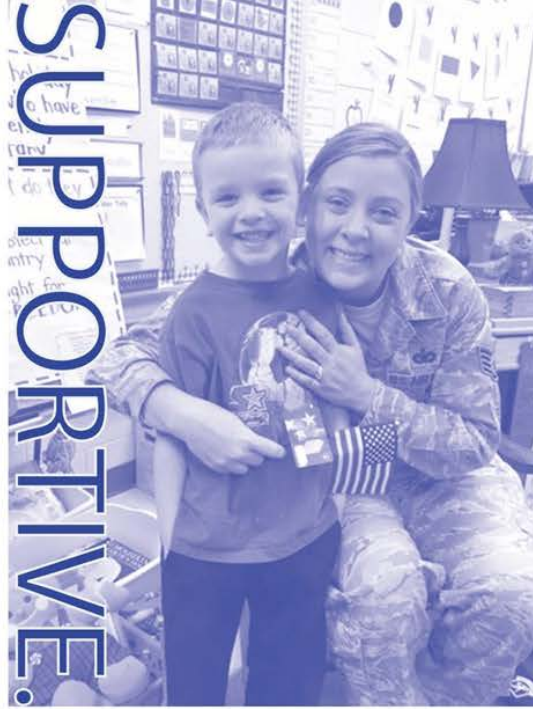
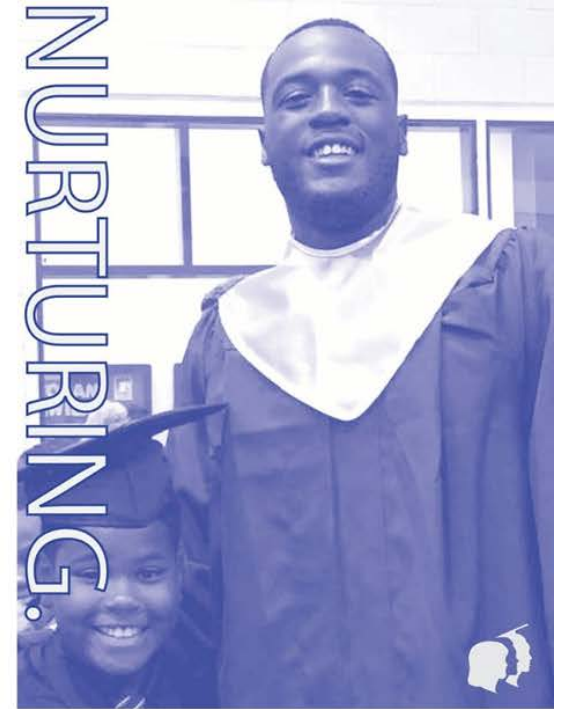




SAFE.



SUPPORTIVE.



NURTURING.

School Operating Times

Tim Bullis, Director of Community Relations

Nita Mensia-Joseph, Chief Operations Officer

School Board Meeting - February 7, 2017



Chesterfield County Public Schools



Moral Imperative to Act

- The potential changing of school operating times has been a continual discussion in our community.
- Experts' recommendations don't align with our schedules.
 - American Academy of Pediatrics, American Academy of Child and Adolescent Psychiatry and Centers for Disease Control all recommend later operating times for adolescents.
- When you are diagnosed with a medical issue, you look for a way to treat it.





Medical Research

- Pubertal changes linked to alterations in circadian rhythm make it difficult for adolescents to fall asleep earlier.
 - They don't feel the need to sleep until around 11 p.m.
 - Melatonin peaks around 7 a.m. for adolescents and 4 a.m. for adults, so waking a teenager around 7 a.m. is like waking an adult around 4 a.m.
- Current starting times schedule inconsistent with elementary school-aged children's circadian rhythm as well.





Sleep Deprivation Consequences

- School-related
 - Lower academic achievement
 - Attendance drops, higher dropout rates
- Health-related
 - Increase in accidents, according to multiple studies
 - Less physical activity, increased risk of obesity/diabetes
 - Increased risk of depression, anxiety and suicide





Current Starting Times

7:20 a.m. -- High schools and middle schools (Group 1)

8:25 a.m. -- Middle schools (Group 2)

Elementary schools (Group 1)

9:15 a.m. -- Elementary schools (Group 2)





Current Bus Schedules

Current high school bus pick-up times

- 5:57 a.m.: Matoaca HS
- 6 a.m.: Cosby and Midlothian HS
- 6:15 a.m.: Manchester HS
- 6:20 a.m.: Thomas Dale HS
- 6:25 a.m.: Bird, Clover Hill and James River HS
- 6:30 a.m.: Monacan HS
- 6:35 a.m.: Meadowbrook HS





Previously Presented Options

	High	Middle	Elementary	Buses	Year 1 Cost	Annual Expense
Option 1	8 a.m.	8:45 a.m.	8:45 a.m. 9:30 a.m.	107	\$14.3M	\$5.2M
Option 2	9:30 a.m.	8:45 a.m.	8 a.m. 8:45 a.m.	134	\$17.9M	\$6.5M
Option 3	8:45 a.m.	9:30 a.m.	8 a.m. 8:45 a.m.	144	\$19.3M	\$7.0M





Community Survey

- Nearly 14,000 responses in a one-month period
- 7 out of every 10 respondents wanted starting times changed
- Greatest number of respondents said put elementary starting times first
- Among the most frequently left comment: reduce costs





Re-evaluation Phase

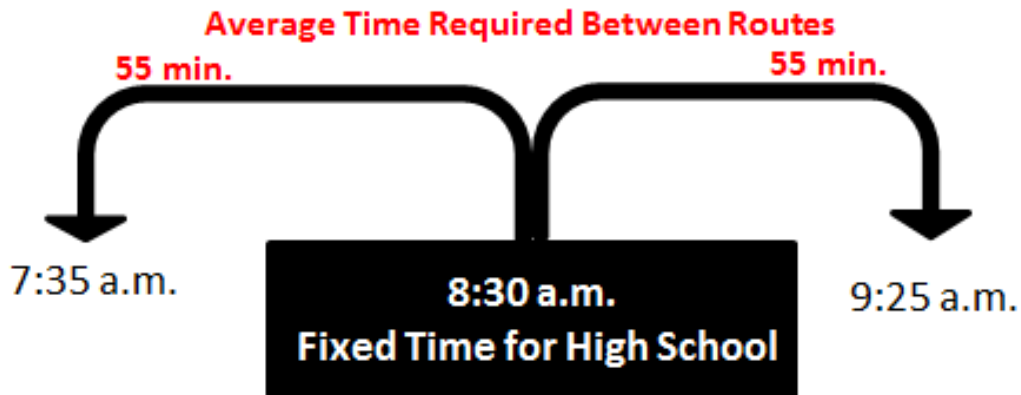
- Revisit the overall plan
- Change the approach
 - Establish operating times based on *routing constraints*
 - Widen the operating time window
 - Develop district wide versus area-wide plan
- Include additional goals from transportation
 - Avoid bus pick-up times before 7 a.m. for elementary students
 - Identify and/or resolve existing route conflicts





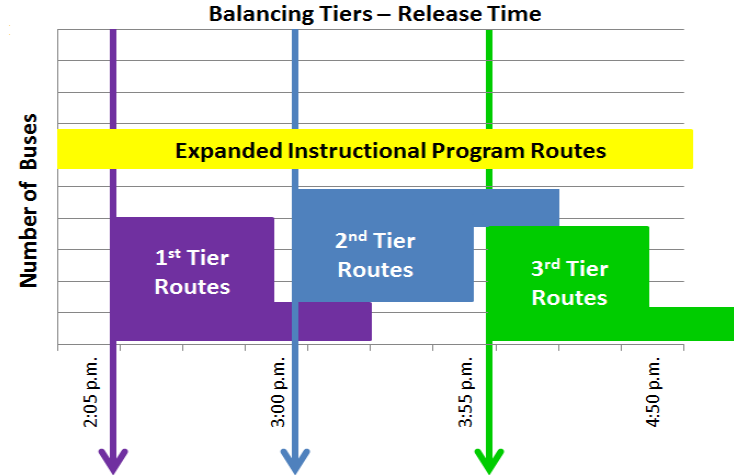
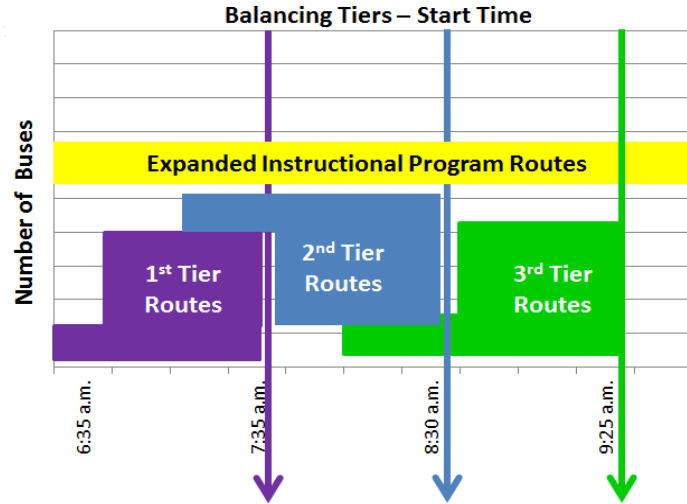
Routing Constraints

Average Operating Times with Lowest Cost Impact





Determining Bus Requirements



1. Compression of operating times increases the number of buses required.
2. Longer routes must transport students during “out-of-tier” times.
3. *Buses “out-of-pocket” due to long routes cannot have an adjacent tier.*





New Option *

	High	Middle	Elementary	Buses	Year 1 Cost	Annual Expense
Option 1	8 a.m.	8:45 a.m.	8:45 a.m. 9:30 a.m.	107	\$14.3	\$5.2
Option 2	9:30 a.m.	8:45 a.m.	8 a.m. 8:45 a.m.	134	\$17.9	\$6.5
Option 3	8:45 a.m.	9:30 a.m.	8 a.m. 8:45 a.m.	144	\$19.3	\$7.0
Option 4	8:30 a.m.	7:35 a.m.	7:45 a.m. 8:30 a.m. 9:25 a.m.	~30	~\$4.1M	~\$1.4M (plus \$500,000 for salary adjustment)





* Potential Variables

**Data analysis utilizes current enrollment and attendance zones.
The factors listed may impact future bus requirements:**

- + Rezoning
- Increased enrollment
- New housing developments
- + Special Education changes
- Other expanded instructional programs
- New schools





Option 4: School Operating Times

First-tier schools: 7:35 a.m.-2:05 p.m.

- All middle schools - except Tomahawk MS

First-tier modified schools: 7:45 a.m.-2:15 p.m.

- Bensley ES
- Bon Air ES
- Crenshaw ES
- Clover Hill ES
- Jacobs Road ES
- Wells ES





Option 4: School Operating Times

Second-tier schools: 8:30 a.m.- 3 p.m.

- All high schools
 - 5 elementary schools, 1 middle school
-
- Alberta Smith ES
 - Chalkley ES
 - Grange Hall ES
 - Matoaca ES
 - Salem ES
 - Tomahawk Creek MS





Option 4: School Operating Times

Third-tier schools: 9:25 a.m.-3:55 p.m.

A.M. Davis ES
Bellwood ES
Beulah ES
Crestwood ES
Curtis ES
Ecoff ES
Enon ES
Ettrick ES
Evergreen ES

Falling Creek ES
Gates ES
Gordon ES
Greenfield ES
Harrowgate ES
Hening ES
Hopkins ES
M.Christian ES
Providence ES

Reams ES
Robious ES
Scott ES
Spring Run ES
Swift Creek ES
Watkins ES
Weaver ES
Winterpock ES
Woolridge ES





Option 4: Strategic Activities

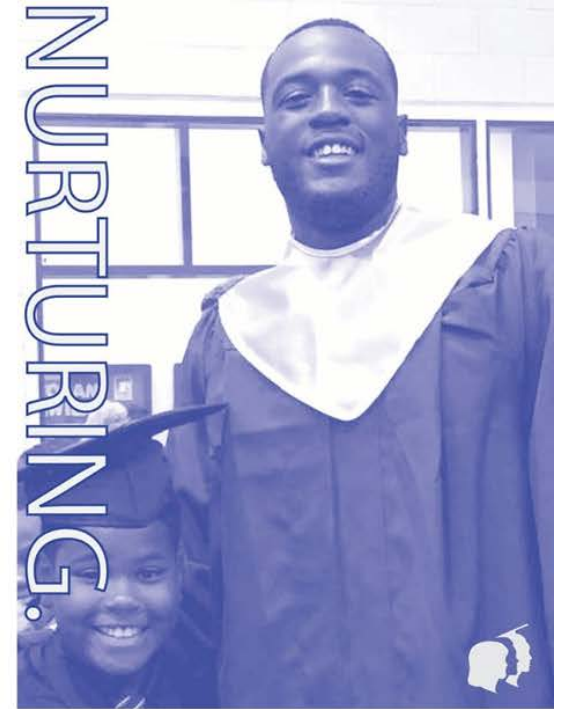
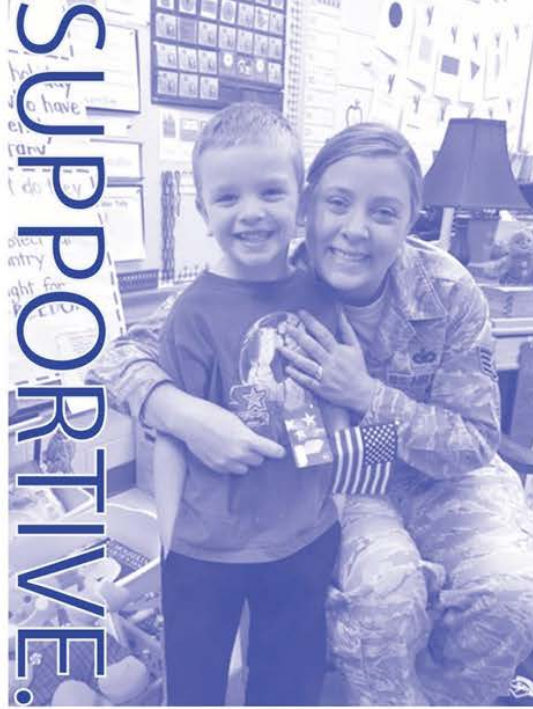
- Small scale “stress pilot” conducted December, 2016
- Comprehensive pilot completed Jan. 30, 2017
 - Conducted test run of re-packaged routes
 - 72% successful with minor adjustments needed for ~19% of packages
 - 14% need complete re-work but still appear achievable
 - 14% not tested due to vacancies or absenteeism
 - Documented lessons learned and plan of action
- Repeat pilot at least 2 additional times before full implementation
- Refine requirements





Questions and Answers





School Operating Times

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Chesterfield County Public Schools