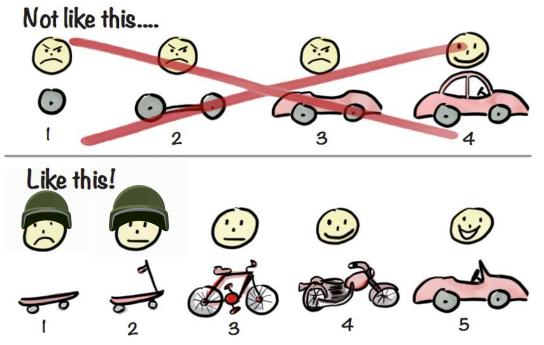
# **Analysis of MTA Data**

Project 1 Jonathan Liu, Hans Remy, Benjamin Lu

### **Metis Insights Everywhere**



**Iterate Responsibly and With Safety Measures:** 

Code hygiene → Road sense Pickled data file → Helmet

# **Objective**

"WomenTechWomenYes (WTWY) has an annual gala at the beginning of the summer each year. As we are new and inclusive organization, we try to do double duty with the gala both to fill our event space with individuals passionate about increasing the participation of women in technology, and to concurrently build awareness and reach.

To this end we **place street teams** at entrances to subway stations. The street teams collect email addresses and those who sign up are sent free tickets to our gala."

# **Breaking Down the Objective**

| Dimension  | Focus                                  | Further Analysis   |
|--|--|--|
| annual gala beginning of the summer this year        | - First 6 months of the year           | - Are there noticeable trends month to month? E.g due to weather   |
| fill our event space<br>Build awareness and<br>reach | - Top X stations with highest footfall | - Might the data suggest the profile of such footfall? E.g locals, tourists, students?   |
| place street teams                                   | - Trended footfall within stations     | <ul><li>Are there particular days that have higher footfall on average?</li><li>Within the day, what is the footfall like?</li></ul> |

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# Preliminary Data Analysis

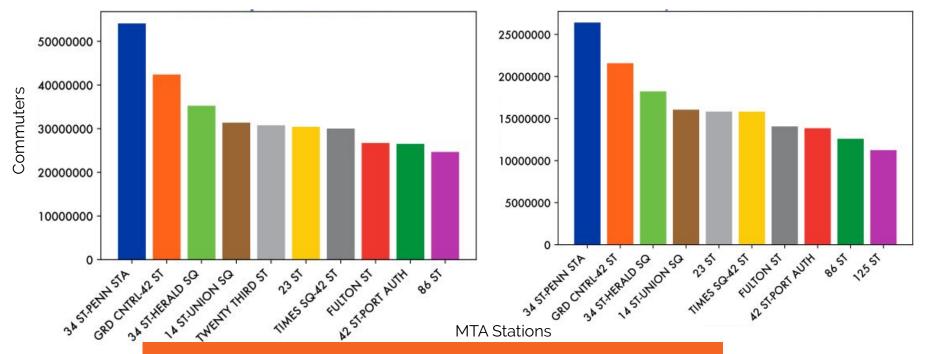
## **Footfall Volume and Consistency**

#### Footfall Jan to June 2019

Top 3 stations: ~130M footfall (~40%) Next 7 stations: ~210M footfall

### Footfall Apr to June 2019

Top 3 stations: ~65M footfall (~40%) Next 7: ~100M footfall

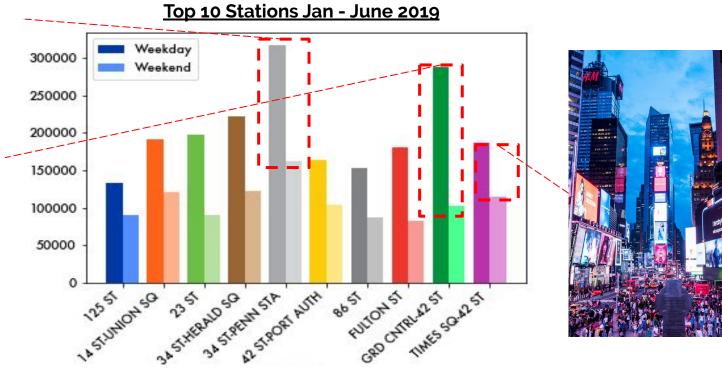


**Clear and Consistent Footfall across top 10 Stations** 

# Footfall Breakdown by Week







**MTA Stations** 

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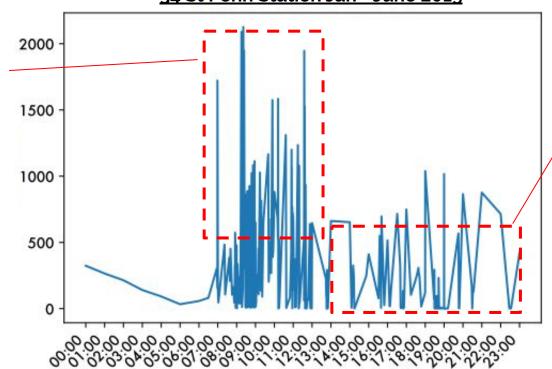
# **Optimizing Street Teams**

## **Tracking 24 Hour Footfall**

### 34 St Penn Station Jan - June 2019

### Notable Spikes in Commuter Traffic

- Might suggest "rushed" commute
- Focus on flier distribution
- Visual publicity
- General mass marketing



### Easing of volume and traffic intensity

- Might suggest leisurely commute
- One to one engagement
- Interactive booths/panels
- Targeted impact & high conversion rates

**Tailor Outreach to Commuter Travel Patterns** 

### Recommendations

### Macro Strategy

Target 3 busiest stations of 34 St & Penn, 34 St & Herald Sq, Grand Central

Target weekdays for higher local footfall

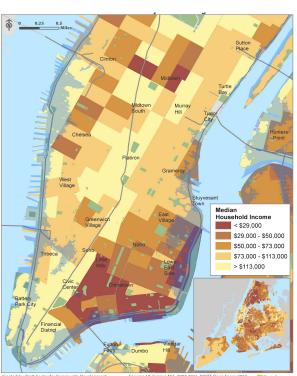
### Micro Strategy

Commuter travel patterns suggest morning might be good for mass outreach; afternoons may be good for tailored engagement

## **Further Study**



Enhance campaign relevance -Factor in station proximity to "tech hubs"

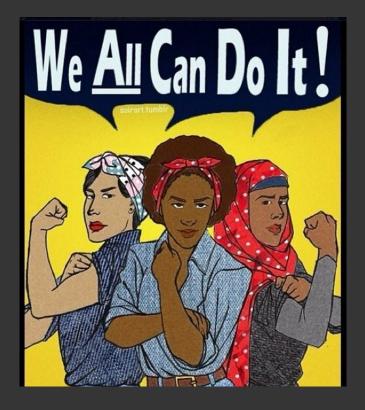


**Increase exposure to potential donors** - Analysis by household income data (e.g by zip code)



Optimize street team exit placement - Deep dive into turnstile data

Women Tech



Women Yes!