

# Executive Summary

# **Involved Entities**

NYC EDC: Economic Development Corporation

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NYC Office of the Mayor

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**DSNY**: Department of Sanitation

= Graffiti-Free NYC Program

DSNY Graffiti Tracking | NYC Open Data

Graffiti-Free NYC | NYCEDC

# High Level Problem + Solution

Ultimate goal: Have NYC be graffiti free

 Obstacle: 10,000+ annual incidents reported; months pass before removal

 Solution: Prevent instances before they happen by pinpointing major spots and times

# Strategy Framework

# Strategy

Strategy: Ensure NYC's aesthetics by reducing the amount of graffiti needing to be cleaned.

#### Approach:

- Scorecard
- Business Model Canvas
- OKRs

#### Scorecard

Customer Desire → Less Graffiti

#### Drives

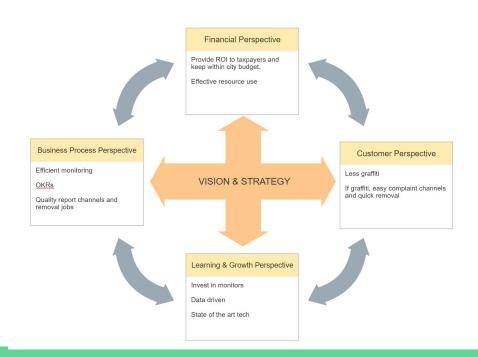
 Our strategy → Monitoring program, analyzing data and prediction

#### Drives

Business Processes → Monitoring routes,
OKRs, work with data

#### Drives

 Financial Perspective → Remaining on budget, ROI for taxpayers



# **OKRs**

#### Objective 1: Reduce graffiti in NYC

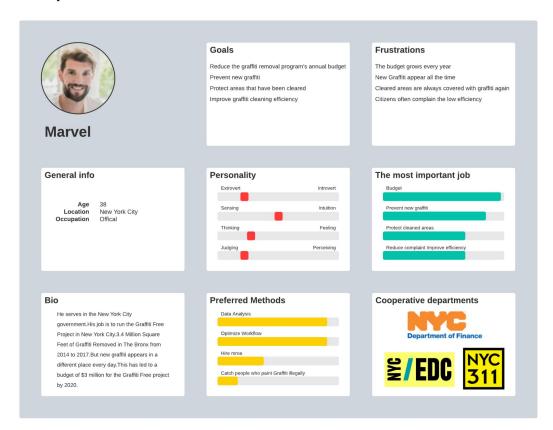
- KR: Catch 20% of graffiti instances before they happen in first year
- KR: Improve AI accuracy in predicting new graffiti occurrences by 5% (AI optimizes police patrol routes)
- KR: Remove 75% of graffiti instances reported this year

#### Objective 2: Remain in budget

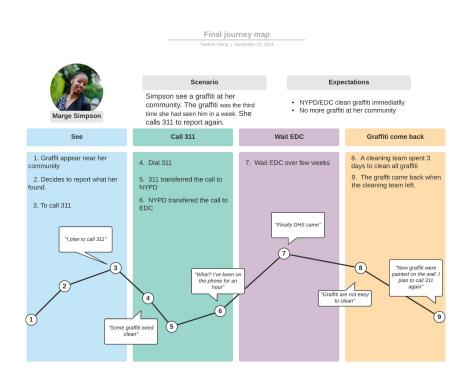
- KR: Reduce graffiti cleaning costs per square foot by 10%
- KR: Allow 10% of graffiti instances to be covered by artists (for free)
- KR: Check in with budget managers quarterly

# Design

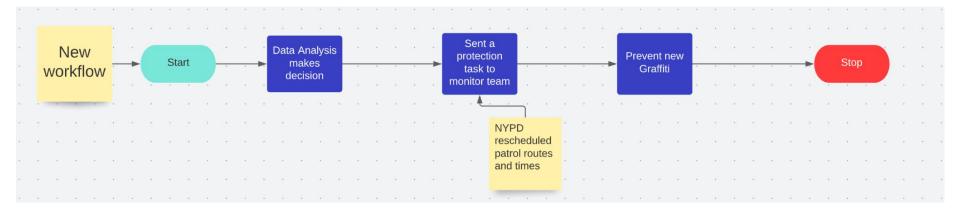
# Personas help us understand the needs

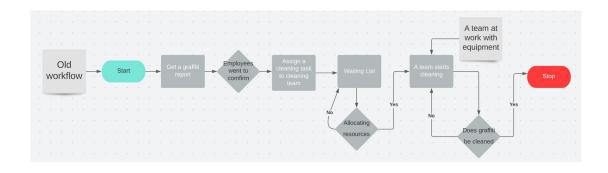


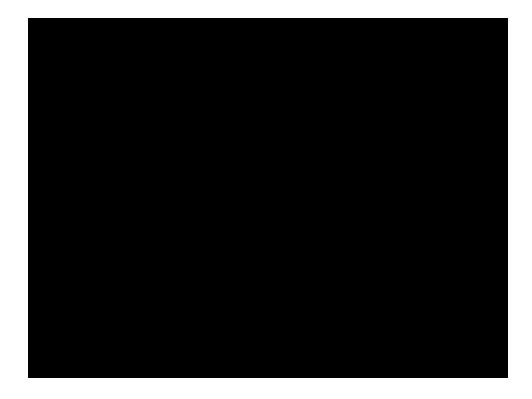
# Journey Maps help us understand the pain points



# Process flow diagrams optimize resource utilization

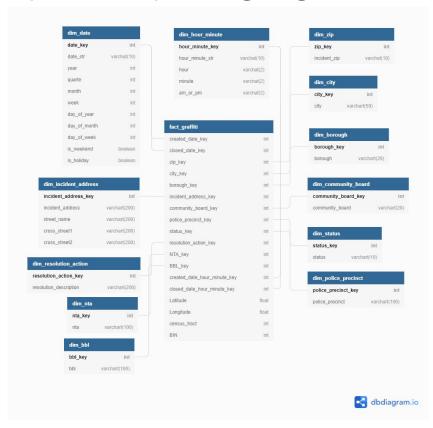




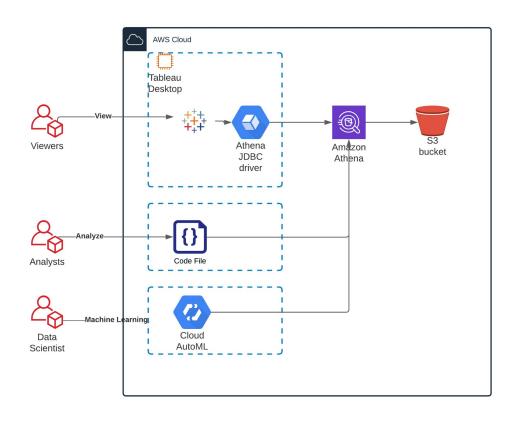


Analytics use case, dataset, data dictionary, and business glossary.

# Star Schema simplifies reporting logic



# We provide up-to-date analysis by Cloud Architecture



Visualization (Demo)

# Link to Tableau Demo

https://public.tableau.com/views/Book1\_16402274563980/Dashboard1?:language= en-US&publish=yes&:display\_count=n&:origin=viz\_share\_link

# Challenges

# Challenges:

- Coming up with a realistic strategy
- Coming up with OKRs
- Deciding on the dataset

# Lessons Learned + Improvement

#### What We Might Do Differently:

- Get started earlier
- Examine the NULLs

#### **Enhancements:**

- More data sets
- More connecting to EDC
- Go further into what constitutes graffiti

# Thank you for listening.