ANCHORAGE

i-team

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Data Analyst
Anchorage Innovation Team

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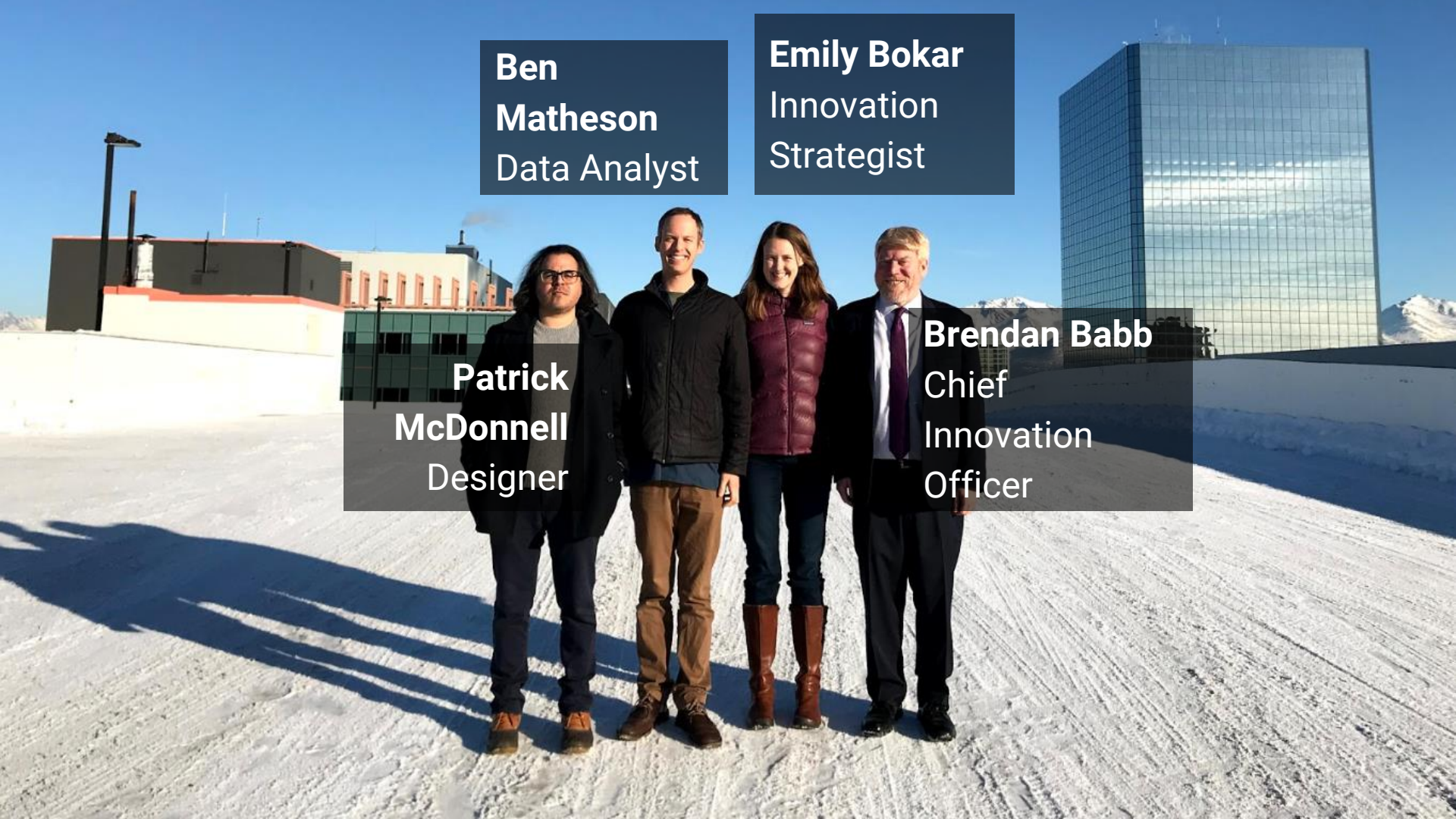
343-6980

- i-team intro
- Open data
- 3 Case studies


City Hall


Ben Matheson
Data Analyst
Emily Bokar
Innovation Strategist
Patrick McDonnell
Designer
Brendan Babb
Chief Innovation Officer

Human centered design
Data
Technology

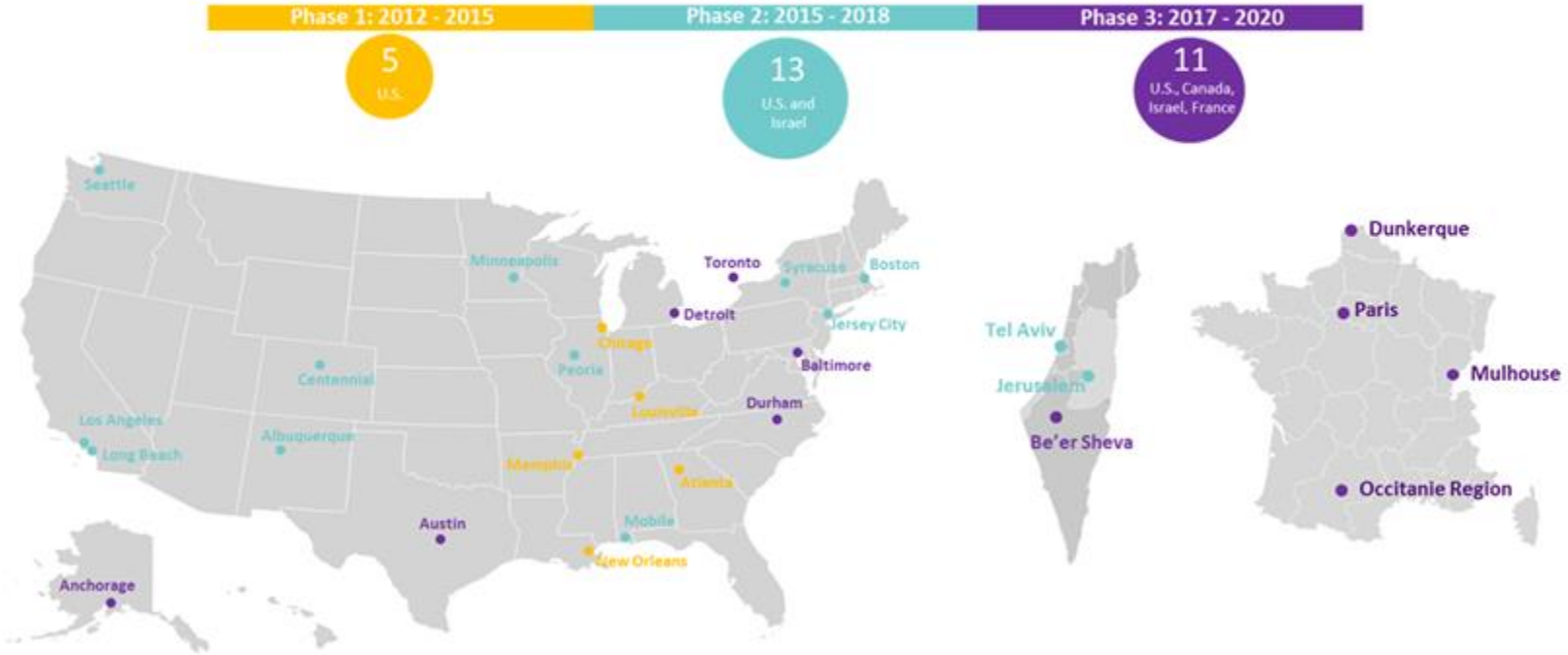
Solve problems in Anchorage

Improve the lives of residents

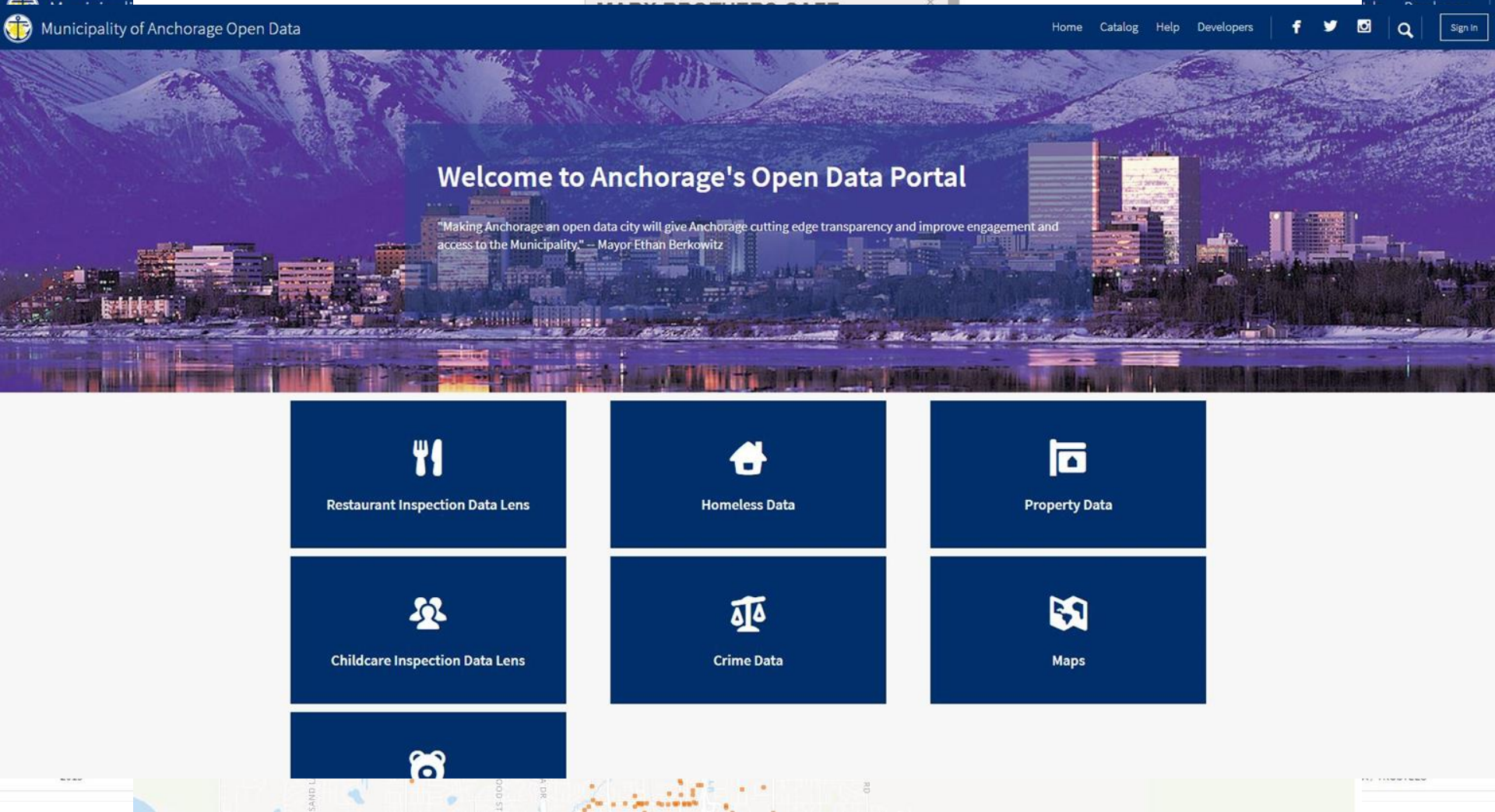

Bloomberg
Philanthropies

INNOVATION TEAMS (i-teams)

Bloomberg Philanthropies has invested in 29 cities across 4 countries



Open data


Municipality of Anchorage Open Data
Home
Catalog
Help
Developers
Sign In
Welcome to Anchorage's Open Data Portal
"Making Anchorage an open data city will give Anchorage cutting edge transparency and improve engagement and access to the Municipality." -- Mayor Ethan Berkowitz
Restaurant Inspection Data Lens
Homeless Data
Property Data
Childcare Inspection Data Lens
Crime Data
Maps

Municipali

MARX BROTHERS CAFE

Help Developers

Restaurant Inspection Data Lens

SOURCE DATASET Restaurant And Food Inspections

This visualization shows a map of all inspections to date, count over time, the ability to search by business name, and the ability to filter by inspection type and location.

Export API

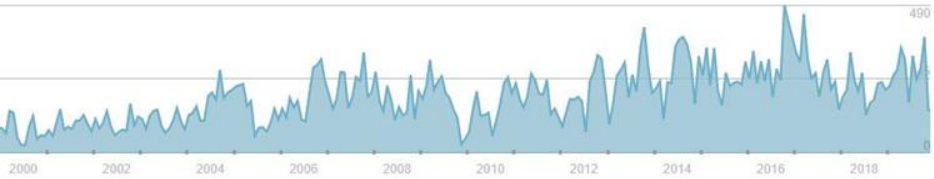
howing all Inspection Results

Rescale Axes on Filter

business_location

Number of Inspection Results by
business_location — Community Councils

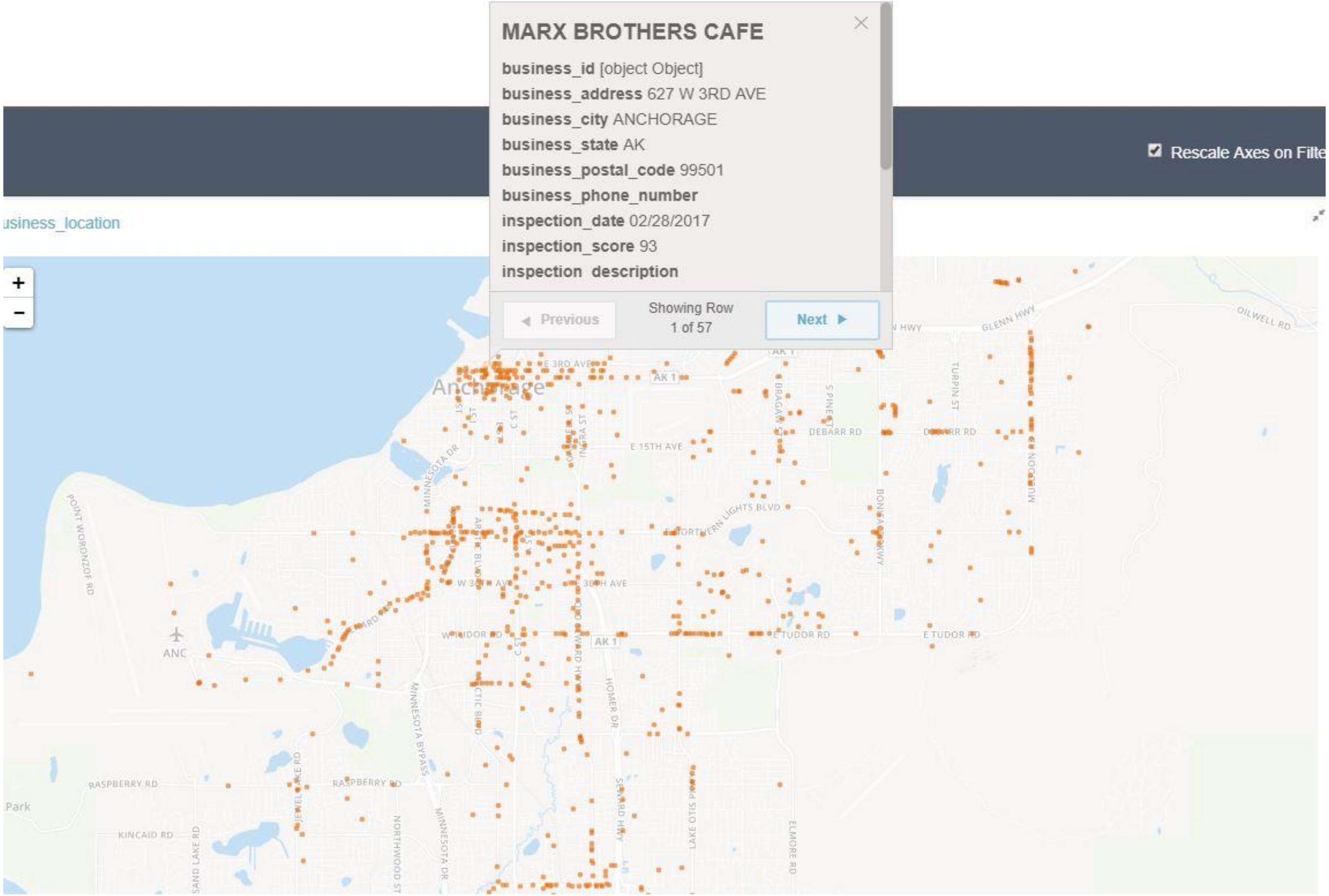
Number of Inspection Results by
inspection_date

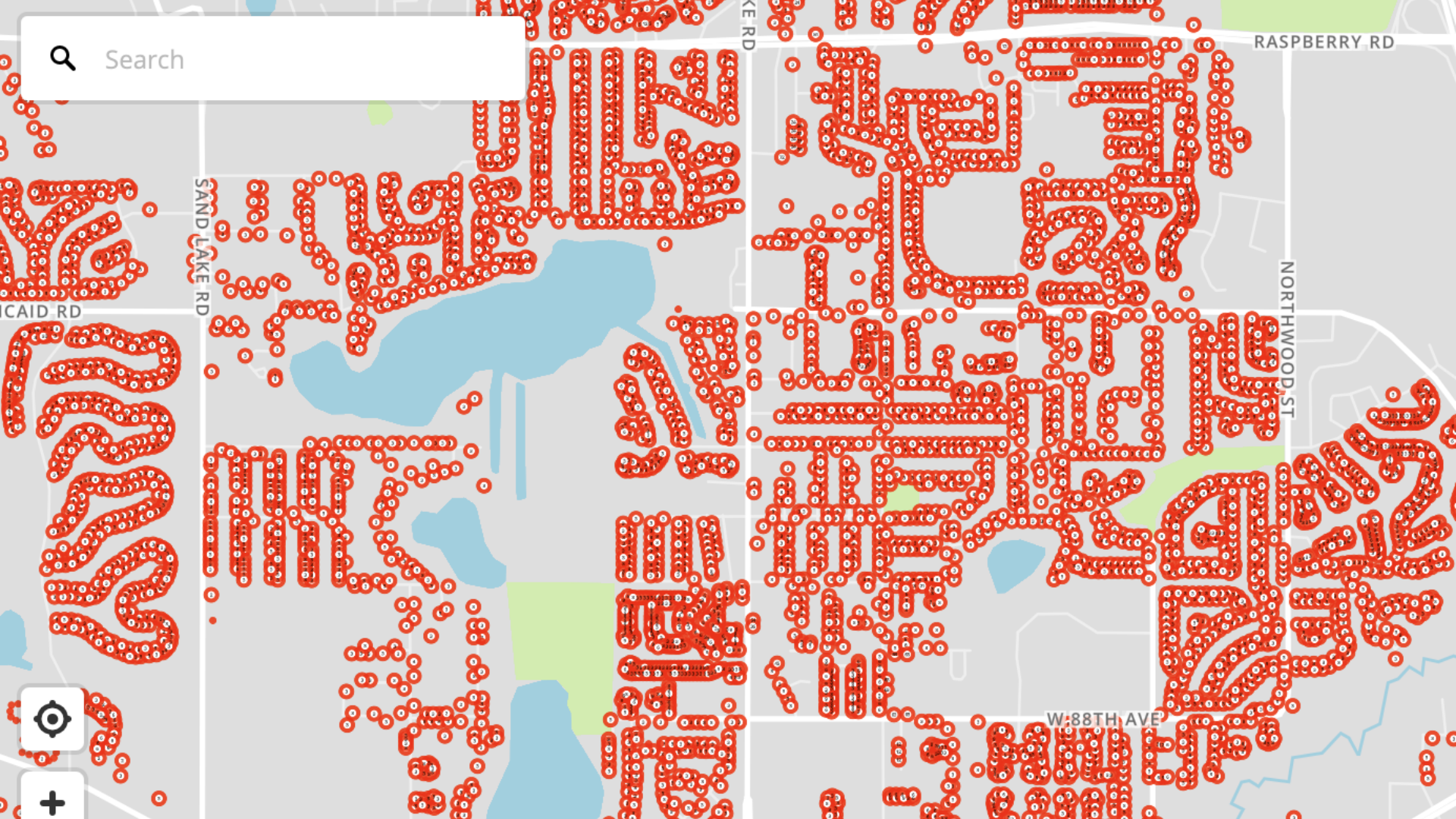


Number of Inspection Results by
business_location — Census Tracts

Number of Inspection Results by
inspection_score

Number of Inspection Results by
inspection_type


MARX BROTHERS CAFE
business_id [object Object]
business_address 627 W 3RD AVE
business_city ANCHORAGE
business_state AK
business_postal_code 99501
business_phone_number
inspection_date 02/28/2017
inspection_score 93
inspection_description
Previous
Showing Row
1 of 57
Next
Rescale Axes on Filte
usiness_location
+
−
Anchorage
E 3RD AVE
AK 1
E 15TH AVE
DEBARR RD
GLENN HWY
OILWELL RD
NORTHERN LIGHTS BLVD
W 36TH AVE
36TH AVE
W TUDOR RD
E TUDOR RD
ANC
RASPBERRY RD
KINCAID RD
Park


Search
RASPBERRY RD
SAND LAKE RD
NORTHWOOD ST
W 88TH AVE

CAMA Property Inventory - Residential with Details

Residential properties in the Municipality of Anchorage including data elements that are specific to residential properties.

Disclaimer

More Views Filter Vi

Appraisal Year	ParcelID	Parcel ID URL	Property Type	Class	Land Use	Owner Line 1	Owner Line 2	Owner Line 3
2019	0010211100301	001-021-11-003-01	Residential	Commercial	Leasehold Master	SHIP CREEK PROPERTY LLC		
2019	0010310300001	001-031-03-000-01	Residential	Residential	Single Family	KOZIOL FRANK S &	HALEY PAULA M	
2019	0010310400001	001-031-04-000-01	Residential	Residential	Single Family	RUSKIN DAVID B 50% &	RUSKIN BERNADINE E 50%	
2019	0010310500001	001-031-05-000-01	Residential	Residential	Single Family	BECKWITH MARTHA		
2019	0010310700001	001-031-07-000-01	Residential	Residential	Single Family	TREADWELL MEAD & CAROL 2002	REVOCABLE TRUST	
2019	0010310800101	001-031-08-001-01	Residential	Residential Condo	Condominium (Fee Simple)	ALASKA INNS INC		
2019	0010310800201	001-031-08-002-01	Residential	Residential Condo	Condominium (Fee Simple)	BRADLEY THOMAS C		C/O PARAGON PROPERTIES
2019	0010311000101	001-031-10-001-01	Residential	Residential Condo	Condominium (Fee Simple)	CHURCH EMILY C		
2019	0010311000201	001-031-10-002-01	Residential	Residential Condo	Condominium (Fee Simple)	SCHWAMM LIVING TRUST		
2019	0010311100001	001-031-11-000-01	Residential	Residential	Triplex	AVEY FAMILY TRUST	AVEY JAMES D & DONNA A / TTES	
2019	0010311200101	001-031-12-001-01	Residential	Residential Condo	Condominium (Fee Simple)	FOSTER JAMES K		
2019	0010311200201	001-031-12-002-01	Residential	Residential Condo	Condominium (Fee Simple)	KELLY MARION C		
2019	0010311200301	001-031-12-003-01	Residential	Residential Condo	Condominium (Fee Simple)	DOZZO JOSEPH A & SANDRA		
2019	0010311200401	001-031-12-004-01	Residential	Residential Condo	Condominium (Fee Simple)	ERNOUF WILLIAM S		
2019	0010311900001	001-031-19-000-01	Residential	Residential	Single Family	MORAN M E LIVING TRUST	MORAN MARY E / TRUSTEE	% JADCO PROPERTY MANAGEMENT
2019	0010311900002	001-031-19-000-02	Residential	Residential	Single Family	MORAN M E LIVING TRUST	MORAN MARY E / TRUSTEE	% JADCO PROPERTY MANAGEMENT
2019	0010312000001	001-031-20-000-01	Residential	Residential	Single Family	PHELPS GREGORY L &	PEPE JULIE A	
2019	0010312100001	001-031-21-000-01	Residential	Residential	Duplex	PHELPS GREGORY L &	PEPE JULIE A	
2019	0010312100002	001-031-21-000-02	Residential	Residential	Single Family	PHELPS GREGORY L &	PEPE JULIE A	
2019	0010312300001	001-031-23-000-01	Residential	Residential	Mixed Residential/Commercial	MOA	MOA 5501	
2019	0010312610101	001-031-26-101-01	Residential	Residential Condo	Condominium (Fee Simple)	GAGNON BRUCE E & SHARON D		
2019	0010312610201	001-031-26-102-01	Residential	Residential Condo	Condominium (Fee Simple)	MASSIE FAMILY TRUST	MASSIE THOMAS H &	CYNTHIA A / TRUSTEES

property_info map 3 | CARTO | Residential Building Count by Ye | property_info map 3

https://data.muni.org/Housing-and-Homelessness/Residential-Building-Count-by-Year-Built-1913-2016/4f3r-bvja

Municipality of Anchorage Open Data

Home Catalog Help Developers Sign In

Residential Building Count by Year Built - 1913 - 2016

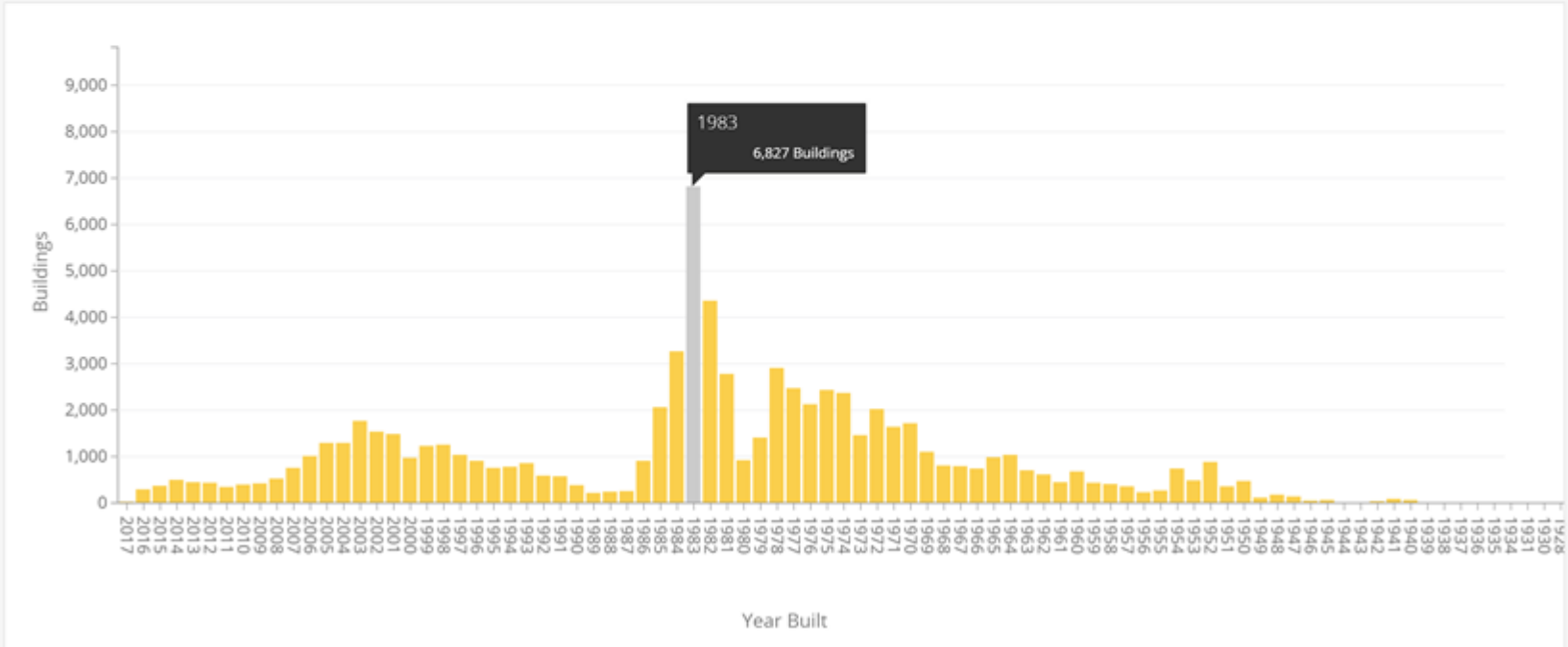
Housing and Homelessness

Export

More Info

Year Built

Select...



Access this Dataset via SODA API

The Socrata Open Data API (SODA) provides programmatic access to this dataset including the ability to filter, query, and aggregate data.

API Docs | Developer Portal

API Endpoint

https://data.muni.org/resource/r3di-nq2j.json | JSON | Copy

MOA GIS

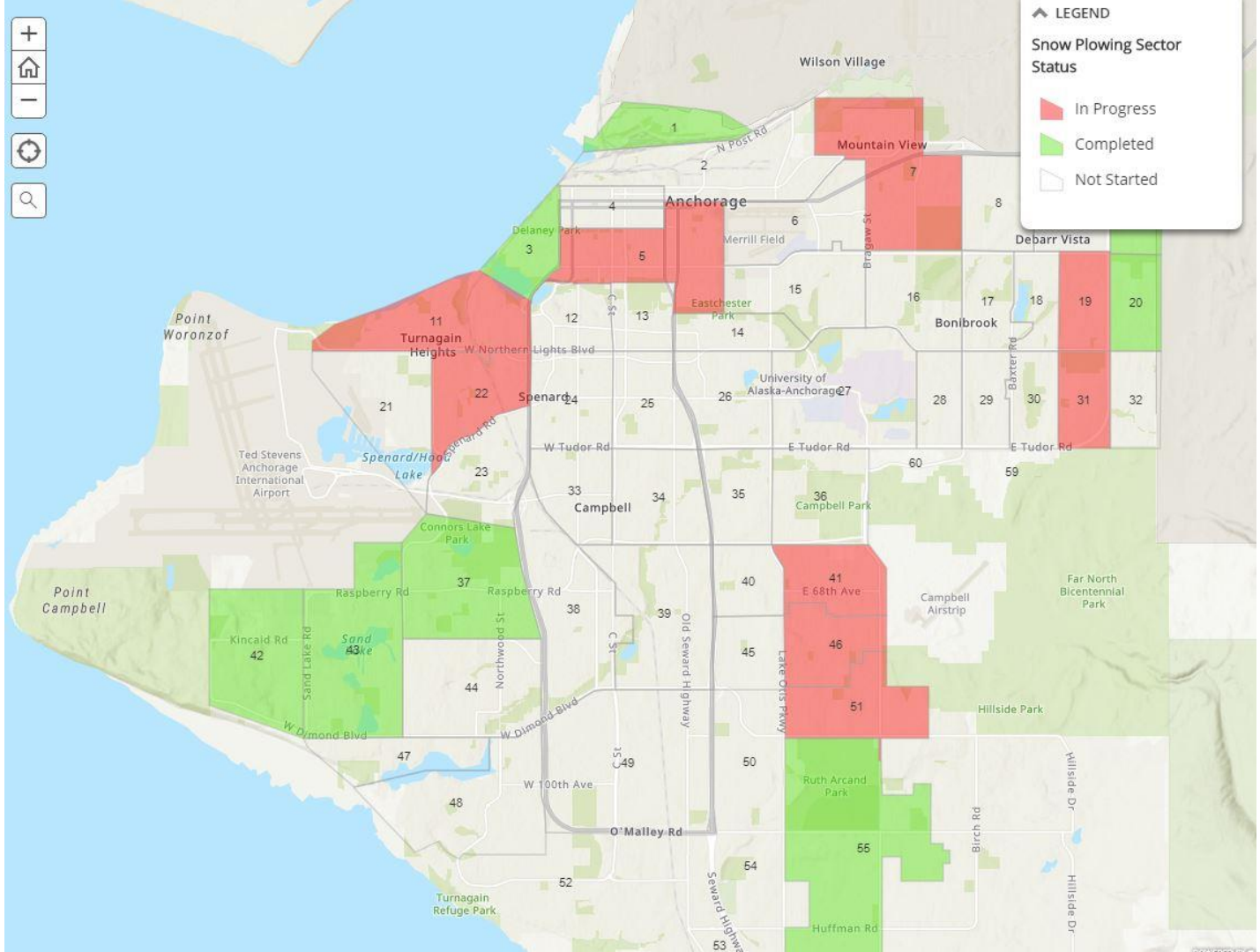
Municipality of Anchorage GIS

Geographic Data and Information Center

MOA Homepage | OECD Page | Maps & Apps Galleries | Maps & Data Downloads | Useful External Links | Contact Us

The Geographic Data and Information Center supports all municipal departments by providing geographic data, data management, products and services.

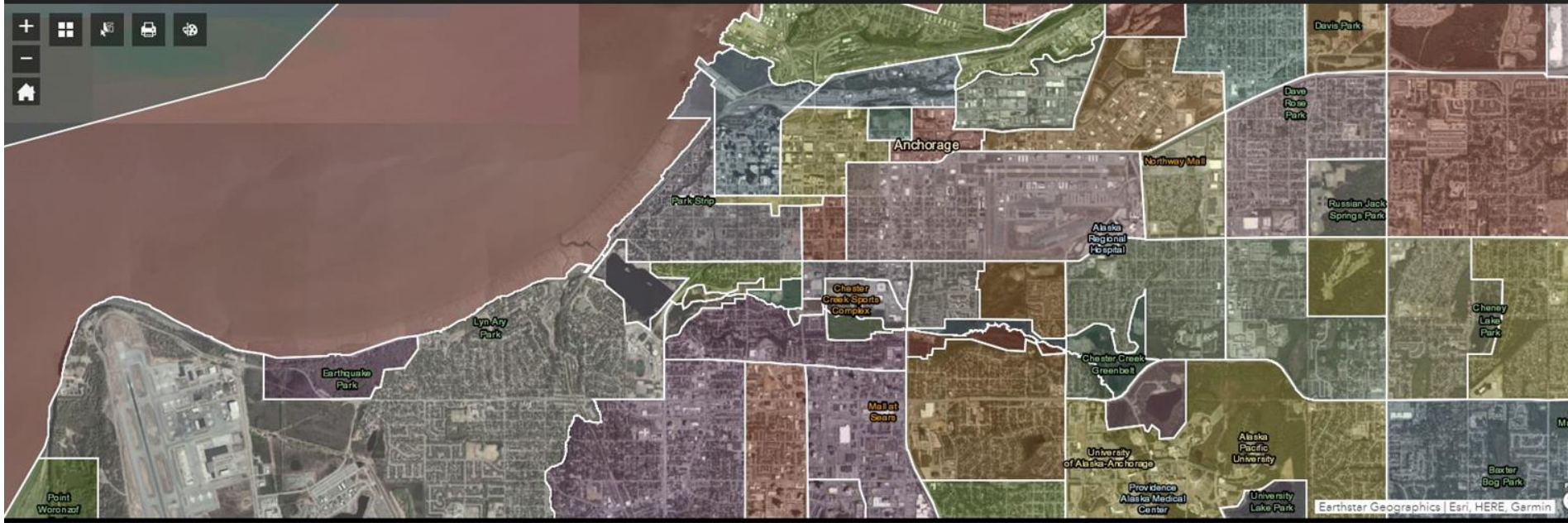
ancgis@muni.org


LEGEND
Snow Plowing Sector Status
In Progress
Completed
Not Started
Wilson Village
Mountain View
Anchorage
Delaney Park
Merrill Field
Debarr Vista
Eastchester Park
Bonlbrook
Point Woronzof
Turnagain Heights
W Northern Lights Blvd
University of Alaska-Anchorage
Spenard
Ted Stevens Anchorage International Airport
Spenard/Hood Lake
W Tudor Rd
E Tudor Rd
Campbell
Campbell Park
Connors Lake Park
Point Campbell
Raspberry Rd
E 68th Ave
Campbell Airstrip
Far North Bicentennial Park
Kincaid Rd
Sand Lake
Northwood St
Old Seward Highway
Lake Otis Pkwy
Hillside Park
W Dimond Blvd
W 100th Ave
Ruth Arcand Park
O'Malley Rd
Birch Rd
Hillside Dr
Turnagain Refuge Park
Seward Highway
Huffman Rd

APD Camp Posting Metrics App

Municipality of Anchorage

Report a Camp | Police Department | Housing and Homelessness | GIS Home | Instructions



Cleaning Information

Click here for cleaning information.

Structures Posted and Abated this year

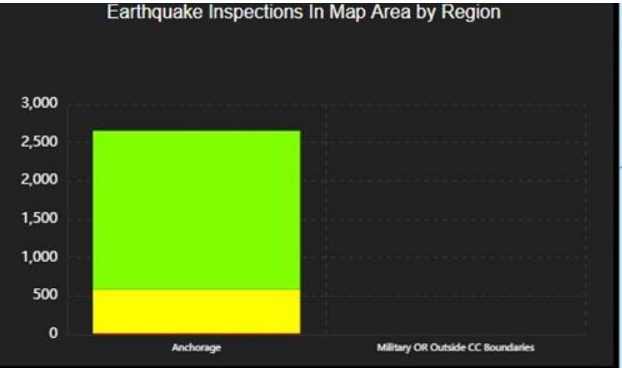
441 Tents/Structures

These prohibited structures have been posted/abated this year.

Invalid Reports this Year

1,114 Invalid Reports

These reports of structures were invalid at the time of field verification.

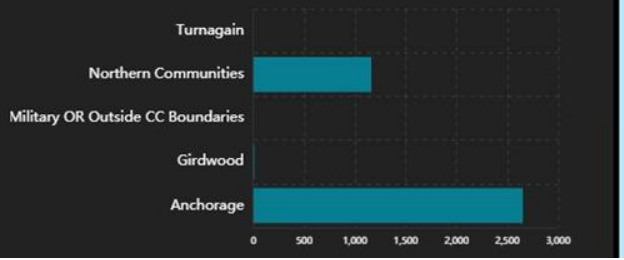


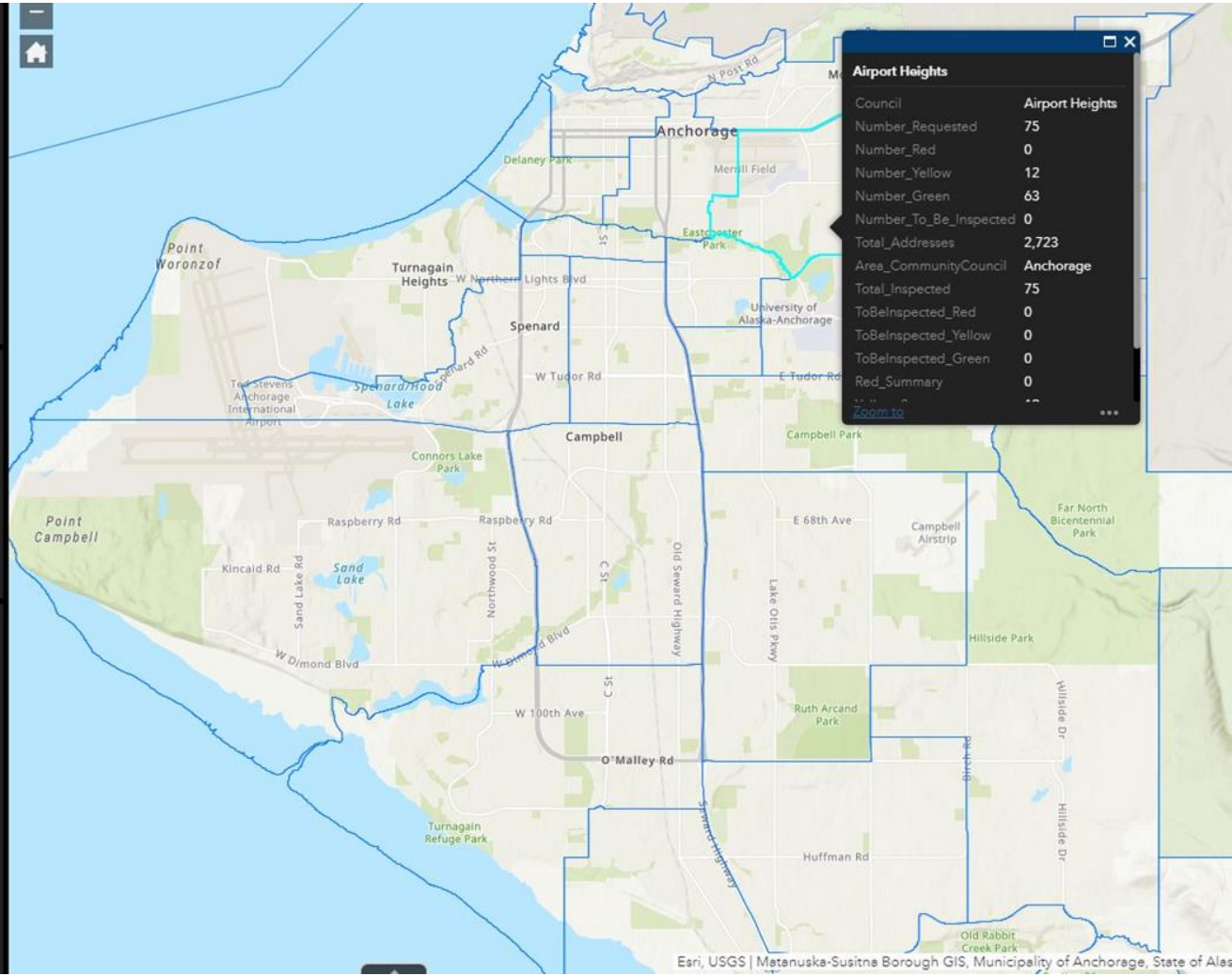
Red Placard Buildings | Yellow Placard Buildings | Green Placard Buildings

Current Red Placard

69

Number of Building Inspections





data.muni.org

moa-muniorg.hub.arcgis.com

Case Studies:

- SNAP Texting
- Property Tax Exemption Review
- Building energy prototype

What’s a good data and automation problem?

Finding a needle in the haystack

Early warning tools

Prioritizing for impact

Automating the mundane

data

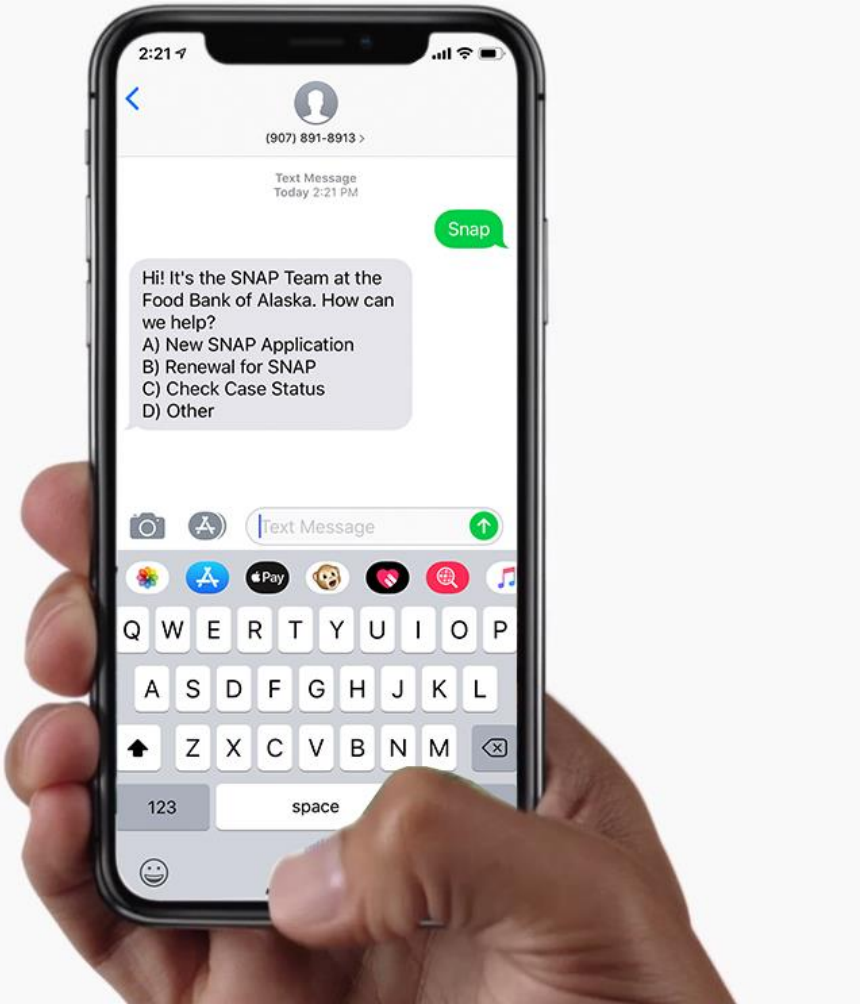
partners

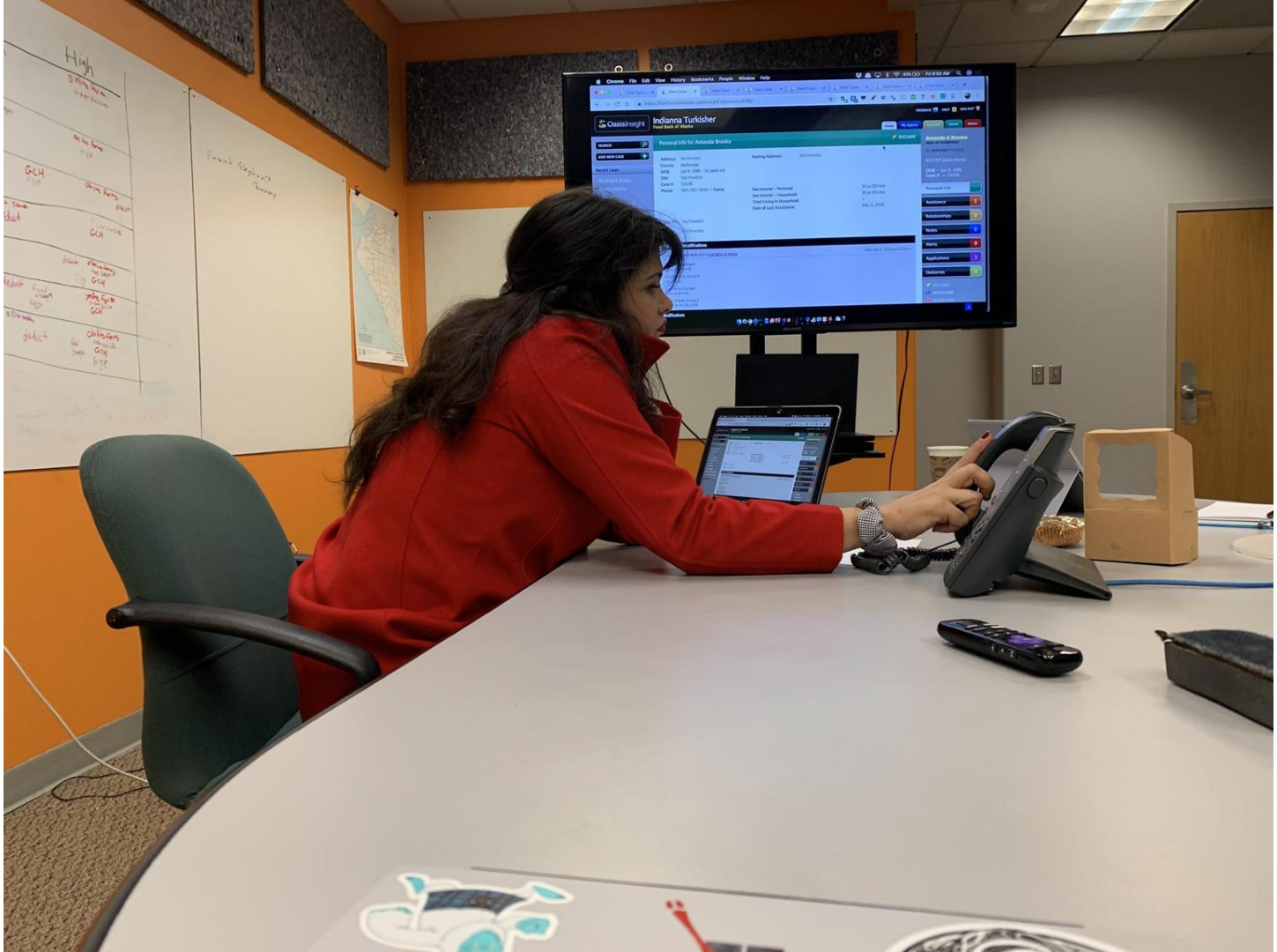
timely metrics

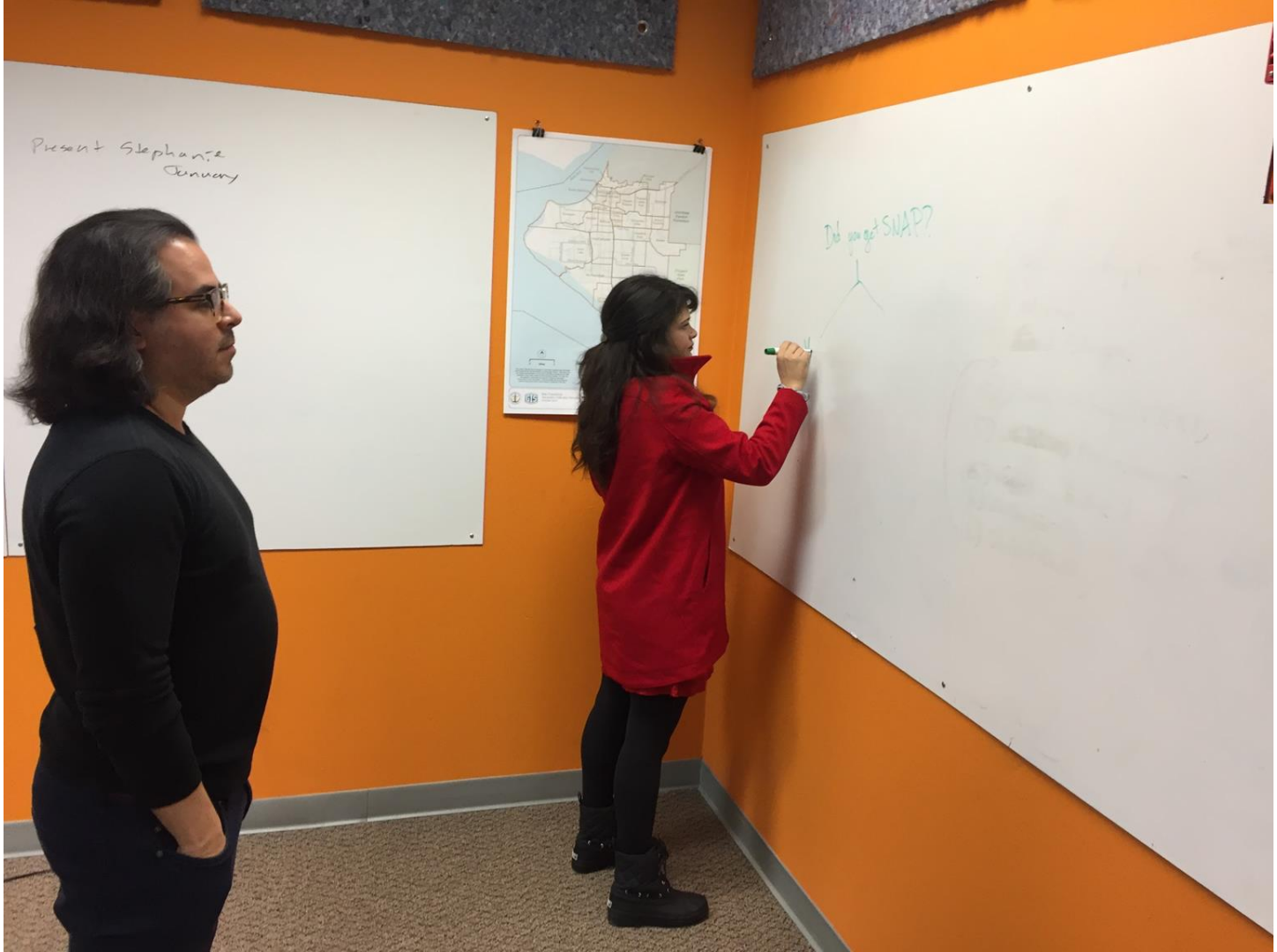
right-sized problem

Case Study:

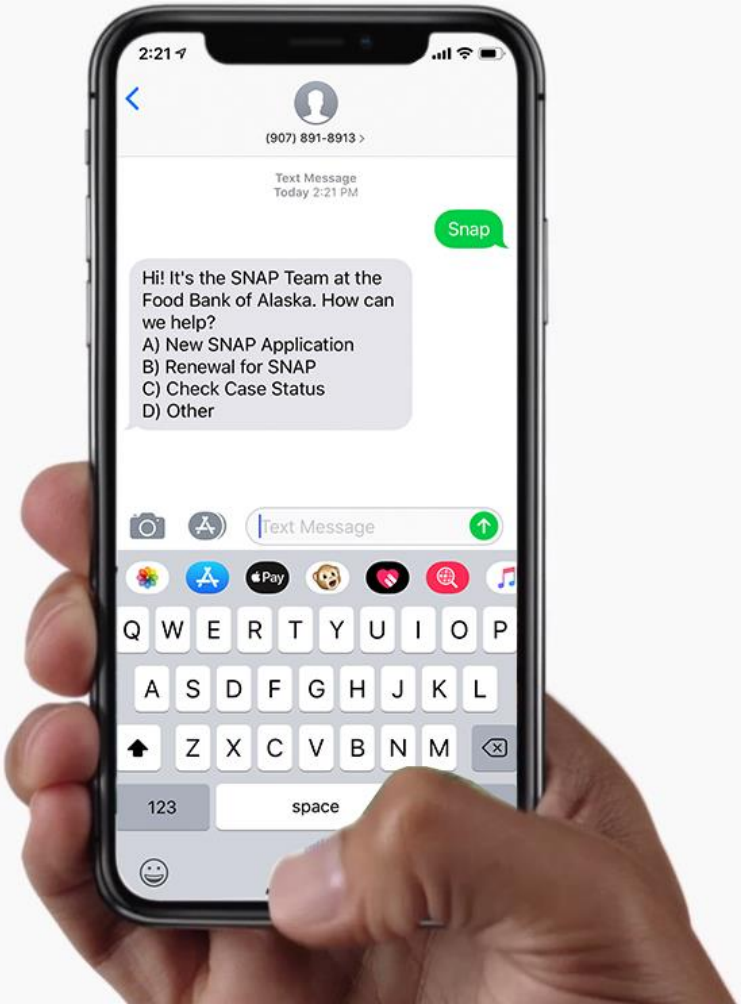
SNAP Texting


2:21
(907) 891-8913
Text Message
Today 2:21 PM
Snap
Hi! It's the SNAP Team at the Food Bank of Alaska. How can we help?
A) New SNAP Application
B) Renewal for SNAP
C) Check Case Status
D) Other
Text Message
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123
space

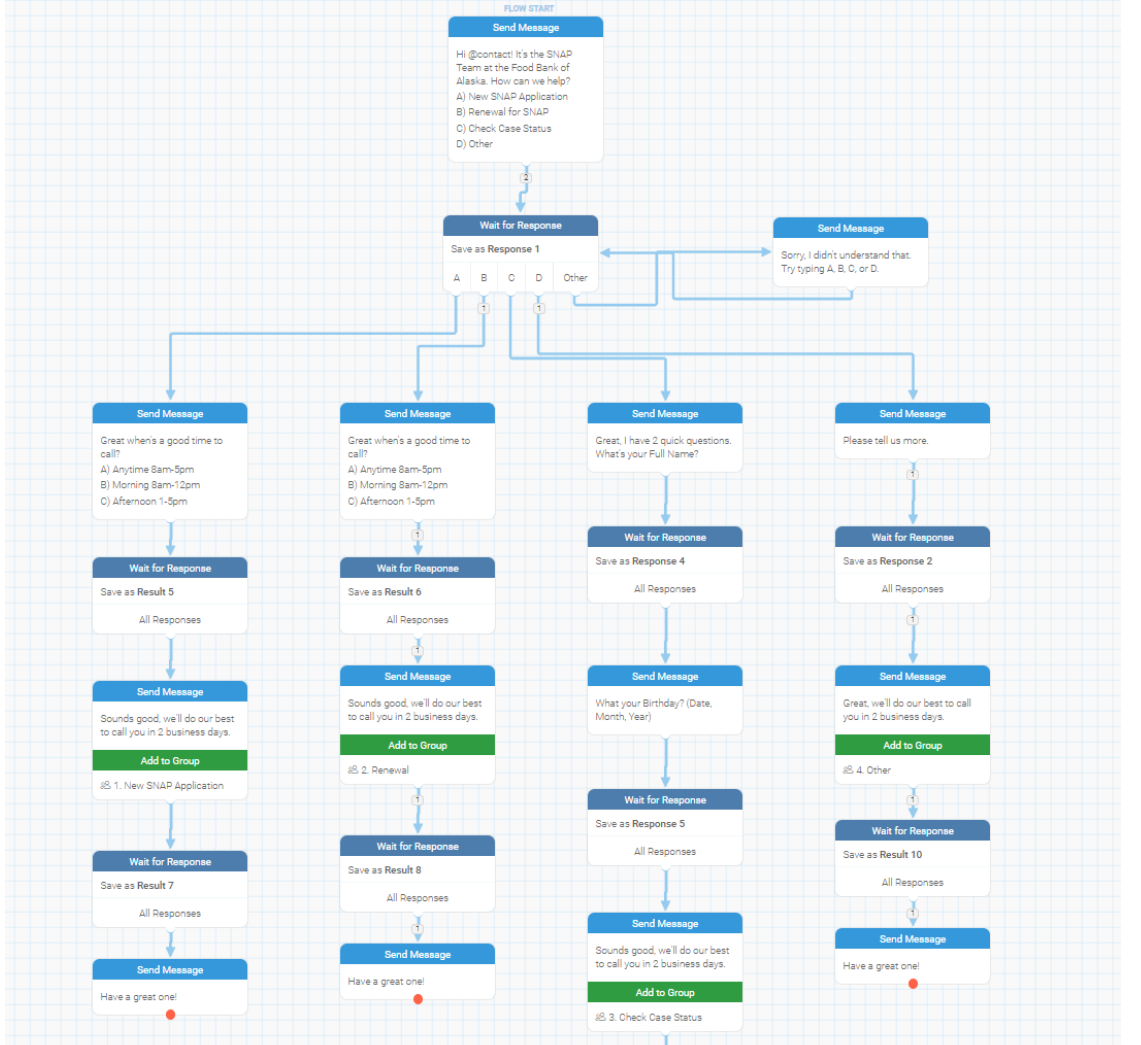

High
Oasisinsight
Indianna Turkisher
Food Bank of Alaska
Personal Info for Amanda Brooks


Present Stephanie
Did you get SNAP?


Food Bank of Alaska
Sponsored ·
We can help you fill out an application over the phone in 15 minutes.
Alaska families average $410 per month for food stamps
ALASKASNAP.COM
Food Bank of Alaska Can Help You Apply
SIGN UP
Like
Comment
Share


2:21
(907) 891-8913
Text Message
Today 2:21 PM
Snap
Hi! It's the SNAP Team at the Food Bank of Alaska. How can we help?
A) New SNAP Application
B) Renewal for SNAP
C) Check Case Status
D) Other
Text Message
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123
space


New Message
Cancel
To: (907) 891-8913
Text Message
Pay
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123
space
return


FLOW START
Send Message
Hi @contact! It's the SNAP Team at the Food Bank of Alaska. How can we help?
A) New SNAP Application
B) Renewal for SNAP
C) Check Case Status
D) Other
Wait for Response
Save as Response 1
A
B
C
D
Other
Send Message
Sorry, I didn't understand that. Try typing A, B, C, or D.
Send Message
Great when's a good time to call?
A) Anytime 8am-5pm
B) Morning 8am-12pm
C) Afternoon 1-5pm
Wait for Response
Save as Result 5
All Responses
Send Message
Sounds good, we'll do our best to call you in 2 business days.
Add to Group
1. New SNAP Application
Wait for Response
Save as Result 7
All Responses
Send Message
Have a great one!
Send Message
Great when's a good time to call?
A) Anytime 8am-5pm
B) Morning 8am-12pm
C) Afternoon 1-5pm
Wait for Response
Save as Result 6
All Responses
Send Message
Sounds good, we'll do our best to call you in 2 business days.
Add to Group
2. Renewal
Wait for Response
Save as Result 8
All Responses
Send Message
Have a great one!
Send Message
Great, I have 2 quick questions. What's your Full Name?
Wait for Response
Save as Response 4
All Responses
Send Message
What your Birthday? (Date, Month, Year)
Wait for Response
Save as Response 5
All Responses
Send Message
Sounds good, we'll do our best to call you in 2 business days.
Add to Group
3. Check Case Status
Send Message
Please tell us more.
Wait for Response
Save as Response 2
All Responses
Send Message
Great, we'll do our best to call you in 2 business days.
Add to Group
4. Other
Wait for Response
Save as Result 10
All Responses
Send Message
Have a great one!

What’s a good data and automation problem?

Finding a needle in the haystack

Early warning tools

Prioritizing for impact

Automating the mundane

What’s a good data and automation problem?

Finding a needle in the haystack

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Case Study:

Increasing Equity for Property Tax Exemptions


$46 billion
real estate value


$46 billion
$11 billion
Exempted (not taxed)

$50,000 residential

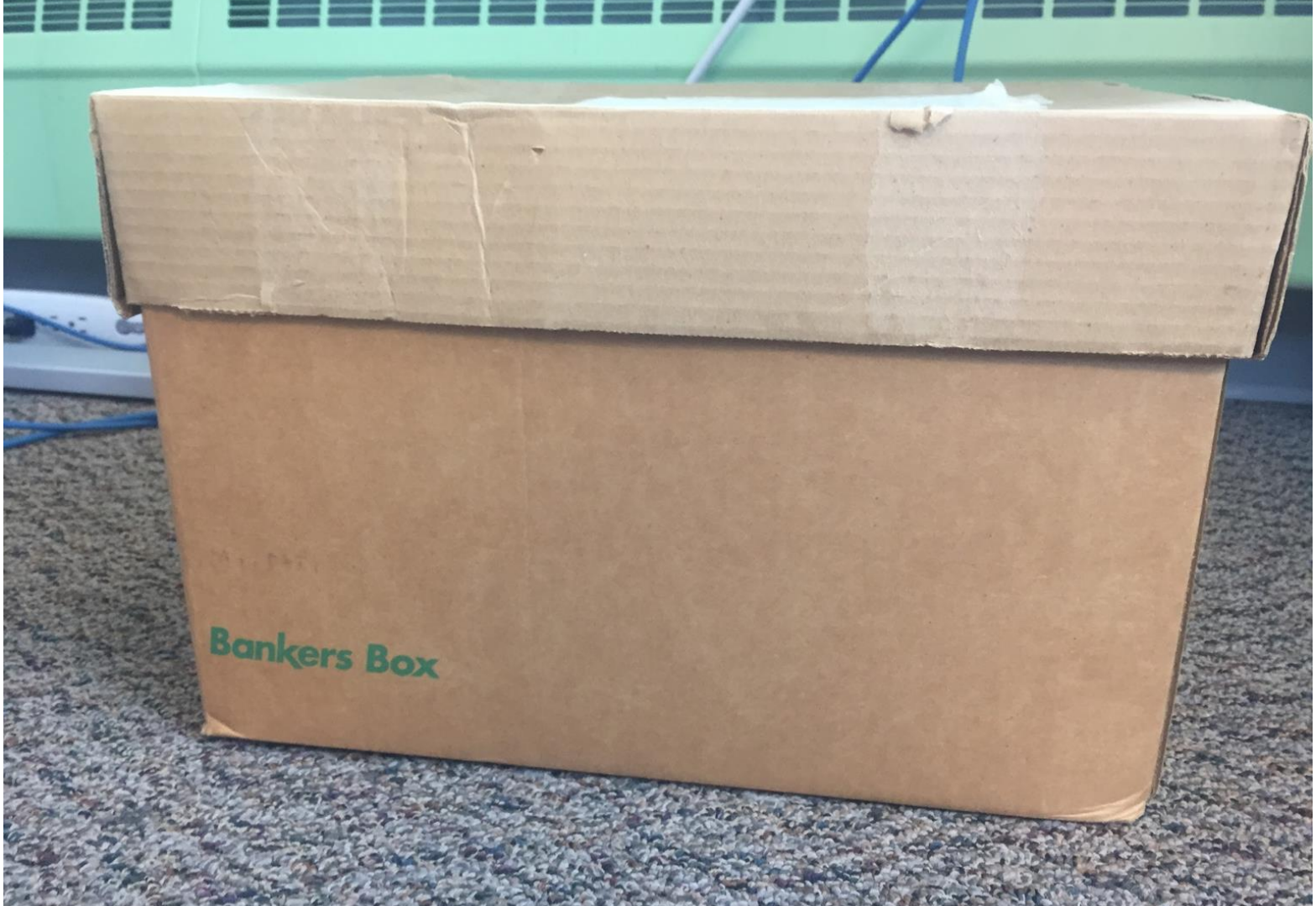
$150,000 senior citizen/
disabled veteran

48,000 properties
with exemptions

48,000 properties with exemptions

**not all proper exemptions*

- People move
- Rent out home
- Give home to grown kids
- Life changes


Bankers Box


~100,000

CAMA Property Inventory - Residential with Details

Residential properties in the Municipality of Anchorage including data elements that are specific to

More Views Filter Visualize

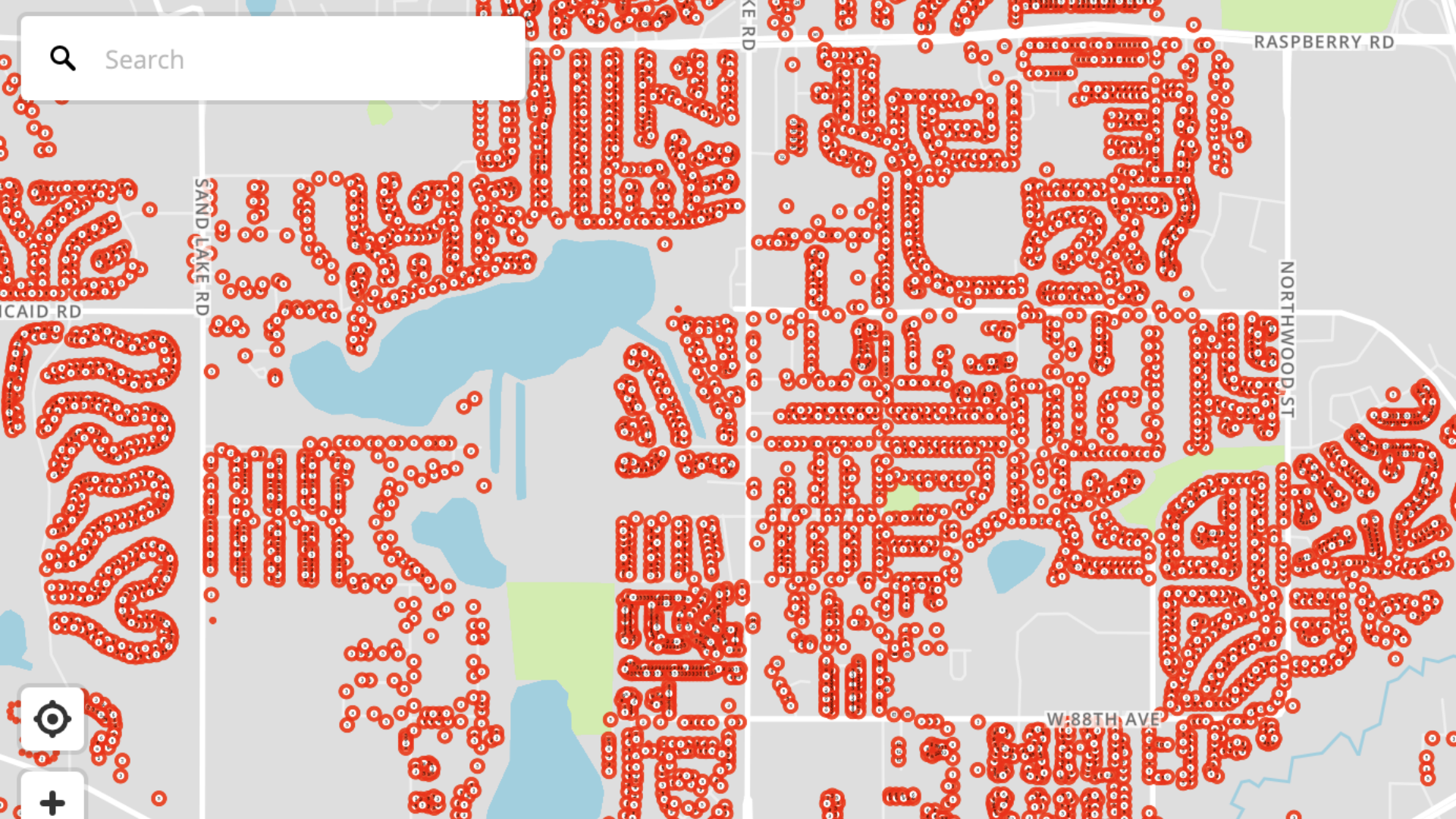
Deed Page	Deed Date	Plat Number	Appraised Land Value	Appraised Building Value	Appraised Total Value	Ex
32,721	08/28/2018	18-0048				
64,403	09/22/2006		$238,500	$325,600	$564,100	
85,917	12/21/2006	67-0030	$272,300	$334,300	$606,600	
619	02/12/1998	67-0030	$437,400	$419,900	$857,300	
52,778	09/17/2012	67-0030	$449,400	$182,100	$631,500	
37,390	05/24/2004	67-0030	$0	$1,233,000	$1,233,000	
7,746	02/18/2010	67-0030	$0	$345,400	$345,400	
26,895	07/20/2018		$0	$845,400	$845,400	
7,306	03/13/2019		$0	$845,400	$845,400	
10,189	03/17/2016	67-0030	$364,700	$278,800	$643,500	
935,070	12/10/2002		$0	$294,800	$294,800	

< Previous Next >

Automatic flagging of **suspicious** exemptions and validation of **good** exemptions.

If we **remove improper** exemptions, we can **lower taxes** for residents.

We can **find senior citizens** who **should** get the exemption, but don’t.


Search
RASPBERRY RD
SAND LAKE RD
NORTHWOOD ST
W 88TH AVE

Use modern **data science tools** to **flag properties** for review

Finding a needle in the haystack

Early warning tools

Prioritizing for impact

Automating the mundane

Finding a needle in the haystack

Early warning tools

Prioritizing for impact

Automating the mundane

Matheson Benjamin J 06-01-2000 CAMA
1110 East 20th Avenue, Anchorage, AK 99503

Matheson Benjamin J	06-01-2000	CAMA
Matheson Ben Joel	06-10-2000	PFD
Matheson Ben	06-10-2000	PFD

Matheson Benj**amin** J	06-01-2000	CAMA
Matheson Ben J**oel**	06-10-2000	PFD
Matheson Ben	06-10-2000	PFD

Matheson Benjamin J	06-01-2000	CAMA
Matheson Ben Joel	06-10-2000	PFD
Matheson Ben	06-10-2000	PFD

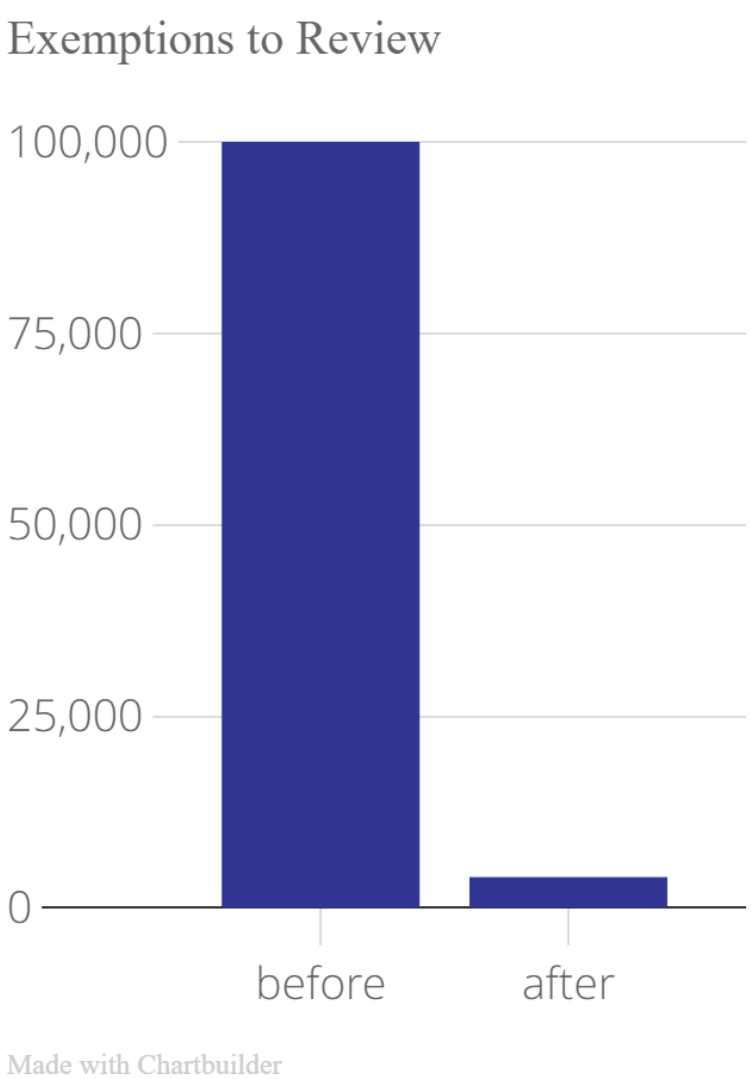
fuzzy matching

```
matchFunctionBoth <- function (eachCama, exemptionType, pfdList) {

  camaDf <- exemptionType %>% filter (`camaParcelId` == eachCama)
  pfdDfMain <- pfdList %>% filter(pfdDOB == camaBday)

 outputDfMain <- stringdist_inner_join(camaDf,  pfdDfMain, by = c("scName" =
"pfdFullName"), method="lv", max_dist=25,  distance_col = "distance")
  # outputDfMain <-  outputDfMain %>% filter(scNameBdayFormat == pfdDOB)

 outputDfMain <- outputDfMain %>% filter(first5Letters ==  camaName5)
minDistance = min(outputDfMain$distance)
outputDfMain <- outputDfMain %>% filter(distance ==  minDistance)
 outputDfMain <- outputDfMain %>% mutate(addressDiff =
stringdist(camaParcelAddress, pfdPHY_ADDR1, method="lv"))
  outputDfMain <- outputDfMain %>% mutate(addrNumMatch =
ifelse(parcelAddressNumbers == pfdAddressNumbers, TRUE, FALSE))
  outputDfMain <- outputDfMain %>% mutate(firstLastMatch = ifelse(scLast == pfdLast
& scFirst == pfdFirst, TRUE, FALSE))
  outputDfMain <- outputDfMain %>% mutate(lastMatch = ifelse(scLast == pfdLast,
TRUE, FALSE))

}
```

```
matchFunctionBoth <- function (eachCama, exemptionType, pfdList) {

  camaDf <- exemptionType %>% filter (`camaParcelId` == eachCama)
  pfdDfMain <- pfdList %>% filter(pfdDOB == camaBday)

 outputDfMain <- stri[illegible] pfdDfMain, by = c("scName" =
"pfdFullName"), me[illegible]ax_dist=25, di[illegible]ce_col = "distance")
  # outputDfMain [illegible]tDfMa[illegible]BdayFormat == pfdDOB)

 outputDfMain <- [illegible]DfMain %[illegible]ter([illegible]rs ==  camaName5)
minDistance = mi[illegible]tDfMain$[illegible]ce)
outputDfMain <- o[illegible]Main %>[illegible] minDistance)
 outputDfMain <- ou[illegible]ain %[illegible]iff =
stringdist(camaParcel[illegible]ADD[illegible]hod="lv"))
  outputDfMain <- outputDf[illegible]mMatch =
ifelse(parcelAddressNumbers == [illegible]ressN[illegible] TRUE, FALSE))
  outputDfMain <- outputDfMain [illegible]tate(f[illegible]tMatch = ifelse(scLast == pfdLast
& scFirst == pfdFirst, TRUE, FALSE))
  outputDfMain <- outputDfMain %>% mutate(lastMatch = ifelse(scLast == pfdLast,
TRUE, FALSE))

}
```

~93% properties matched

- The vast majority verified **“good”**
- ~4,000 **flagged** for follow-up


Exemptions to Review
100,000
75,000
50,000
25,000
0
before
after
Made with Chartbuilder

Senior Letter

Senior citizens who **should** get an exemption but don’t

Municipality of Anchorage

Ethan Berkowitz, Mayor

<<Date>>

<<Owner>>
<<Mailing Address>>
<<City>><<State>><<Zip>>

Dear [First Name],

Our records show that you may qualify for the Senior Citizen Property Tax Exemption which could significantly **lower your property taxes.** On average, residents who qualify **save $2,400 per year.**

94% of eligible Anchorage residents take advantage of this tax exemption, and we want to make sure you do too! You may qualify if you are at least 65 years old by December 31, and your property is your primary residence. See the full list of requirements on the back of the application.

APPLY NOW: See if you qualify for lower taxes

Questions? Our property appraisal customer service team is here to help! You can reach them at 907-343-6700 or propappex@muni.org.

Sincerely,

Mayor Ethan Berkowitz

PS - Make sure to **apply now**, so you don't forget and **miss out on this big tax break!**

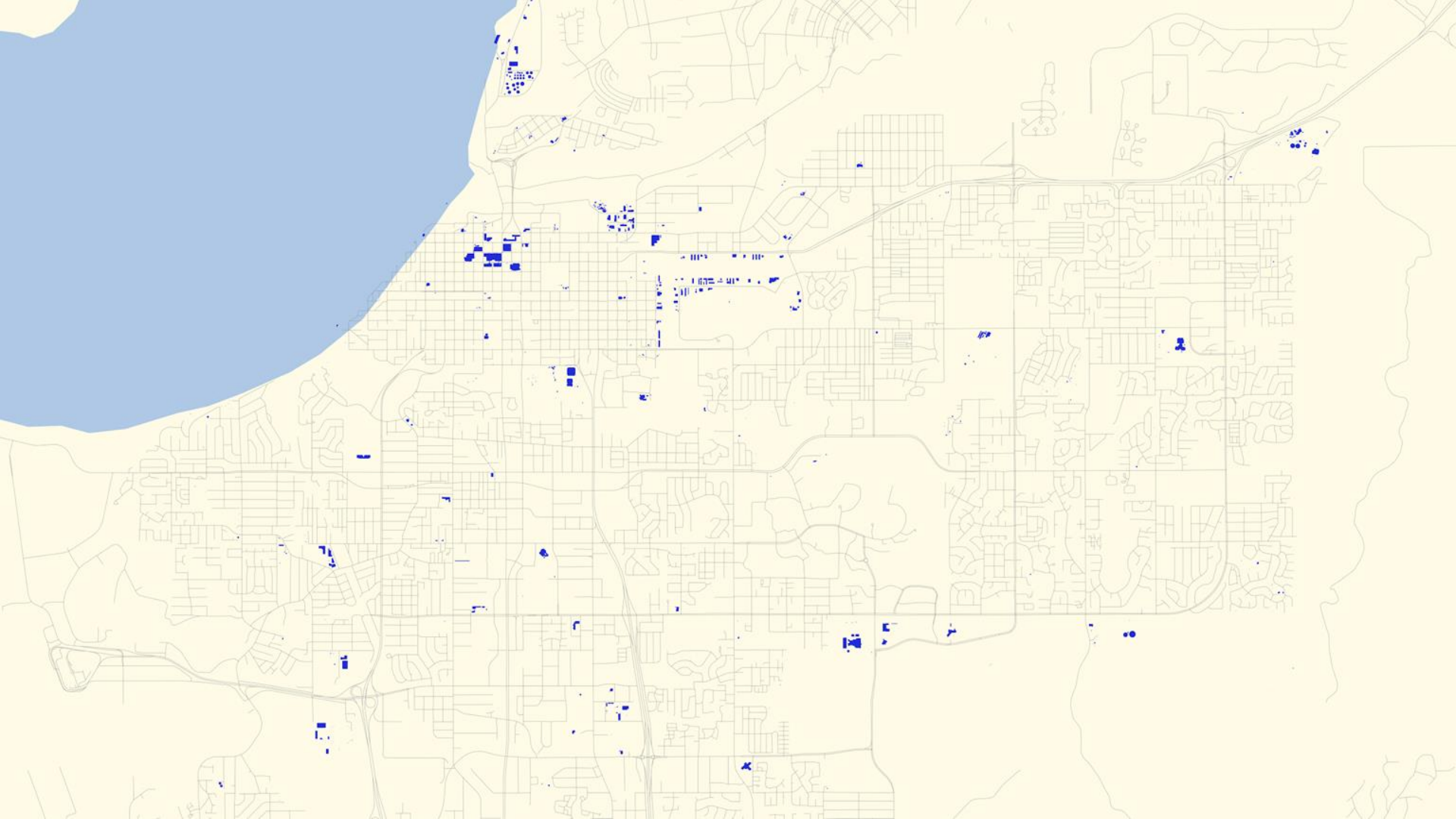
*Up to $150,000 of your home's assessed value may be exempt from taxes, so if you qualify, the amount you'll save depends on your home's value, tax rate, etc.

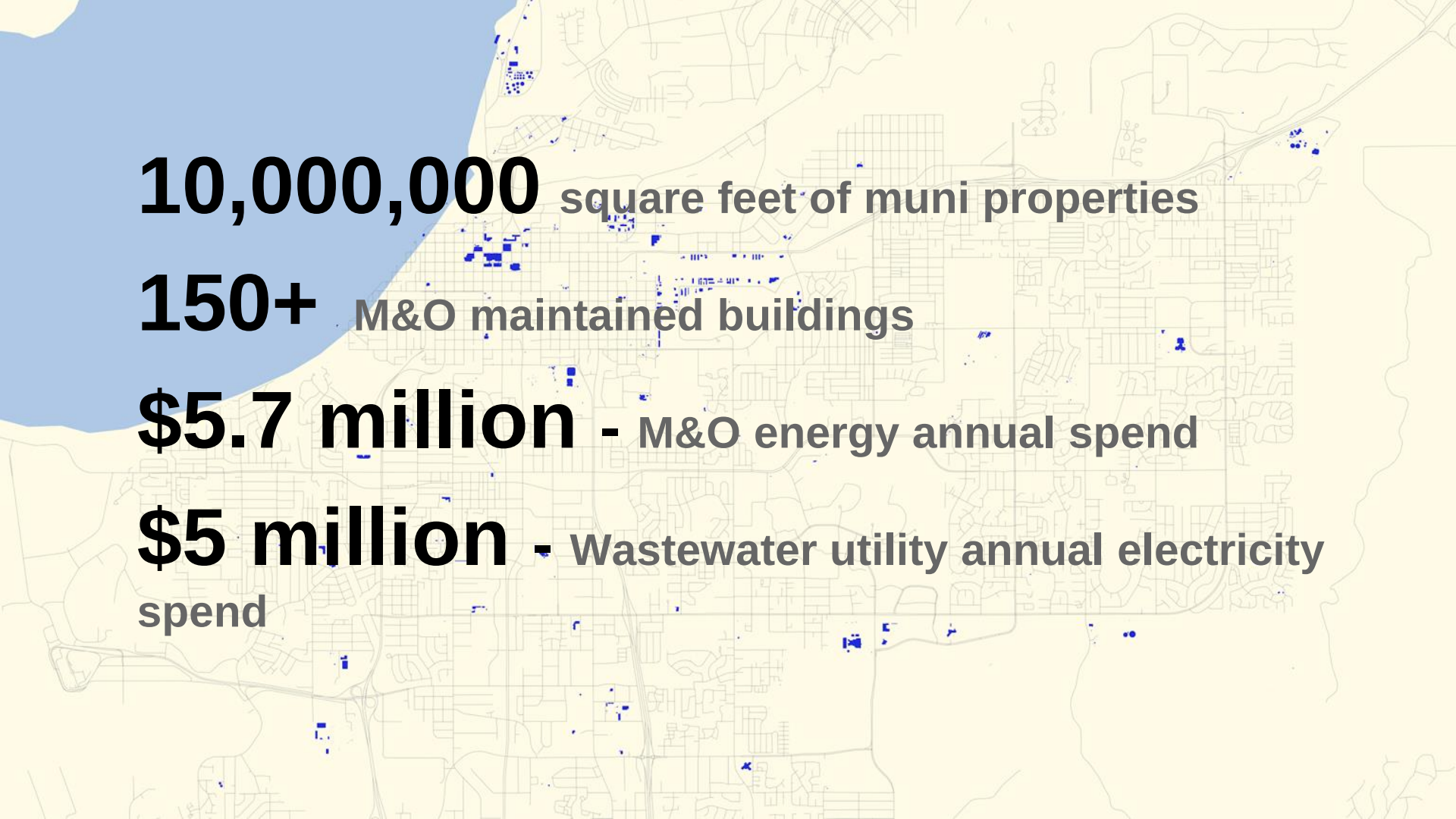
- Loss aversion
- Timeliness
- Chunking
- Salience
- Head start

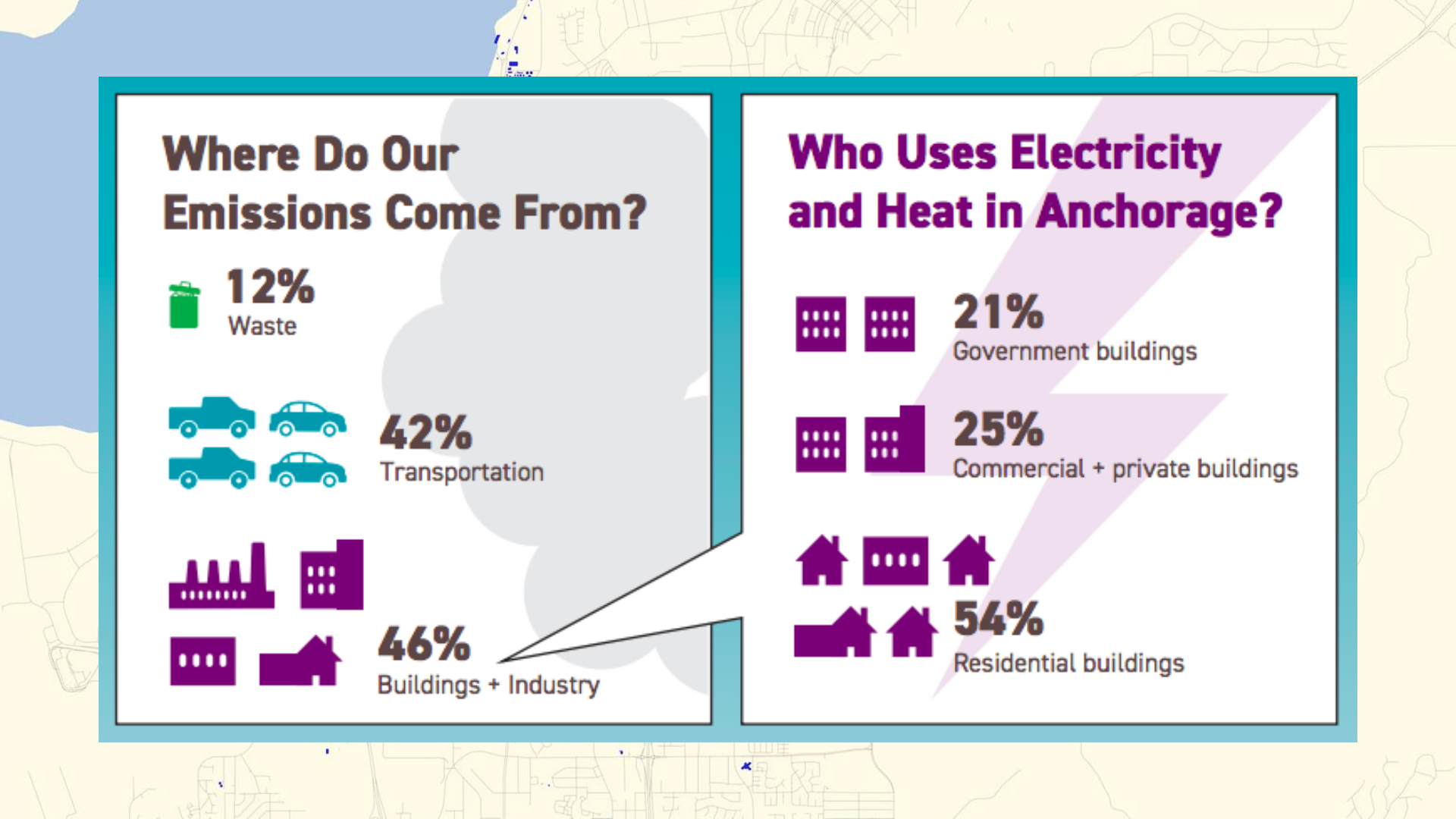
Case Study:

Energy Project

(underway)




10,000,000 square feet of muni properties
150+ M&O maintained buildings
$5.7 million - M&O energy annual spend
$5 million - Wastewater utility annual electricity spend


Where Do Our Emissions Come From?
12%
Waste
42%
Transportation
46%
Buildings + Industry
Who Uses Electricity and Heat in Anchorage?
21%
Government buildings
25%
Commercial + private buildings
54%
Residential buildings

Our goal: help facility managers **use data** to save energy through immediate **no/low-cost** solutions

	readDate	kWh	dayWeek	timeHour	night	rolling5	rolling10	rollingDiff	rollingDiffPos	readWeek	readMonth	readTime	readTimeSin
03936	2019-08-27 00:00:00	0.053248	Tue	0	night	17.03936	17.82579	-5.684342e-14	5.684342e-14	35	8	2019-08-27 00:00:00	00:00:00
35008	2019-08-27 00:15:00	0.057344	Tue	0	night	17.82579	17.95686	-5.242880e-01	5.242880e-01	35	8	2019-08-27 00:15:00	00:15:00
03936	2019-08-27 00:30:00	0.053248	Tue	0	night	17.30150	17.69472	2.621440e-01	-2.621440e-01	35	8	2019-08-27 00:30:00	00:30:00
35008	2019-08-27 00:45:00	0.057344	Tue	0	night	17.56365	17.95686	-7.864320e-01	7.864320e-01	35	8	2019-08-27 00:45:00	00:45:00
35008	2019-08-27 01:00:00	0.057344	Tue	1	night	18.08794	18.21901	-2.621440e-01	2.621440e-01	35	8	2019-08-27 01:00:00	01:00:00
35008	2019-08-27 01:15:00	0.057344	Tue	1	night	17.56365	17.82579	-7.864320e-01	7.864320e-01	35	8	2019-08-27 01:15:00	01:15:00
35008	2019-08-27 01:30:00	0.057344	Tue	1	night	17.30150	17.56365	-1.048576e+00	1.048576e+00	35	8	2019-08-27 01:30:00	01:30:00
03936	2019-08-27 01:45:00	0.053248	Tue	1	night	17.56365	17.82579	5.242880e-01	-5.242880e-01	35	8	2019-08-27 01:45:00	01:45:00
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03936	2019-08-27 02:15:00	0.053248	Tue	2	night	17.56365	18.08794	5.242880e-01	-5.242880e-01	35	8	2019-08-27 02:15:00	02:15:00
35008	2019-08-27 02:30:00	0.057344	Tue	2	night	18.08794	17.95686	-2.621440e-01	2.621440e-01	35	8	2019-08-27 02:30:00	02:30:00
35008	2019-08-27 02:45:00	0.057344	Tue	2	night	18.35008	18.35008	0.000000e+00	0.000000e+00	35	8	2019-08-27 02:45:00	02:45:00
35008	2019-08-27 03:00:00	0.057344	Tue	3	night	17.82579	18.21901	-5.242880e-01	5.242880e-01	35	8	2019-08-27 03:00:00	03:00:00
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35008	2019-08-27 03:45:00	0.057344	Tue	3	night	18.08794	18.35008	-2.621440e-01	2.621440e-01	35	8	2019-08-27 03:45:00	03:45:00
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35008	2019-08-27 04:30:00	0.057344	Tue	4	night	18.08794	18.35008	-2.621440e-01	2.621440e-01	35	8	2019-08-27 04:30:00	04:30:00
35008	2019-08-27 04:45:00	0.057344	Tue	4	night	18.08794	18.08794	-2.621440e-01	2.621440e-01	35	8	2019-08-27 04:45:00	04:45:00
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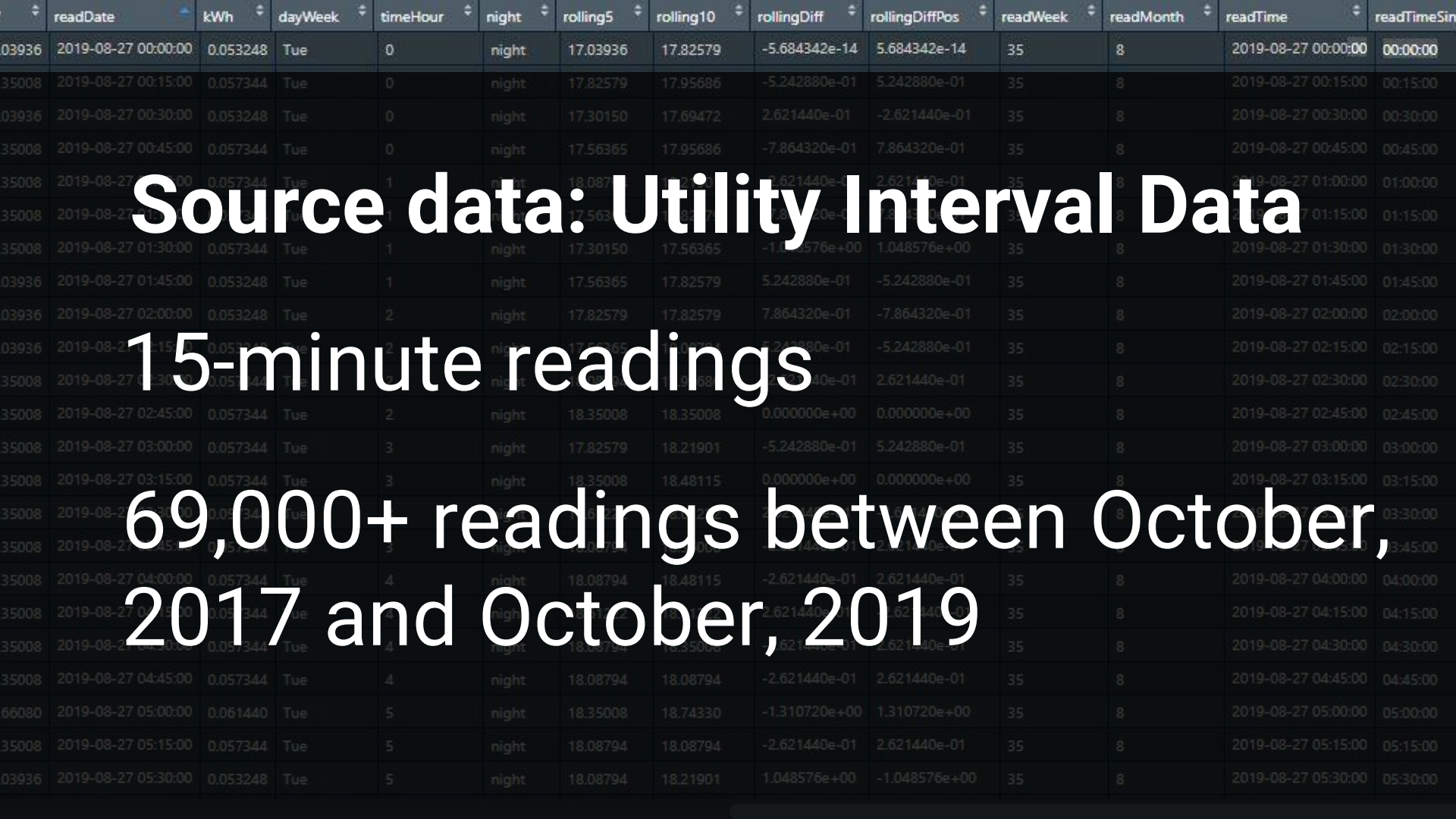
03936	2019-08-27 05:30:00	0.053248	Tue	5	night	18.08794	18.21901	1.048576e+00	-1.048576e+00	35	8	2019-08-27 05:30:00	05:30:00


readDate
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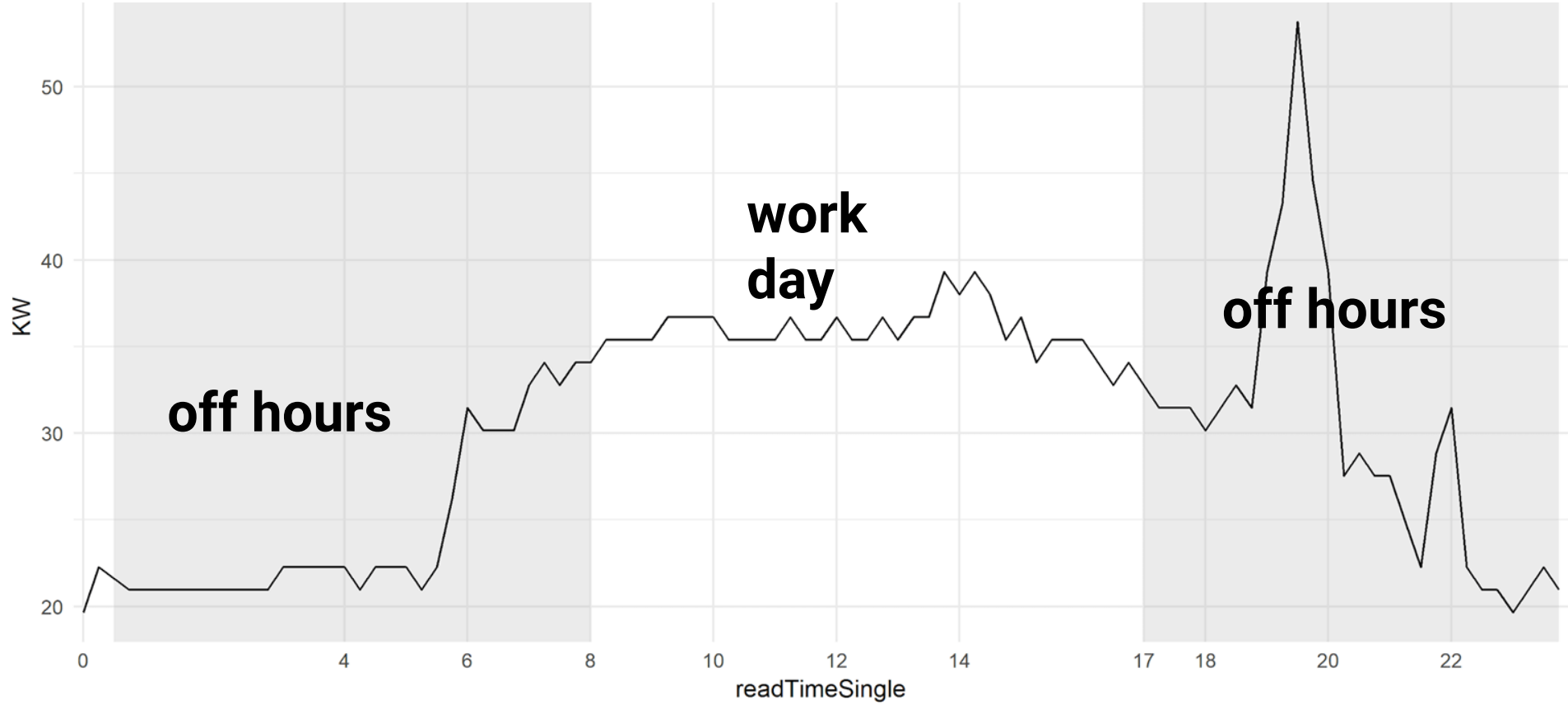
03936 2019-08-27 00:00:00 0.053248 Tue 0 night 17.03936 17.82579 -5.684342e-14 5.684342e-14 35 8 2019-08-27 00:00:00 00:00:00
Source data: Utility Interval Data
15-minute readings
69,000+ readings between October, 2017 and October, 2019


off hours
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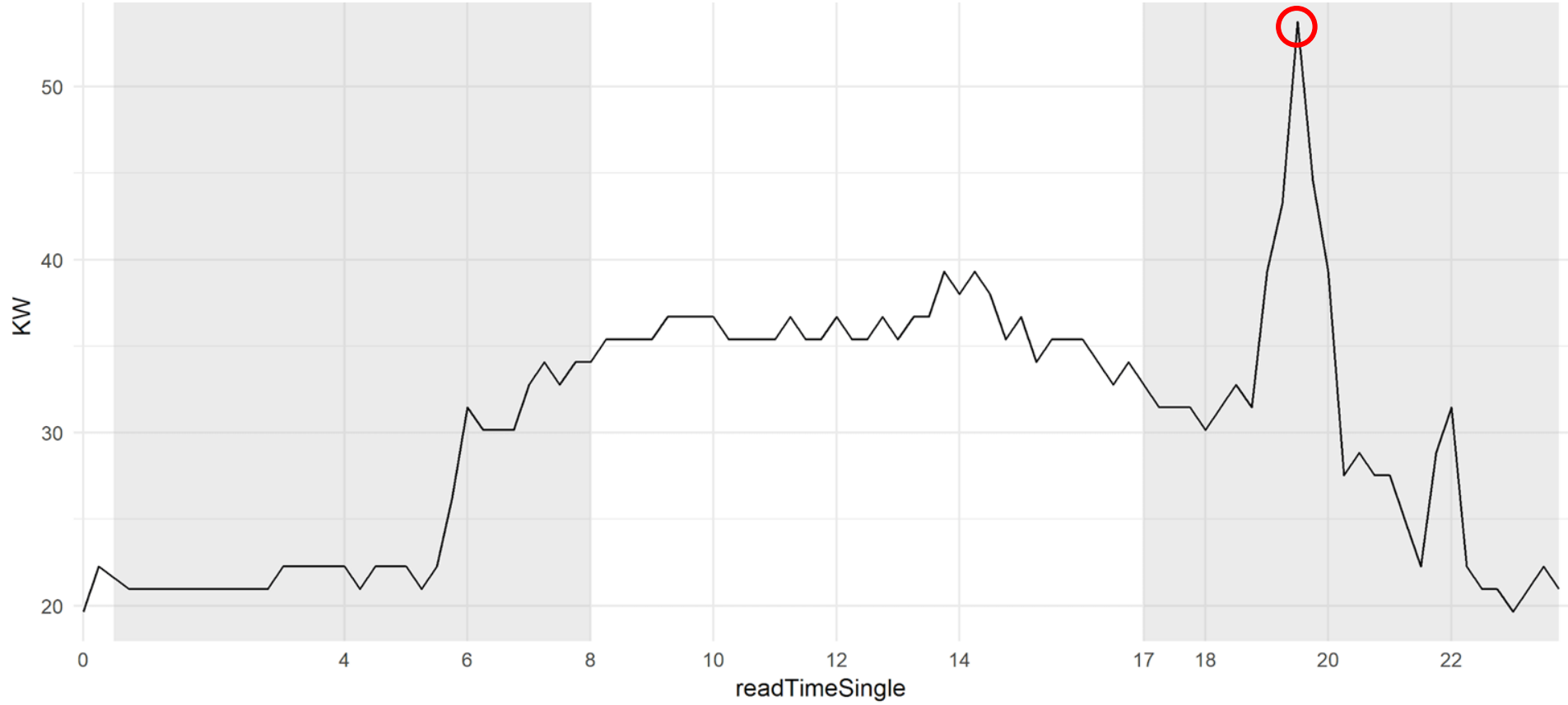
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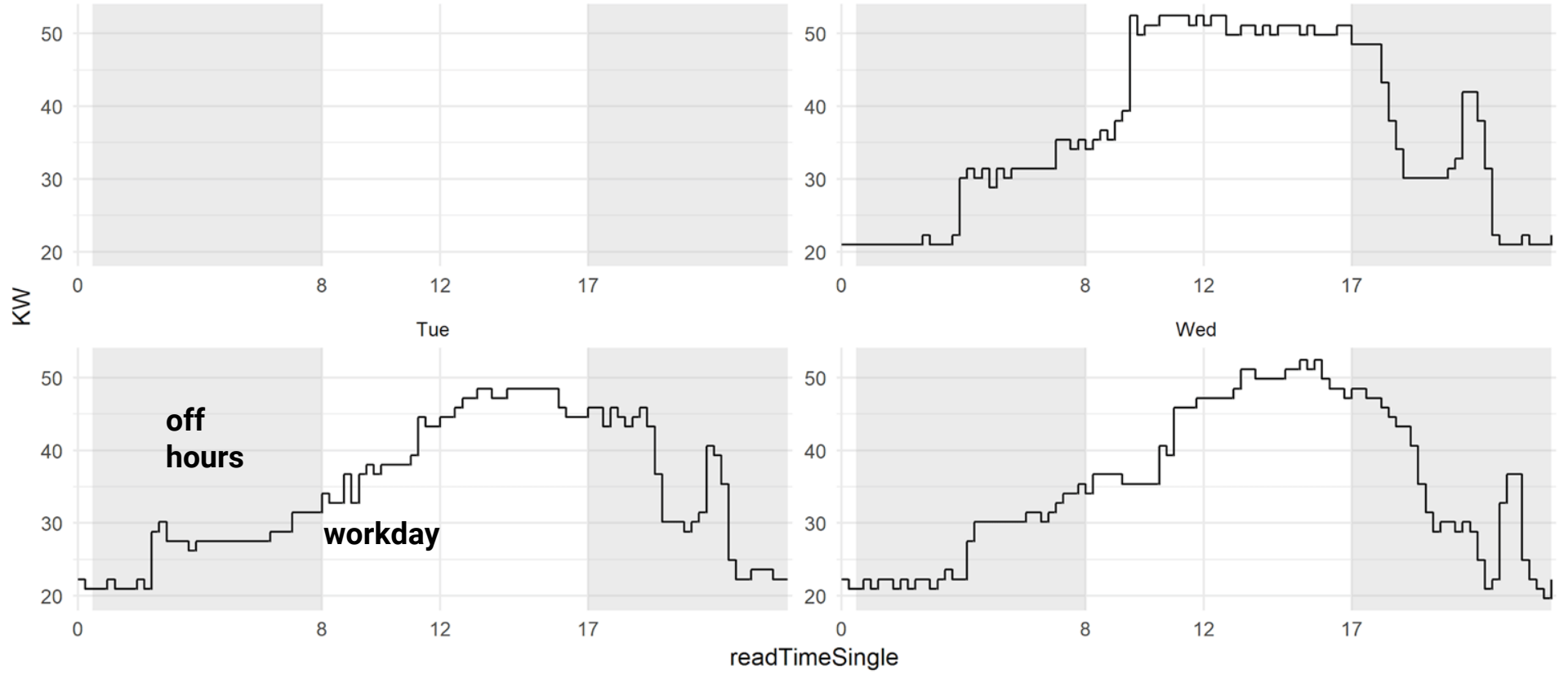
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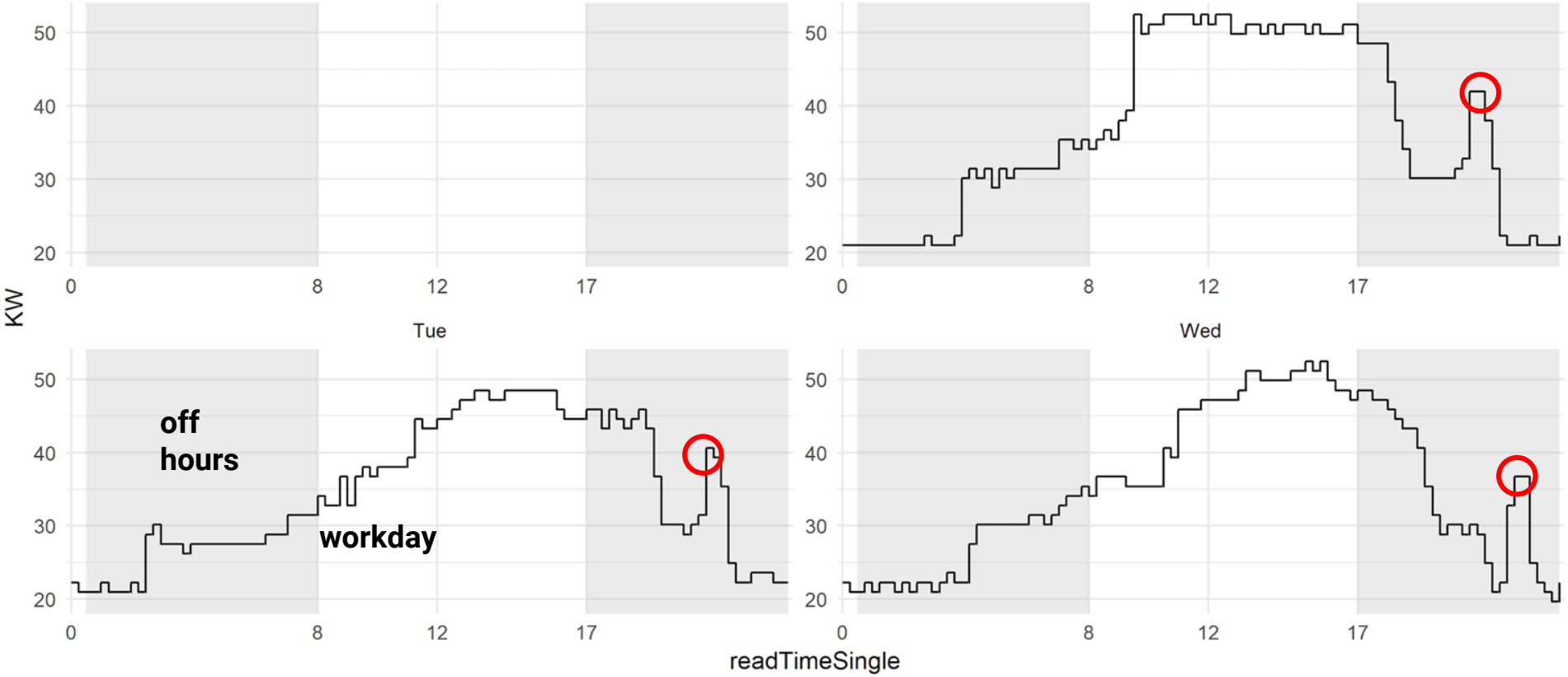
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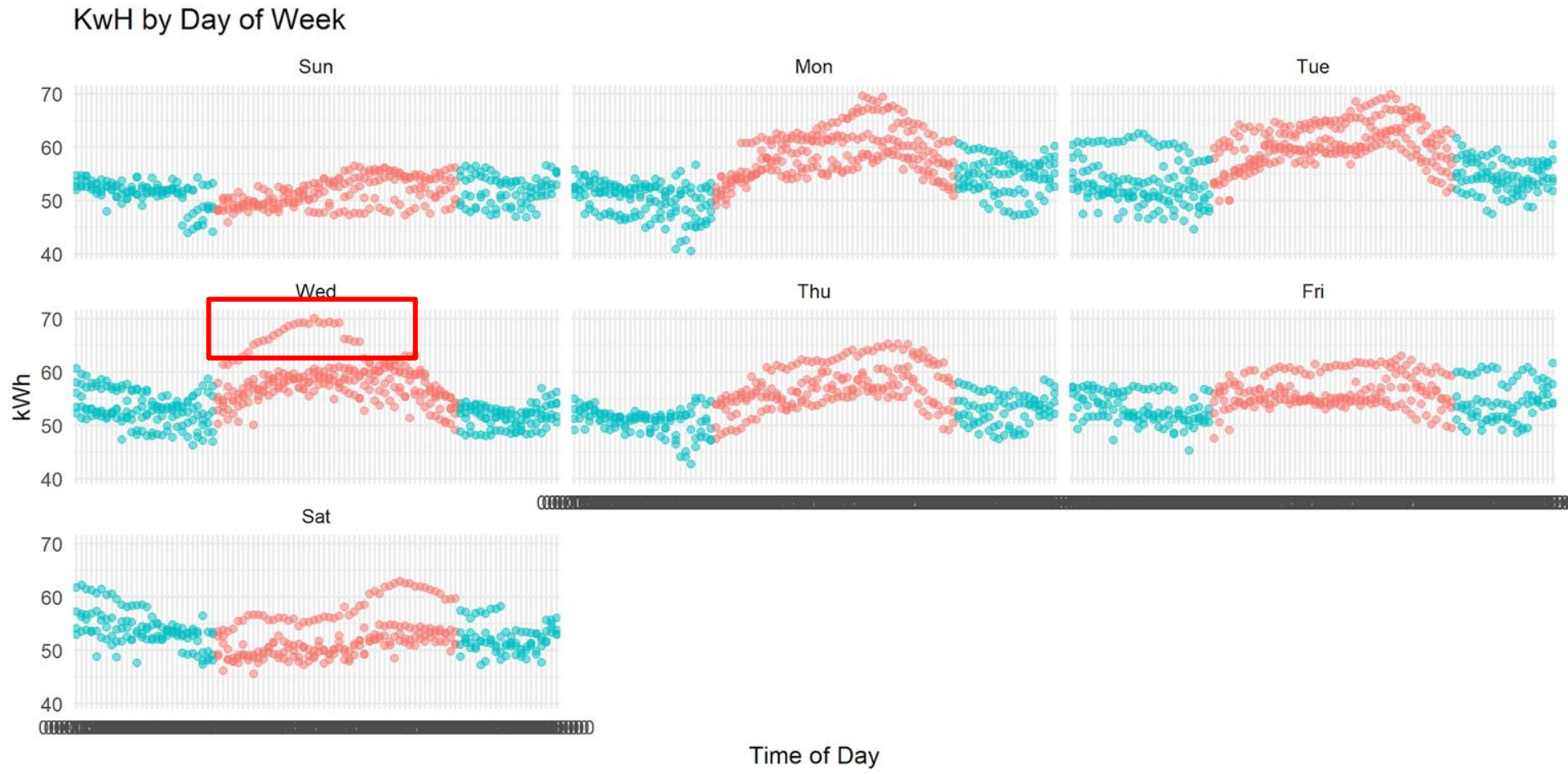
KwH by Day of Week
Sun
Mon
Tue
Wed
Thu
Fri
Sat
70
60
50
40
kWh
Time of Day

What’s a good data and automation problem?

Finding a needle in the haystack

Early warning tools

Prioritizing for impact

Automating the mundane

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Finding a needle in the haystack

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Stay in Touch:

bit.ly/ancinnovation

Ben Matheson

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343-6980