+% fewer restaurant options (per sq. mi.) than Seattle average

**SLIGHTLY BETTER INCOMES**
Family income 1% lower than Seattle average

**MUCH LESS WALKABLE**
80-90% fewer gyms, retail, and food options; More solo commuters

**AVERAGE SCHOOL QUALITY**
Elementary to high schools rate averagely; few private schools

**FEWER PUBLIC PARKS**
50% fewer public parks than Seattle average

**MUCH SAFER**
Crime rate is 47% lower than Seattle average

USABILITY WAS PARAMOUNT FOR OUR APPROACH

INTUITIVE RESULTS – JUST NEED TO KNOW WHAT YOU LIKE

An aerial photograph of a city, likely San Francisco, showing the Golden Gate Bridge and surrounding urban landscape. The image is overlaid with three horizontal banners: a green one at the top, and two yellow ones in the middle. The text on the banners is white and bold.

USABILITY WAS PARAMOUNT FOR OUR APPROACH

INTUITIVE RESULTS – JUST NEED TO KNOW WHAT YOU LIKE

PERFORMANCE MEASURED ON ACCURACY AND EFFICIENCY



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MASS CUSTOMIZATION – APPLY TO CUSTOMER DATA



HERE COMES THE PITCH!



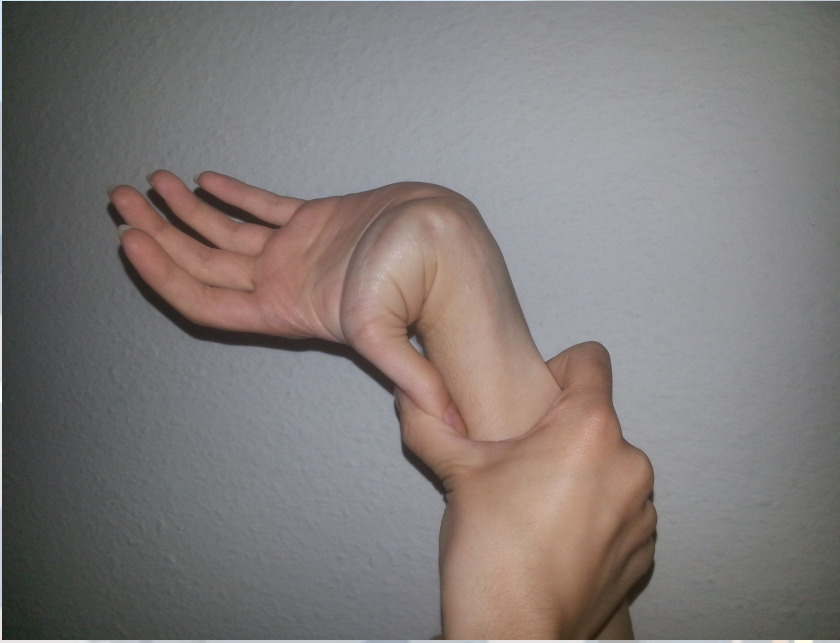
PICK YOUR CLICHÉ (THEY'RE TRUE, BUT STILL CLICHÉ'S)



WE'VE DONE A LOT OF HEAVY LIFTING – WITH RESPECT TO
NEIGHBORHOOD SIMILARITIES, LOOKALIKE AUDIENCES



PICK YOUR CLICHÉ (THEY'RE TRUE, BUT STILL CLICHÉ'S)



**WE'RE FLEXIBLE— UP FOR INTERESTING USES OF OUR
MODELS AND PLATFORMS**



PICK YOUR CLICHÉ (THEY'RE TRUE, BUT STILL CLICHÉ'S)



**WE'RE INNOVATIVE—WE'VE PRODUCTIZED ANALYTICS
SUCCESSFULLY AND ARE UP FOR A CHALLENGE**

