ORANGE COUNTY BOARD OF EDUCATION

AGENDA ITEM ABSTRACT

Meeting Date: <u>April 22</u>	., 2013
	AGENDA ITEM No. <u>13-04-(2)-10</u> ACTION ITEM (Y/N) Y
SUBJECT:Student Assignment Study Discussion/App INFO. CONTACT Michael Gilbert, Public Information Of	proval
ATTACHMENTS: 1. ITRE Proposed Tasks and Schedule Letter 2. Current SAPFO Worksheet	

3. November 22, 2010 ITRE Presentation

PURPOSE: To provide the Board of Education the opportunity to discuss the possibility of engaging in a student assignment study.

BACKGROUND: The most recent student assignment study was conducted by North Carolina State University's Institute for Transportation Research and Education (ITRE) during the spring/summer of 2010 and presented to the Board at the November 22, 2010 Board of Education meeting.

The Operations Research and Education Laboratory (OR/Ed. Lab), a division of ITRE, works with K-12 school systems on issues pertaining to student assignment and long range school planning. OR/Ed.'s *Integrated Planning for School and Community (IPSAC)* incorporates enrollment forecasting, land use studies, residential growth forecasts, optimal school locations, optimally balanced attendance areas and "what-if" attendance scenarios to provide school districts with school planning solutions.

Using proven mathematical techniques and state-of-the-art decision science applications, OR/Ed. assists school districts dealing with difficult school redistricting plans and school planning challenges that are often conducted in a poorly articulated environment and with conflicting objectives. By approaching projects quantitatively as well as qualitatively, OR/Ed. can provide school planning solutions that are driven by data and supported by policies.

Staff has been in contact with ITRE for the purpose of conducting a possible student assignment study for OCS. This organization conducts student assignment studies throughout school districts in both North and South Carolina. ITRE has proposed a list of tasks and a schedule for the Board to review. We have attached a copy of their initial letter and schedule for you to review. The staff at ITRE will be modifying the scope of the study to encompass balancing enrollment at each of the district's schools, with the exception of our themed elementary and alternative schools.

The NCDPI-certified student membership number for the 2012-13 school was 7,420. The most recent NCDPI student membership projection for the 2013-14 school year is 7,501, which is an increase of 81students. Currently, the district has three schools that exceed the Schools Adequate Public Facilities Ordinance (SAPFO); Cameron Park (103), New Hope (43) and Cedar Ridge (50).

FINANCIAL IMPACT: The cost of the ITRE assessment will be \$20,000.

RECOMMENDATION: The Superintendent recommends that the Board of Education discuss the proposal from ITRE and approve the assignment study.



April 1, 2013

Michael Gilbert Public Information Officer Orange County Schools 200 East King Street Hillsborough, NC 27278

Dear Mr. Gilbert,

This letter outlines the project tasks and schedule for the Orange County Schools Redistricting Study. The primary objective of the study is to examine options for the overcrowding condition at the Cameron Park and New Hope Elementary Schools.

June 2013

- Collect Orange County GIS data and Orange County Schools student data
- Address-matching 2012-13 students
- · Populate Planning Segments data, adjust Planning Segment geometry if necessary

July 2013

- Land use study update from the 2011 study. This will involve phone interviews to collect and updating existing, approved and planned subdivisions
- · GIS parcel analysis of subdivisions
- NC A&T State University NC Central University NC State University UNC Chapel Hill

Duke University

A joint activity

of North Carolina Universities

August 2013

- Present findings to the Orange County Schools including land use study updates, tenyear enrollment forecast, 2012-13 Out-of-Capacity worksheet, and preliminary recommendations addressing overcrowding
- Assist the Orange County Schools articulating directions on redistricting goals and constraints

September/October, 2013

- Update student population data and forecast using the 2013-14 student enrollment data
- · Develop redistricting tools and solutions to address overcrowding

The cost of the study for Orange County Schools is \$20,000. If the Orange County Schools accepts this proposal, OREd will forward you an agreement to sign. If you have any questions about this proposal, please contact me at (919) 515-7931.

Sincerely,

Jeffney C. Tsa:

Jeff Tsai Program Director OR/Ed. Lab, ITRE-NCSU

Centennial Campus Box 8601, Raleigh, NC 27695 8601 919:515:8899 Fax: 919:515:8898 http://itre.ncsu.edu

2010-2013 SAPFO Report Membership Comparisons

School	Year Built	Square Feet	Current SAPFO Capacity	2010 Membership (End of Year)	2011 Membership (End of Year)	2012 Membership (End of Year)	2013 Membership as of 4/15/2013	Current Difference Between SAPFO Capacity and Membership	Levels of Service
CPES	1956	70,812	565	631	632	646	668	103	
CES	1952	52,492	455	238	265	287	319	-136	
ECES	1952	64,316	497	405	443	458	458	-39	
GABES	1974	74,016	544	455	494	477	455	-89	
HES**	1952	51,106	471	410	408	421	443	-28	
NHES	1991	100,164	586	593	577	604	629	43	
PES	2000	85,282	576	483	478	472	449	-127	
					Tota	Elementary S	School Capacity	-273	92.6%
ALS MS	1995	136,000	740	596	606	602	612	-128	
CWS MS	1968	107,620	726	565	579	627	615	-111	1.505.55
GH MS	2006	123,000	600	492	504	481	466	-134	
						Fotal Middle S	School Capacity	-373	81.9%
CRHS	1962	206,900	1,000	951	966	1,024	1,050	50	
OHS*	2002	213,509	1,399	1,159	1,144	1,150	1,196	-203	
						Total High S	School Capacity	-203	93.6%
PA	2006	6,600	40	24	20	33	22	-18	

* New requested capacity based on the August 2012 DPI facility study for OHS.

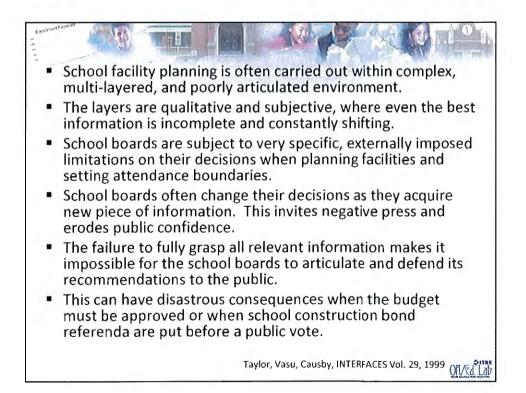
** HES is projected to be above capacity for the 2013-14 school year.

M.O.U. Maximum Capacity:

Elementary Schools	105%
Middle Schools	107%
High Schools	110%

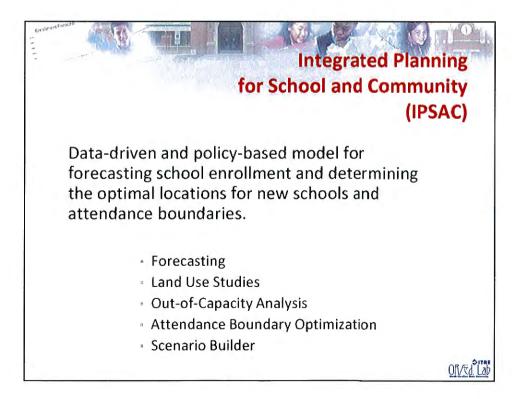
Gilbert 4/15/2013



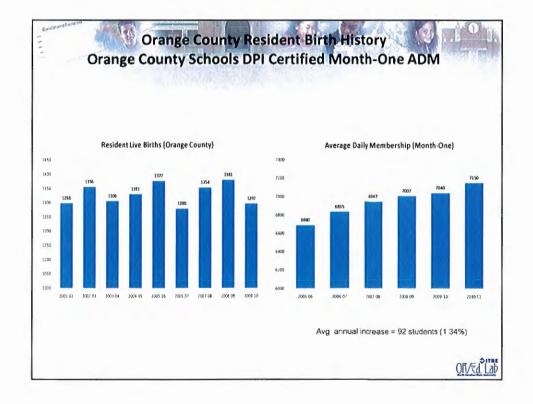


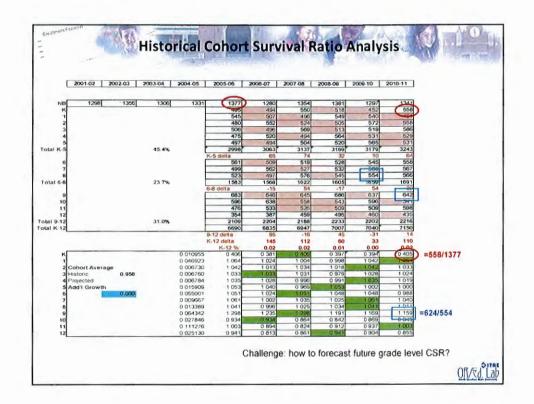
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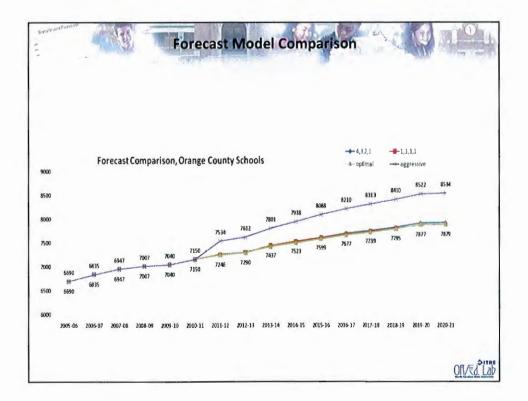
School Planning Layers Brick-mortar layer Growth management layer - Building capacity - New subdivisions - Capacity expandability New student population growth - Suitability for intended use Age of the students - Building useful live - Build-out schedule **Education layer** Impact to building capacity - Grade configurations Attendance layer Classroom size Building utilization (enrollment/capacity) - Is academic performance tied to the school planning, how Feeder pattern (clean or mixed) Location layer Demographic balance (what and how much) - School siting Natural and man-made barriers Available parcel (size and cost) Busing cost and safety _ Access to utilities considerations Cost for construction

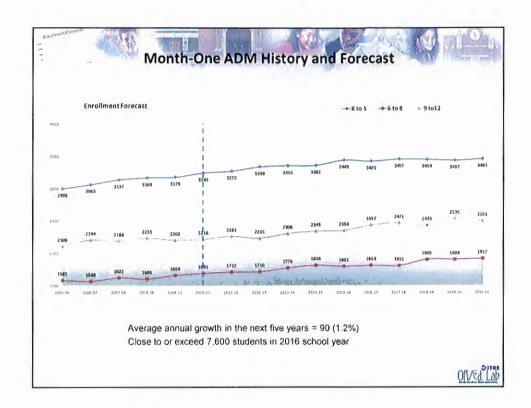


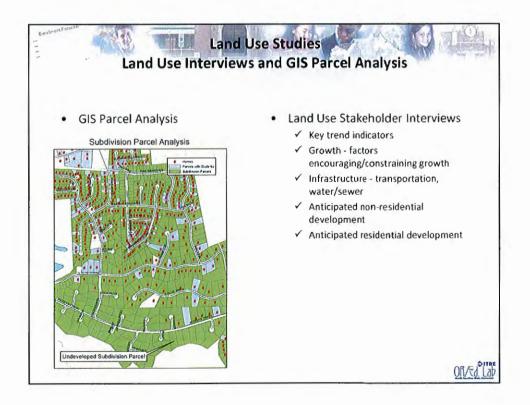
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Iredell-Statesville Schools - 98, 99, 00, 01, 02, 03, 04 Pitt County Schools - 90,91,92,93,94,95,96,97,98,99,00,01,02,0 Jones County Schools - 09** 04,05,06,07,08,09,10 Gaston County Schools - 98, 99, 00, 01, 02, 03, 04 Stokes County Schools - 05,06,08 Granville County Schools - 94, 95, 96, 97, 98, 09, 10 Union County Schools - 99,00,01,02,03,04,05,06,07 Guilford County Schools - 94, 95, 96, 97, 98, 09, 10 Tupelo Public Schools, M.S 07 Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 09,10 Haywood County Schools - 99 Wayne County Schools - 95 Wayne County Schools - 99 04,05,06,07,08,09*,10	Elizabeth City-Pasquotank County School - 07	 Rock Hill School District #3, S.C 02,03,04,05,06,07,08,09,10
Jones County Schools - 09** 04,05,05,07,08,09,10 Gaston County Schools - 98, 99, 00, 01, 02, 03, 04 Stokes County Schools - 05,06,08 Granville County Schools - 94, 95, 96, 97, 98, 09, 10 Union County Schools - 99,00,01,02,03,04,05,06,07 Guilford County Schools - 94, 95, 96, 97, 98, 09, 10 Tupelo Public Schools, M.S 07 Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 99,10 Haywood County Schools - 99 Wayne County Schools - 95	Franklin County Schools - 08	 Rowan County Schools - 09,10
Gaston County Schools - 98, 99, 00, 01, 02, 03, 04 Stokes County Schools - 05,06,08 Granville County Schools - 02, 03, 04, 05, 06, 07, 08, 09, 10 Union County Schools - 99,00,01,02,03,04,05,06,07 Guilford County Schools - 94, 95, 96, 97, 98, 09, 10 Tupelo Public Schools, M.S 07 Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 09,10 Haywood County Schools - 99 Wayne County Schools - 95		 Pitt County Schools - 90,91,92,93,94,95,96,97,98,99,00,01,02,0 04,05,06,07,08,09,10
Granville County Schools - 02, 03, 04, 05, 06, 07, 08, 09, 10 Union County Schools - 99,00,01,02,03,04,05,06,07 Guilford County Schools - 94, 95, 96, 97, 98, 09, 10 Tupelo Public Schools, M.S 07 Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 09,10 Haywood County Schools - 99 Wayne County Schools - 95		 Stokes County Schools - 05,06,08
Guilford County Schools - 94, 95, 96, 97, 98, 09, 10 Tupelo Public Schools, M.S 07 Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 09,10 Haywood County Schools - 99 Wayne County Schools - 95		 Union County Schools - 99,00,01,02,03,04,05,06,07
Harnett County Schools - 98,99,00,01,02,03,06,07,08,09*,10 Vance County Schools - 09,10 Haywood County Schools - 99 Wayne County Schools - 95		Tupelo Public Schools, M.S 07
Haywood County Schools - 99 Wayne County Schools - 95 Wayne County Schools - 95 Wayne County Schools - 97 04 05 05 07 08 00 10		 Vance County Schools - 09,10
Make County Schools 07 04 05 05 07 09 00 10		Wayne County Schools - 95
	Haywood County Schools - 99 Hoke County Schools - 99,98,09*	 Wake County Schools - 97,04,05,06,07,08,09,10



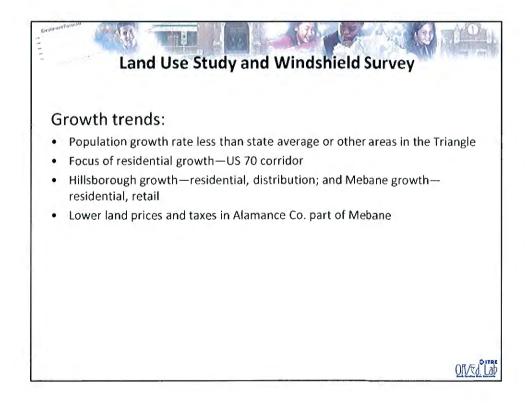


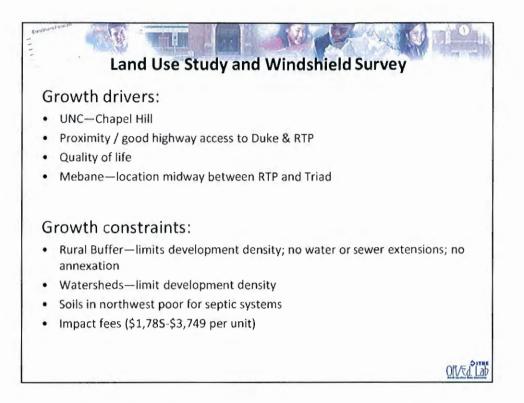


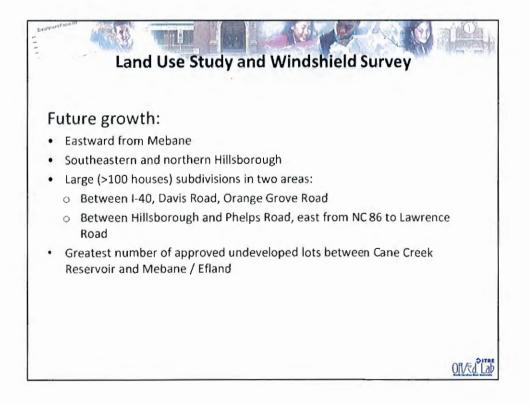


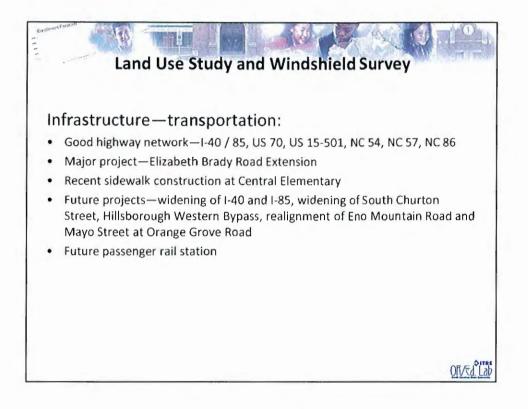


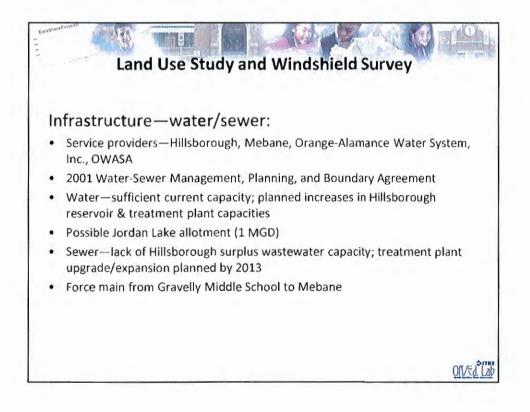
	 3463 students reside in single- 	family subdivisions
	· T	anny cabarriorono
	 479 students reside in multi-fai 	mily subdivisions
i 🖳 Taga / Mile 📻 🤊	a suberna realde in moli-rui	niny suburnaiona
	4	
	Attendance Area	Subdivision Student
	Attenuance Area	Generating Ratio
	Cameron Elementary School	0.47
- YS	Cameron Elementary School Central Elementary School	0.47
		0.37
- Xa	Central Elementary School Efland-Cheeks Elementary School	0.37 0.42
	Central Elementary School	0.37 0.42

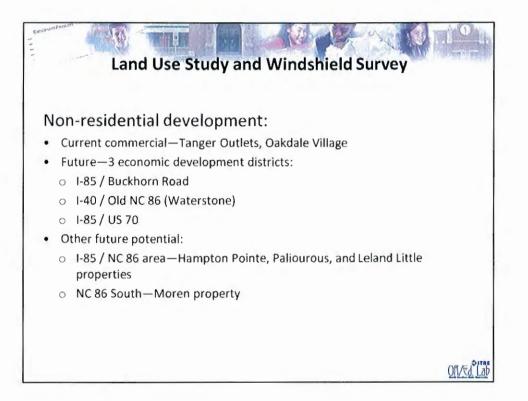


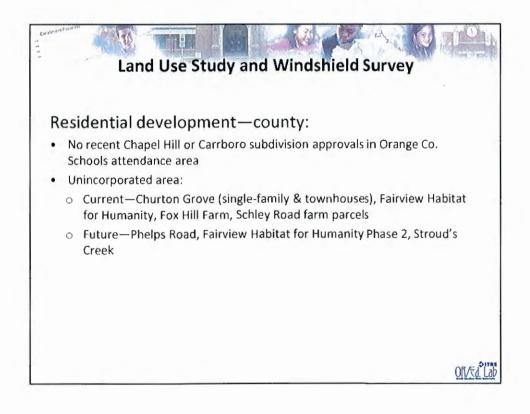




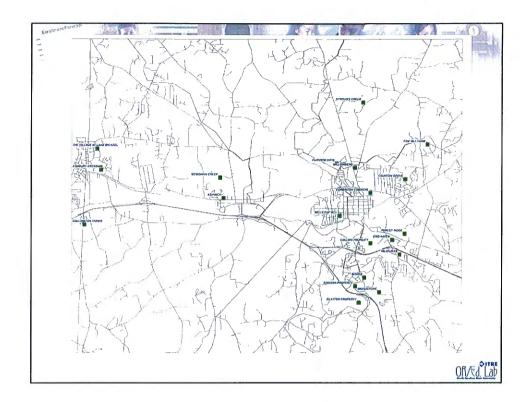


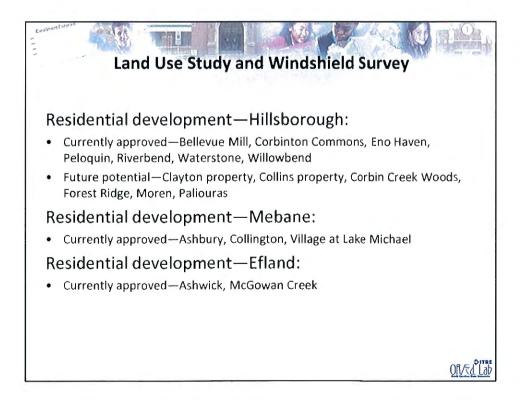


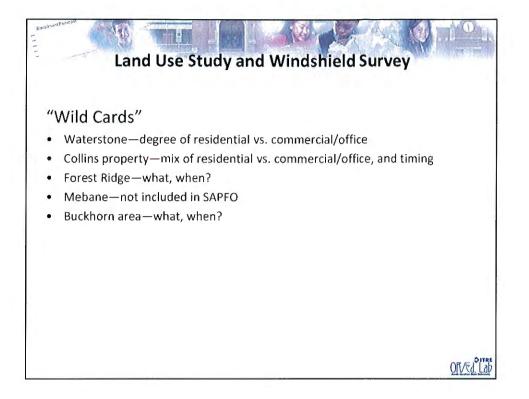


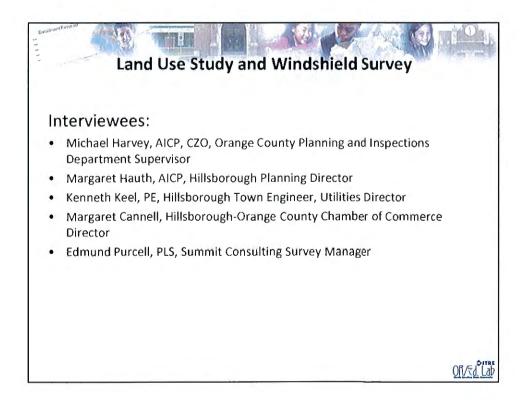


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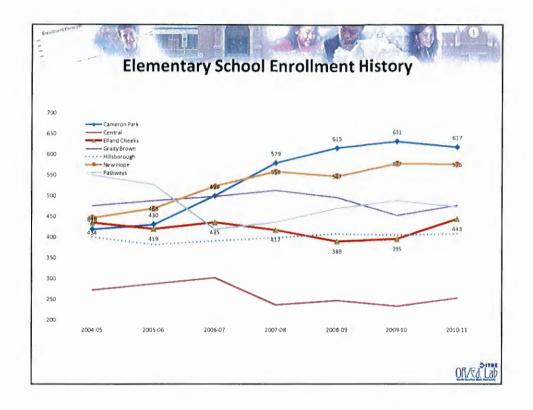






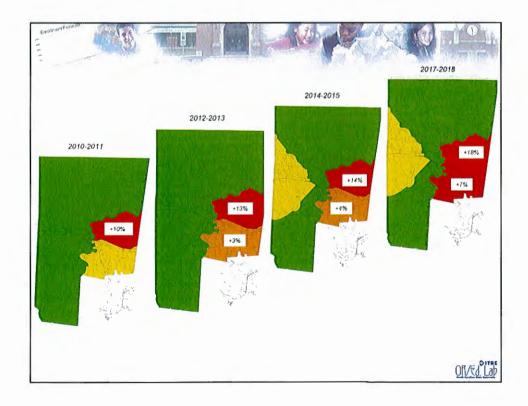


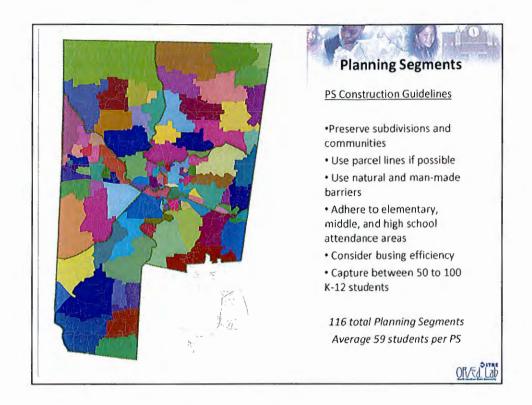
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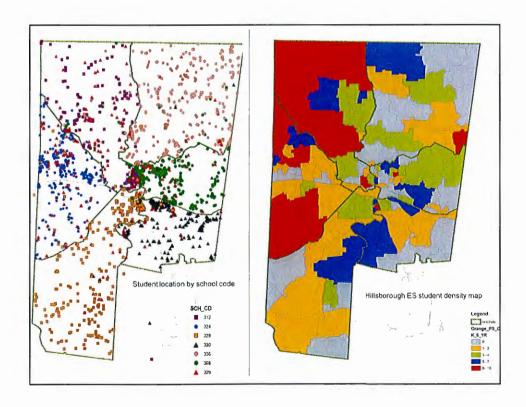


		Allocatio			
SUMS >>>	1.0000		1.0000		1.0000
ES	AOG	MS	AOG	HS	AOG
1 Cameron Park	0.2250	1 Al Stanback	0.4000	1 Cedar Ridge	0.3017
2 Central	0.1100	2 CW Stanford	0.3442	2 Orange High	0.6983
3 Efland Cheeks	0.2450	3 Gravelly Hill	0.2558	3 Partnership Academy	0.0000
4 Grady Brown	0.1100	40	0.0000	4 0	0.0000
5 Hillsborough	0.0000	50	0.0000	50	0.0000
6 New Hope	0.2000	60	0.0000	60	0.0000
7 Pathways	0,1100	70	0.0000	70	0.0000
			and Spli	ts	
FI	FMENTARY SCHOOLS	MIDDLE SCHOOL			
	EMENTARY SCHOOLS		and Spli	Gravelly Hill	1
Ca		MIDDLE SCHOOL Al Stanback	CW Stanford	Gravelly Hill	1
Ca	meron Park	MIDDLE SCHOOL Al Stanback 0.140	CW Stanford 0 860	Gravelly Hill 0.000]
Ca Ce Elle	imeron Park Intral	MIDDLE SCHOOL Al Stanback 0.140 0.630	CW Stanford 0.860 0.370 0.000 0.000	Gravelly Hill 0.000 0.000	
Ca Ce Elli Gri Hill	nmeron Park entral land Cheeks rady Brown Isborough	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.902 0.000	CW Stanford 0.860 0.370 0.000 0.000 0.000 0.000	Gravelly Hill 0.000 0.000 1.000 0.098 0.000	
Ca Ce Elli Gri Hill Ne	nmeron Park entral land Cheeks ady Brow n Isborough w Hope	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.902 0.000 1.000	CW Stanford 0.860 0.370 0.000 0.000 0.000 0.000	Gravelly Hill 0.000 0.000 1.000 0.098 0.000 0.000	
Ca Ce Elli Gri Hill Ne	nmeron Park entral land Cheeks rady Brown Isborough	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.902 0.000	CW Stanford 0.860 0.370 0.000 0.000 0.000 0.000	Gravelly Hill 0.000 0.000 1.000 0.098 0.000	
Ca Ce Elli Gri Hill Ne	nmeron Park entral land Cheeks ady Brow n Isborough w Hope	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.902 0.000 1.000	CW Stanford 0.860 0.370 0.000 0.000 0.000 0.000	Gravelly Hill 0.000 0.000 1.000 0.098 0.000 0.000	
Ca Ce Bh Gri Hill Ne Pat	nmeron Park entral land Cheeks ady Brow n Isborough w Hope	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.000 1.000 0.000	CW Stanford 0 860 0 370 0 000 0 000 0 000 1 000 Orange High	Gravelly Hill 0.000 0.000 1.000 0.098 0.000 0.000	
Ca Ce Elli Giri Hill Ne Pat	imeron Park Intral and Cheeks ady Brown Isborough Isborough w Hope thw ays	MIDDLE SCHOOL AI Stanback 0.140 0.630 0.000 0.902 0.000 1.000 0.000 HIGH SCHOOL Cedar Rdge 0.080	CW Stanford 0 880 0 370 0 000 0 00000 0 0000 0 000 0 000 0 000 0 000 0 000 0 000	Gravelly Hil 0.000 0.000 0.000 0.000 0.008 0.000 0.000 0.000 0.000 Partnership A cademy 0.000	
Ca Ce Elli Gri Hill Ne Pat Ca Ca Ce	Interion Park Intral and Cheeks ady Browin Isborough Isb	MIDDLE SCHOOL AI stanback 0.140 0.630 0.000 0.902 0.000 1.000 0.000 HIGH SCHOOL Cedar Rdge 0.080 1.000	CW Stanford 0 860 0 370 0 000 0 000 0 000 1 000 0 0000 0 0000 0 0000 0 000 0 000 0 000 0 000 0 000	Gravelly Hill	
Ca Gen Elix Nec Pat Ca Ca Ca Ca Ca Ca	Imeron Park Infrail and Oheeks ady Brown a Isborough withopa thways EMENTARY SCHOOLS Imeron Park Infrail and Cheeks	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.000 1.000 0.000 HIGH SCHOOL Cedar Rdge 0.080 1.000 0.260	CW Stanford 0 860 0 370 0 000 0 000 0 000 1 000 0 000 0 920 0 920 0 000 0 740	Gravelly Hil 0.000 1.000 0.098 0.098 0.000 0.000 Patnership Academy 0.000 0.000	
Ca Ca Elli Gri Hai Pai EL Ca Ca Ca Ca Ca Ca	Interion Park Intral and Cheeks ady Brown Isborough wie Hope thiw ays EMENTARY SCHOOLS Interion Park Intral and Cheeks ady Brown	HIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.902 0.000 1.000 0.000 Used and the school Cedar Rdge 0.080 1.000 0.080 0.080 0.080 0.080	CW Stanford 0 860 0 370 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0 000 0 740 0 740 1.000	Gravelly Hill 0.000 0.000 0.000 0.000 0.098 0.000 0.000 0.000 0.000	
Ca Ce Elli Gri Hill Nec Pat Ca Elli Gri Gri Hill	Imeron Park Infrail and Oheeks ady Brown a Isborough withough withough withough withough withough this and cheeks	MIDDLE SCHOOL Al Stanback 0.140 0.630 0.000 0.000 1.000 0.000 HIGH SCHOOL Cedar Rdge 0.080 1.000 0.260	CW Stanford 0 860 0 370 0 000 0 000 0 000 1 000 0 000 0 920 0 920 0 000 0 740	Gravelly Hil 0.000 1.000 0.098 0.098 0.000 0.000 Patnership Academy 0.000 0.000	

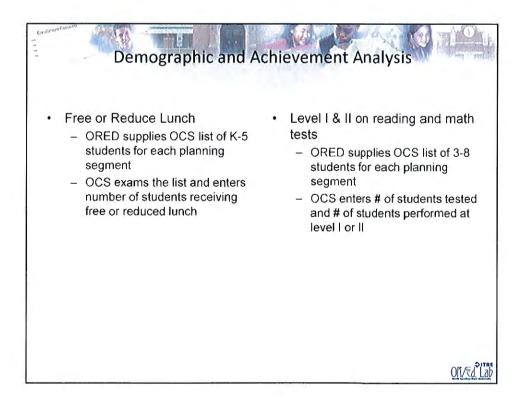
		Capacities		Month-1					Projected M	onth-1 ADM				
	2010-11	2011-12	2012-13	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Elementary Schools		_							_					
ameron Park	565	565	565			- () ;}))		- 644	- 362	- (ititi		- Bird	1961	
entral	455	455	455	252	255	263	264	265	274	272	275	275	273	276
and Cheeks	497	497	497	443	450	466	471	472	492	488	495	495	491	496
ady Brown	544	544	544	476	479	487	488	489	498	496	499	499	497	500
Isborough	471	471	471	408	408	408	408	408	408	408	408	408	408	408
w Hope	586	586	586	575	581	594	597	599	615	611	513	- 617 -	614	- 610
thways	576	576	576	472	475	483	484	485	494	492	495	495	493	496
Totals	3694	3694	3694	3243	3273	3339	3355	3362	3443	3425	3457	3454	3437	3461
Middle Schools														
Stanback	740	740	740	611	619	621	645	661	655	660	659	697	696	701
N Stanford	726	726	726	585	592	594	614	628	623	627	626	659	658	663
avelly Hill	700	700	700	495	500	501	517	527	523	527	526	550	550	553
Totals	2166	2166	2166	1691	1712	1716	1776	1816	1801	1814	1811	1905	1904	1917
High Schools														
dar Ridge	1000	1000	1000	1004	1017	1010	1031	1043	1045	1071	1081	1070	1160	1090
ange High	1518	1518	1518	1190	1221	1203	1253	1280	1286	1344	1368	1344	1413	1389
rthership Academy	50	50	50	22	22	22	22	22	22	22	22	22	22	22
Totals	2568	2568	2568	2216	2261	2235	2306	2345	2354	2437	2471	2436	2535	2501
System Totals	8428	8428	8428	7150	7246	7290	7437	7523	7599	7677	7739	7795	7877	7879
								2345 7523		2437	2471 7739	2436 7795	-	-



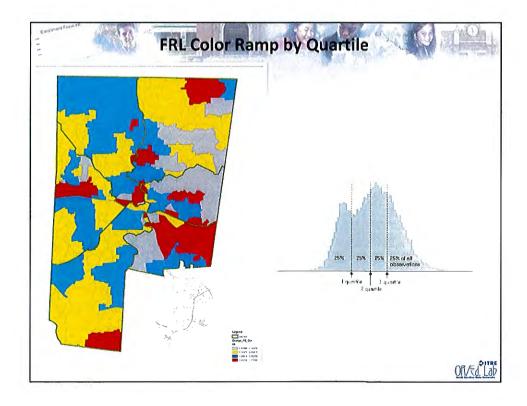


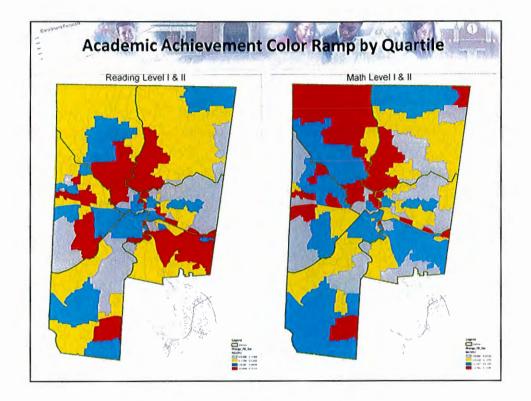


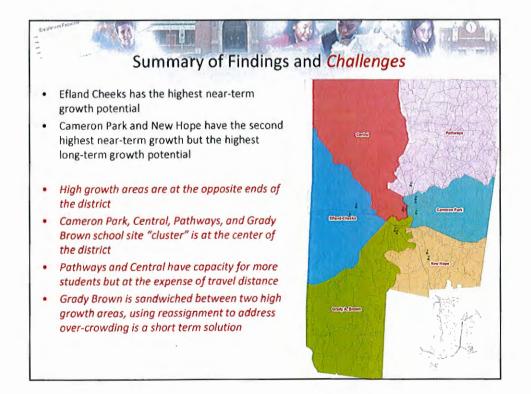
			inda	ULS III	om Tra	inste	S		
	Cameroi	n Park	Central	Efland-Cheeks	Grady A. Brown	Hillsborough	New Hop	Pathways	Members
Attendonce	(308		(312)	(324)	(328)	(329)	(330)	(336)	(Domicile
Cameron Park	532	2	9	1	4	68	11	13	638
Central	29		228	12	9	105	7	25	415
Efland-Cheeks	6		1	422	17	109	6	12	573
Grady A. Brown	6		1	0	412	43	11	3	476
New Hope	4	_	1	1	7	40	510	0	563
Pathways	15		2	1	4	31	2	396	451
							T 4.1		
Row: number of stud Column: number of s				ter.			Total	3116 5 ADM is 3243	
coronina, normetr of a	tooting of a		ALC OF PERSON	a.			MUNUN UNC A	J MUNI IS J243	,
120									
Attendonce	Transf	. Out	T.O. exc	lude YR					
Cameron Park	106	17%	38	7%					
Central	187	45%	82	26%					
Efland-Cheeks	151	26%	42	9%					
Grady A. Brown	64	13%	21	5%					
New Hope	53	9%	13	2%					
	55	12%	24	6%					



Correlations	FRL	Read_1_2	Math_1_2	Var1
FRL				
Read_1_2	0.673			
Math_1_2	0.580	0.796	(
VAR1	0.656	0.526	0.480	
	FRL	Read 1 2	Math 1 2	Var1
LEA Average	0.423	0.327	0.234	0.331
Cameron Park	0.358	0.261	0.189	0.33
Central	0.470	0.346	0.281	0.436
Efland Cheeks	0.457	0.339	0.244	0.430
Grady Brown	0.308	0.301	0.190	0.246
Vew Hope	0.308	0.341	0.190	0.406
Pathways	0.363		0.220	
ratnways	0.303	0.314	0.220	0.227
Cameron Park	-0.07	-0.07	-0.05	0.00
Central	0.05	0.02	0.05	0.11
Efland Cheeks	0.03	0.01	0.01	0.09
Grady Brown	-0.12	-0.03	-0.04	-0.09
New Hope	0.02	0.01	-0.04	0.08
Pathways	-0.06	-0.01	-0.01	-0.10







17

