

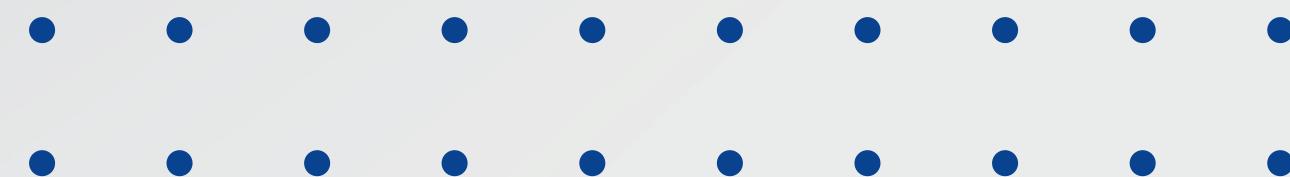
Data Interpretation

How Distance From School Affects the Average Grades

Presented by: **Group 3**

Key Variables

Analyzing the stressful nature of commuting for students, this study investigates several important factors. The study concentrated on quantifiable terms for the proper inferences based on data, resulting in a clearer understanding of what influences what.



Distance (km)

- The straight-line distance from home to school for a student.

Average Grade (%)

- Compounding other sorts of assessment, overall academic performance is calculated in percentage points.

Attendance Rate (%)

- This is the number of days a student has attended, expressed as a fraction of total school days.

Mode of Transport

- The predominant means of transportation for students to get to and from school



Breakdown of the Academic Group

Our analysis started with a baseline reading of the populations of students under consideration. These average figures will take on a deeper meaning when we go further into the implications of how the individual commuting experience can mold educational trajectory.

- Average Commute Distance
- Average distance traveled by the students to reach school.
- Average Academic Grade
- The average overall grade attained by the students.
- Average Attendance Rate



Data Range

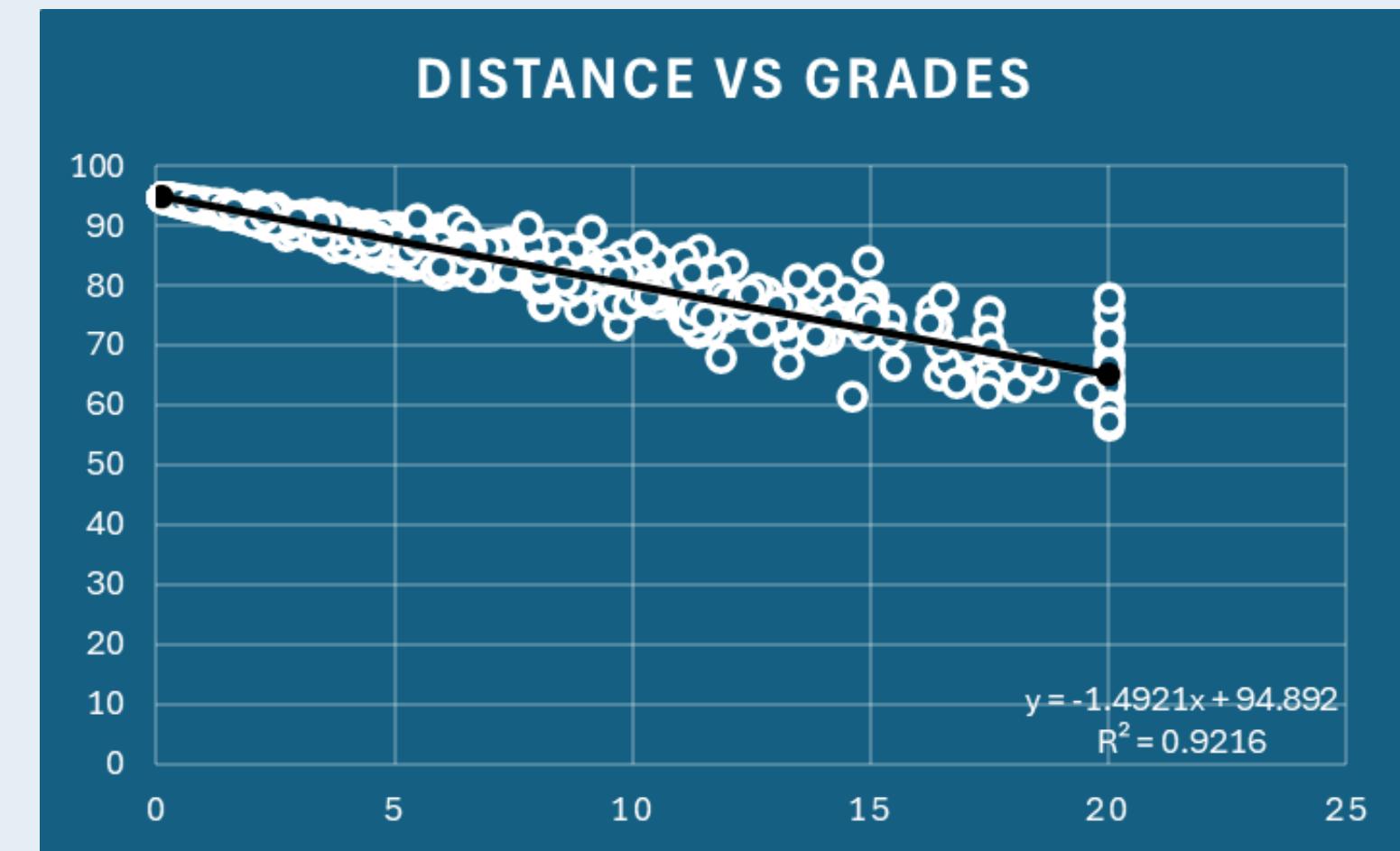
To gain insight into the varied situations faced by students, many will step away from the average and really see the full spectrum of the data. The considerable ranges we observe in commute distance, academic performance, and attendance showcase the myriad external variables posed as opportunities or hindrances by the educational system we have in place.

- Distance
- 0.1 km - 20 km Highlighting the vast differences in how far students travel daily.
- Grades 56.7%-94.9% Indicating a broad range in academic achievement.
- Attendance
- 65.4% -99.9%
- Revealing significant variations in student presence at school.
- These technical ranges are nothing more than statistics, numbers representing stories that can greatly impact a student's journey through education and life. Understanding the boundaries is crucial to designing effective interventions.



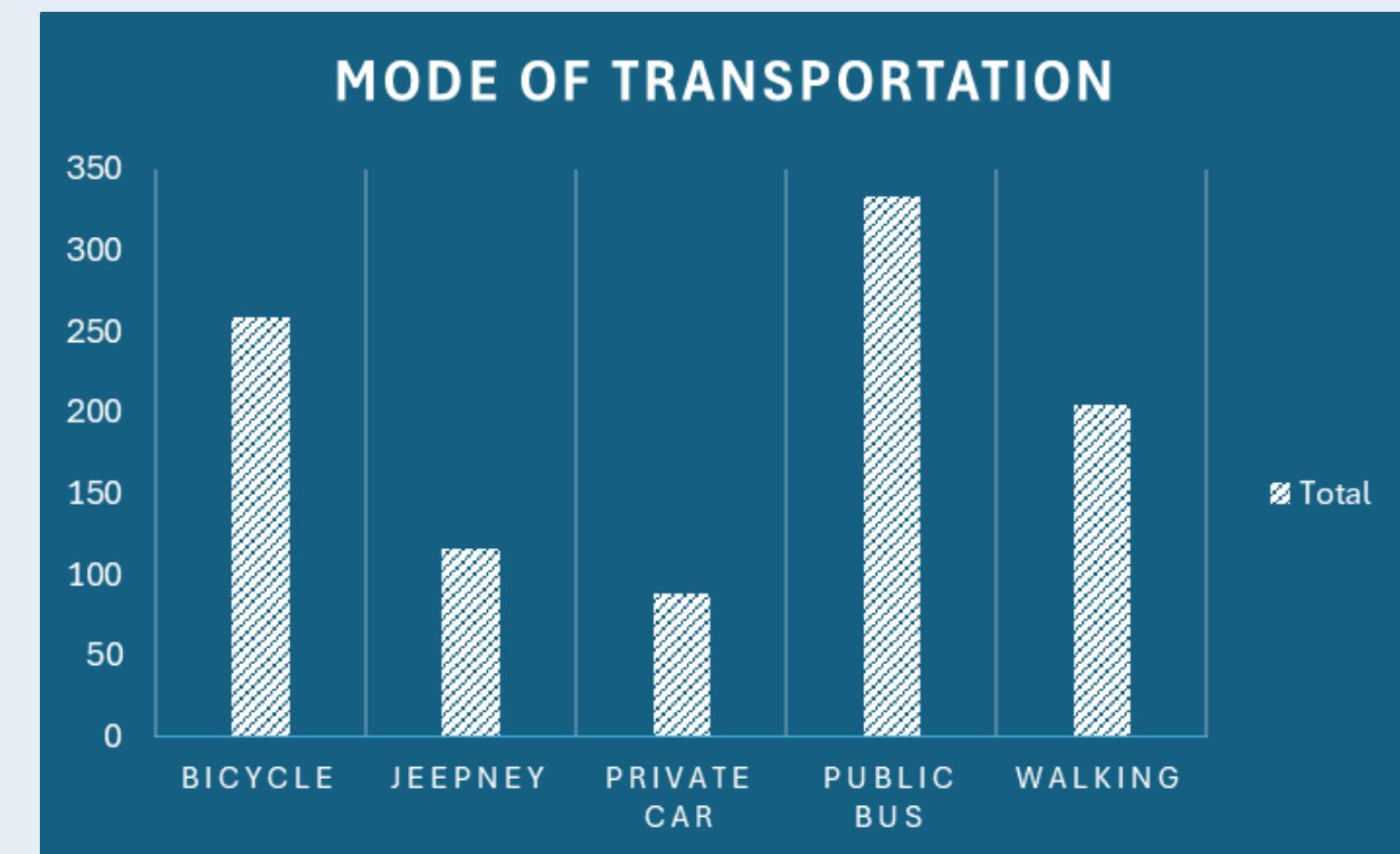
How Distance Impacts Grades

The one trend found in our findings is that students not living too far away from the school tend to show better academic performance and better attendance. This puts forth the idea that the burden of a long commute might stand in direct opposition to a student's academic success.



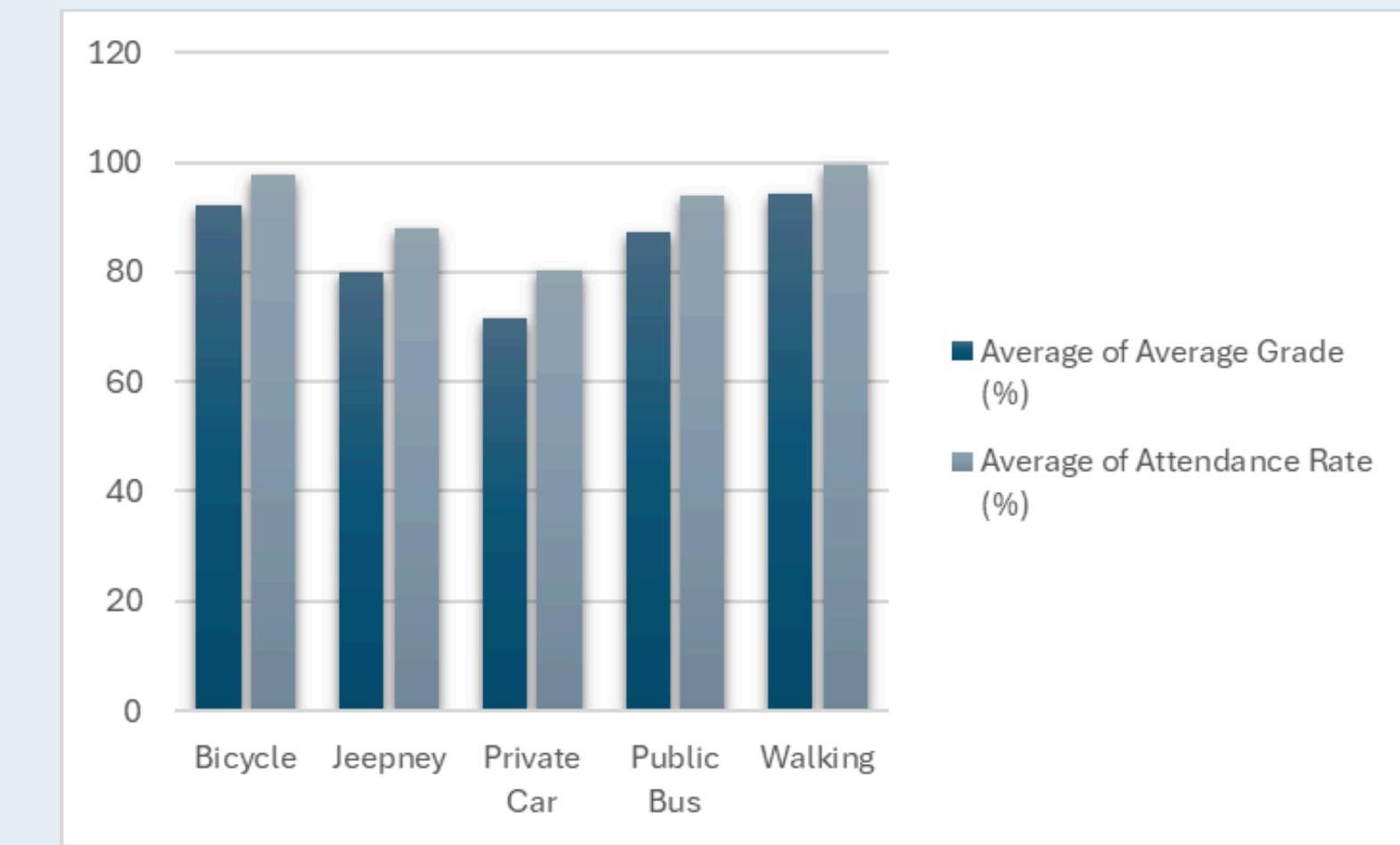
How Travel Impacts Grades

In fact, distance alone isn't the only aspect affecting students' academic performance; it also fairly much matters how these students actually get to school. Our research shows that you could clearly prove a link between mode of transportation and average student grade, suggesting the benefits of active and independent commutes.



Transport and Attendance Rates

Consistent attendance is one of the keys to progressing academically and how several modes of transport relate to being present and punctual, according to our data. These patterns reinforce the benefits of independent, active transportation.



Key Findings and Trends in Students' Transportation to School

The data analysis examine how students commute to school and how transportation affects grades and attendance rate

- Students who walk or bike tends to have a higher grade and better
- Students who commute by car, jeepney. or bus commonly have decent or
- attendance because they are just near to the school
- lower grades and attendance perhaps due to traffic jams Students who live near the school tend to have higher grades and better attendance, possibly because their environment is generally more convenient. In contrast, students who live farther away often have lower grades and attendance, likely due to the challenges of attending a school that is farther from home.



THANK YOU