Case Study 1:

Generating a Report Repository

Final product



The steps

Prepare the data

- Download files for the month from the raw data bucket
- · Concatenate them into one csv
- Create an aggregated DataFrame

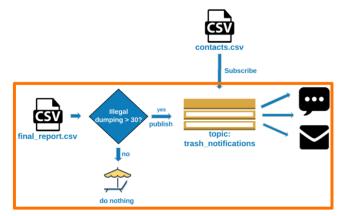
Create the report

- Write the DataFrame to CSV and HTML
- Generate a Bokeh plot, save as HTML

Upload report to shareable website

- Create gid-reports bucket
- Upload all the three files for the month to S3
- Generate an index.html file that lists all the files
- Get the website URL!

Case Study 2: Building a notification system **Final product**



Building the notification system

Topic Set Up

- · Create the topic
- · Download the contact list csv
- Create topics for each service
- Subscribe the contacts to their respective topics

Get the aggregated numbers

- Download the monthly get it done report
- Get the count of Potholes
- · Get the count of Illegal dumping notifications

Send Alerts

- If potholes exceeds 100, send alert
- If illegal dumping exceeds 30, send alert