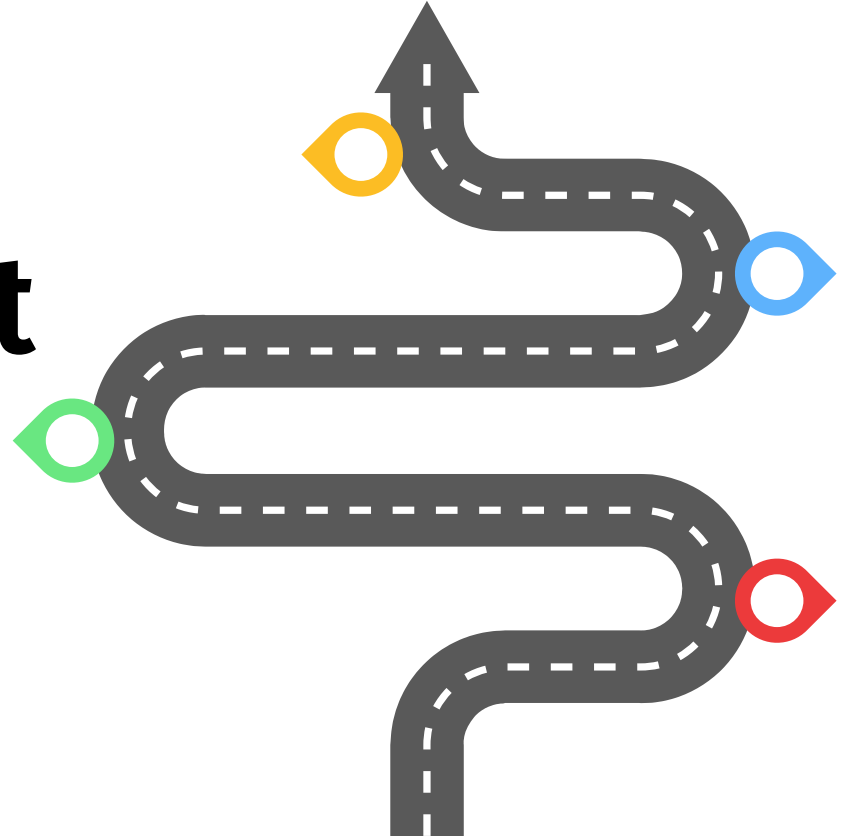
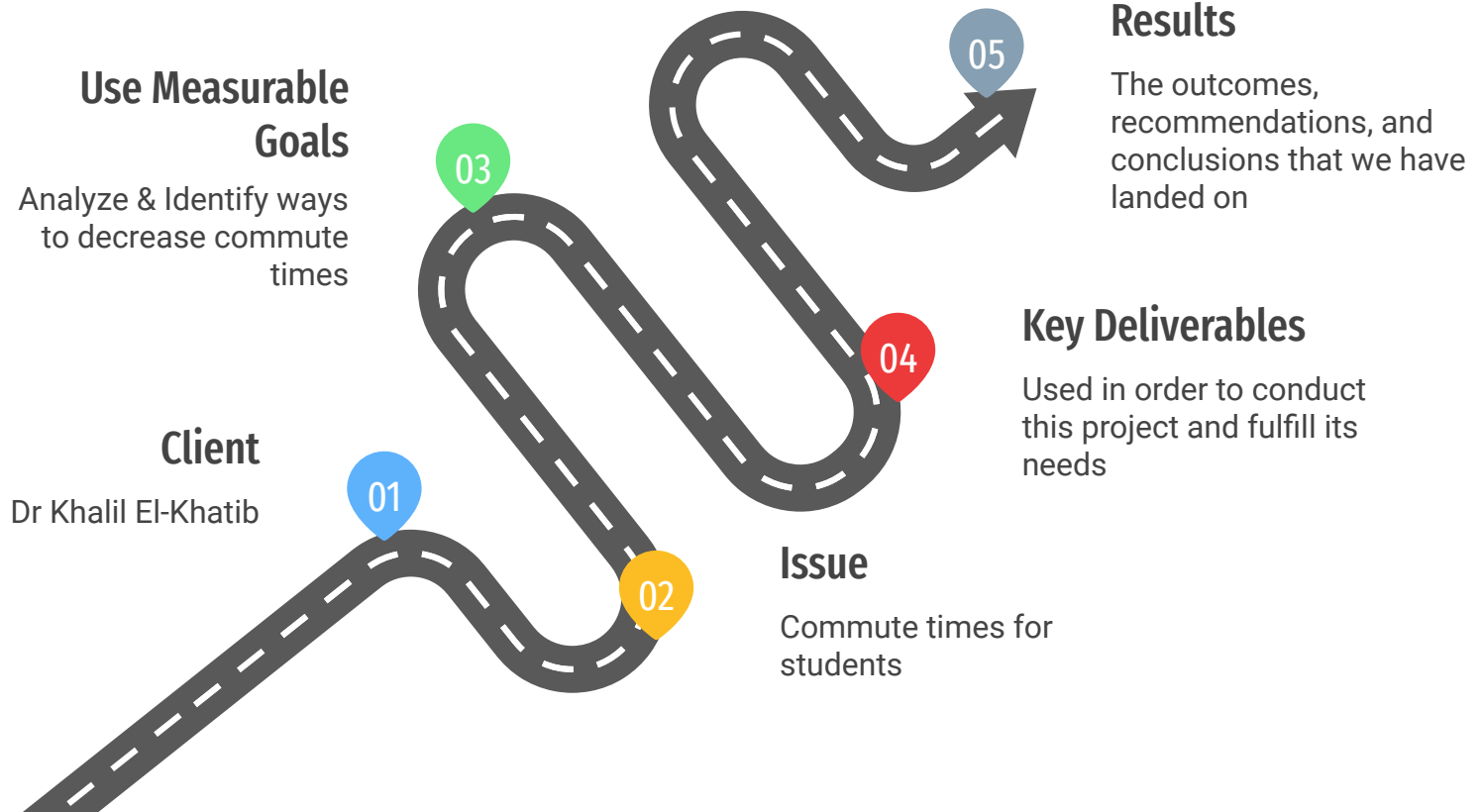


Student Commute 2023 Analysis Report

By: Nicholas Hughes, Franklin Muhuni,
Matthew Denniston, Anoje Janathanan



Introduction



Scope Definition

Research Method

Secondary & Primary
Research

OTU & DRT

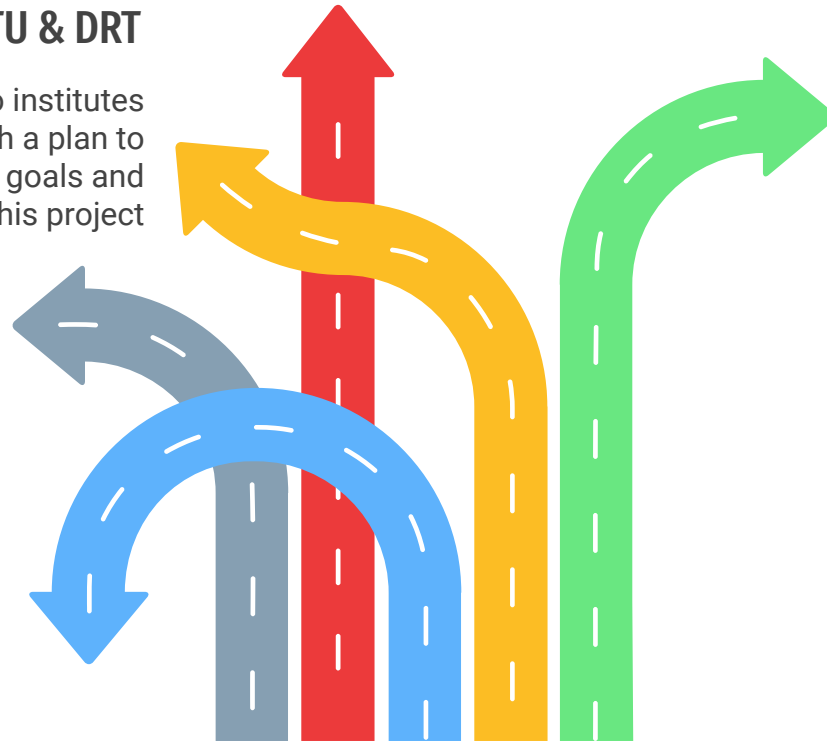
Help these two institutes
come up with a plan to
fulfill the goals and
purpose of this project

Purpose

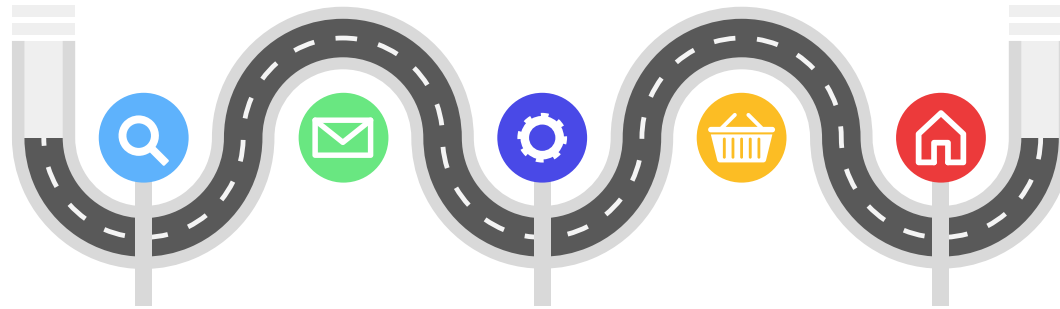
Address the issue of
long commute times to
campus

Goal

Make commuting easier,
more efficient, and
quicker for students



Research Methods



OnTech Website

We looked on the OnTech website for initial bus recommendations.



Google Maps

We queried Google Maps API to get bus routes by ZIP codes.



Experience

After taking the bus we can verify that the API results are correct.



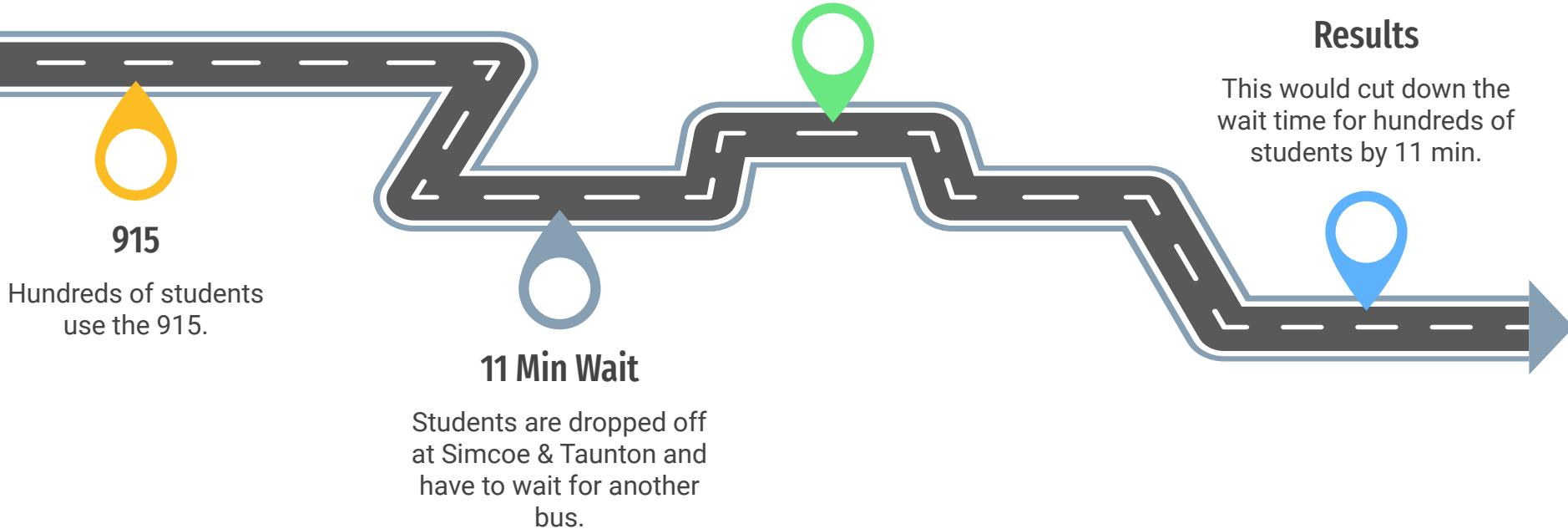
Research Results

Solution

Reroute the 915 to North Campus.

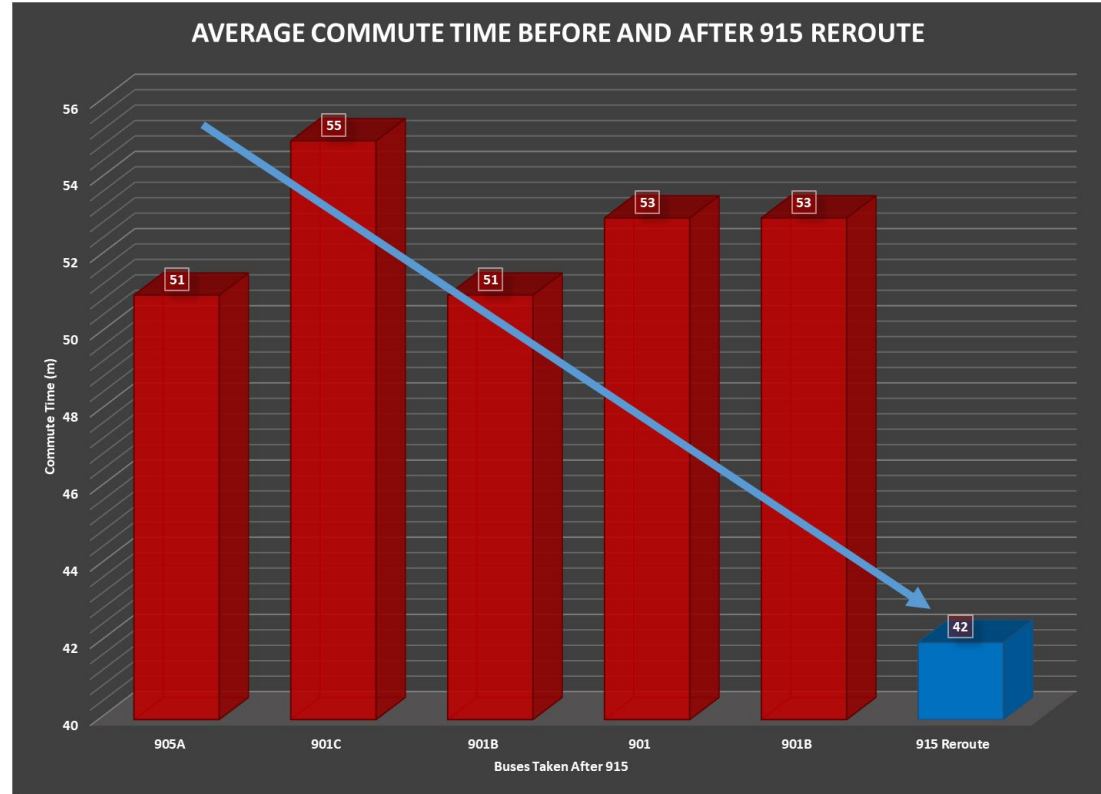
Results

This would cut down the wait time for hundreds of students by 11 min.

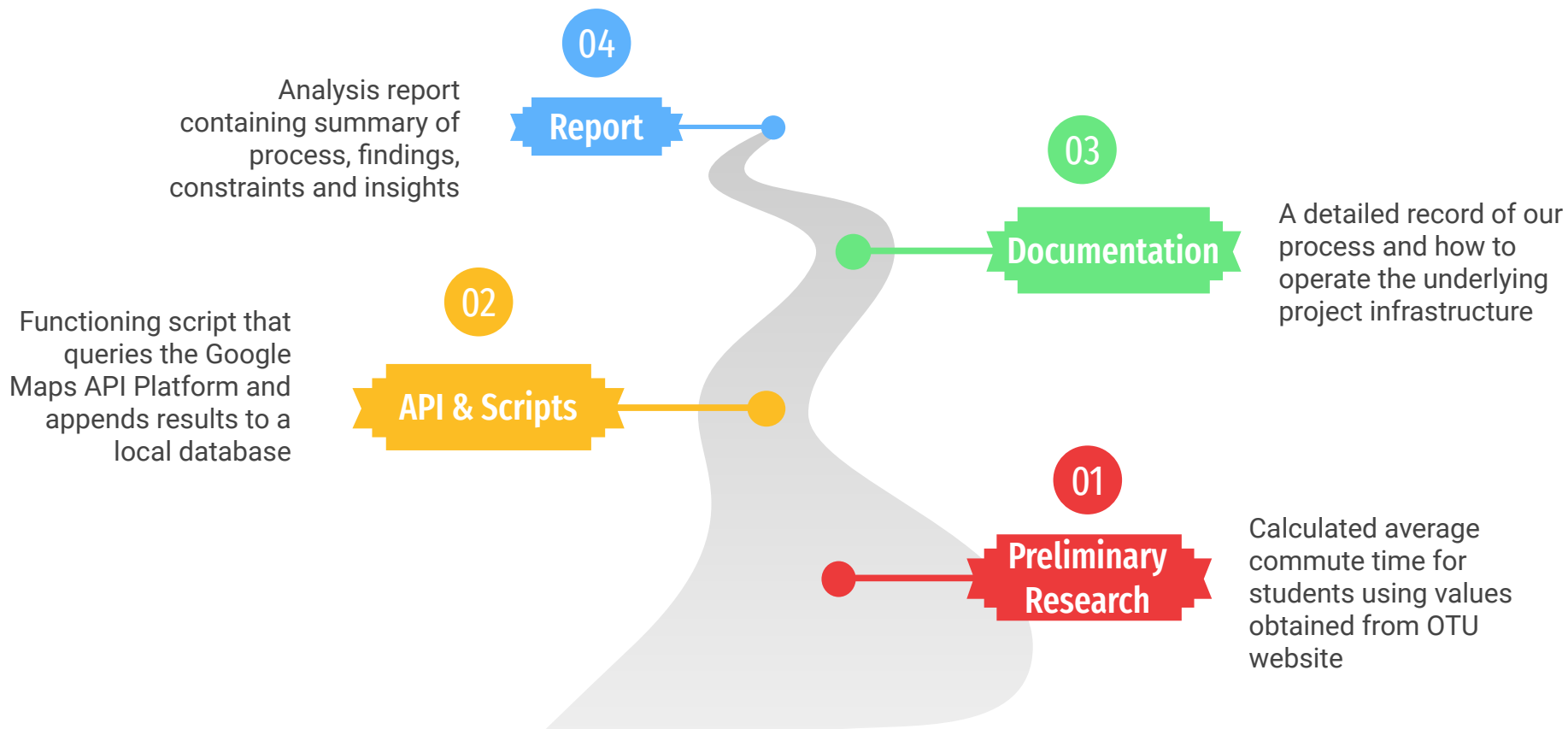


Recommendation: 915 Reroute Benefits

- Saved total of 1920 bus transfers for students.
- Student wait time is cut by an average of 11 minutes.
- Increased safety on the bus.
- Increased student satisfaction.



Key Deliverables



Deliverable Outcome and Recommendations

- The data aggregation process takes time.
- Script processes an extremely large amount of data
- Optimize script performance.
 - Asynchronous functions
 - Multi-threading/processing



Conclusions and Summary

Research Methods

Website Verification &
Google API Querying

01

Research Results

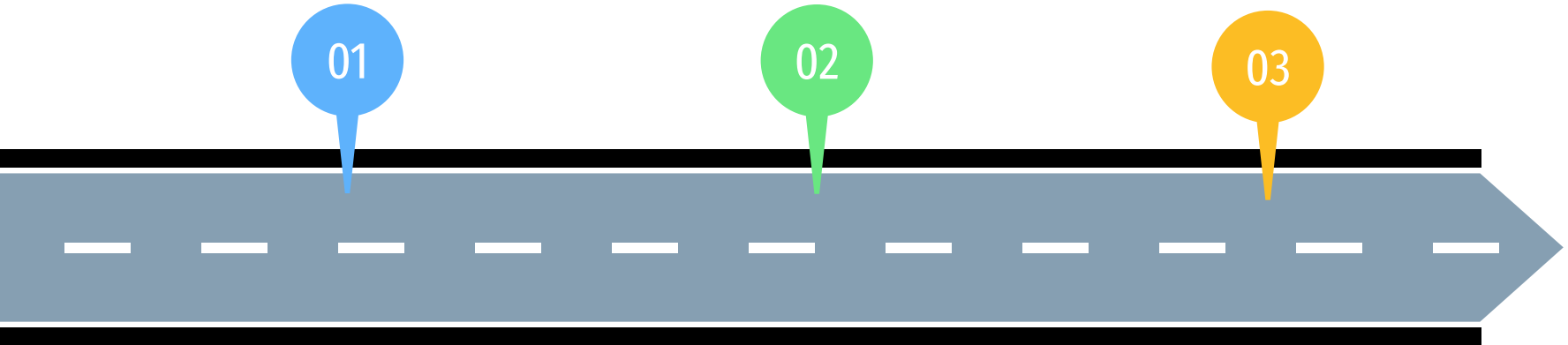
Results show that the
915 bus currently poses
a slight bottleneck

02

Final Thought

Rerouting the 915 Bus
as a probable solution

03





~ Fin ~



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