

E-Scooter Sidewalk Usage at UMD

IC-TEAM #22010

Chu-Hsuan Tsao
Fabienne Yang
Kevin Chou



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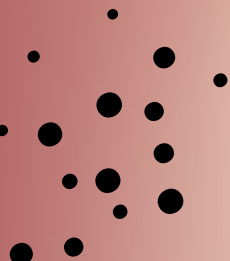
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01



Introduction





Introduction

Objective

- Identify the **top three areas** that are most traversed by Veo e-scooter users
- Find out the **special patterns** of e-scooter routes

DataSource

- September Veo e-scooter trips data
- November Veo e-scooter trips data
- Campus sidewalk location data

Methodology

- ArcGIS

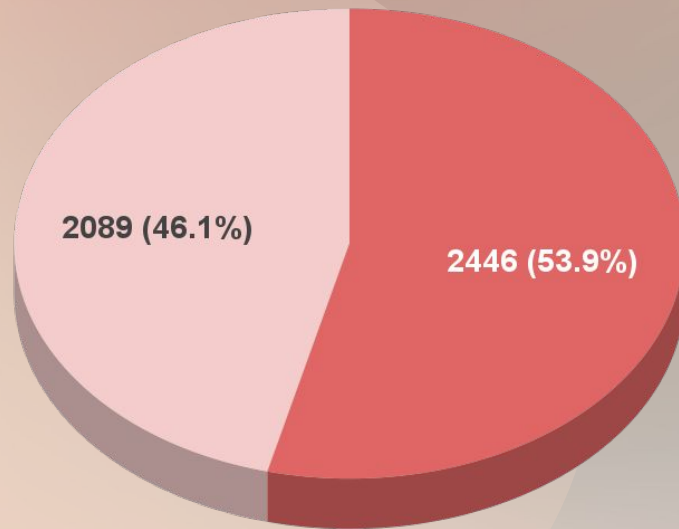
02

Overview of Data

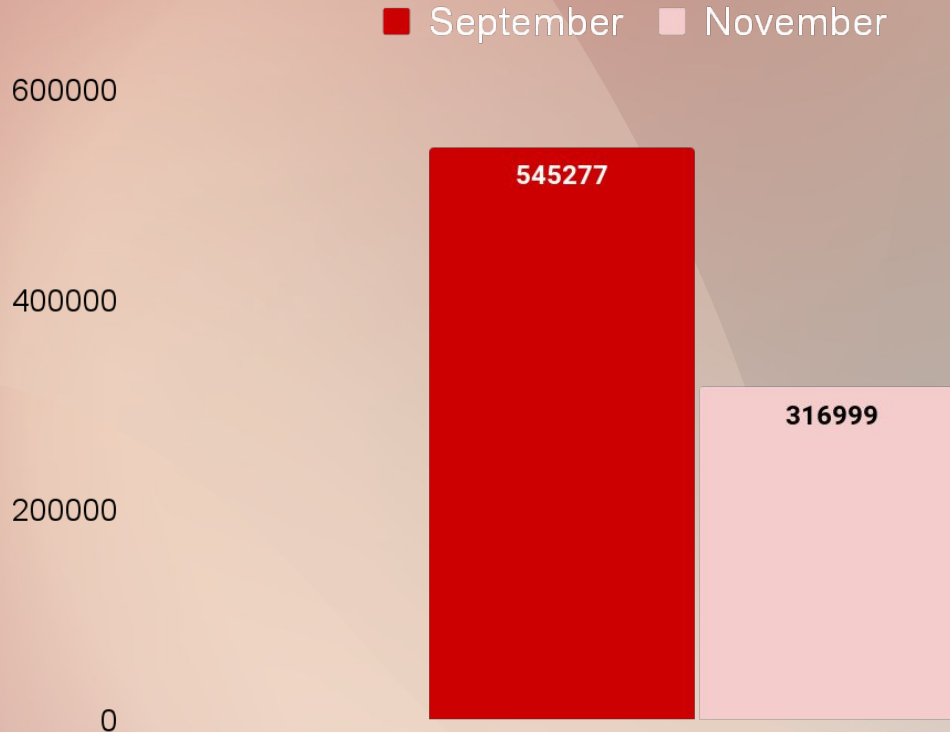


November has less infraction routes than September

● September ● November



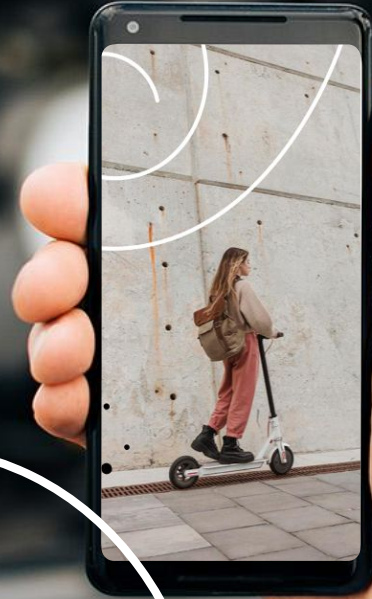
The infraction trips are also declined from September to November



03



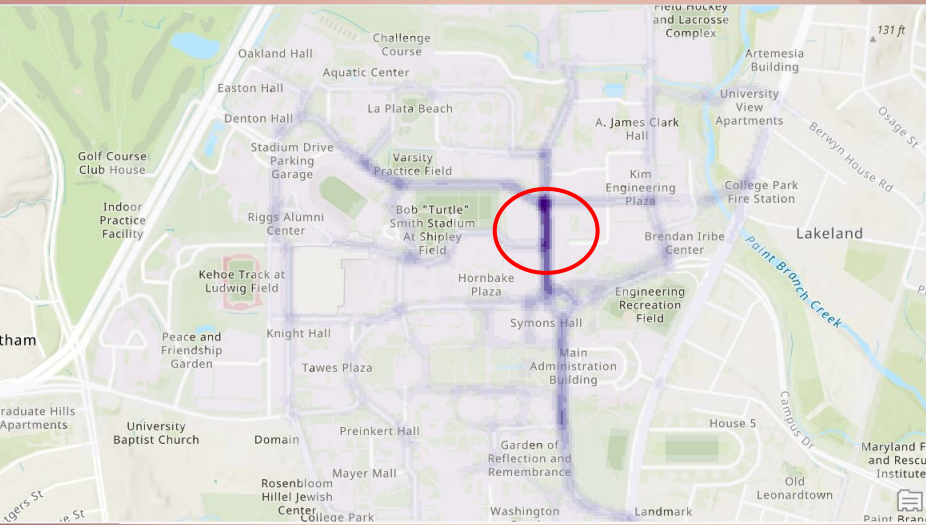
Our Findings



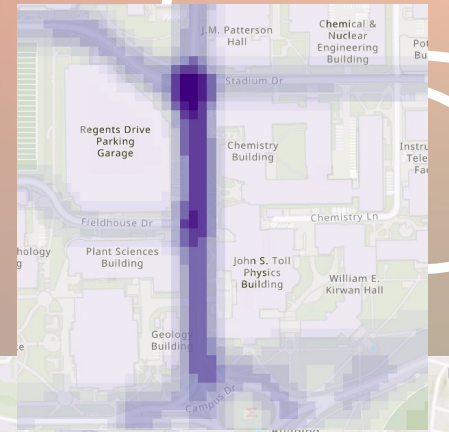
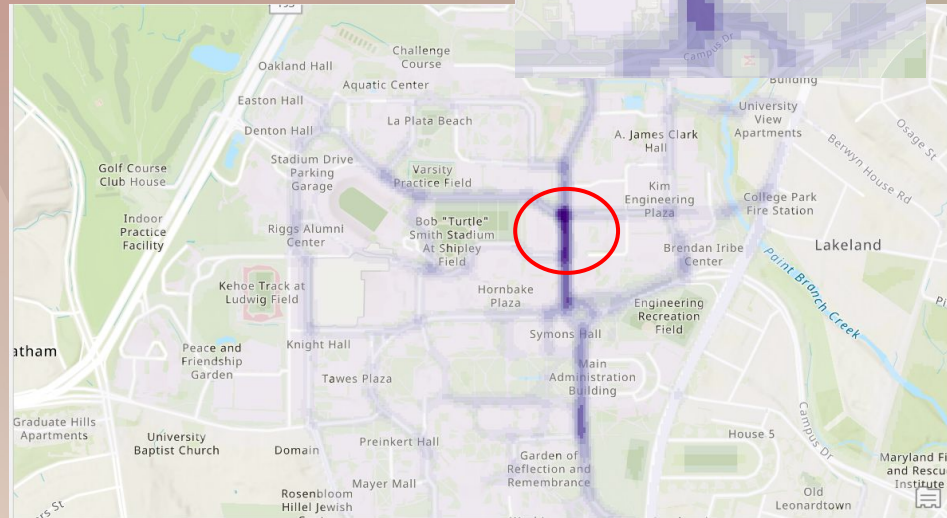
Our Findings

Number of e-scooter trips between two months

September



November

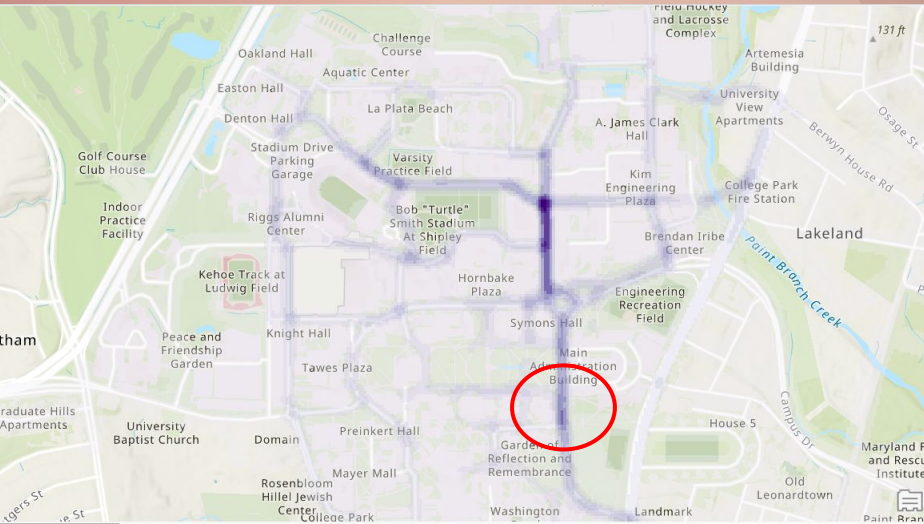


- People mainly ride on the Regents Dr.
- Especially the routes between geology Buildings and chemistry building

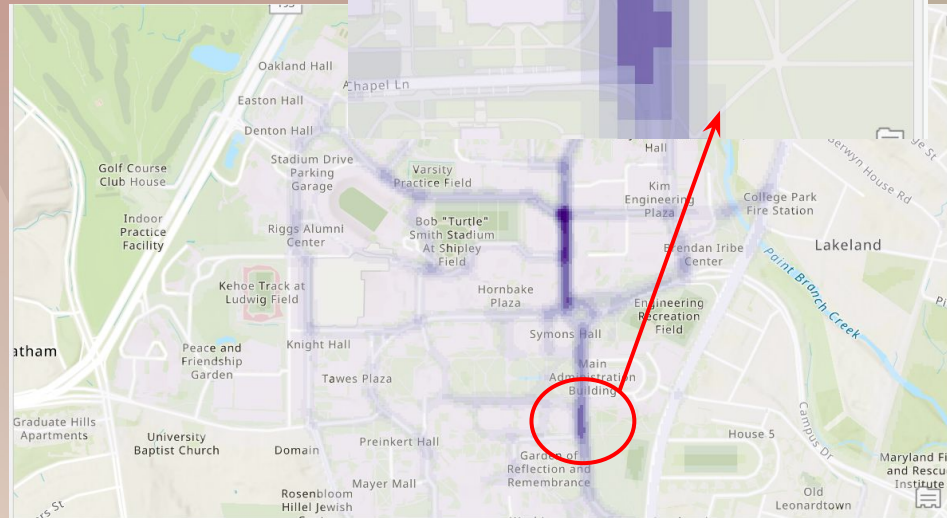
Our Findings

Number of e-scooter trips between two months

September



November



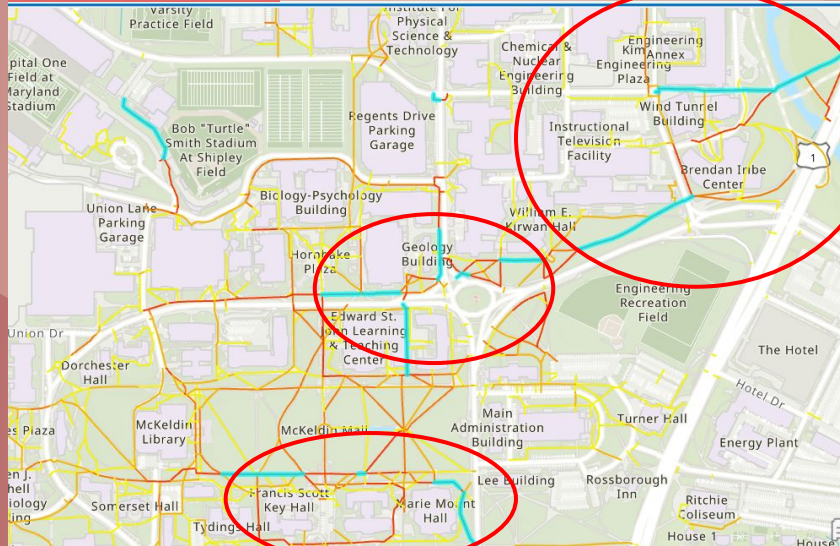
- Compared to September, more e-scooter trips located around Marie Mount Hall & Lee Building

Our Findings

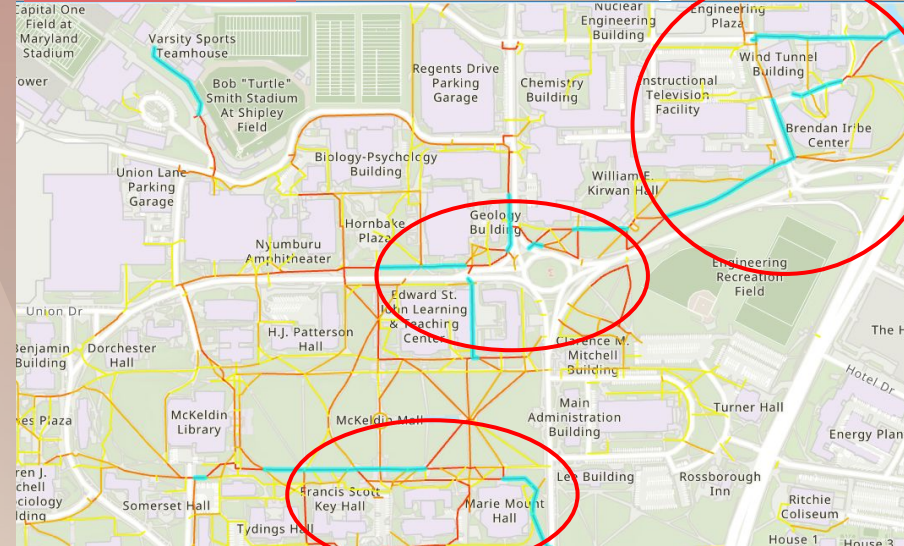
Comparison of e-scooter infraction trips between two months

Most of the sidewalks are made of concrete

September



November



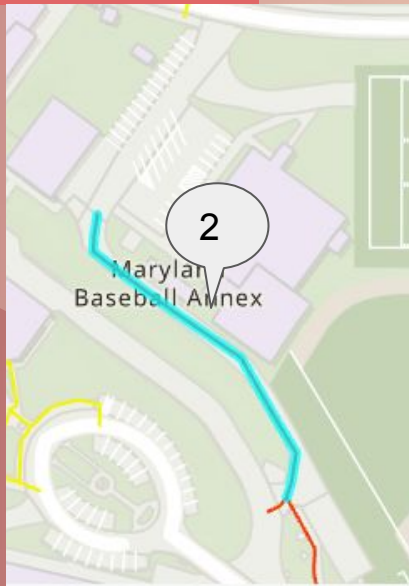
**Top 3 area
with most
infractions**

- Bridge to Varsity – Brendan Iribe – William E. Kiwan Hall
- Geology building – HomeBake Library
- Right routes of the Mckeldin Mall

Our Findings

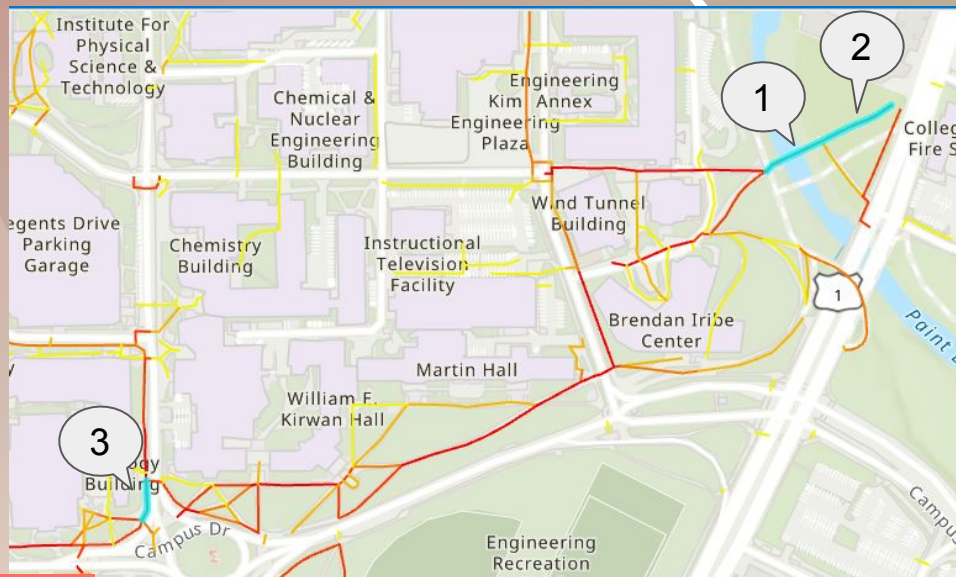
Comparison number of e-scooter infraction trips between two months

September



- Connection sidewalk to the Bridge: 2259 trips
- Varsity sport team house: 2123 trips
- Route next to Varsity: 1976 trips

November



- Connection sidewalk to the Bridge: 1429 trips
- Route next to Varsity: 1252 trips
- Route beside the geology building: 1197 trips

**Top 3
ROUTES**

Our Findings

TOP 3 ROUTES (Overall)

Connection sidewalk to the Bridge

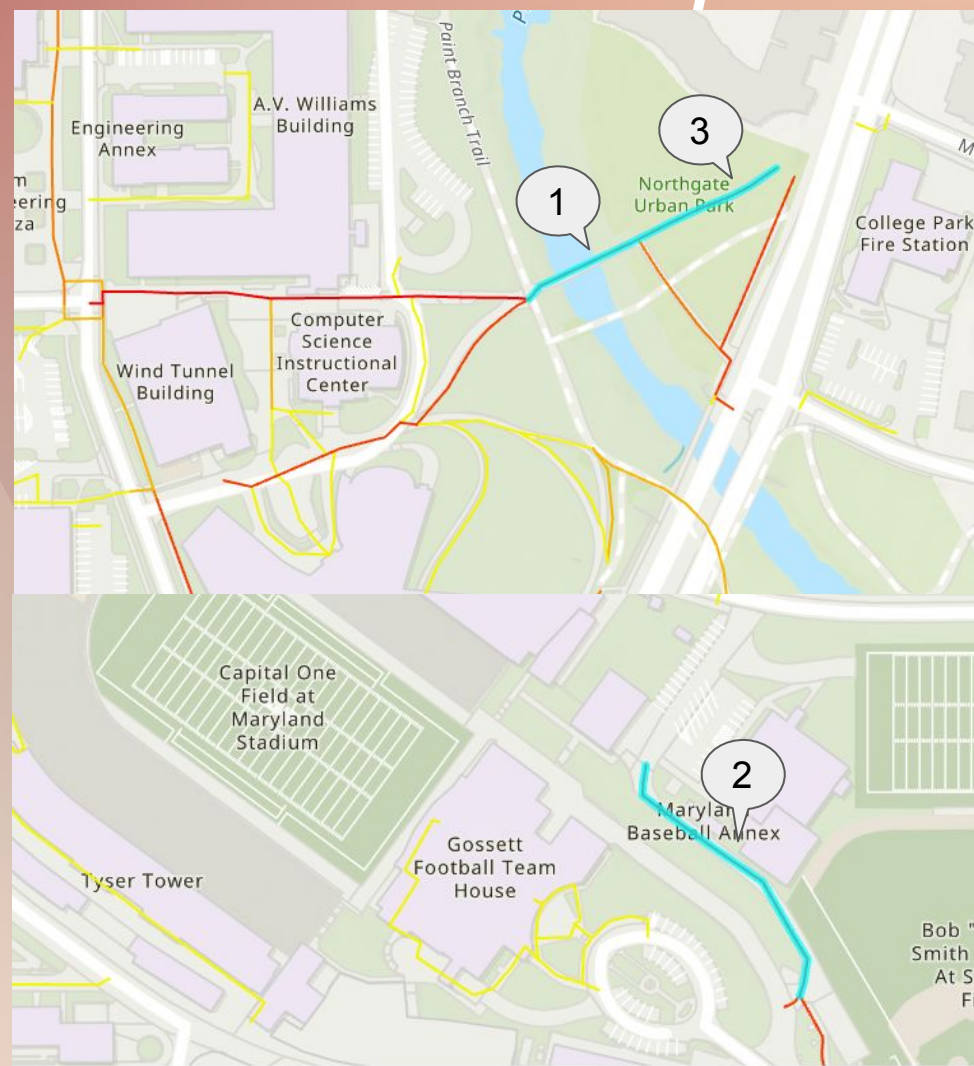
3688 trips

Varsity sport team house

3272 trips

Route next to Varsity

3228 trips



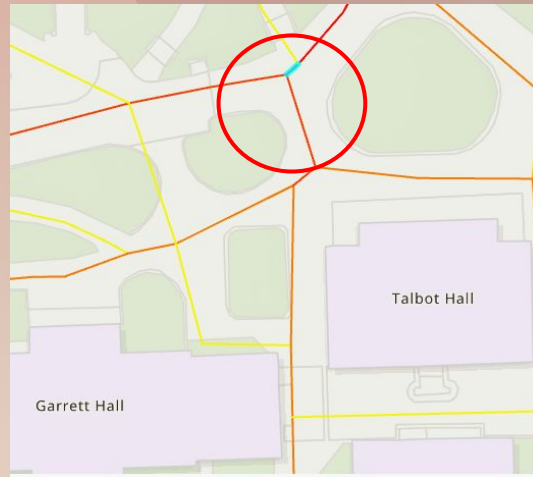
Our Findings

Comparison number of e-scooter infraction trips between two months (Normalized)

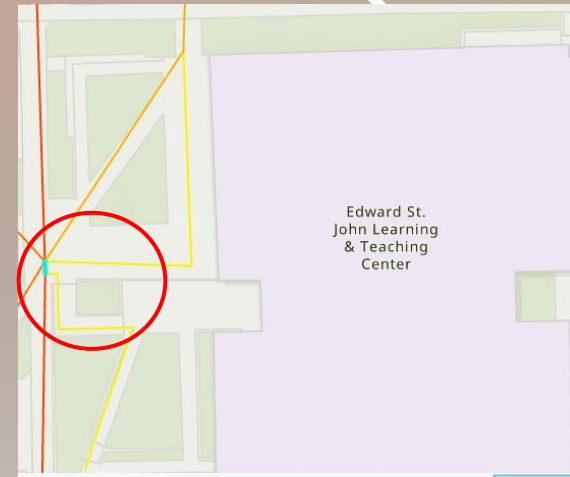
Top 3 ROUTES (Overall)



Route between Eppley and
La Plata Beach
Sep- 607.8 count per length
Nov- 349.4 count per length



Route near Talbot Hall
Sep- 581.9 count per length
Nov- 365.7 count per length



Route near
ESJ Learning and Teaching Center
Sep- 423.6 count per length
Nov- 235.1 count per length



04

Conclusion

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Conclusion

01



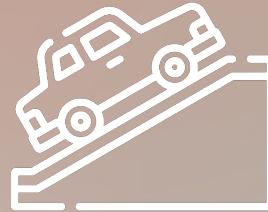
**Weather
&
Holidays**

02



**Around
Academic
&
Residential
Buildings**

03



Uphills

04



Shortcuts



**Thank
You!**