



MARCH 06, 2020

IronHack Amsterdam Project

Pedro, René, Patrick





Hacki Inc.

WE ARE


data analytics consultancy.

WE BELIEVE

data is everything.

WE

provide data intelligence
to you.



Creating insights and making data widely available for everybody

This challenge focusses on combining specific datasets from the municipality of Amsterdam and external datasets to provide new insights. However, the proof of concept presented today will not only do this but also provide a framework on how data insights could be more accessible.

Section Overview

5 The problem

Make waste interesting again

7 Architecture

Framework for future data intelligence

8 First results

Exploratory analysis of the problem

10 Conclusion

An unexpected twist

11 Damsco

Introduction of a intelligent waste retrieval robot



**Make waste
interesting again!**

**The distribution of
waste containers**

Why waste retrieval is important

The most important reason for waste collection is the **protection of the environment** and the **health of the population**.

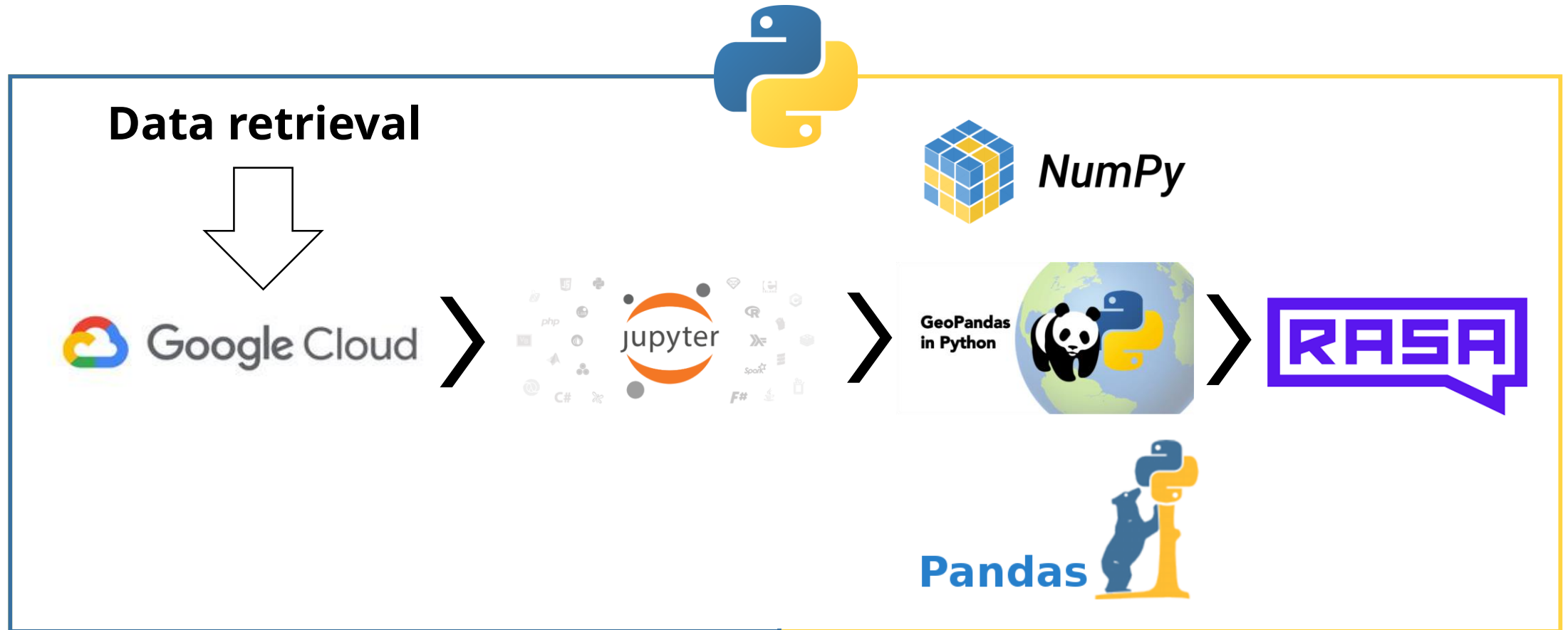
The distribution of waste containers in Amsterdam

With the opensource data from the municipality and the ambition to turn open source data into valuable insights the following framework has been developed.

- Is the distribution of containers in the city fairly distributed across all sub-areas of Amsterdam?
- Is the distribution of containers in the city fairly distributed across the population?
- Are the current planned containers well distributed based on the current distributions across containers?

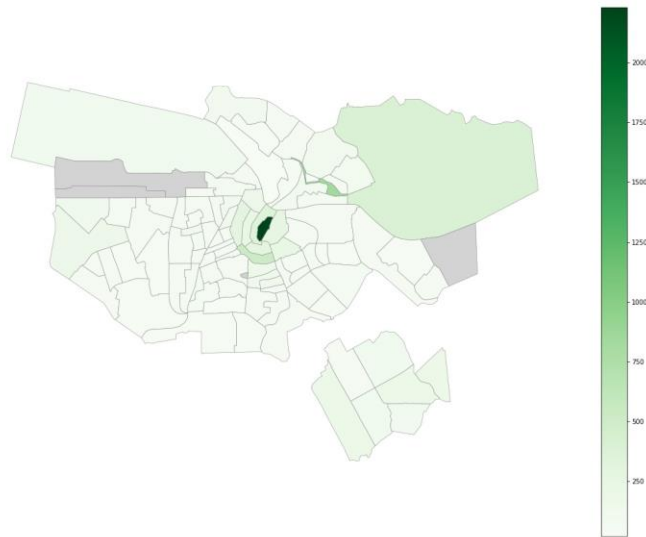


Architecture of the project

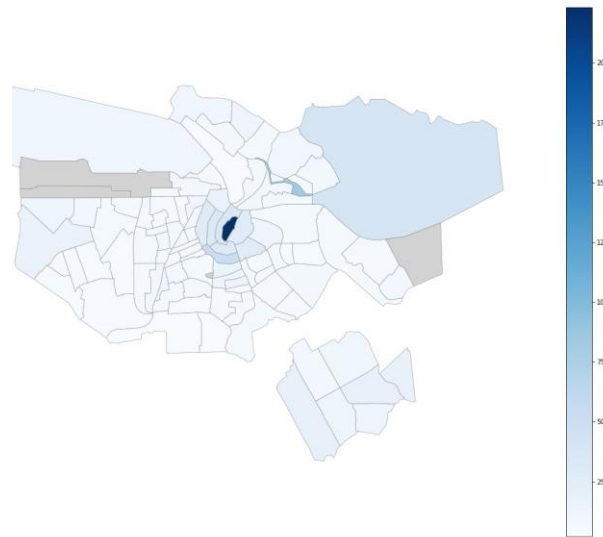


Results - Capita per Container

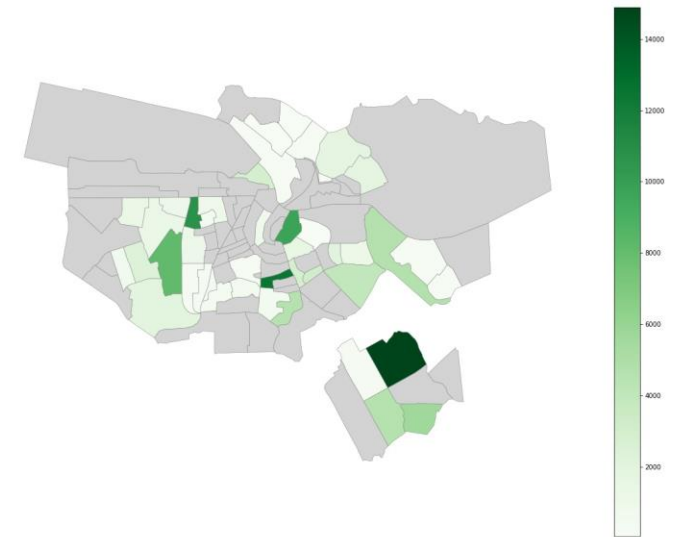
Active + Planned



Active

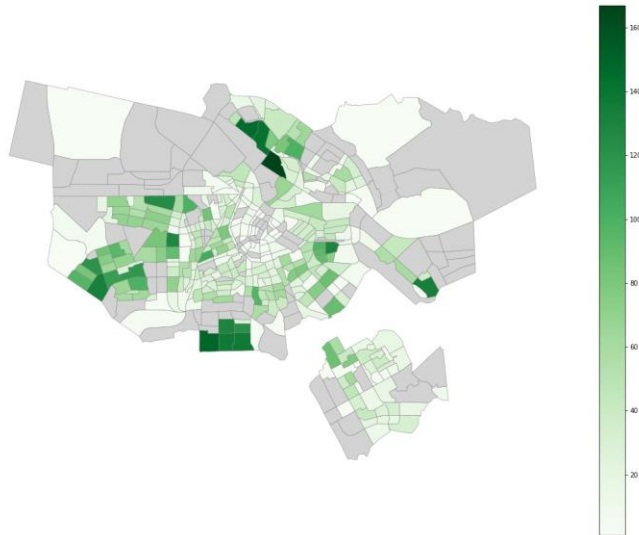


Planned

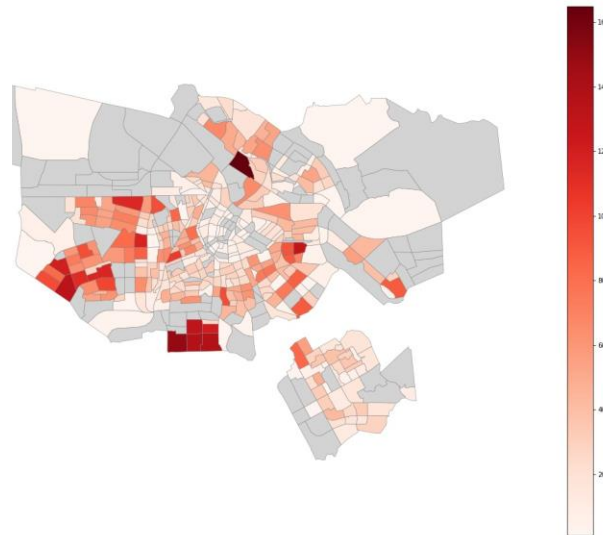


Results – Containers per neighborhood

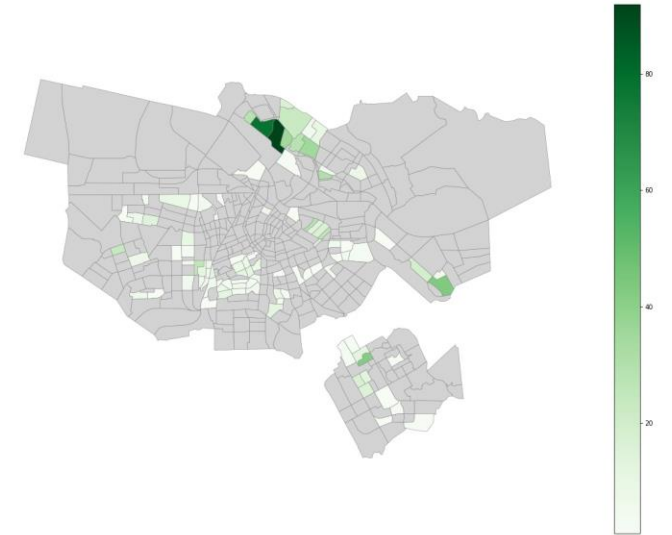
Active + Planned



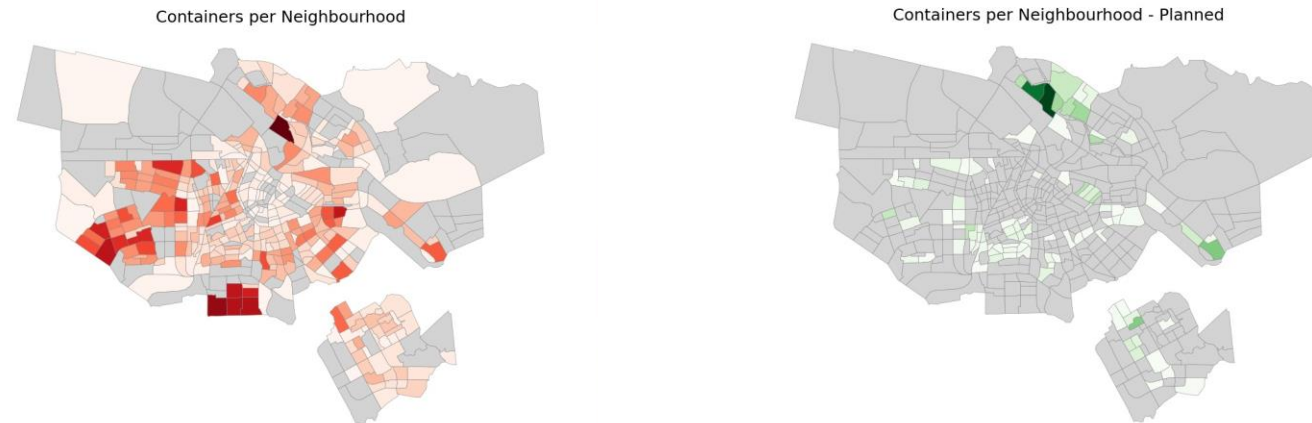
Active



Planned



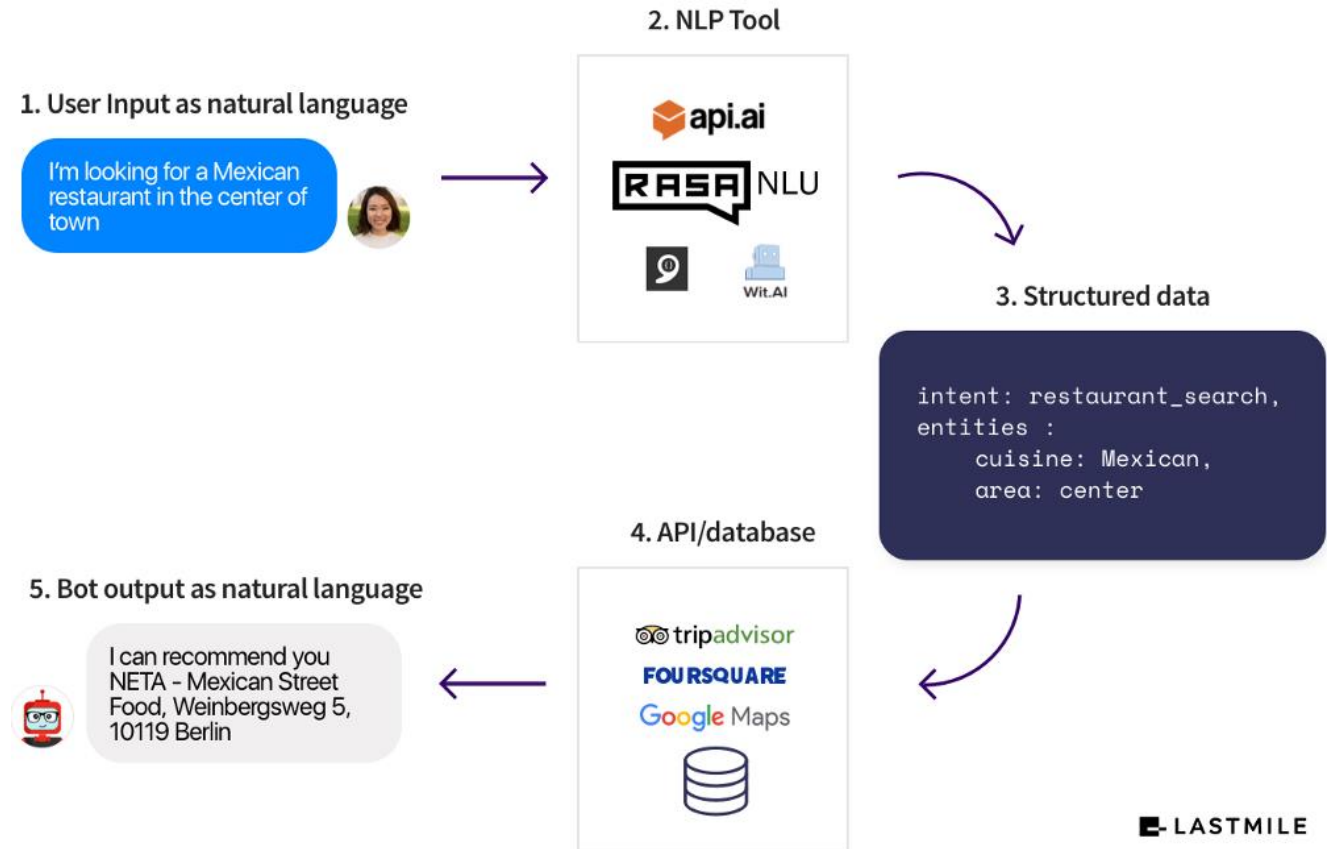
Waste retrieval is important but data intelligence even more



The problem is not in the planning of the containers but **in the availability and accessibility of data...**

Damsco- The Intelligent Waste Retrieval Robot

A chatbot specially to create more intelligence from available for the city of Amsterdam





Thank you.

Pedro Moreira

Hacki – Partner

Patrick Colijn

Hacki - Partner

René Raube

Hacki - Partner