



High School Start Time Working Group Update



**Newton Public Schools School Committee
March 14, 2016**

Review of work so far:

ACTIVITIES	DATE
Initial Review of the Issue	2014-15
Working Group Scope Defined	Sept/October 2015
Communication/Website/Email List/Outreach	November 2015 -
Stakeholder interviews/Data Gathering	October 2015 -
Student Survey Development & Analysis	November 2015 -
Faculty/Staff Survey Development & Analysis	December 2015 -
Parent Survey Development & Analysis	January 2016 -



Today's Update

- ▶ Faculty/staff initial feedback
- ▶ Parent/guardian survey/feedback - Next
- ▶ Quantifying sleep opportunities
 - ▶ Evaluating the impact of a change
- ▶ Assessing impact on stakeholders
- ▶ Initial transportation analysis
- ▶ Update on implementation plan

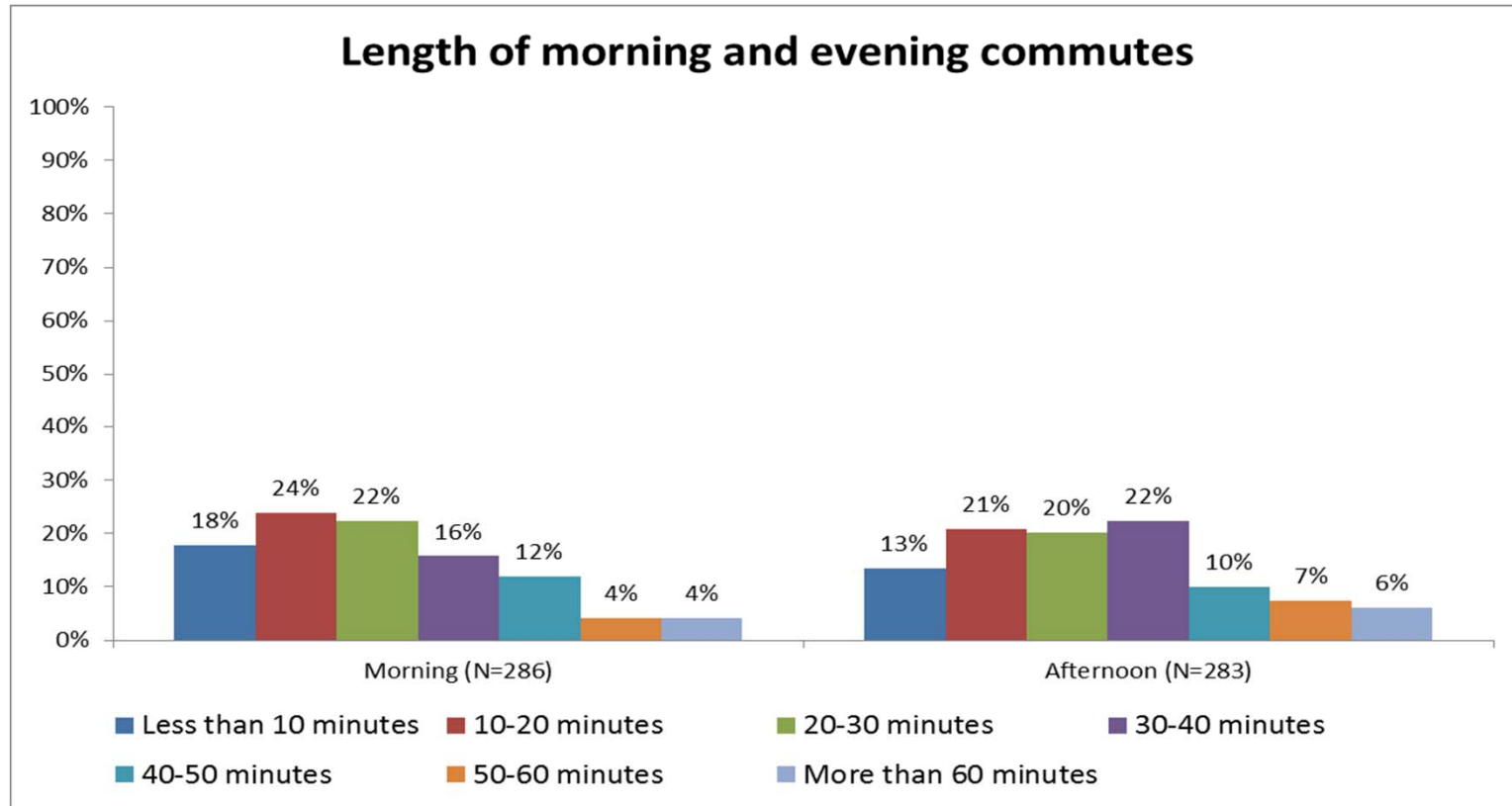


Faculty/Staff Survey Response Rates

- ▶ Includes faculty/staff at North, South, and alternative education programs
- ▶ Overall response rate of 41.2%
- ▶ Teacher response rate of 46%
- ▶ Over 89% of participants are 1.0 FTEs

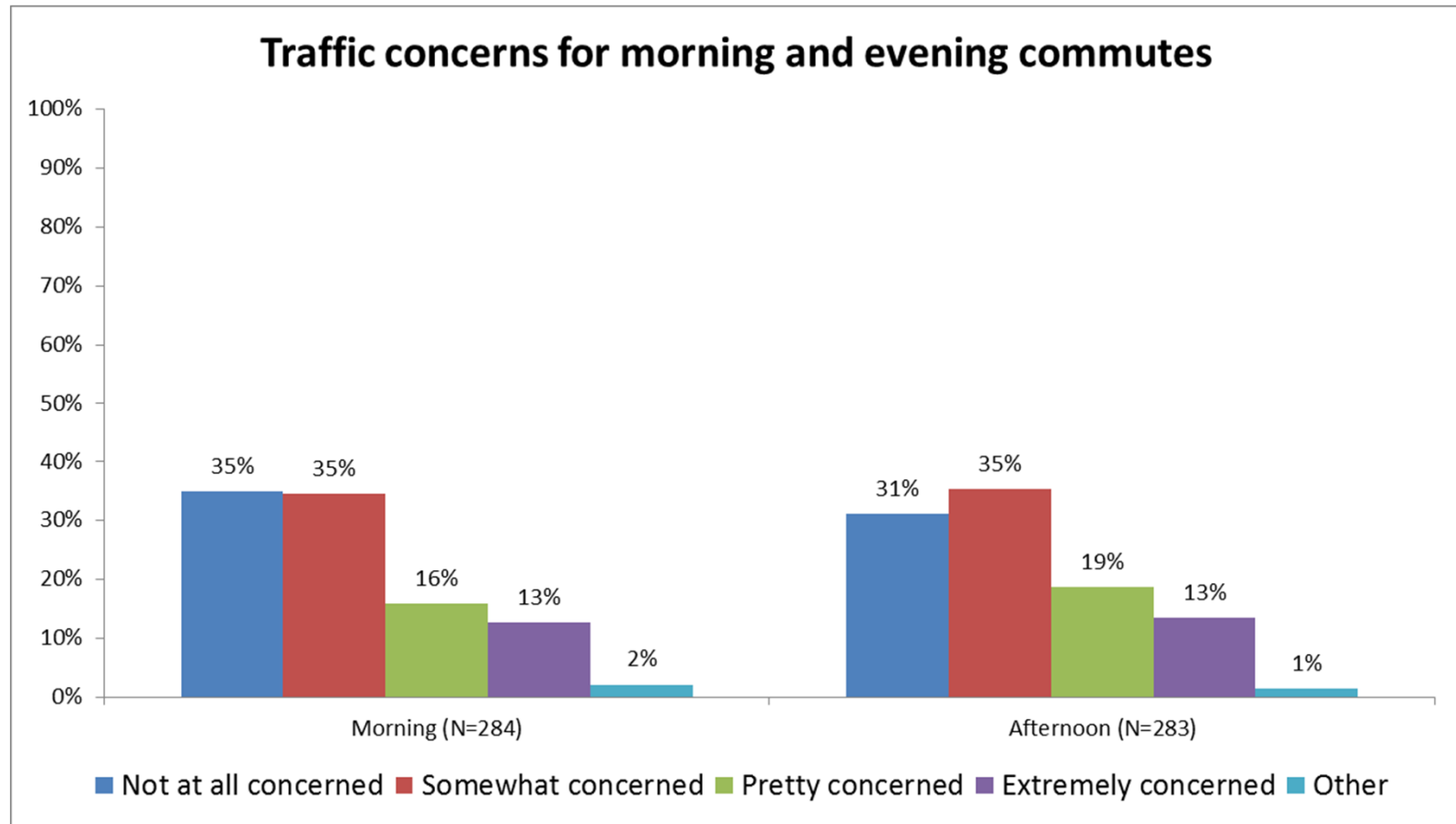


Feedback on: Current Commutes



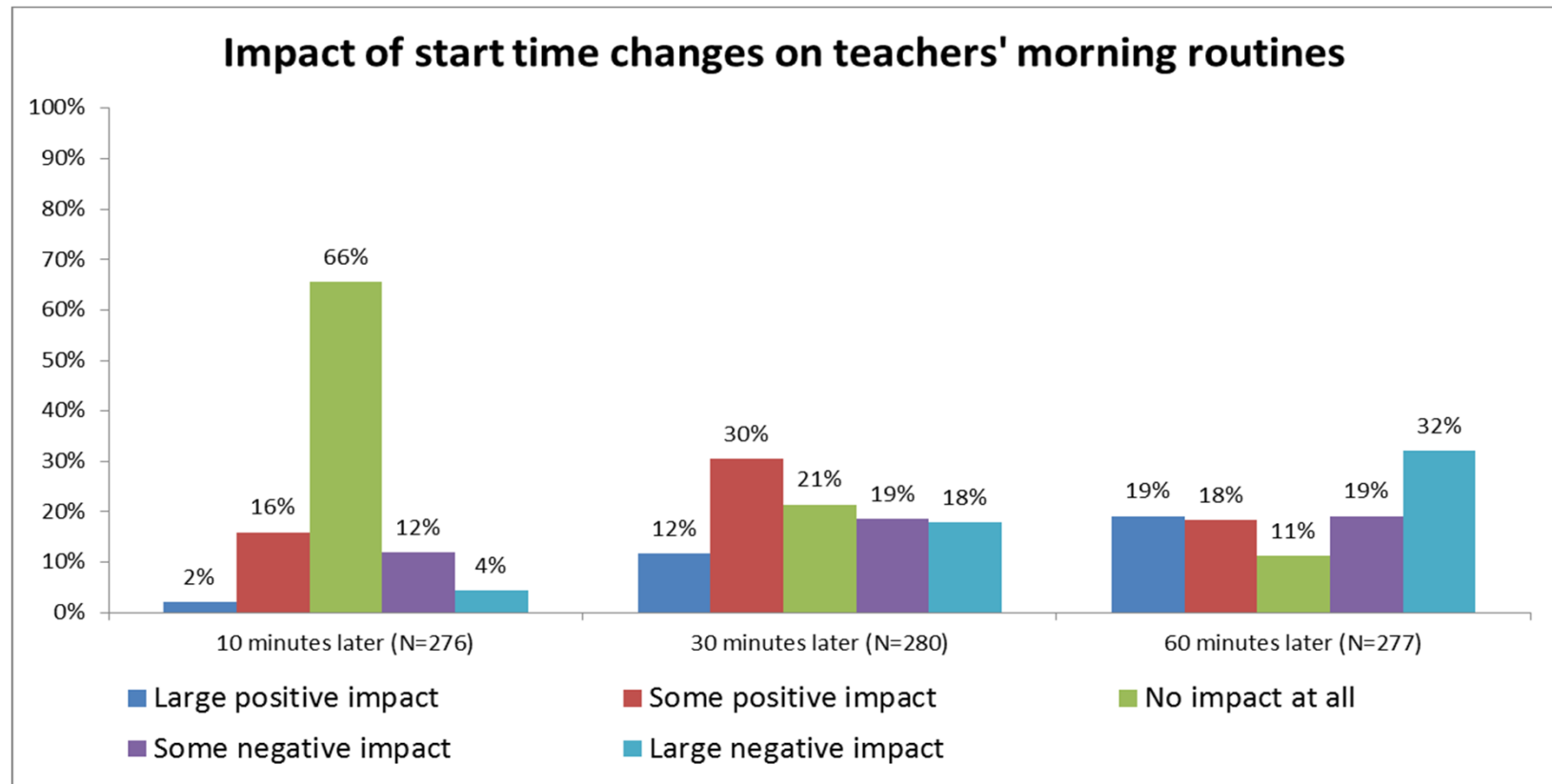
- ▶ More than half of the participants (59%) leave their homes between 6:30 – 7:15 am
- ▶ Current commutes tend to get longer in the afternoon

Feedback on: Traffic concerns for current commutes



- ▶ Current traffic concerns are relatively consistent in the morning and afternoon

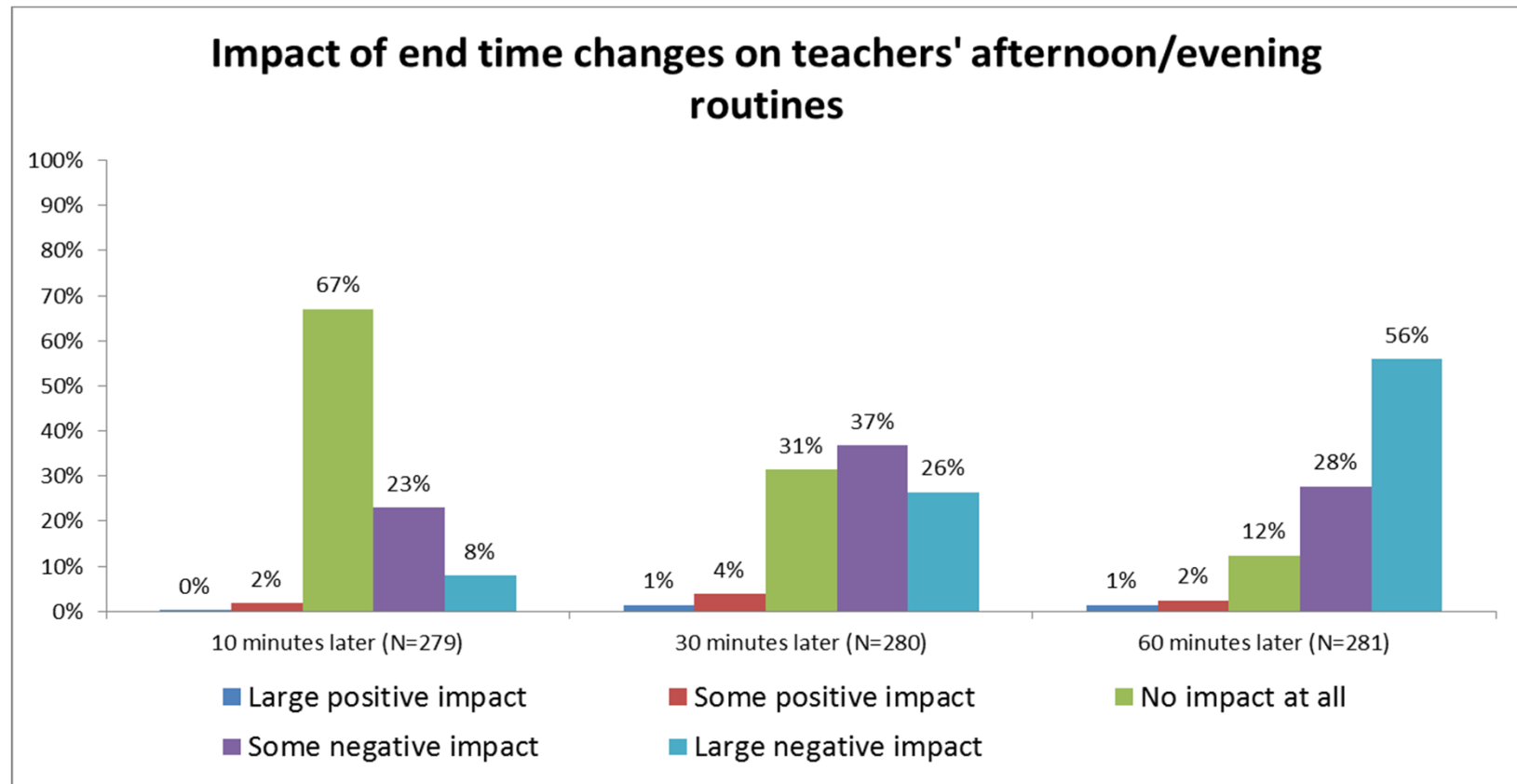
Feedback on: Impact of potential changes on morning routines



- ▶ 10 minutes later has a negative impact on only 16% of participants
- ▶ 30 minutes and 60 minutes later have both negative and positive impact on morning routines



Feedback on: Impact of potential changes on afternoon/evening routines



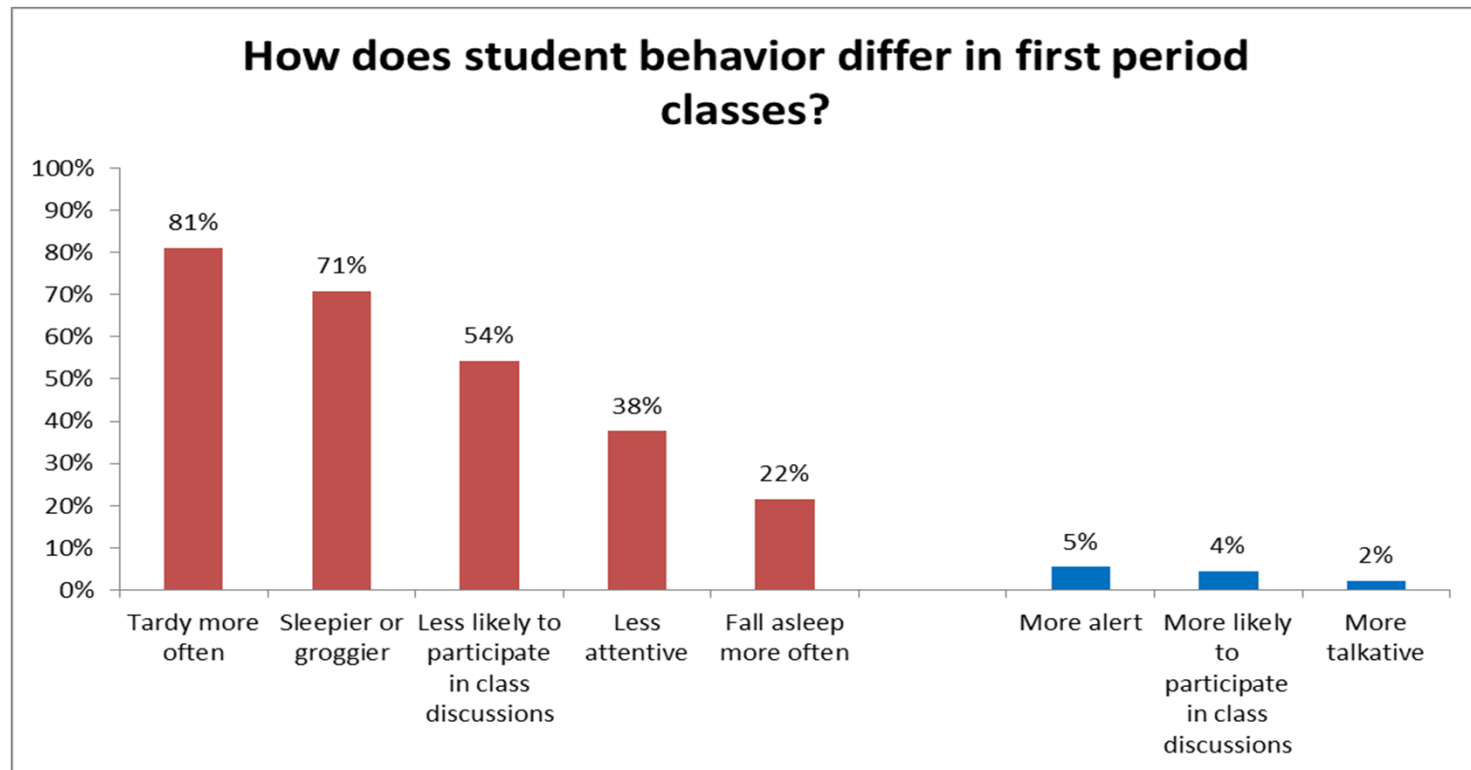
- ▶ Ending 60 minutes later has negative impacts for most participants

Feedback on: Impact on morning and afternoon/evening commitments

- ▶ Participants were also asked about impact on morning and afternoon/evening commitments
 - ▶ Stipend and non-stipend work for NPS
 - ▶ Paid employment outside NPS
 - ▶ Child care
 - ▶ Elder care
 - ▶ Coursework
 - ▶ Exercise/gym
- ▶ Similar patterns for impact as seen in the previous slides



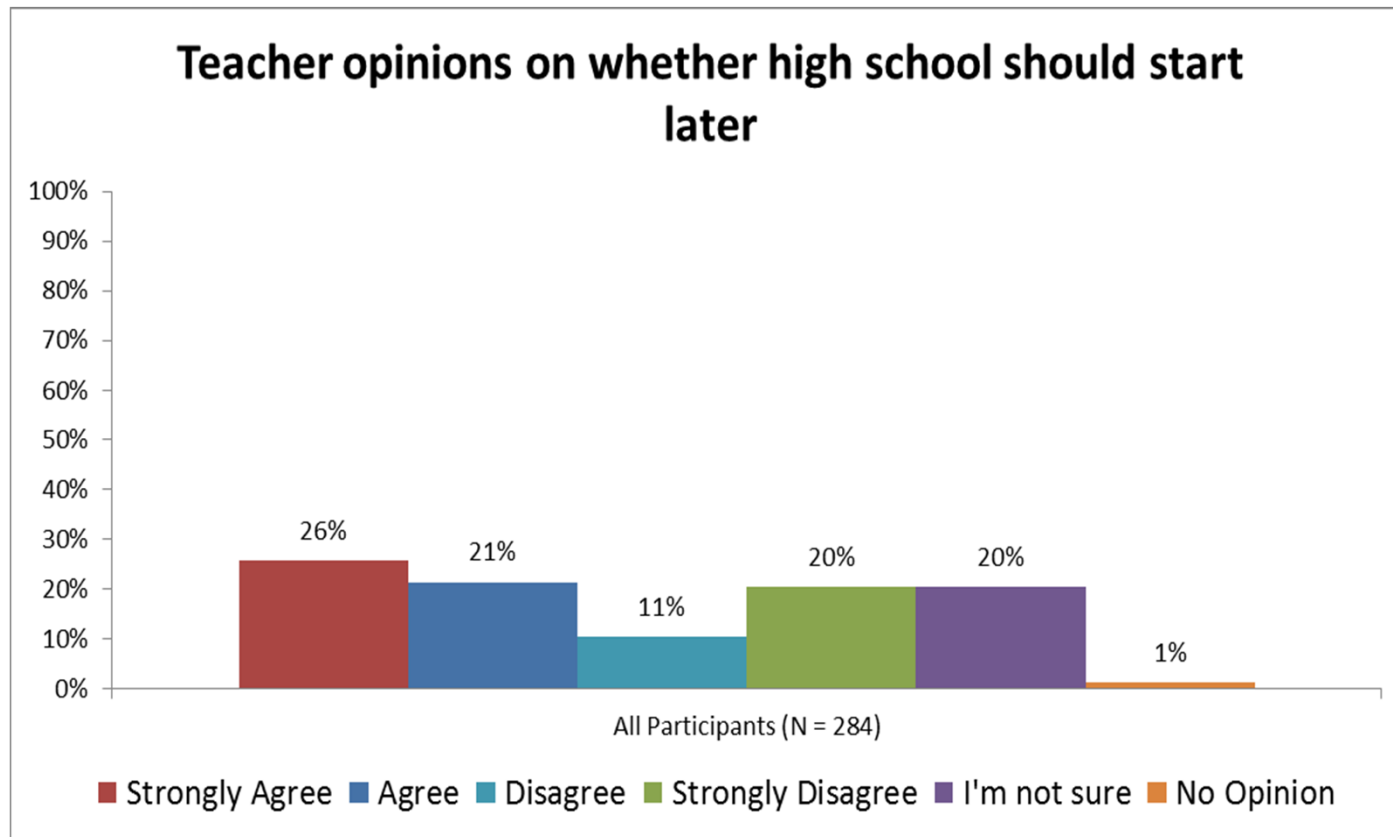
Feedback on: Student behavior



- ▶ 80% of participants said student behavior differed in first period
- ▶ The most frequently selected behaviors that differed in first period are more “negative” behaviors



Feedback on: Opinions



- ▶ Teachers are more split on this question than students
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Surveys – Overall Status

- ▶ Continued use of student data
- ▶ Additional analysis of faculty/staff survey results
- ▶ Parent/guardian survey in development
 - ▶ Level of concern about impact of any start time change
 - ▶ Later or potentially earlier (for younger students)
 - ▶ Work schedules or commute
 - ▶ Child care
 - ▶ Choices about student transportation
 - ▶ Opinions about children's sleep patterns

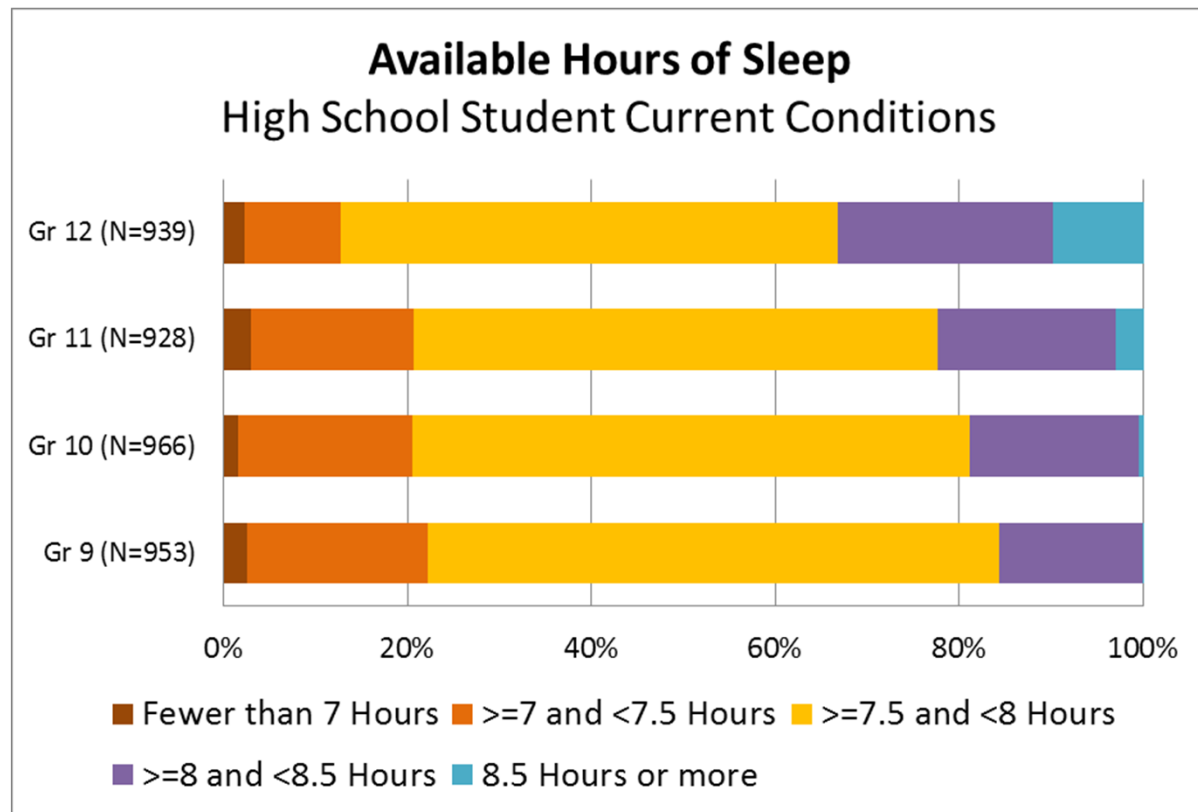


Quantifying Sleep Opportunities

- ▶ American Academy of Pediatrics (AAP) recommends that adolescents have the opportunity to sleep for 8.5 – 9.5 hours, starting at 11 PM
- ▶ Student data allows us to understand the impact of any start time change on sleep opportunities
 - ▶ Same assumptions used for all grades
 - ▶ Based on student survey responses
 - ▶ Used estimates from non-respondents
 - ▶ Adjusted for AM schedule variations

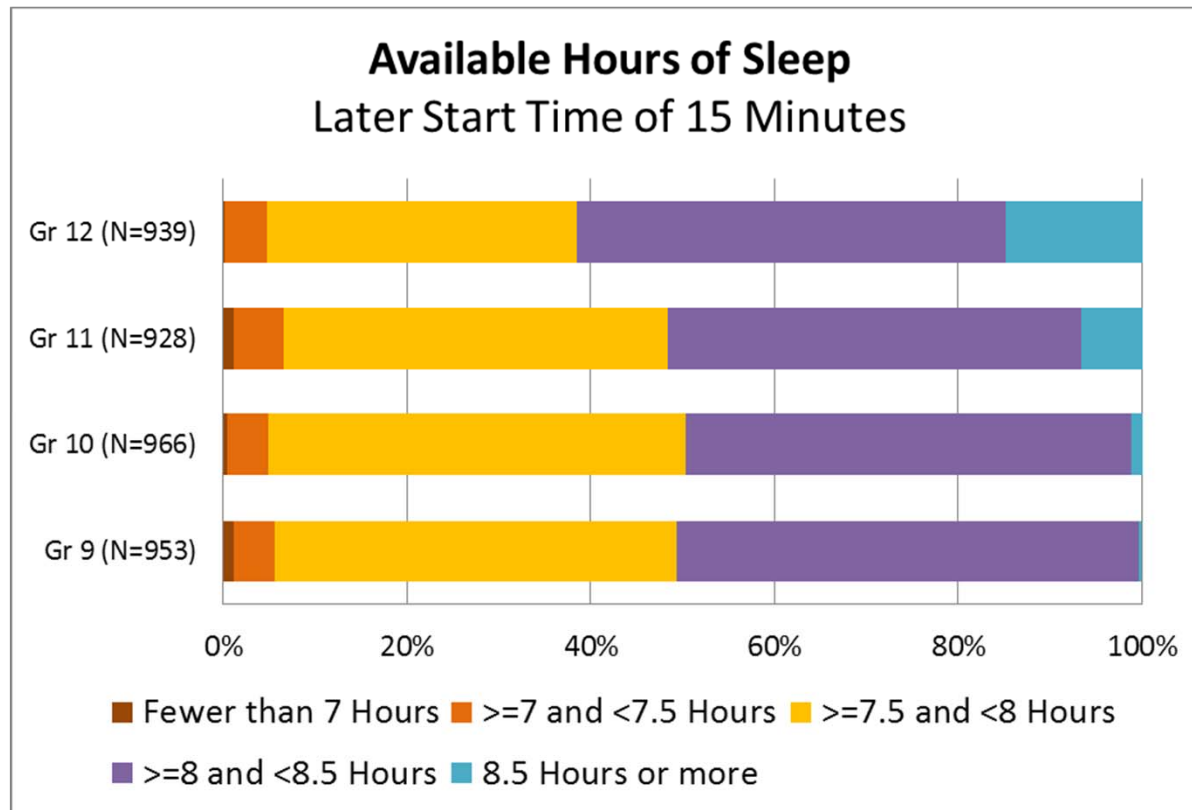


Current Sleep Opportunities



- ▶ About 60% of students have the opportunity for 7.5 – 8.0 hrs
- ▶ About 20% of students have the opportunity for more or less

Improved Sleep Opportunities (Example)



- ▶ Allows more than 50% of students the opportunity to get 8.0–8.5 hours
- ▶ Fewer than 10% of students have the opportunity for sleep amounts in the lowest category
- ▶ Slightly more students with the opportunity to achieve AAP levels of sleep



Assessing Impacts of Change (Example)

- ▶ The goal is to understand the benefits, impacts and costs in a holistic way

Students with sleep opportunity >8 hours is increased by 31%
Other Impacts on Students (in order of % magnitude)
Students with extra curriculars outside of school on 3 or more days/week (49%)
Students involved in school-based extra curricular on 3 or more days/week (42%)
Students who are athletes (35%)
Students with afterschool jobs (19%)
Teacher Impact
A negative impact for teachers on morning routines (16%)
A negative impact for teachers on child care (est. 16%)
Other Activities (est. 16%)
Family Impact
Community Impact
Financial Impact

Initial Transportation Analysis

- ▶ An early look taken at options/opportunities
- ▶ Parameters include:
 - ▶ 2-3 routes per bus each AM and PM
 - ▶ 8 late buses, 10 runs for secondary schools
 - ▶ Contractual limits on driver hours/day
- ▶ Fleet is currently 29 buses (+6 for projects)
 - ▶ New contract in FY18
- ▶ 20% of high school students ride buses



Update on Implementation Plans

- ▶ No schedule changes before 2017-18
- ▶ Effective processes in other communities have taken a minimum of 2 years
 - ▶ Newton's size makes this more complex
 - ▶ 9th largest district statewide
- ▶ Significant lead time is needed to manage change due to impact on stakeholders and potential costs



Broad Promotion of Student Well Being

- ▶ Later start time exploration
- ▶ Initiatives on social and emotional learning
- ▶ Active and increased supports for students in schools
- ▶ Managing homework levels
- ▶ Home-school connections

“...delaying school start times alone is less likely to have a significant effect without concomitant attention to other contributing and potentially remediable factors, such as excessive demands on students’ time because of homework, extracurricular activities, after-school employment, social networking, and electronic media use.

<http://pediatrics.aappublications.org/content/early/2014/08/19/peds.2014-1697>



Next Steps

ACTIVITIES	DATE
Parent Survey Development & Analysis	January 2016 -
Continued Analysis of Feedback	Ongoing
Continued Assessment of Stakeholder Impact	Ongoing
Scenario Development	April - May 2016
Public Event	TBD
Assessment of Impact of Scenarios	May – June 2016
Final Report	June 2016

