

Building Tennessee's Tomorrow: Anticipating the State's Infrastructure Needs

July 2017 through June 2022

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February 1, 2019

The Honorable Randy McNally
Lt. Governor and Speaker of the Senate

The Honorable Glen Casada
Speaker, House of Representatives

Members of the General Assembly

State Capitol
Nashville, TN 37243

Ladies and Gentlemen:

Transmitted herewith is the seventeenth in a series of reports on Tennessee's infrastructure needs by the Tennessee Advisory Commission on Intergovernmental Relations pursuant to Public Chapter 817, Acts of 1996. That act requires the Commission to compile and maintain an inventory of infrastructure needed in Tennessee and present these needs and associated costs to the General Assembly during its regular legislative session. The inventory, by law, is designed to support the development by state and local officials of goals, strategies, and programs to

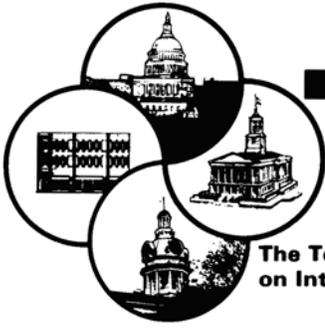
- improve the quality of life of all Tennesseans,
- support livable communities, and
- enhance and encourage the overall economic development of the state through the provision of adequate and essential public infrastructure.

This year's report includes one-page summaries for each county-area that lists the estimated cost for all types of infrastructure by stage of development. The summaries also highlight the top three types of infrastructure improvements needed in each county based on total estimated cost and provide comparisons of the infrastructure needed at public school systems to student enrollment.

Respectfully yours,

Mayor Larry Waters
Acting Chairman

Cliff Lippard
Executive Director



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MEMORANDUM

TO: Commission Members

FROM: Cliff Lippard *Cliff*
Executive Director

DATE: 1 February 2019

SUBJECT: Annual Report on Tennessee's Public Infrastructure Needs—Final Report
for Approval

The Tennessee General Assembly charged the Commission in 1996 with developing and maintaining an inventory of public infrastructure needs "in order for the state, municipal and county governments of Tennessee to develop goals, strategies, and programs which would

- improve the quality of life of its citizens,
- support livable communities, and
- enhance and encourage the overall economic development of the state."

Each year since this mandate was created, the Commission staff has worked with the state's nine development districts to gather information from state and local officials for an inventory of Tennessee's public infrastructure needs. The information provided is analyzed, and an annual report is prepared for the General Assembly.

The current report is submitted for Commission approval. It is the seventeenth in the series and presents \$49.8 billion of needed infrastructure improvements reported in the inventory by state and local officials. This most recent inventory includes projects that need to be in some stage of development during the five-year period July 2017 through June 2022.

The report includes a single statewide overview chapter that provides information by type of infrastructure, the condition and needs of our public school facilities, the availability of funding to meet reported needs, and a comparison of county-area needs.

One-page summaries for each county area are also included that list the estimated cost for all types of infrastructure by stage of development. The summaries also highlight the top three types of infrastructure improvements needed in each county based on total estimated cost and provide comparisons of the infrastructure needed at public school systems to student enrollment. Further detailed county-area information about each type of infrastructure in the inventory, along with relevant legislation, inventory forms, and glossary of terms, can be found in the appendixes to the report.

Building Tennessee’s Tomorrow: Anticipating the State’s Infrastructure Needs

July 2017 through June 2022

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INTRODUCTION

One of the greatest fiscal challenges facing our elected officials is dealing with aging infrastructure. As the population grows and shifts, new classrooms must be built and equipped to meet our children's needs. As roads and bridges wear out, they must be repaired or replaced to ensure public safety. And, as outdated water lines begin to crack and fail, they must be upgraded to carry clean drinking water safely and efficiently. These examples are just a few of the demands confronting government officials as they struggle with the daunting task of matching limited funds to seemingly unlimited needs.

Why do we rely on the public sector for roads, bridges, water lines, and schoolhouses? Certain goods and services—such as clean drinking water, and roads to access employment, education, and commerce—must be provided in the interest of general health and safety. Public infrastructure is the answer when the service support is essential to the common good and the private sector cannot profitably provide it at a price that makes it accessible to all. Therefore, we look to those who represent us in our public institutions to set priorities and find ways to fund them.

Why inventory public infrastructure needs?

In 1996, the Tennessee General Assembly enacted legislation that affirmed the value of public infrastructure. An inventory of necessary infrastructure was laid out “in order for the state, municipal, and county governments of Tennessee to develop goals, strategies, and programs which would

- improve the quality of life of its citizens,
- support livable communities, and
- enhance and encourage the overall economic development of the state

through the provision of adequate and essential public infrastructure.”¹ The “Public Infrastructure Needs Inventory,” on which this report is based, was derived from surveys of local officials by staff of the state’s

¹ Public Chapter 817, Acts of 1996. For more information about the enabling legislation, see appendix A.

“America relies on a vast network of infrastructure—airports, roads, bridges, freight rail, ports and electric grids—to keep the \$18 trillion economy humming.”

Scott Cohn, CNBC, *America in Crisis: The 10 states with the worst infrastructure*. July 10, 2018.

nine development districts;² the capital budget requests submitted to the Governor by state officials as part of the annual budget process; needed capital projects from the Tennessee Board of Regents (TBR); and bridge and road needs from project listings provided by state transportation officials. The Commission relies entirely on state and local officials to evaluate the infrastructure needs of Tennessee's citizens as envisioned by the enabling legislation.

What infrastructure is included in the inventory?

For the purposes of this report, and based on the direction provided in the public act and common usage, public infrastructure is defined as capital facilities and land assets under public ownership or operated or maintained for public benefit. To be included in the inventory, infrastructure projects must not be considered normal or routine maintenance and must involve a capital cost of at least \$50,000.³

Local officials were asked to describe anticipated needs for the period of July 1, 2017, through June 30, 2037, classifying those needs by type of project. State-level needs were derived from capital budget requests. Both state and local officials were also asked to identify the stage of development—conceptual, planning and design, or under construction—as of July 1, 2017. Because of legislation requiring the inventory's use by the Commission to monitor implementation of Tennessee's Growth Policy Act, in 2000, the period covered by each inventory was expanded to 20 years.⁴ Plans developed pursuant to that act established growth boundaries for annexation by the state's municipalities. This report focuses on the first five years of the period covered by the inventory and the following types of public infrastructure (see the glossary for definitions of project types):

- Transportation and Utilities
 - Transportation
 - Broadband
 - Other Utilities
- Education
 - Post-secondary Education
 - School Renovations
 - New Public Schools and Additions
 - School System-wide

² For more information on the importance of the inventory to the development districts and local officials, see appendix B.

³ School technology infrastructure is included for existing schools regardless of cost in order to provide information related to the technology component of the state's education funding formula.

⁴ Public Chapter 672, Acts of 2000.

- Other Education
- Health, Safety, and Welfare
 - Water and Wastewater
 - Law Enforcement
 - Public Health
 - Storm Water
 - Fire Protection
 - Solid Waste
 - Housing
- Recreation and Culture
 - Recreation
 - Libraries, Museums, and Historic Sites
 - Community Development
- General Government
 - Public Buildings
 - Other Facilities
- Economic Development
 - Industrial Sites and Parks
 - Business District Development

Within these parameters, local officials are asked to report their needs as they relate to developing goals, strategies, and programs to improve their communities. They are limited by only the very broad purposes for public infrastructure as prescribed by law. No independent assessment of need constrains their reporting. In addition, the inventory includes bridge and road needs from project listings provided by the Tennessee Department of Transportation (TDOT), capital projects from TBR, and capital needs identified by state officials and submitted to the governor as part of the annual budget process.

How is the inventory accomplished?

The Public Infrastructure Needs Inventory is developed using two separate, but related, inventory forms⁵ to gather information from local officials about necessary infrastructure improvements. The Existing School Facility Needs Inventory Form is used to gather information about the condition of existing public school buildings, as well as the cost to meet all facility mandates at the schools, put them in good condition, and provide adequate technology infrastructure. The General Public

⁵ Both forms are included in appendix C.

“To stem overflows, municipalities can replace old corroded sewer lines, seal manholes and expand or build new sewer treatment plants. A 2016 scorecard by the American Society of Civil Engineers gave Tennessee’s wastewater infrastructure a D-plus and identified a total of \$2.6 billion in projects needed to rehabilitate aging sewer systems.”

Mike Reicher, *The Tennessean*, “Sewage, storms and public health: How aging infrastructure hurts small Tennessee towns.” October 10, 2018.

Infrastructure Needs Inventory Form is used to gather information about all other types of infrastructure including the need for new public school buildings and for school system-wide infrastructure improvements not gathered on the school inventory form. TACIR staff provide local officials with supplemental information from the state highway department about transportation needs, many of which originate from local officials. This information helps ensure that all known needs are captured in the inventory.

In addition to gathering information from local officials, TACIR staff incorporates capital improvement requests submitted by state officials to the Governor's Budget Office, bridge and road needs from project listings provided by TDOT, and needed capital projects from TBR. While TACIR staff spends considerable time reviewing all the information in the inventory to ensure accuracy and consistency, the information reported in the inventory is based on the judgment of state and local officials. In many cases, information about local needs is limited to those included in the capital improvements programs of local governments, which means the inventory may not fully capture all local needs.

As discussed above, projects included in the report are only those in the conceptual, planning and design, or construction stage at some point during the five-year period of July 2017 through June 2022. Estimated costs for the projects may include amounts spent before July 2017 for projects started before the five-year period, or amounts after June 2022 for projects that won't be completed during the five-year period. All of those projects are initially recorded as conceptual, because capital budget requests generally serve as the source of information from state agencies (TDOT and TBR, excepted).

In the context of the Public Infrastructure Needs Inventory, the term "mandate" is defined as *any rule, regulation, or law originating from the federal or state government that affects the cost of a project.*⁶ The mandates most commonly reported are the Americans with Disabilities Act (ADA), asbestos, lead, underground storage tanks, and the Education Improvement Act (EIA). The EIA mandate was to reduce the number of students in each K-12 public school classroom by fall 2001. Tennessee public schools began working toward that goal after the passage of the EIA in 1992 and met it by adding classroom space and hiring a sufficient number of teachers.⁷ However, some schools continue to use portable classrooms because they still do not have sufficient traditional classroom space to accommodate both teachers and students.

Except in the case of existing public schools, the inventory does not include estimates of the cost to comply with mandates. Even in the case of public

⁶ See the Glossary of Terms at the end of the report.

⁷ Tennessee Comptroller of the Treasury 2004. "The Education Improvement Act: A Progress Report." https://www.comptroller.tn.gov/content/dam/cot/orea/documents/orea-reports-2004/2004_OREA_EdImpAct.pdf.

schools, with the exception of the EIA, the cost reported to the Commission as part of the Public Infrastructure Needs Inventory is relatively small—accounting for less than 1% of the total reported public school infrastructure needs. See appendix E-9.

How is the inventory used?

The Public Infrastructure Needs Inventory is both a product and a continuous process, one that has been useful in

- short-term and long-range planning,
- providing a framework for funding decisions,
- increasing public awareness of infrastructure needs, and
- fostering better communication and collaboration among agencies and decision makers.

The inventory promotes planning and setting priorities.

The Public Infrastructure Needs Inventory has become a tool for setting priorities and making informed decisions by all stakeholders. Many decision makers have noted that in a time of tight budgets and crisis-based, reactive decisions, the annual inventory process offers the one opportunity they have to set funding issues aside for a moment and think proactively and broadly about real infrastructure needs. For most officials in rural areas and in smaller cities, the inventory is the closest thing they have to a Capital Improvements Program (CIP). Without the inventory, they would have little opportunity or incentive to consider their infrastructure needs. Because the inventory is not limited to needs that can be funded in the short term, it may be the only formal opportunity officials have to consider the long-range benefits of infrastructure.

The inventory helps match critical needs to limited funding opportunities.

In the absence of a formal CIP, the Public Infrastructure Needs Inventory provides basic information to state and local officials to match needs with funding. At the same time, the inventory provides information needed by the development districts to update their respective *Comprehensive Economic Development Strategy Reports* required annually by the US Economic Development Administration.⁸ Unless a project is listed in that document, it will not be considered for funding by that agency. Information from the inventory has been used to develop lists of projects suitable for other types of state and federal grants as well. For example, many projects that have received Community Development Block Grants were originally discovered in discussions of infrastructure needs with

⁸ US Economic Development Administration. “CEDS Content Guidelines.” <https://www.eda.gov/ceds/>.

“Insufficient or inadequate infrastructure—and the resulting congestion, power outages, and lack of access to safe water and roads—is a global concern. . . Just keeping pace with projected global gross domestic product growth will require an estimated \$57 trillion in infrastructure investment between now and 2030.”

Richard Dobbs et al.,
McKinsey Global Institute,
*Infrastructure productivity:
How to save \$1 trillion a year.*
January 2013.

local government officials. The inventory has also helped state decision makers identify gaps between critical needs and available state, local, and federal funding, including an assessment of whether various communities can afford to meet their infrastructure needs, or whether some additional planning needs to be done at the state level.

The inventory provides an annual review of conditions and needs of public school facilities.

Local officials are asked to report the condition of all schools, not just those in need of repair or replacement, on the Existing School Facility Needs Inventory Form. Data can be retrieved from the database and analyzed to identify particular needs, such as technology. This information is useful in pinpointing pressing needs for particular schools and school systems, as well as providing an overview of patterns and trends across the state. This unique statewide database provides information about the condition and needs of Tennessee's public school facilities.

The inventory increases public awareness, communication, and collaboration among decision makers.

As a result of the inventory, the state's infrastructure needs have been reported to a broader public audience, and the process has fostered better communication between the development districts, local and state officials, and decision makers. The resulting report has become a working document used at the local, regional, and state levels. It gives voice to small towns and rural communities with limited planning resources. Each update of the report provides an opportunity for re-evaluation and re-examination of projects and for improvements in the quality of the inventory and the report itself. This report is unique regarding its broad scope and comprehensive nature. Through the inventory process, development districts have expanded their contact, communication, and collaboration with agencies not traditionally sought after (e.g., local boards of education, utility districts, and TDOT) and strengthened personal relationships and trust among their more traditional local and state contacts. Infrastructure needs are being identified, assessed, and addressed locally, and documented for the Tennessee General Assembly, various state agencies, and decision makers for further assessment and consideration.

What improvements have been made to the inventory?

As each inventory cycle comes to a close, TACIR staff members review the collection and analysis process to identify ways to improve efficiency and accuracy. Staff members continually work to improve methods for project tracking and quality control by improving and enhancing the online inventory application. Geographic coordinates are now required for every project in the inventory so staff and public officials can better analyze infrastructure needs using Geographic Information System (GIS) analysis. This information may be used by TACIR staff members in the

future to provide more detailed information to officials and the public. Staff members also continue to analyze the relationship between school-level enrollment and the need for improvements at individual schools, augmenting analyses using system-level enrollment. And staff members routinely evaluate methods to improve how the information collected in the surveys is shared with state and local officials and communicated to the general public.

What else needs to be done?

The data collection process continues to improve, and the current inventory is more complete and accurate than ever. The Commission has tried to strike a balance between requiring sufficient information to satisfy the intent of the law and creating a burden on local officials reporting their needs. By law, the inventory is required of the Commission, but it is not required of state or local officials; they may decline to participate without penalty. Similarly, they may provide only partial information. This can make comparisons across jurisdictions and across time difficult. But with each annual inventory, participants have become more familiar with the process and more supportive of the program. Improvements in the technological infrastructure of the inventory itself have set the stage for future efforts to make the inventory more accessible and useful to state and local policymakers and researchers.

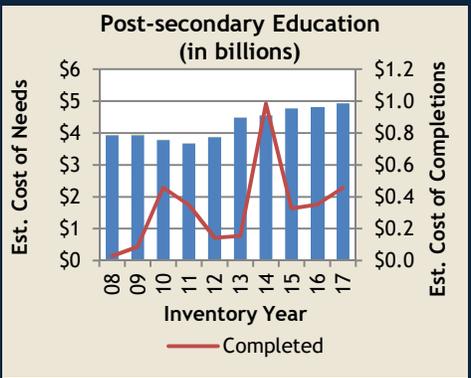
“Williamson County residents have become familiar with the orange barrels and twisted lanes of traffic that come with road construction. During the next few years, the IMPROVE Act will enable crews to finish both large and small projects around the county.”

Emily West and Elaina Sauber, *The Tennessean*, “Top 5 road projects you need to know about in Williamson in 2019.” January 2, 2019.

State Total

Total Estimated Cost* for Infrastructure Improvements
\$49,836,976,983

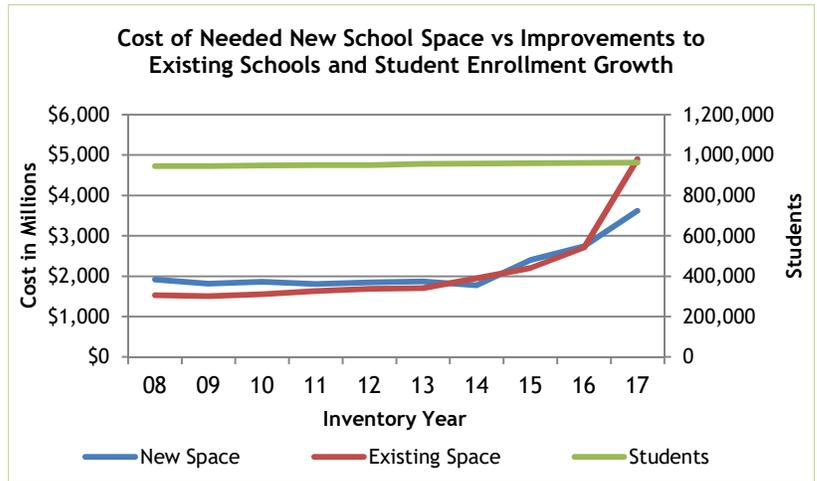
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for State Total Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 9,690,325,537	\$ 15,690,040,019
Post-secondary Education	1,626,770,000	3,308,169,501
School Renovations	4,177,415,332	719,368,840
Water and Wastewater	1,141,933,518	3,455,130,391
New Public Schools & Additions	2,474,932,272	1,139,884,626
Law Enforcement	736,720,800	779,503,131
Recreation	557,040,641	695,274,283
Public Buildings	210,091,841	371,363,837
Other Utilities	116,695,000	372,363,284
Public Health Facilities	389,810,000	76,563,203
Libraries, Museums, & Historic Sites	94,316,760	356,077,499
Housing	203,875,000	199,402,878
Industrial Sites and Parks	121,831,900	129,603,050
Fire Protection	123,679,144	78,309,937
Community Development	93,530,426	90,282,870
Storm Water	56,661,500	118,110,985
Other Facilities	67,386,300	49,536,795
Business District Development	27,350,000	87,547,866
Other Education	49,620,000	60,710,000
School-System-wide	8,952,000	40,985,717
Solid Waste	12,260,000	18,757,300
Broadband	8,600,000	10,193,000
Total	\$21,989,797,971	\$ 27,847,179,012



*Total Estimated Cost = Conceptual + Planning & Design + Construction

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INFRASTRUCTURE NEEDS OVERVIEW

The estimated cost of all needed public infrastructure improvements in Tennessee increased for the third straight year. State and local officials report an increase of approximately \$5.0 billion (11.1%) in this year's inventory, which brings the estimated cost of public infrastructure improvements that need to be in some stage of development between July 1, 2017, and June 30, 2022, to \$49.8 billion (see figure 1 and table 1).⁹

Table 1. Comparison of Estimated Cost of Needed Infrastructure Improvements
July 2016 Inventory vs. July 2017 Inventory

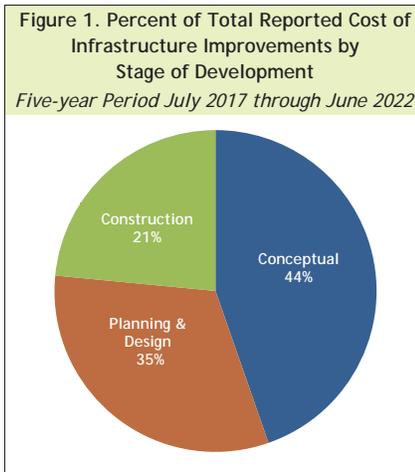
Category and Type of Infrastructure	July 2016 Inventory	July 2017 Inventory	Difference	Percent Change
Transportation and Utilities	\$ 24,705,650,122	\$ 25,888,216,840	\$ 1,182,566,718	4.8%
Transportation	24,183,250,173	25,380,365,556	1,197,115,383	5.0%
Other Utilities	505,099,949	489,058,284	(16,041,665)	-3.2%
Broadband	17,300,000	18,793,000	1,493,000	8.6%
Education	\$ 10,406,180,439	\$ 13,606,808,288	\$ 3,200,627,849	30.8%
Post-secondary Education	4,810,942,880	4,934,939,501	123,996,621	2.6%
School Renovations*	2,711,722,313	4,896,784,172	2,185,061,859	80.6%
New Public Schools & Additions	2,736,354,246	3,614,816,898	878,462,652	32.1%
Other Education**	87,420,000	110,330,000	22,910,000	26.2%
School System-wide	59,741,000	49,937,717	(9,803,283)	-16.4%
Health, Safety and Welfare	\$ 6,890,811,727	\$ 7,390,717,787	\$ 499,906,060	7.3%
Water and Wastewater	4,664,793,965	4,597,063,909	(67,730,056)	-1.5%
Law Enforcement	1,113,335,026	1,516,223,931	402,888,905	36.2%
Public Health Facilities	345,518,398	466,373,203	120,854,805	35.0%
Housing	374,149,195	403,277,878	29,128,683	7.8%
Fire Protection	194,246,435	201,989,081	7,742,646	4.0%
Storm Water	175,106,408	174,772,485	(333,923)	-0.2%
Solid Waste	23,662,300	31,017,300	7,355,000	31.1%
Recreation and Culture	\$ 1,765,252,702	\$ 1,886,522,479	\$ 121,269,777	6.9%
Recreation	1,154,464,256	1,252,314,924	97,850,668	8.5%
Libraries, Museums, and Historic Sites	407,657,009	450,394,259	42,737,250	10.5%
Community Development	203,131,437	183,813,296	(19,318,141)	-9.5%
General Government	\$ 699,218,249	\$ 698,378,773	\$ (839,476)	-0.1%
Public Buildings	581,776,149	581,455,678	(320,471)	-0.1%
Other Facilities	117,442,100	116,923,095	(519,005)	-0.4%
Economic Development	\$ 377,684,972	\$ 366,332,816	\$ (11,352,156)	-3.0%
Industrial Sites and Parks	263,881,780	251,434,950	(12,446,830)	-4.7%
Business District Development	113,803,192	114,897,866	1,094,674	1.0%
Grand Total	\$ 44,844,798,211	\$ 49,836,976,983	\$ 4,992,178,772	11.1%

*School Renovations include school technology projects with estimated costs below the \$50,000 threshold used for other types of infrastructure included in the inventory. Individual technology projects under the threshold totaled \$4,092,464 in 2017 and \$4,603,298 in 2016.

**Other Education includes infrastructure improvements reported at state educational institutions not associated with institutes of higher education or at the county, city, or special school systems level. Examples include the Tennessee School for the Deaf and Alvin C. York Institute.

⁹ For complete listings of all needs reported in the July 2017 inventory by county and by public school system, see appendixes D and E.

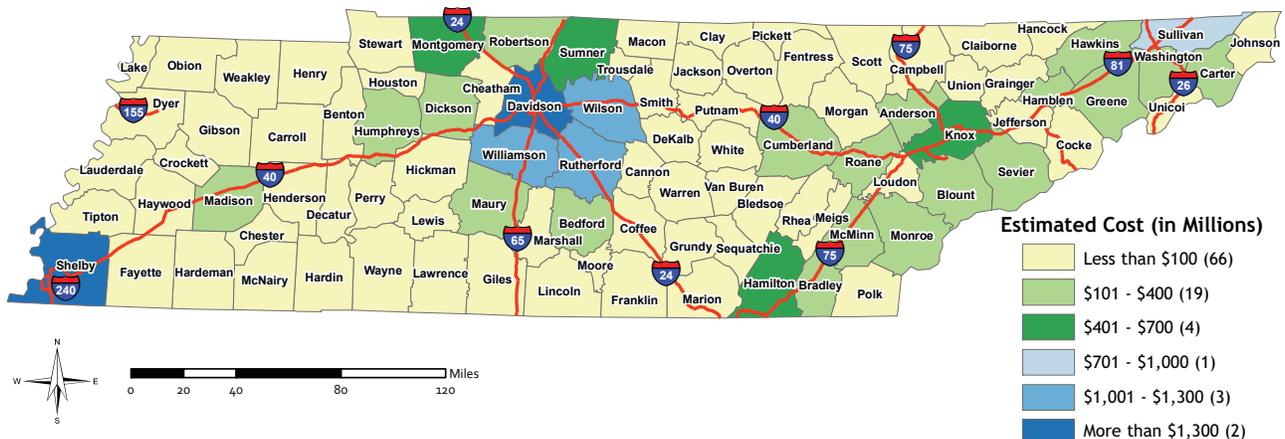
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Improvements needed for the following categories continue to account for most of the inventory: Transportation and Utilities; Education; and Health, Safety, and Welfare. This year, the categories most responsible for the reported increase are Education and Transportation and Utilities. More than two-thirds of the estimated cost of the needed improvements reported in this year's inventory is not funded—unchanged from last year.

Public infrastructure is needed in every corner of the state, from highly populated counties like Shelby and Davidson, to rural counties like Humphreys and Pickett. In general, it has been the case throughout the history of this inventory that the more people a county has and the more its population grows, the more infrastructure it will need (see map 1). However, relative to their populations, counties with small populations need just as much or more infrastructure than counties with large populations (see map 2). Individual county summaries, starting on page 21, offer a breakdown of infrastructure needs by county.

Map 1. Total Estimated Cost of Infrastructure Improvement Needs
Five-year Period July 2017 through June 2022



Note: County totals include the total estimated cost of both regional and local infrastructure needs, but do not include the \$3,688,566,915 for infrastructure improvements that cross county lines. Maps in past reports only included the estimated cost for local infrastructure needs.

Map 2. Estimated Cost of Total Infrastructure Needs Per Capita
Five-year Period July 2017 through June 2022



Several recent policy changes have directly caused changes in the infrastructure needs reported in this year's inventory. At the state level, the Improve Act of 2017, which will raise revenue for transportation infrastructure, increased \$1.9 billion worth of needs in the inventory this year and is expected to increase an additional \$5 billion worth of needs beginning with next year's inventory. Similarly, at the local level, newly adopted design standards and improved estimating increased the estimated cost for needed renovations of Metro Nashville schools in 2017. In past years, federal programs, such as the Safe Routes to Schools program, which was created to fund sidewalk construction and safer street crossings near schools, have also led to an increase in reported infrastructure needs.

Public infrastructure needed for education and transportation and utilities accounts for 88% of the increase in this year's inventory.

Of the \$5.0 billion increase in infrastructure needs reported in this year's inventory, almost \$4.4 billion (87.8%) is attributable to increases in the estimated cost for education and in transportation and utilities. Needed improvements for education infrastructure show the largest overall increase—\$3.2 billion. Most of the increase in the estimated cost of education needs results from the \$2.2 billion increase reported for renovations to existing schools and the \$878 million increase for new public schools and additions. The spike in needed school renovations is mainly from Metro Nashville Public Schools (MNPS), which added over \$2 billion alone. MNPS' increase resulted from rising construction costs in the Nashville Metro Area coupled with a policy change MNPS adopted in the spring of 2016 that included new design guidelines, education specifications, and better estimating practices for school renovations and construction.

Infrastructure needs for transportation and utilities, which had remained relatively unchanged during the last two inventories, show the second largest increase in this year's inventory—\$1.2 billion. Most of this increase is attributable to needed transportation infrastructure, mainly new road projects, including some¹⁰ of the projects that will be developed as part of the Improve Act. Increases in needs reported for other categories in the inventory—Health, Safety and Welfare (\$500 million) and Recreation and Culture (\$121 million)—are relatively small in comparison. Reported needs decreased in two categories: Economic Development (\$11 million decrease) and General Government (\$839,000 decrease). See table 1.

¹⁰ \$5,611,644,803 of the total \$10,554,499,096 in the Improve Act matched existing projects in the Public Infrastructure Needs Inventory as of July 1, 2017. The remaining Improve Act projects were added to the inventory after the July 1, 2017, cutoff for this year's report and will be reflected in next year's report. See table 2.

“Buildings, classrooms, laboratories, and equipment—education infrastructure—are crucial elements of learning environments in schools and universities. There is strong evidence that high-quality infrastructure facilitates better instruction, improves student outcomes, and reduces dropout rates, among other benefits.”

Janssen Teixeira, The World Bank, *Why education infrastructure matters for learning*. October 3, 2017.

The total estimated cost for transportation continues to be the largest in the inventory.

Transportation and Utilities is and always has been the largest category of infrastructure in the inventory and totals \$25.9 billion this year—51.9% of the inventory. Transportation alone, at \$25.4 billion, accounts for nearly all of this category and is larger than all other categories in the inventory— Education at \$13.6 billion (27.3%), Health, Safety, and Welfare at \$7.4 billion (14.8%), Recreation and Culture at \$1.9 billion (3.8%), General Government at \$698 million (1.4%), and Economic Development at \$366 million (0.7%).

Improve Act partially increases the estimated cost for needed transportation infrastructure.

The net increase in the total estimated cost of transportation needs is \$1.2 billion (5.0%) in this year's inventory, which includes \$2.8 billion in new projects (Improve Act accounts for \$1.6 billion) and \$1.0 billion in project cost increases (Improve Act accounts for \$277 million). But these increases are partially offset by \$968 million in completed projects, \$261 million in canceled projects, and \$146 million for postponed projects no longer deemed necessary within this report's five-year window. Moreover, state and local officials reported \$451 million in reduced costs for projects already in the inventory. Projects totaling \$851 million were removed from the inventory because improved methods of project tracking and quality control identified duplicates and invalid information.

In 2017, Governor Bill Haslam signed the Improve Act,¹¹ which raises taxes on gasoline and diesel fuel by 6 cents and 10 cents respectively, over a three-year period. Increases in the state's gasoline and diesel tax revenues will help pay for Tennessee's highly publicized \$10.6 billion transportation backlog, which includes only projects that have been approved by the General Assembly and are either in the planning and design or construction stage. The \$25.4 billion for transportation in TACIR's Public Infrastructure Needs Inventory reflects the total needed regardless of the stage of development or available funds. Of the 966 projects totaling \$10.6 billion in the Improve Act, 189 projects totaling \$5.6 billion are in TACIR's inventory this year. See table 2.

Table 2. Estimated Cost of Improve Act Projects by Type of Need
Five-year Period July 2017 through June 2022

Project Type	Number of Matched Projects	Total Estimated Cost	Percent of Total Estimated Cost
Road	176	\$ 5,528,800,721	52.4%
Bridge	8	71,528,012	70.0%
ITS*	4	10,616,000	10.0%
Navigation	1	700,000	0.0%
Matched Projects	189	\$ 5,611,644,803	53.2%
Total	966	\$ 10,554,499,096	100.0%

* Intelligent Transportation System

“The Volunteer State overhauled its tax system in 2017 with an eye toward infrastructure, and the plan is already bearing fruit. The Tennessee IMPROVE Act, signed into law by Gov. Bill Haslam, is replacing hundreds of millions of dollars in individual and business taxes with user fees to fund nearly 1,000 road and bridge projects statewide.”

Scott Cohn, CNBC, *Top 10 states with the best infrastructure in America*. July 10, 2018.

¹¹ Public Chapter 181, Acts of 2017.

The need for other utilities decreased slightly, while the need for broadband infrastructure continues to grow.

Needs reported for other utilities decreased by \$16 million (3.2%) in this year’s inventory and now total \$489 million. In just the second year of reporting, local officials report the need for \$19 million in broadband infrastructure, an increase of about \$1.5 million from last year.

Increases in needed renovations, enrollment growth, and the rising cost of construction materials appear to be driving the increase in education needs.

School systems must comply with the Tennessee Constitution’s guarantee of the right of access to public education,¹² as well as with the Tennessee Education Improvement Act of 1992,¹³ which places limits on the number of students in classrooms. School systems with growing enrollment face the challenge of providing enough space for students while costs increase. Other school systems need to renovate or replace their schools because of age, condition, or issues concerning school restructuring or consolidation.

In this year’s inventory, most of the overall increase in the Education category is attributable to the \$2.2 billion (80.6%) increase in needed improvements to existing space, which now totals \$4.9 billion. This increase in needed improvements to existing space results almost entirely from the \$2.2 billion increase in school renovations—which itself is primarily attributable to a \$2.0 billion increase reported for MNPS discussed above—and is only partially offset by the \$4 million decrease in needs reported for technology infrastructure and the \$3 million decrease in needs related to federal mandates. See table 3.

Table 3. Estimated Cost of School Infrastructure Improvements by Type of Need
July 2016 Inventory vs. July 2017 Inventory

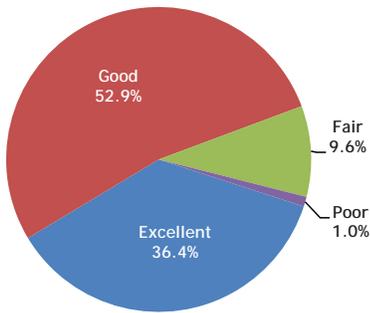
Type of Infrastructure	July 2016 Inventory	July 2017 Inventory	Difference	Percent Change
New School Space	\$ 2,736,354,246	\$ 3,614,816,898	\$ 878,462,652	32.1%
New Schools Additions	2,220,804,362	2,982,145,000	761,340,638	34.3%
	515,549,884	632,671,898	117,122,014	22.7%
Improvements to Existing Schools	\$ 2,711,722,313	\$ 4,896,784,172	\$ 2,185,061,859	80.6%
Renovations	2,488,997,147	4,680,833,348	2,191,836,201	88.1%
Technology*	129,600,229	125,380,212	(4,220,017)	-3.3%
Mandates	93,124,937	90,570,612	(2,554,325)	-2.7%
System-wide Needs	\$ 59,741,000	\$ 49,937,717	\$ (9,803,283)	-16.4%
Statewide Total	\$ 5,507,817,559	\$ 8,561,538,787	\$ 3,053,721,228	55.4%

*Technology includes school projects with estimated costs below the \$50,000 threshold used for other types of infrastructure included in the inventory. Individual technology projects under the threshold totaled \$4,092,464 in 2017 and \$4,603,298 in 2016.

¹² Article XI, Section 12, Constitution of the State of Tennessee.

¹³ State of Tennessee Comptroller of the Treasury. 2004. “The Education Improvement Act: A Progress Report.” https://www.comptroller.tn.gov/content/dam/cot/orea/documents/orea-reports-2004/2004_OREA_EdImpAct.pdf.

Figure 2. Overall Condition of Public School Buildings As of July 1, 2017



“The \$89 million renovation of Hillsboro’s 28-acre campus will completely transform the campus over the next several years. The project is expected to be completed in 2020, according to the district.”

Jason Gonzales, *The Tennessean*, “See plans for Nashville schools’ Hillsboro High School renovation.” August 23, 2017

Because of the conditions of many Tennessee schools, improvements to existing space are necessary. Although just under 10.7% of public schools (185) in Tennessee were rated by their local school officials in fair or poor condition, 169 of those schools need improvements to existing space and account for 40.2% of total estimated existing space needs. See figure 2, table 4, and appendix E.

Table 4. Renovation Costs by School Condition Five-year Period July 2017 through June 2022

School Condition	Number of Schools	Estimated Cost to Renovate	Average Cost Per School
Good or Excellent	886	\$ 2,800,218,787	\$ 3,160,518
Fair or Poor	169	1,880,614,561	11,127,897
Total	1,055	\$ 4,680,833,348	\$ 4,436,809

Note: Does not include facility upgrades captured in the school system-wide category used for the total renovation cost in Table 3.

The need for new school space also continues to increase in this year’s inventory—\$878 million (32.1%) to a new total of \$3.6 billion. Local officials reported a \$117 million (22.7%) increase in the need for additions to existing schools, and a \$761 million (34.3%) increase in reported needs for new schools. See table 3. Of the \$3.0 billion total needed to build new schools, \$972 million is for 24 new school projects added to the inventory this year by 12 school systems.¹⁴ Of these 24 new school projects, almost half are needed in Rutherford and Wilson counties, which each need five new schools.

Over half of all school systems reporting a need for new schools have growing enrollments (see table 5 on the next page). Of the 12 systems with newly reported needs for a new school, nine—the county school systems of Bradley, Giles, Jefferson, Maury, Monroe, Montgomery, Rutherford, Wilson, and Williamson—reported needing an additional school instead of a replacement school where the old building is either demolished or repurposed. Only five of these 12 systems experienced enrollment growth from 2012 to 2017, but these five school systems, accounting for 64.0% of the total estimated cost for new schools, are located in the Metro Nashville area, which has been growing and attracting new people at a strong pace.¹⁵

Another reason for the increase in the cost of needed education infrastructure could be the rising cost of construction materials and labor. The US Bureau of Labor Statistics’ new school construction price index rose almost 24 points (18.2%) from July 2010 to July 2017,¹⁶ and RSMeans data by Gordian, an industry-leading construction cost estimating company, shows growth in square foot costs for schools

¹⁴ Anderson County, Bradley County, Claiborne County, Davidson County, Giles County, Jefferson County, Maury County, Monroe County, Montgomery County, Rutherford County, Wilson County, and Williamson County.

¹⁵ University of Tennessee, March 22, 2018. <https://news.utk.edu/2018/03/22/census-nashville-continues-to-lead-states-population-growth/>.

¹⁶ US Bureau of Labor Statistics. 2018. <https://data.bls.gov/timeseries/PCU236222236222>.

increasing similarly.¹⁷ In 2010, the average cost of a completed new school was \$16 million in Tennessee. Five schools were completed since last year's report for a total cost of \$140 million, averaging \$28 million per school. Over the next five years, local officials report needing 81 more schools at an average of \$37 million.

Table 5. Change in Student Enrollment 2012 to 2017
for School Systems that Need New Schools
Five-year Period July 2017 through June 2022

School System	Change in Student Enrollment 2012 to 2017	Estimated Cost of New Schools July 2017	
		Total	Per Student
Davidson County	6,303	\$ 368,800,000	\$4,474
Williamson County	5,712	390,000,000	\$10,356
Rutherford County	5,143	401,100,000	\$9,160
Montgomery County	3,232	103,000,000	\$3,125
Wilson County	2,055	646,000,000	\$36,513
Knox County	1,891	58,295,000	\$1,002
Hamilton County	1,367	50,000,000	\$1,157
Sumner County	1,312	55,000,000	\$1,902
Murfreesboro	946	25,000,000	\$3,119
Maury County	829	110,000,000	\$8,982
Bedford County	520	36,850,000	\$4,343
Collierville	519	95,000,000	\$11,460
Cleveland	407	15,691,000	\$2,859
Johnson City	298	20,000,000	\$2,590
Gibson County SSD	210	17,000,000	\$4,323
Lebanon SSD	156	21,200,000	\$5,994
Macon County	155	24,000,000	\$6,285
Bristol	114	35,500,000	\$8,974
Sevier County	94	43,250,000	\$3,022
Robertson County	35	35,000,000	\$3,157
DeKalb County	(56)	42,000,000	\$14,744
Dickson County	(60)	32,600,000	\$3,957
Oak Ridge	(66)	10,000,000	\$2,278
Monroe County	(102)	30,000,000	\$5,614
Benton County	(112)	200,000	\$94
Giles County	(145)	32,000,000	\$8,397
Jefferson County	(157)	20,000,000	\$2,821
Millington	(210)	6,659,000	\$2,617
Marion County	(236)	30,000,000	\$7,516
Anderson County	(237)	10,000,000	\$1,572
Bradley County	(278)	19,200,000	\$1,964
Claiborne County	(354)	11,800,000	\$2,815
Roane County	(564)	50,000,000	\$7,725
Washington County	(612)	52,000,000	\$6,156
Sullivan County	(1,088)	85,000,000	\$8,809
Total	27,022	\$ 2,982,145,000	\$14,209

Source: Tennessee Department of Education, Annual Statistical Report,
<https://www.tn.gov/content/tn/education/data/department-reports.html>.

¹⁷ RSMMeans data by Gordian. 2017. "Square Foot Costs With RSMMeans Data."

"Jails across East Tennessee have gone well above capacity. Officers said it's putting a strain on the inmates and the corrections officers."

David Ball, WVLT, *Some East Tennessee jails at full capacity.*
February 13, 2018.

The need for upgrades at state correctional facilities, new law enforcement space, and public health facilities accounts for most of the increase in the Health, Safety, and Welfare category.

Law enforcement infrastructure is primarily made up of state prisons, local jails, justice centers, and police stations. As Tennessee's population grows and facilities age, new facilities need to be built, and old facilities need to be upgraded. Prison inmates spend most, if not all, of their time confined to their assigned correctional facility. As you can imagine, this puts considerable wear and tear on a building, and as the inmate population grows in Tennessee's correctional facilities,¹⁸ it's no surprise that they eventually need upgrades and improvements from time to time. This year's inventory includes a large increase in the estimated cost of law enforcement infrastructure—\$403 million (36.2%) to a new total of \$1.5 billion. Almost three-quarters of this increase results from necessary upgrades and improvements at existing state correctional facilities and needs for new law enforcement facilities. The State needs to build a new Tennessee Highway Patrol Headquarters in Nashville, at the cost of \$120 million. At the local level, governments mainly need new space. Rhea County needs \$28 million to renovate an old hospital for a new county courthouse and justice center; Brentwood needs \$21 million for a new police headquarters; Cookeville needs \$20 million for a new police department facility to accommodate increased staff and officers; and Hamilton County needs \$20 million for additional beds at the Silverdale Correctional Facility.

This year's inventory also includes a large increase in the estimated cost for public health facilities—\$121 million (35.0%) to a new total of \$466 million. Most of this increase is attributable to the addition of three projects: The state reports needing \$55 million for a new veterans nursing home in Bristol and a little over \$11 million for a new regional office at the Greene Valley Development Center. Furthermore, local officials in Sequatchie County report needing \$33 million for a new 25-bed critical access hospital in Dunlap. The rest of the needs reported are much smaller and scattered across the state.

Needs reported for projects that support public buildings, recreation and cultural assets, and efforts to develop the economy, continue to fluctuate.

Among needs reported for recreation and cultural assets, the estimated cost for recreational infrastructure increased by \$98 million (8.5%) to a total of \$1.3 billion. The estimated cost for libraries, museums, and historic sites increased \$43 million (10.5%) and now totals \$450 million. But these increases are partially offset by the \$19 million (9.5%) decrease in needs

¹⁸ Tennessee Department of Correction, Statistical Abstract, Fiscal Year 2017.

reported for community development infrastructure, which now totals \$184 million.

The cost for infrastructure needed for other facilities—structures that are publicly owned but not typically open to the public, like maintenance facilities and salt bins—decreased \$519,000 (0.4%) to a total of \$117 million. After seeing increases in the past two reports, the estimated cost of needed infrastructure for public buildings decreased \$320,000 (0.1%) and now totals \$581 million.

Lastly, the estimated cost for needed infrastructure at industrial sites and parks decreased \$12 million (4.7%) to a new total of \$251 million, while the estimated cost of infrastructure supporting business districts increased \$1 million (1.0%) and now totals \$115 million.

In this year’s inventory, funding is lacking for more than two-thirds of the estimated cost of the needed improvements.

Information about funding for public infrastructure needs reported by officials indicates that 68.5% of the funds required to meet those needs was not available at the time the inventory was conducted, relatively unchanged from last year’s 68.9%. Excluding improvements needed at existing schools and those drawn from capital budget requests submitted by state agencies, neither of which includes funding information, only \$11.6 billion in funding is available for the remaining \$37.0 billion in needs (see table 6). Typically, as a project evolves, funding sources are identified and pursued. Regarding the infrastructure inventory process, planning and design cannot take place without acquiring some funds. Of course, a lack of funding will prevent some projects from ever being completed. In fact, most of the infrastructure needs reported in the July 2012 inventory, and not already fully funded, were still needed five years later. As in prior years, funding for needs reported in the inventory comes from federal, state, and local sources.

Table 6. Public Infrastructure Needs Summary of Funding Availability*
Five-year Period July 2017 through June 2022

	Funding Available [in billions]	Funding Needed [in billions]	Total Needed [in billions]
Fully Funded Improvements	\$ 11.1	\$ 0.0	\$ 11.1
Partially Funded Improvements	0.5	2.7	3.3
Unfunded Improvements	0.0	22.6	22.6
Total	\$ 11.6	\$ 25.3	\$ 37.0

*Excludes infrastructure improvements for which funding availability is not known.
Note: Totals may not equal 100% because of rounding.

The government that owns infrastructure typically funds the bulk of its cost, and a variety of revenue sources are used. For example, the state collects taxes and appropriates funds to its own projects but also provides grants to local governments through programs in various state agencies.

“In order for rural Tennessee communities to prosper, they must have the proper infrastructure in place to meet the needs of their citizens,” Mr. Tracy said. “I am excited that the United States Department of Agriculture is committed to assisting communities in making infrastructure a priority.”

The Chattanooga, “USDA Partners To Improve Community Infrastructure In 6 Rural Communities In Tennessee.” October 9, 2018.

Even so, cities and counties fund most of their infrastructure improvements with their own property and sales tax revenues, while utility districts fund their improvements primarily with dedicated revenue sources in the form of user fees.

Because most of the state's infrastructure needs are not included in this analysis, local government sources—mainly counties and cities—provide the majority of funding for all fully funded needs presented here. Exceptions include transportation, which is funded primarily by the federal and state governments. Industrial sites and parks also receive a substantial portion of funding from the federal and state governments. Broadband, recreation, storm water, housing, and libraries, museums, and historic sites also rely on the federal government for significant portions of their reported funding (see table 7). It may appear that the state does not help pay for school buildings even though it does—although counties report funding 80.9% of new public school construction, the state provides an equivalent amount through its Basic Education Program (BEP) funding formula. The formula includes funds for capital outlay, an amount that topped \$770 million for fiscal year 2017-18.¹⁹ The state's share accounts for half of that amount, but those funds are not earmarked for that specific purpose; therefore, school systems have the flexibility to use those funds to meet various school needs,²⁰ and some systems use them for operating costs rather than capital outlay.

¹⁹ Tennessee Comptroller of the Treasury, Office of Research and Education Accountability. 2017. BEP Calculator 2017-18.

²⁰ Tennessee Comptroller of the Treasury. 2017. "Basic Education Program: A Funding Formula, Not A Spending Plan." <https://www.comptroller.tn.gov/office-functions/research-and-education-accountability/legislative-toolkit/bep.html>.

Table 7. Funding Source by Category and Type of Infrastructure for Fully Funded Improvement Needs [in millions]
Five-year Period July 2017 through June 2022

Category and Project Type	State		Federal		Other		City		County		Special District		Total
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount
Transportation and Utilities	\$ 860.5	14.1%	\$ 3,928.2	64.1%	\$ 10.0	0.2%	\$ 746.9	12.2%	\$ 571.6	9.3%	\$ 6.3	0.1%	\$ 6,123.6
Transportation	859.2	14.8%	3,928.2	67.7%	5.0	0.1%	438.3	7.6%	570.9	9.8%	0.0	0.0%	5,801.5
Other Utilities	1.3	0.4%	0.0	0.0%	5.0	1.6%	308.7	95.8%	0.8	0.2%	6.3	2.0%	322.1
Broadband	0.0	0.0%	4.4	43.2%	0.0	0.0%	3.4	33.3%	2.4	23.5%	0.0	0.0%	10.2
Health, Safety and Welfare	\$ 5.8	0.2%	\$ 124.1	3.5%	\$ 20.5	0.6%	\$ 1,566.1	44.6%	\$ 1,551.7	44.1%	\$ 246.8	7.0%	\$ 3,515.0
Water and Wastewater	4.0	0.1%	98.2	3.3%	19.3	0.6%	1,395.6	47.0%	1,249.9	42.1%	201.2	6.8%	2,968.1
Law Enforcement	0.0	0.0%	0.3	0.1%	0.0	0.0%	66.6	20.2%	262.3	79.7%	0.0	0.0%	329.2
Housing	0.5	0.4%	15.3	11.8%	0.0	0.0%	60.5	46.6%	8.7	6.7%	44.9	34.5%	129.9
Fire Protection	0.0	0.0%	2.4	5.8%	0.0	0.0%	32.8	78.2%	6.7	16.0%	0.0	0.0%	41.9
Public Health Facilities	0.8	3.7%	1.4	6.6%	0.0	0.0%	0.1	0.4%	19.4	89.3%	0.0	0.0%	21.8
Storm Water	0.6	3.5%	5.7	34.2%	1.2	7.4%	8.3	50.0%	0.8	4.9%	0.0	0.0%	16.5
Solid Waste	0.0	0.0%	0.8	10.1%	0.0	0.0%	2.3	29.5%	3.9	50.8%	0.7	9.5%	7.7
Education	\$ 0.8	0.1%	\$ 0.0	0.0%	\$ 1.0	0.1%	\$ 110.9	15.5%	\$ 576.8	80.8%	\$ 24.0	3.4%	\$ 713.5
New Public Schools	0.0	0.0%	0.0	0.0%	1.0	0.1%	110.7	16.4%	546.3	80.9%	17.0	2.5%	675.0
School System-wide	0.8	2.0%	0.0	0.0%	0.0	0.0%	0.2	0.5%	30.5	79.3%	7.0	18.3%	38.5
Recreation and Culture	\$ 13.7	2.9%	\$ 145.0	30.9%	\$ 17.4	3.7%	\$ 177.3	37.8%	\$ 115.9	24.7%	\$ 0.0	0.0%	\$ 469.3
Recreation	13.0	3.6%	134.6	37.2%	6.2	1.7%	137.6	38.1%	70.1	19.4%	0.0	0.0%	361.6
Libraries, Museums, and Historic Sites	0.0	0.0%	6.8	11.6%	10.1	17.1%	11.8	20.0%	30.2	51.3%	0.0	0.0%	58.9
Community Development	0.6	1.3%	3.5	7.2%	1.1	2.3%	27.9	57.3%	15.6	32.0%	0.0	0.0%	48.8
Economic Development	\$ 16.0	9.1%	\$ 18.6	10.6%	\$ 7.8	4.5%	\$ 54.6	31.1%	\$ 76.3	43.4%	\$ 2.6	1.5%	\$ 175.9
Industrial Sites and Parks	15.9	16.6%	16.9	17.6%	5.2	5.4%	22.1	23.1%	33.1	34.5%	2.6	2.7%	95.7
Business District Development	0.1	0.1%	1.7	2.2%	2.6	3.3%	32.5	40.6%	43.2	53.9%	0.0	0.0%	80.2
General Government	\$ 1.0	1.5%	\$ 0.7	1.0%	\$ 0.0	0.0%	\$ 38.0	54.5%	\$ 30.1	43.1%	\$ 0.0	0.0%	\$ 69.8
Public Buildings	1.0	1.9%	0.4	0.7%	0.0	0.0%	23.7	44.7%	28.0	52.7%	0.0	0.0%	53.1
Other Facilities	0.0	0.0%	0.3	1.9%	0.0	0.0%	14.3	85.4%	2.1	12.8%	0.0	0.0%	16.7
Grand Total	\$ 897.8	8.1%	\$ 4,216.5	38.1%	\$ 56.7	0.5%	\$ 2,693.8	24.3%	\$ 2,922.5	26.4%	\$ 279.7	2.5%	\$ 11,067.1

Building Tennessee's Tomorrow: Anticipating the State's Infrastructure Needs

July 2017 through June 2022

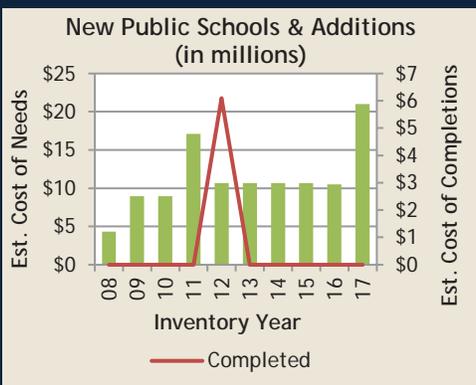
COUNTY SUMMARIES

The county summaries highlight the top three types of infrastructure based on total estimated cost needed in the county, broken down by whether it is needed locally or at the regional level. The estimated costs for all types of infrastructure are divided between conceptual projects and those that have moved into the planning and design stage or have started construction. The infrastructure needed at public school systems is also compared to student enrollment.

Anderson County

Total Estimated Cost* for Infrastructure Improvements
\$221,162,423

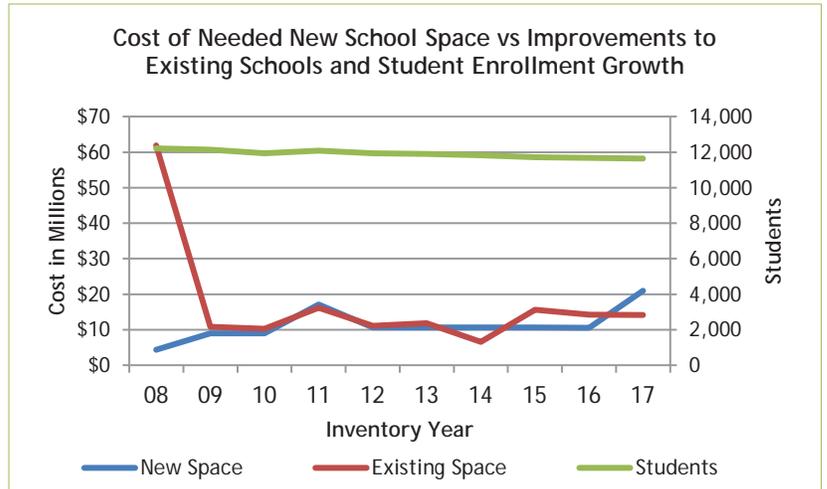
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Anderson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 58,889,000	\$ 37,720,631
Water and Wastewater	49,900,000	13,244,000
New Public Schools & Additions	11,000,000	10,000,000
Recreation	7,745,000	6,891,265
School Renovations	3,853,825	10,312,496
Community Development	3,474,000	-
Post-secondary Education	-	1,767,206
Public Health Facilities	1,250,000	-
Other Facilities	500,000	500,000
School-System-wide	1,000,000	-
Law Enforcement	800,000	-
Public Buildings	-	750,000
Solid Waste	-	565,000
Industrial Sites and Parks	500,000	-
Fire Protection	250,000	-
Other Utilities	-	250,000
Broadband	-	-
Business District Development	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Storm Water	-	-
Total	\$ 139,161,825	\$ 82,000,598



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Bedford County

Total Estimated Cost* for Infrastructure Improvements

\$366,675,785

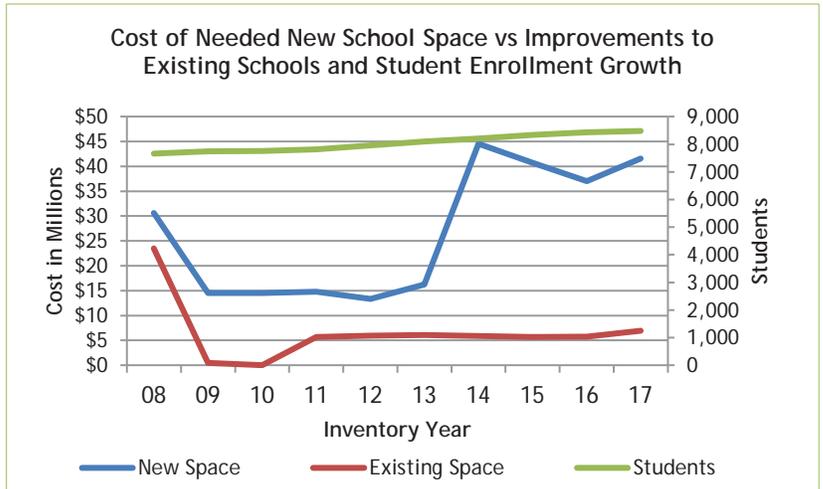
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Bedford County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 71,465,000	\$ 205,109,293
New Public Schools & Additions	16,197,192	25,400,000
Water and Wastewater	20,800,000	2,200,000
School Renovations	5,550,000	1,420,000
Public Buildings	-	6,110,000
Law Enforcement	5,710,000	-
Recreation	2,540,000	1,050,000
Fire Protection	1,200,000	424,300
Other Utilities	-	1,500,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 123,462,192	\$ 243,213,593



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Benton County

Total Estimated Cost* for Infrastructure Improvements

\$213,148,743

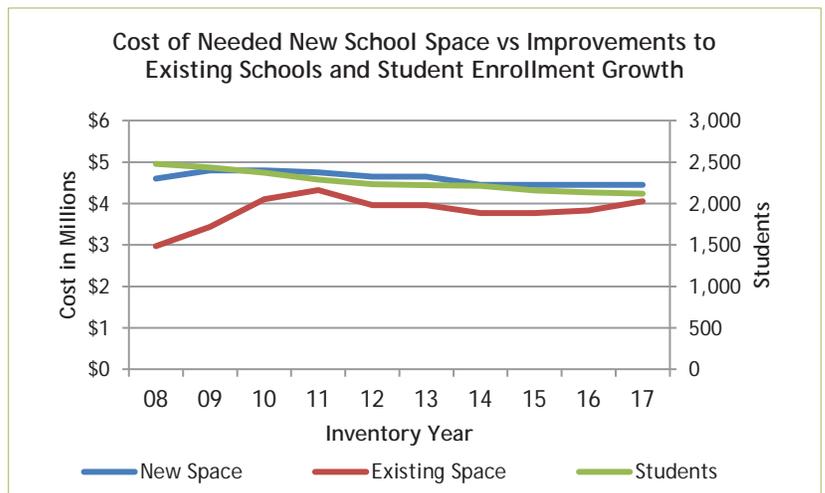
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Benton County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 126,511,000	\$ 66,165,455
Water and Wastewater	10,000,000	-
New Public Schools & Additions	4,450,000	-
School Renovations	3,262,000	793,288
Recreation	815,000	752,000
Public Buildings	75,000	325,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 145,113,000	\$ 68,035,743



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Bledsoe County

Total Estimated Cost* for Infrastructure Improvements

\$76,477,657

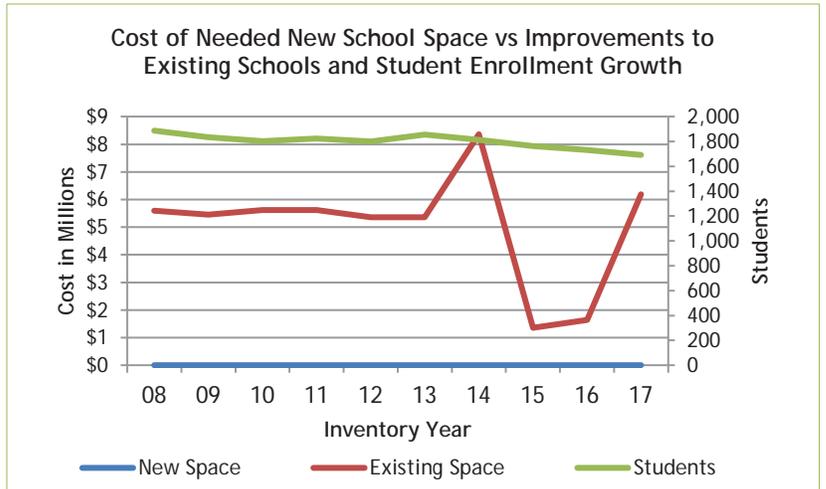
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Bledsoe County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Law Enforcement	\$ 4,000,000	\$ 41,500,000
Transportation	11,980,000	315,000
Public Health Facilities	-	9,387,657
School Renovations	5,615,000	580,000
Public Buildings	-	2,000,000
Water and Wastewater	-	600,000
Recreation	500,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 22,095,000	\$ 54,382,657



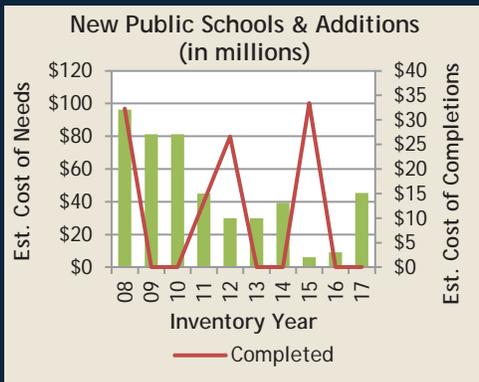
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Blount County

Total Estimated Cost* for Infrastructure Improvements

\$671,404,228

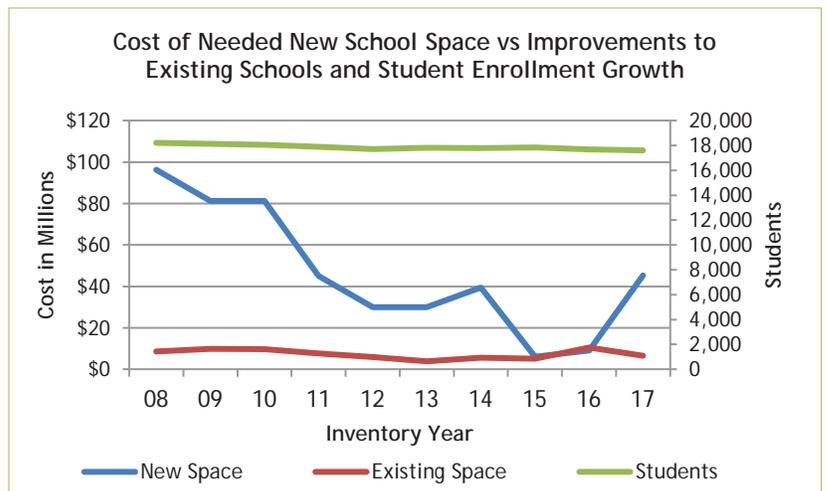
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Blount County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 96,456,780	\$ 444,182,019
New Public Schools & Additions	33,000,000	12,300,999
Recreation	26,075,470	7,065,117
Water and Wastewater	18,800,000	5,459,080
Post-secondary Education	16,955,000	1,400,000
School Renovations	3,985,000	2,517,963
Public Buildings	-	2,561,000
Other Facilities	-	338,800
Law Enforcement	-	240,000
Fire Protection	67,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 195,339,250	\$ 476,064,978



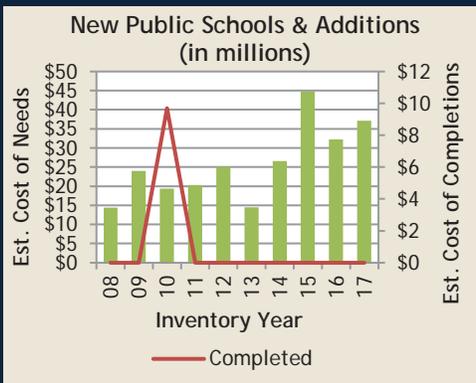
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Bradley County

Total Estimated Cost* for Infrastructure Improvements

\$378,504,162

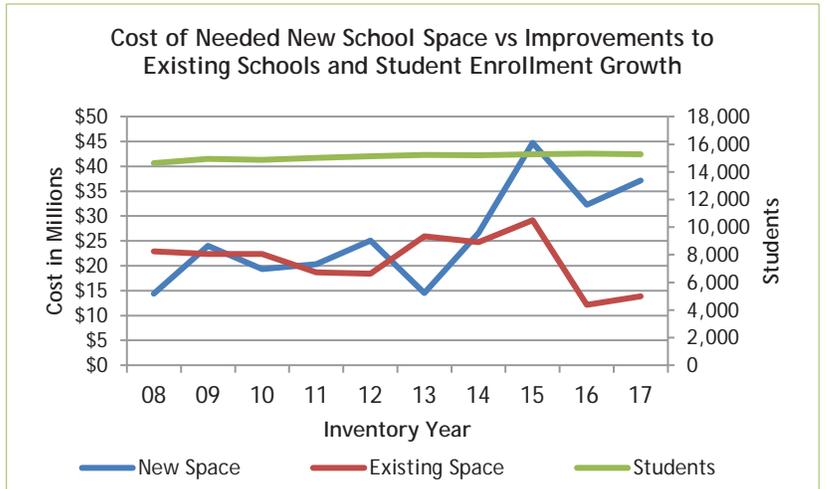
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Bradley County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 75,561,898	\$ 153,833,897
Public Health Facilities	-	40,500,000
New Public Schools & Additions	1,875,000	35,275,500
Water and Wastewater	6,614,000	10,455,000
School-System-wide	-	16,000,000
School Renovations	5,464,000	8,419,000
Industrial Sites and Parks	-	6,000,000
Post-secondary Education	750,000	2,788,167
Recreation	100,000	3,324,349
Fire Protection	-	3,111,071
Other Facilities	3,000,000	-
Community Development	2,500,000	152,280
Public Buildings	-	2,000,000
Libraries, Museums, & Historic Sites	780,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Law Enforcement	-	-
Other Education	-	-
Other Utilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 96,644,898	\$ 281,859,264



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Campbell County

Total Estimated Cost* for Infrastructure Improvements
\$183,126,871

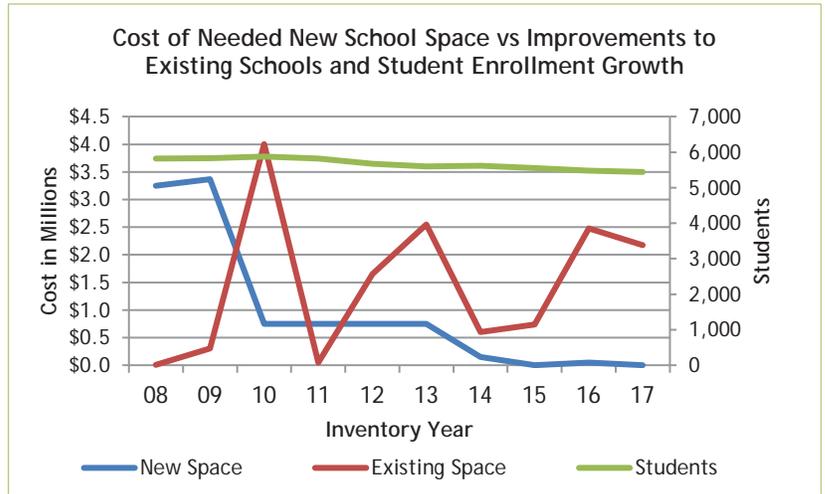
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Campbell County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 49,420,000	\$ 107,437,871
Water and Wastewater	3,950,000	6,014,000
Industrial Sites and Parks	1,500,000	3,180,000
Broadband	1,000,000	2,400,000
Recreation	2,480,000	170,000
School Renovations	65,000	2,110,000
Public Buildings	2,000,000	-
Fire Protection	700,000	-
Other Utilities	-	600,000
Community Development	100,000	-
Business District Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 61,215,000	\$ 121,911,871



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Cannon County

Total Estimated Cost* for Infrastructure Improvements

\$92,674,031

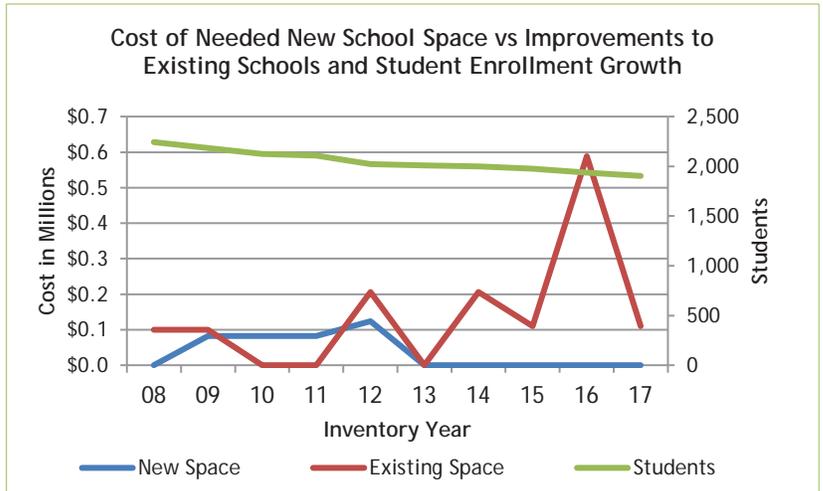
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Cannon County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 83,089,000	\$ 475,000
Water and Wastewater	6,000,000	-
Industrial Sites and Parks	3,000,000	-
School Renovations	-	110,031
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 92,089,000	\$ 585,031



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Carroll County

Total Estimated Cost* for Infrastructure Improvements

\$120,904,823

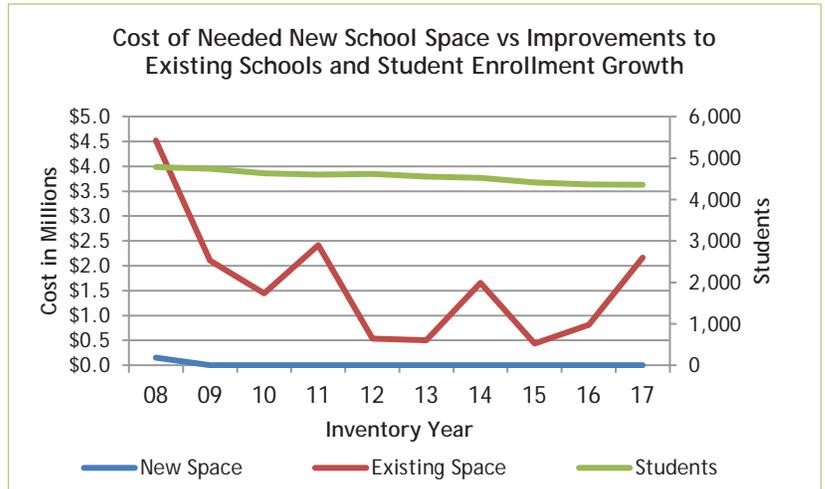
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Carroll County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 44,572,000	\$ 66,749,174
Water and Wastewater	1,933,000	583,333
School Renovations	2,000,000	167,316
Recreation	1,225,000	576,000
Public Buildings	1,500,000	-
Storm Water	500,000	-
Fire Protection	400,000	-
Other Facilities	375,000	-
Law Enforcement	-	324,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 52,505,000	\$ 68,399,823



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Carter County

Total Estimated Cost* for Infrastructure Improvements

\$212,187,932

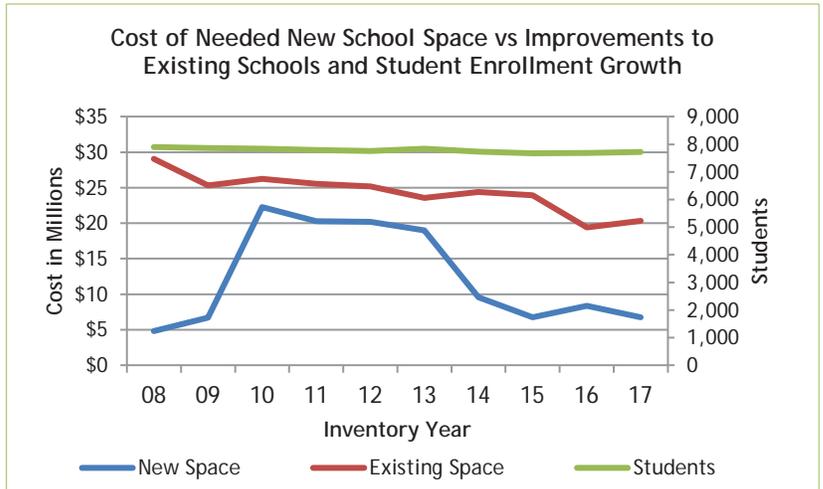
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Carter County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 84,190,000	\$ 29,524,634
Recreation	7,445,000	21,349,800
Water and Wastewater	22,354,566	801,364
School Renovations	17,749,650	2,598,869
New Public Schools & Additions	6,700,000	60,000
Post-secondary Education	2,050,000	3,637,049
Law Enforcement	570,000	2,700,000
Housing	1,200,000	1,750,000
Fire Protection	2,250,000	-
Libraries, Museums, & Historic Sites	1,910,000	-
Public Health Facilities	-	1,000,000
Solid Waste	950,000	-
Industrial Sites and Parks	697,000	-
Business District Development	-	500,000
Public Buildings	200,000	-
Broadband	-	-
Community Development	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 148,266,216	\$ 63,921,716



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Cheatham County

Total Estimated Cost* for Infrastructure Improvements

\$151,288,959

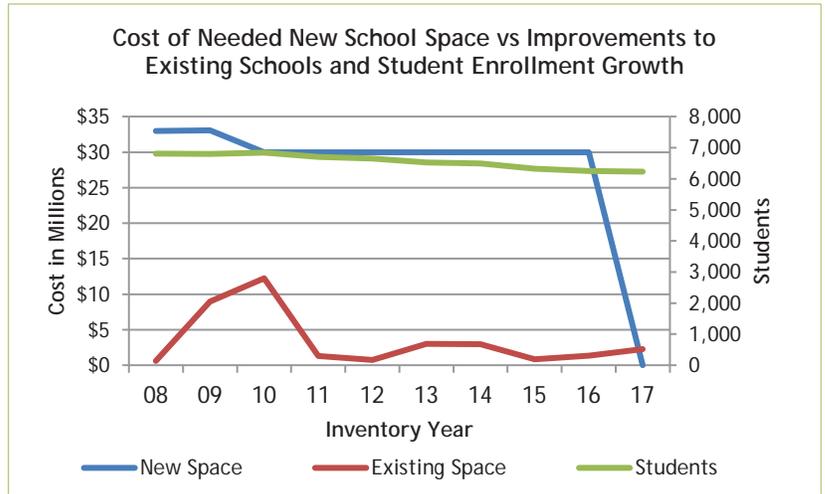
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Cheatham County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 41,911,000	\$ 45,905,895
Water and Wastewater	4,750,000	14,707,000
Recreation	12,665,295	2,548,059
Law Enforcement	-	12,000,000
Public Buildings	1,600,000	5,000,000
Community Development	3,000,000	-
School Renovations	1,162,000	1,109,000
Industrial Sites and Parks	2,100,000	-
Fire Protection	300,000	780,710
Libraries, Museums, & Historic Sites	1,000,000	-
Business District Development	500,000	-
Storm Water	200,000	-
Other Facilities	50,000	-
Broadband	-	-
Housing	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 69,238,295	\$ 82,050,664



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Chester County

Total Estimated Cost* for Infrastructure Improvements

\$50,210,615

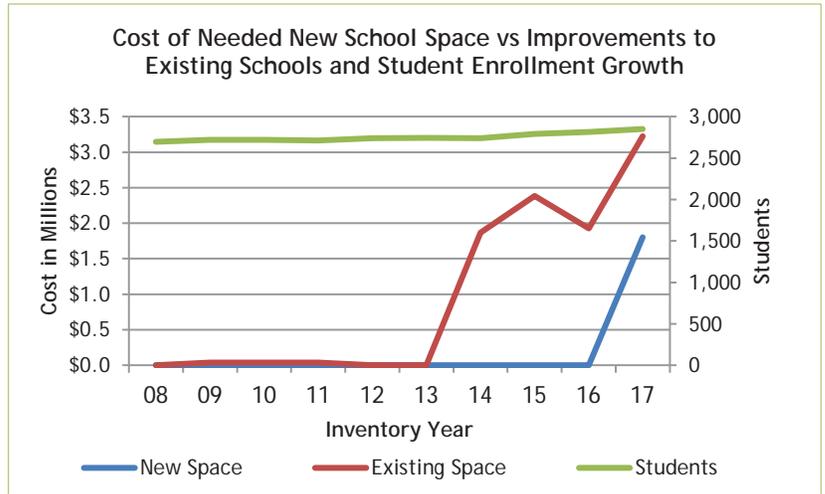
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Chester County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 24,685,000	\$ 5,150,865
Water and Wastewater	6,900,000	250,000
Recreation	1,900,000	3,845,000
School Renovations	3,094,750	130,000
New Public Schools & Additions	-	1,800,000
Other Facilities	1,335,000	-
Law Enforcement	1,120,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 39,034,750	\$ 11,175,865



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Claiborne County

Total Estimated Cost* for Infrastructure Improvements
\$106,495,380

TOP 3

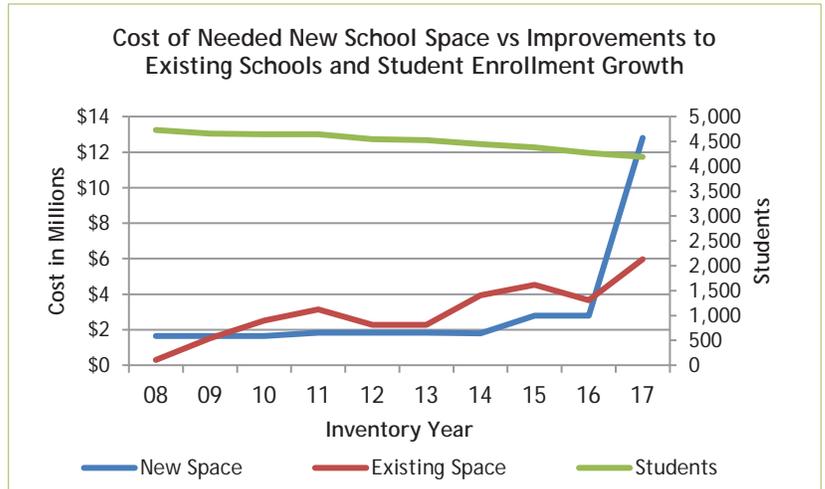


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Claiborne County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 25,705,000	\$ 43,443,844
New Public Schools & Additions	12,800,000	-
Water and Wastewater	9,949,720	1,220,000
School Renovations	5,118,740	847,000
Recreation	-	3,257,821
Law Enforcement	1,220,000	-
Business District Development	400,000	583,255
Post-secondary Education	950,000	-
Fire Protection	500,000	-
Public Buildings	500,000	-
Broadband	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 57,143,460	\$ 49,351,920



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Clay County

Total Estimated Cost* for Infrastructure Improvements

\$30,162,659

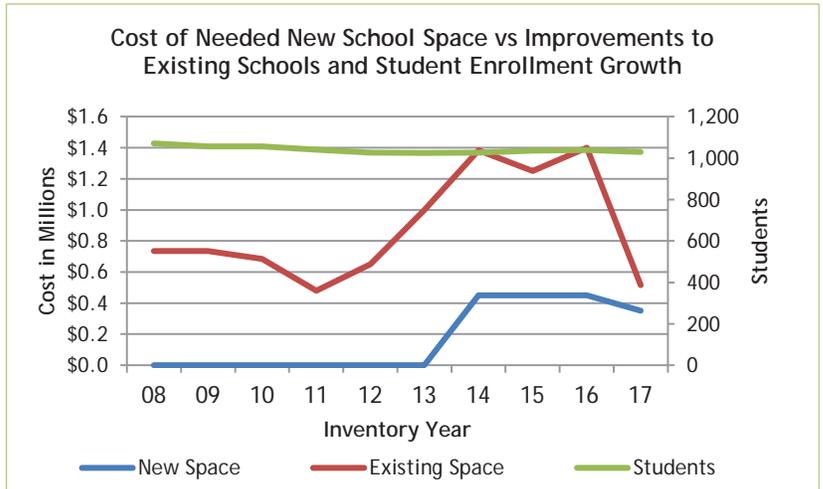
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Clay County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 6,787,000	\$ 3,390,295
Water and Wastewater	300,000	6,620,364
Law Enforcement	-	5,000,000
Other Utilities	5,000,000	-
Industrial Sites and Parks	1,200,000	500,000
School Renovations	515,000	-
Solid Waste	-	500,000
New Public Schools & Additions	350,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 14,152,000	\$ 16,010,659



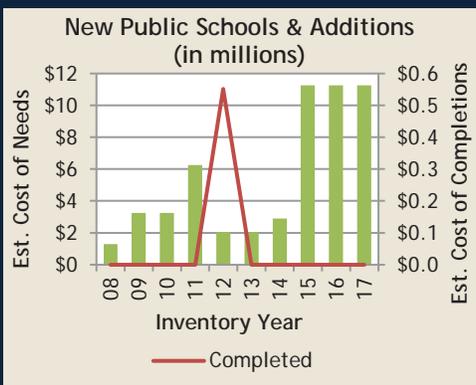
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Cocke County

Total Estimated Cost* for Infrastructure Improvements

\$333,330,057

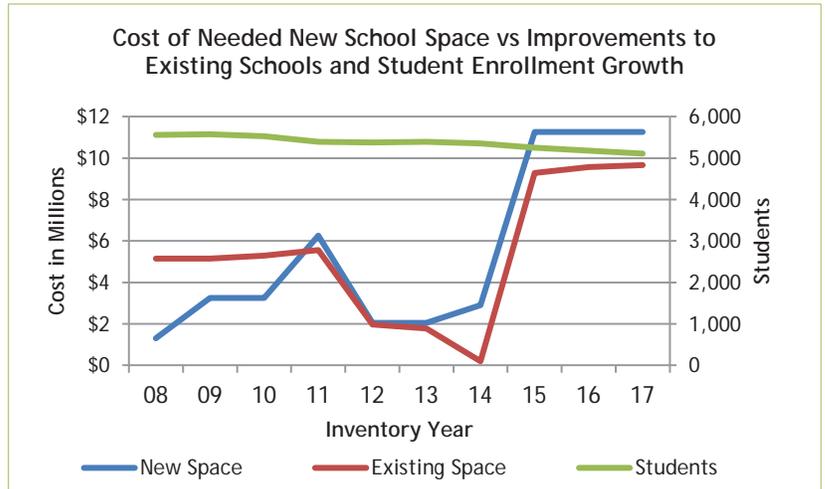
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Cocke County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 70,486,000	\$ 201,917,690
Water and Wastewater	20,630,000	2,758,000
New Public Schools & Additions	7,676,000	3,590,000
School Renovations	8,456,000	1,208,807
Broadband	-	7,000,000
Other Utilities	2,900,000	3,200,000
Law Enforcement	3,000,000	-
Recreation	-	507,560
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 113,148,000	\$ 220,182,057



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Coffee County

Total Estimated Cost* for Infrastructure Improvements

\$191,719,188

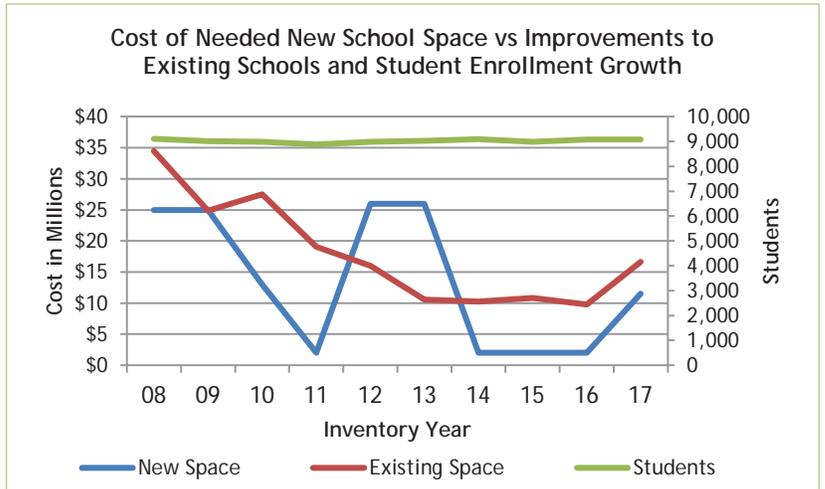
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Coffee County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 71,606,000	\$ 37,443,188
Law Enforcement	37,500,000	590,000
School Renovations	10,500,000	6,150,000
New Public Schools & Additions	11,000,000	500,000
Water and Wastewater	4,500,000	5,790,000
Public Buildings	3,180,000	-
Recreation	2,460,000	-
Industrial Sites and Parks	500,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 141,246,000	\$ 50,473,188



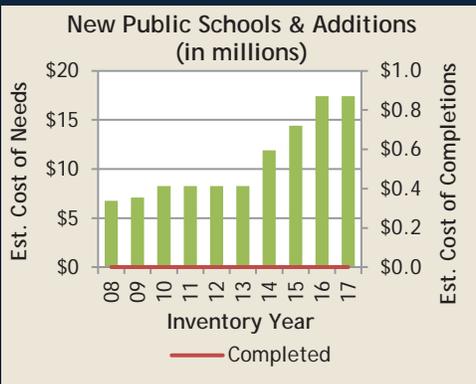
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Crockett County

Total Estimated Cost* for Infrastructure Improvements

\$53,427,941

TOP 3

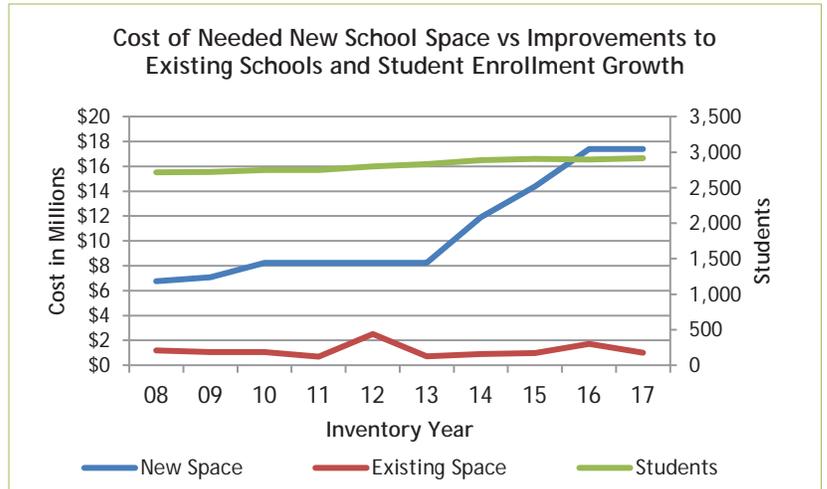


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Crockett County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 26,843,000	\$ 2,957,215
New Public Schools & Additions	17,400,000	-
Water and Wastewater	2,622,726	-
Recreation	1,100,000	-
School Renovations	740,000	265,000
Public Buildings	200,000	800,000
Community Development	500,000	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 49,405,726	\$ 4,022,215



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Cumberland County

Total Estimated Cost* for Infrastructure Improvements

\$501,807,702

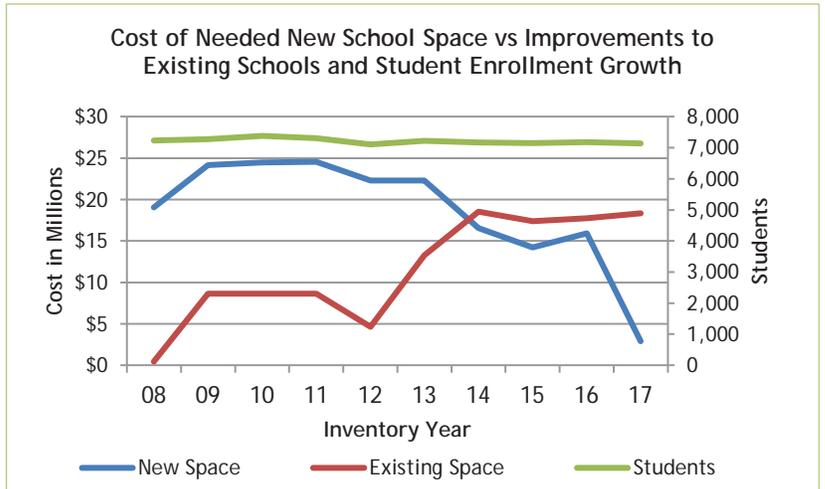
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Cumberland County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 37,320,000	\$ 337,192,702
Water and Wastewater	-	69,450,000
Industrial Sites and Parks	-	18,500,000
School Renovations	12,795,000	5,550,000
Recreation	6,510,000	1,270,000
Business District Development	-	6,000,000
New Public Schools & Additions	2,000,000	900,000
Post-secondary Education	2,520,000	-
Other Utilities	-	1,500,000
Storm Water	-	300,000
Broadband	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 61,145,000	\$ 440,662,702



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Davidson County

**Total Estimated Cost* for
Infrastructure Improvements**
\$8,230,033,464

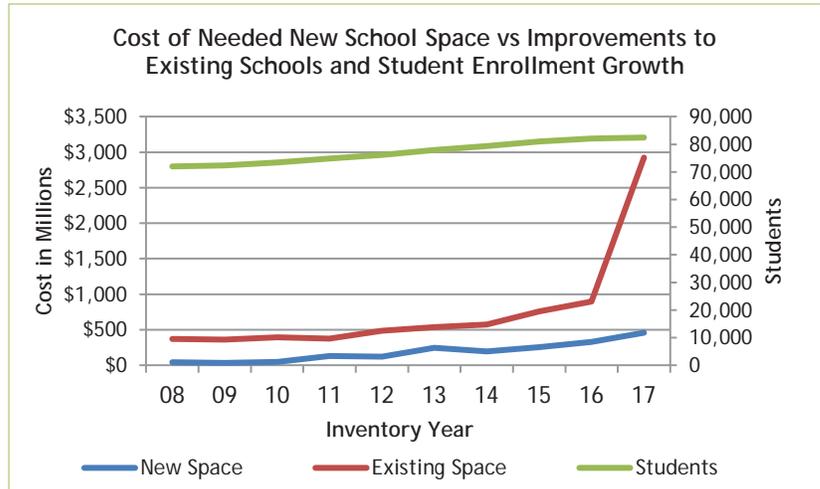
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Davidson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
School Renovations	\$ 2,717,049,000	\$ 207,281,200
Transportation	653,752,000	1,009,449,142
Water and Wastewater	7,624,000	1,197,471,300
Law Enforcement	319,540,000	241,090,000
New Public Schools & Additions	433,566,000	26,200,000
Libraries, Museums, & Historic Sites	40,783,000	311,265,000
Public Buildings	81,580,000	257,098,170
Post-secondary Education	266,320,000	69,040,399
Storm Water	-	100,000,000
Public Health Facilities	55,962,000	12,308,000
Housing	-	54,497,878
Recreation	2,130,000	46,900,000
Business District Development	12,000,000	35,500,000
Other Facilities	30,475,000	6,061,375
Other Education	14,870,000	5,420,000
Community Development	-	14,800,000
Broadband	-	-
Fire Protection	-	-
Industrial Sites and Parks	-	-
Other Utilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 4,635,651,000	\$ 3,594,382,464



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Decatur County

Total Estimated Cost* for Infrastructure Improvements

\$90,301,600

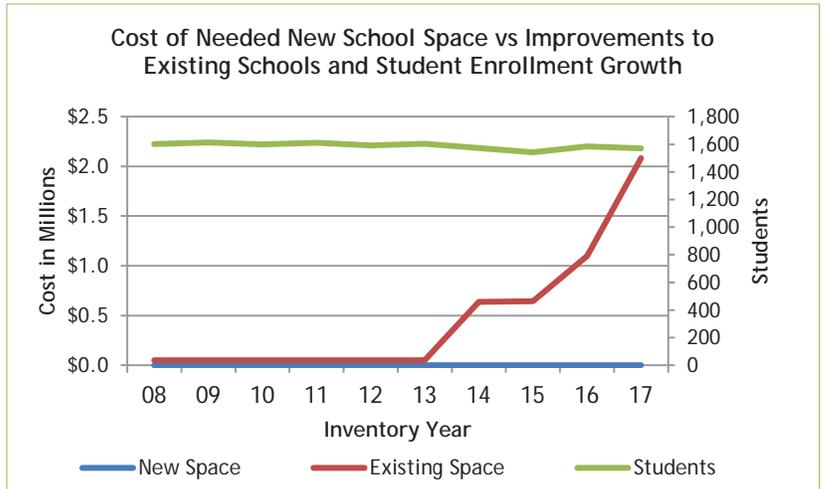
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Decatur County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 84,214,000	\$ 3,254,900
School Renovations	2,082,700	-
Storm Water	750,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Solid Waste	-	-
Water and Wastewater	-	-
Total	\$ 87,046,700	\$ 3,254,900



*Total Estimated Cost = Conceptual + Planning & Design + Construction

DeKalb County

Total Estimated Cost* for Infrastructure Improvements

\$153,454,370

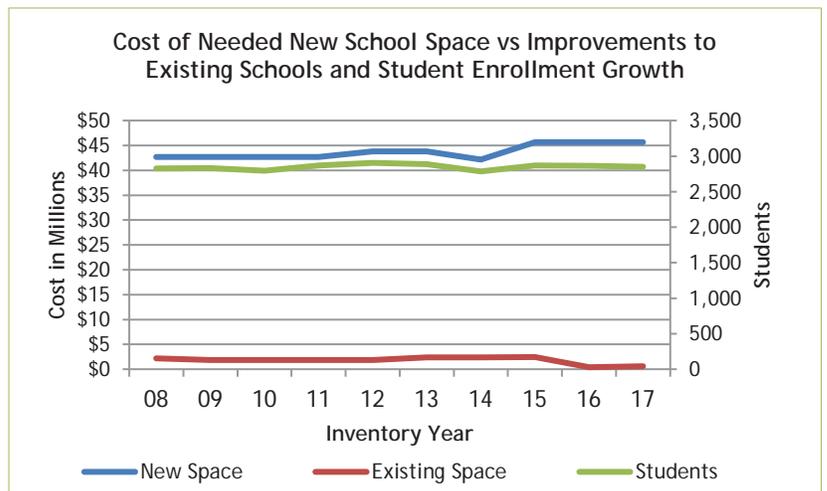
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for DeKalb County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 15,709,000	\$ 83,301,080
New Public Schools & Additions	3,660,000	42,000,000
Industrial Sites and Parks	3,250,000	-
Recreation	330,000	2,200,000
Water and Wastewater	550,000	1,550,290
School Renovations	325,000	304,000
School-System-wide	200,000	-
Fire Protection	-	75,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 24,024,000	\$ 129,430,370



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Dickson County

Total Estimated Cost* for Infrastructure Improvements

\$237,402,394

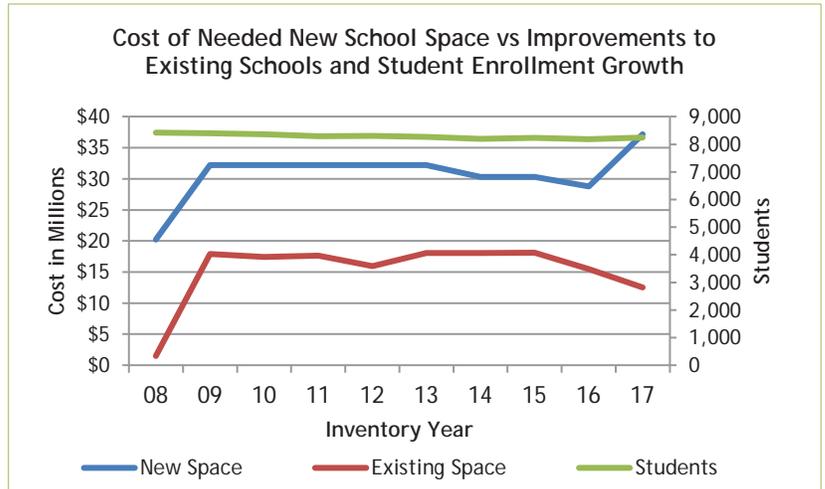
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Dickson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 77,281,000	\$ 43,425,614
New Public Schools & Additions	2,189,620	34,951,000
Public Buildings	31,000,000	3,550,000
Recreation	14,710,000	3,000,000
School Renovations	6,948,948	5,593,717
Water and Wastewater	-	6,400,000
Solid Waste	3,000,000	-
Business District Development	-	2,667,495
Fire Protection	1,000,000	685,000
Post-secondary Education	-	550,000
Community Development	-	450,000
Broadband	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 136,129,568	\$ 101,272,826



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Dyer County

Total Estimated Cost* for Infrastructure Improvements

\$326,408,676

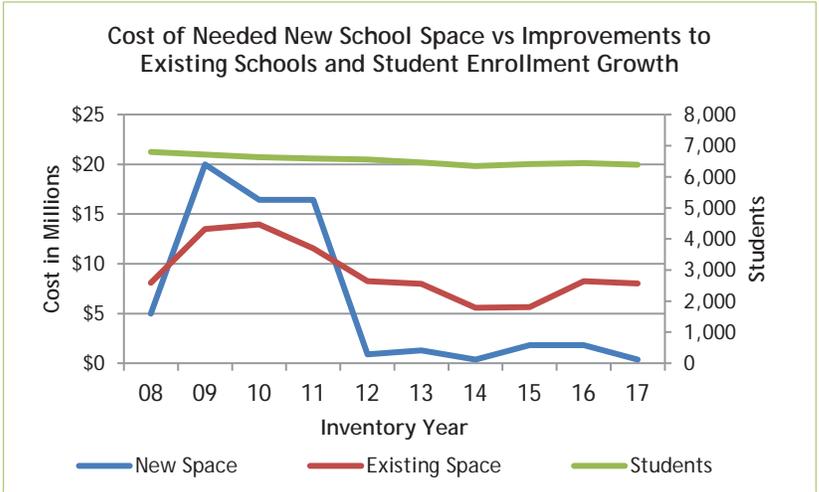
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- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Dyer County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 111,037,000	\$ 185,597,028
School Renovations	2,560,000	5,446,000
Water and Wastewater	4,950,000	3,000,000
Recreation	150,000	4,200,000
Post-secondary Education	-	2,882,648
Public Buildings	2,006,000	-
Fire Protection	1,250,000	-
Other Facilities	1,100,000	-
Law Enforcement	1,000,000	-
Community Development	800,000	-
New Public Schools & Additions	380,000	-
Solid Waste	50,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 125,283,000	\$ 201,125,676



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Fayette County

Total Estimated Cost* for Infrastructure Improvements

\$243,142,098

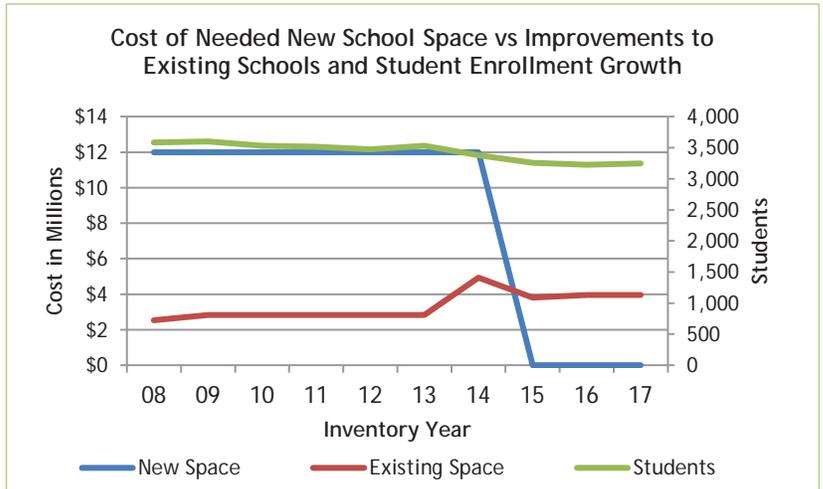
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Fayette County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 98,586,500	\$ 117,104,266
Water and Wastewater	13,080,365	1,369,839
Law Enforcement	-	4,210,000
School Renovations	3,960,000	-
Post-secondary Education	-	2,631,908
Recreation	725,000	-
Other Utilities	-	524,534
Housing	200,000	230,000
Fire Protection	300,000	-
Community Development	-	219,686
Broadband	-	-
Business District Development	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 116,851,865	\$ 126,290,233



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Fentress County

Total Estimated Cost* for Infrastructure Improvements

\$139,581,355

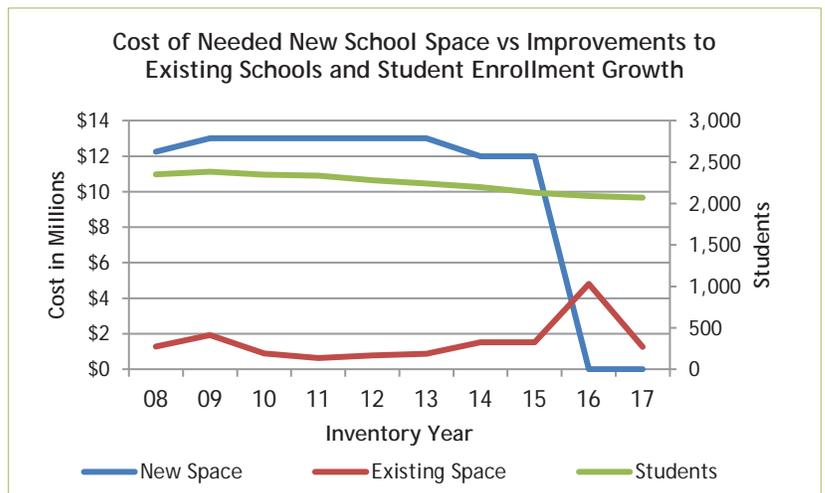
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Fentress County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 31,705,000	\$ 75,541,555
Other Education	14,680,000	1,890,000
Water and Wastewater	-	5,575,000
Industrial Sites and Parks	-	5,000,000
Recreation	2,380,000	492,000
School Renovations	815,000	450,000
Libraries, Museums, & Historic Sites	400,000	-
Other Facilities	-	352,800
Community Development	300,000	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 50,280,000	\$ 89,301,355



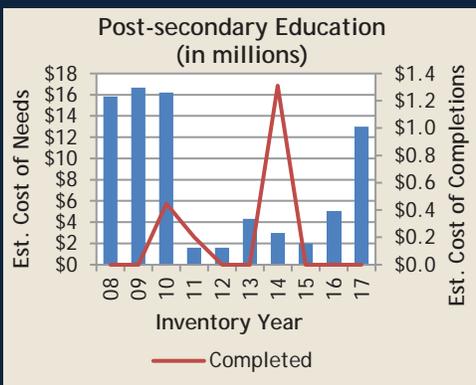
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Franklin County

Total Estimated Cost* for Infrastructure Improvements

\$123,936,160

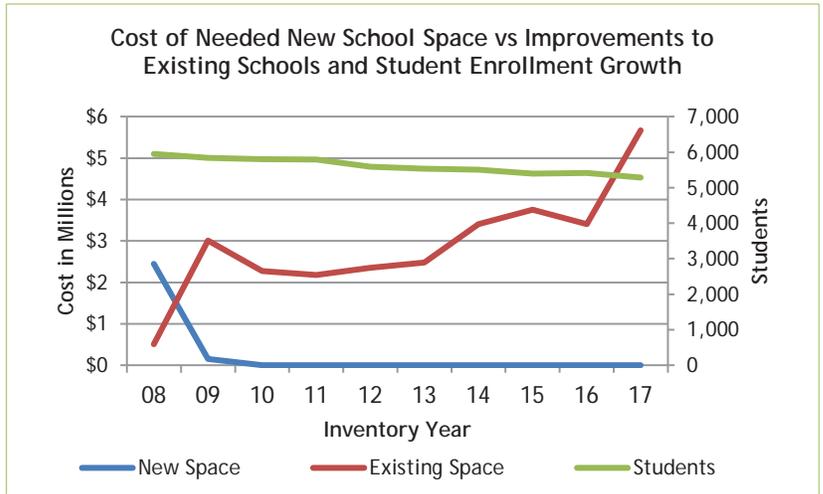
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Franklin County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 39,284,000	\$ 38,941,993
Water and Wastewater	1,250,000	17,000,000
Post-secondary Education	8,000,000	5,000,000
School Renovations	5,668,500	-
Recreation	5,100,000	-
Industrial Sites and Parks	-	3,429,667
Fire Protection	-	262,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 59,302,500	\$ 64,633,660



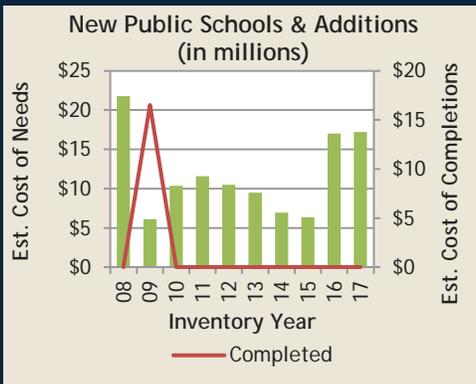
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Gibson County

Total Estimated Cost* for Infrastructure Improvements

\$149,497,817

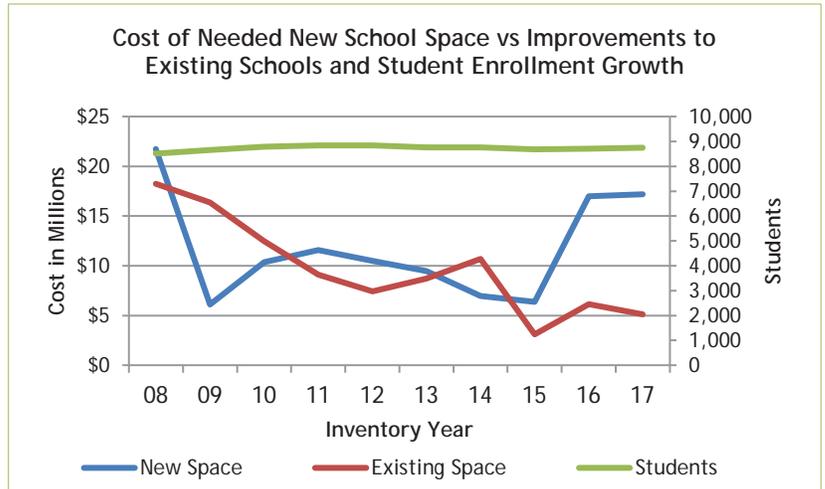
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Gibson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 78,771,000	\$ 24,502,943
New Public Schools & Additions	-	17,200,000
Water and Wastewater	3,770,000	12,365,032
School Renovations	4,161,442	960,000
Other Facilities	2,040,000	-
Recreation	1,131,000	500,000
Fire Protection	1,300,000	-
Law Enforcement	150,000	740,000
Community Development	500,000	-
Libraries, Museums, & Historic Sites	400,000	-
Industrial Sites and Parks	-	356,400
Public Buildings	300,000	-
Storm Water	300,000	-
Solid Waste	50,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Total	\$ 92,873,442	\$ 56,624,375



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Giles County

Total Estimated Cost* for Infrastructure Improvements
\$127,053,985

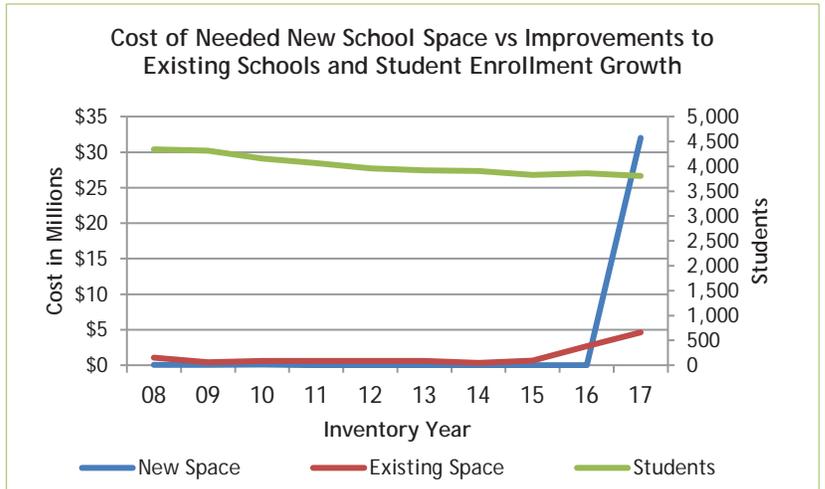
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Giles County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 48,725,000	\$ 27,830,385
New Public Schools & Additions	32,000,000	-
School Renovations	4,224,250	403,000
Water and Wastewater	400,000	3,710,000
Recreation	3,140,000	400,000
Post-secondary Education	-	3,171,350
Law Enforcement	2,000,000	-
Public Buildings	750,000	250,000
Community Development	-	50,000
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 91,239,250	\$ 35,814,735



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Grainger County

Total Estimated Cost* for Infrastructure Improvements

\$110,070,227

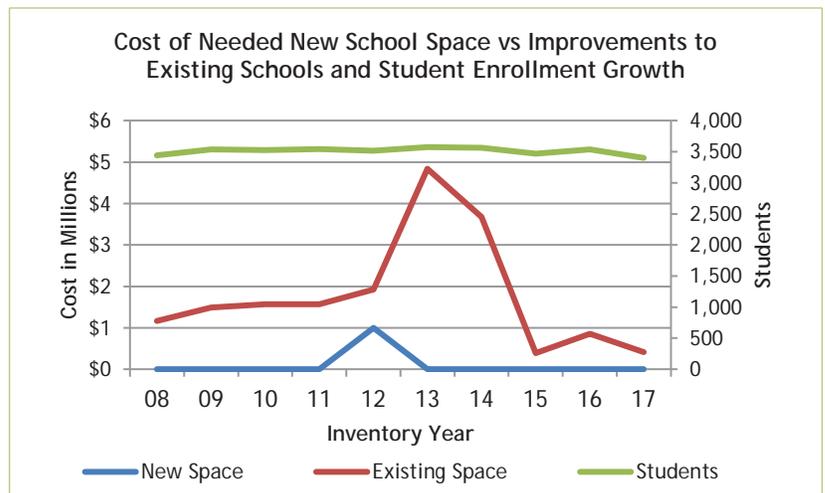
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Grainger County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 22,213,000	\$ 75,193,023
Water and Wastewater	10,920,700	-
Recreation	175,000	550,000
Libraries, Museums, & Historic Sites	500,000	-
School Renovations	210,000	200,000
Community Development	-	108,504
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 34,018,700	\$ 76,051,527



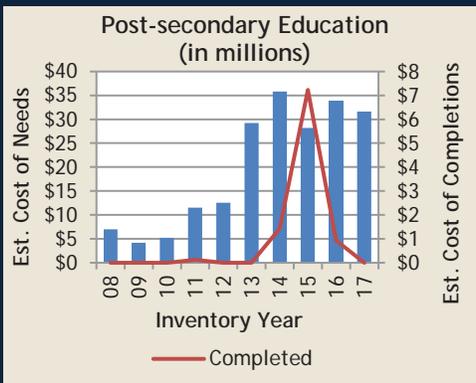
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Greene County

Total Estimated Cost* for Infrastructure Improvements

\$388,921,078

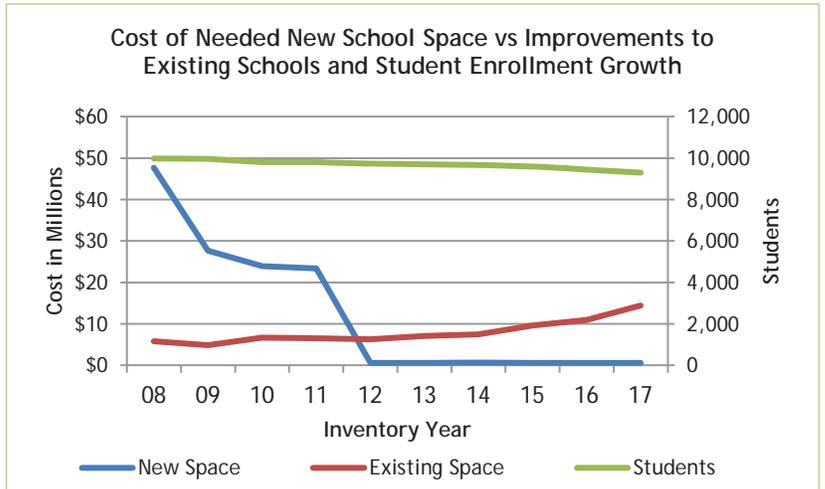
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Greene County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 110,669,000	\$ 82,661,101
Water and Wastewater	62,170,340	12,390,423
Post-secondary Education	950,000	30,650,000
Storm Water	25,500,000	100,000
School Renovations	12,157,000	2,261,714
Law Enforcement	12,000,000	1,700,000
Public Health Facilities	11,300,000	-
Other Utilities	2,800,000	8,300,000
Fire Protection	2,000,000	1,500,000
Recreation	520,000	2,189,500
Libraries, Museums, & Historic Sites	-	2,320,000
Community Development	1,500,000	500,000
Public Buildings	679,000	150,000
Other Facilities	450,000	350,000
New Public Schools & Additions	600,000	-
Housing	-	500,000
Broadband	-	53,000
Business District Development	-	-
Industrial Sites and Parks	-	-
Other Education	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 243,295,340	\$ 145,625,738



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Grundy County

Total Estimated Cost* for Infrastructure Improvements

\$46,218,226

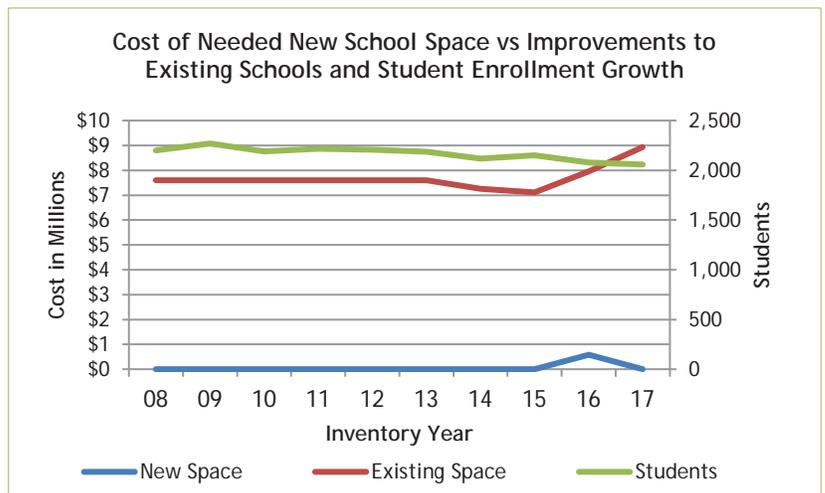
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Grundy County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Recreation	\$ 15,950,000	\$ 1,062,377
Transportation	8,065,000	1,069,461
School Renovations	7,950,000	985,000
Water and Wastewater	4,075,000	3,718,100
Community Development	250,000	840,000
Law Enforcement	-	850,000
Industrial Sites and Parks	600,000	-
Fire Protection	400,000	-
Other Utilities	-	170,000
Libraries, Museums, & Historic Sites	150,000	-
Public Buildings	-	83,288
Broadband	-	-
Business District Development	-	-
Housing	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 37,440,000	\$ 8,778,226



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hamblen County

Total Estimated Cost* for Infrastructure Improvements

\$386,992,463

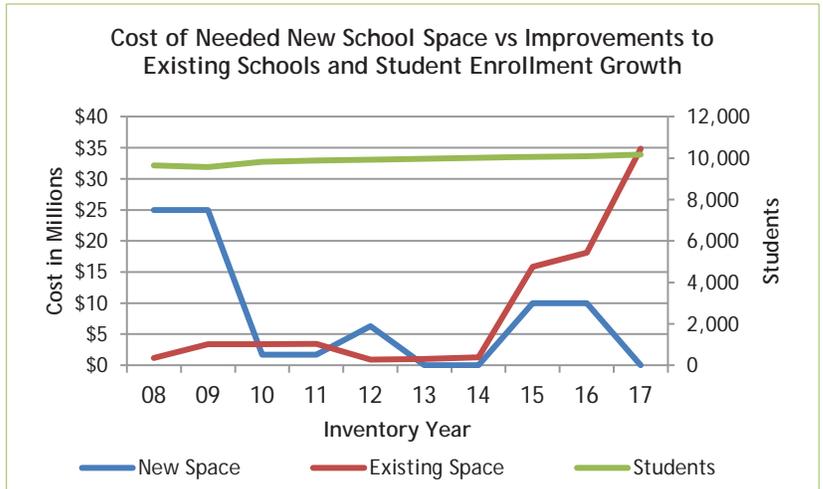
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hamblen County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 90,412,000	\$ 173,187,712
School Renovations	21,580,000	13,272,000
Law Enforcement	30,000,000	130,000
Water and Wastewater	-	19,910,000
Recreation	5,830,000	9,451,035
Community Development	-	12,000,000
Other Facilities	-	4,500,000
Post-secondary Education	-	4,069,716
Fire Protection	-	2,200,000
Business District Development	-	450,000
Broadband	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 147,822,000	\$ 239,170,463

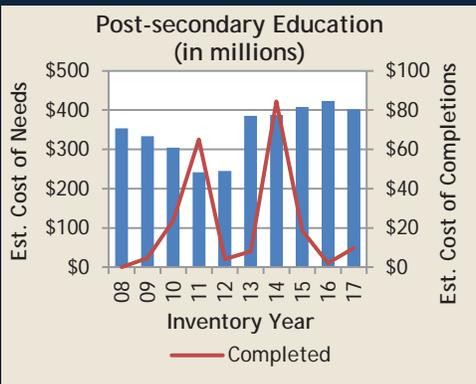


*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hamilton County

Total Estimated Cost* for Infrastructure Improvements
\$2,951,477,045

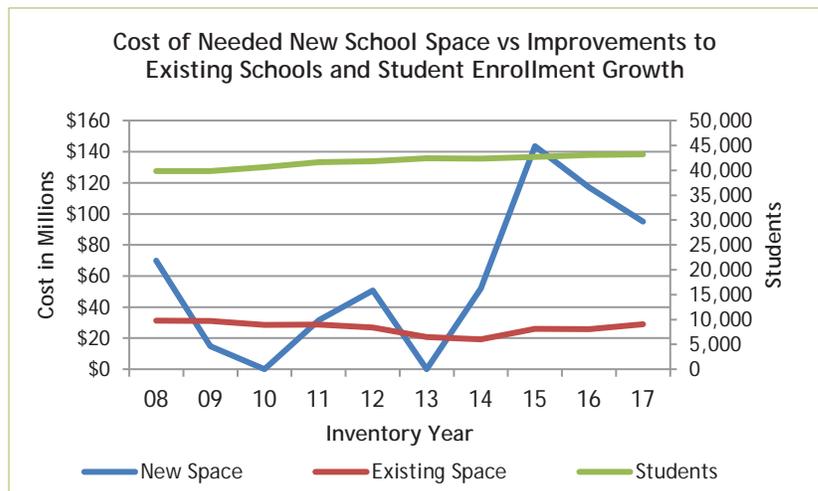
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hamilton County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 417,154,000	\$ 1,700,106,918
Post-secondary Education	173,105,000	228,702,321
Water and Wastewater	22,947,000	168,714,476
New Public Schools & Additions	95,000,000	-
Law Enforcement	26,550,000	6,212,600
School Renovations	19,380,000	9,628,000
Recreation	11,432,856	9,860,601
Community Development	3,600,000	12,152,463
Public Health Facilities	9,950,000	2,250,000
Fire Protection	1,000,000	7,476,310
Public Buildings	6,940,000	725,000
Storm Water	6,264,000	1,350,200
Business District Development	-	4,200,000
Solid Waste	-	3,005,300
Other Facilities	-	1,850,000
Libraries, Museums, & Historic Sites	300,000	1,100,000
Industrial Sites and Parks	520,000	-
Broadband	-	-
Housing	-	-
Other Education	-	-
Other Utilities	-	-
School-System-wide	-	-
Total	\$ 794,142,856	\$ 2,157,334,189



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hancock County

Total Estimated Cost* for Infrastructure Improvements

\$40,585,851

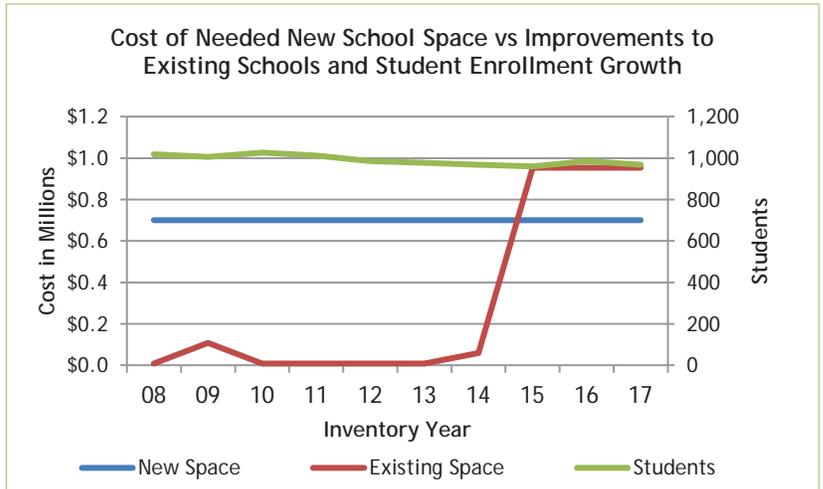
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hancock County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 25,318,000	\$ 731,000
Water and Wastewater	5,584,625	1,467,555
Recreation	2,075,000	-
Industrial Sites and Parks	-	2,059,000
Public Buildings	1,500,000	122,000
School Renovations	895,271	58,400
New Public Schools & Additions	-	700,000
Other Utilities	75,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 35,447,896	\$ 5,137,955



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hardeman County

Total Estimated Cost* for Infrastructure Improvements

\$155,776,076

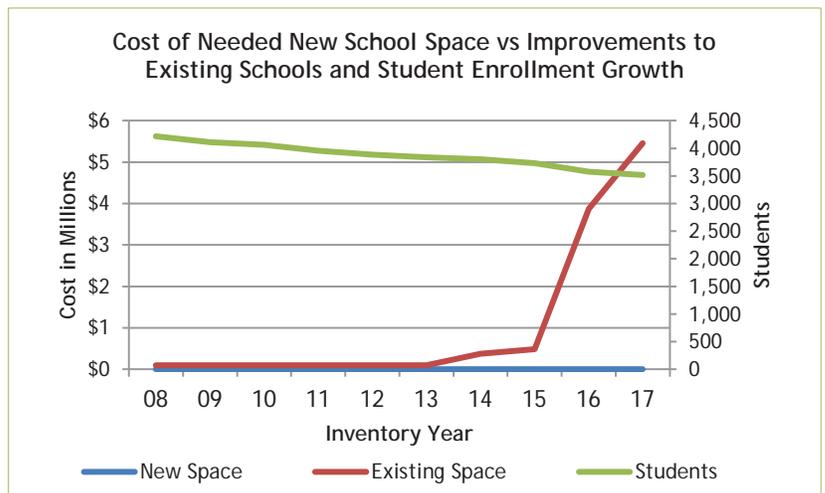
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hardeman County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 64,540,000	\$ 62,460,316
Public Health Facilities	19,000,000	-
School Renovations	150,000	5,306,000
Water and Wastewater	950,000	249,760
Law Enforcement	1,000,000	-
Fire Protection	950,000	-
Public Buildings	-	750,000
Recreation	300,000	-
Post-secondary Education	120,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 87,010,000	\$ 68,766,076



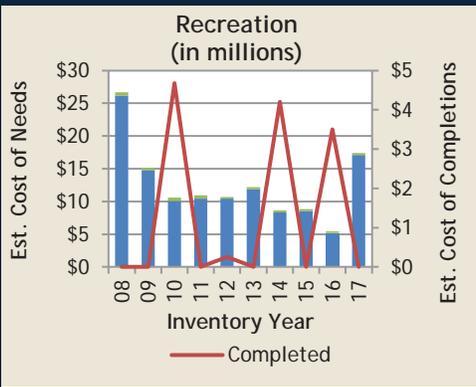
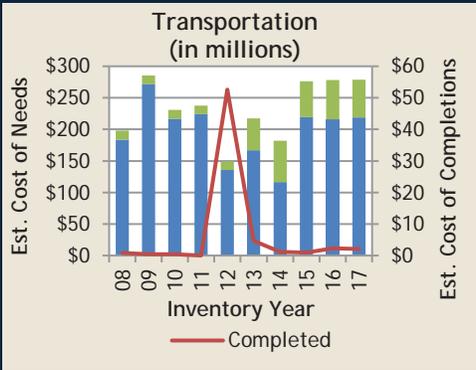
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hardin County

Total Estimated Cost* for Infrastructure Improvements

\$303,610,392

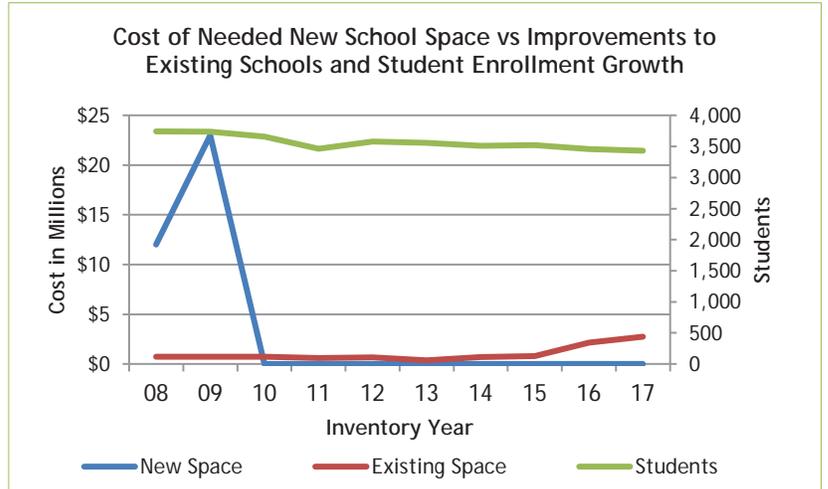
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hardin County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 151,529,000	\$ 127,016,583
Recreation	16,995,000	400,000
School Renovations	2,300,000	446,006
Water and Wastewater	605,000	2,104,423
Industrial Sites and Parks	1,000,000	-
Business District Development	500,000	150,000
Fire Protection	350,000	-
Post-secondary Education	-	114,380
Libraries, Museums, & Historic Sites	100,000	-
Broadband	-	-
Community Development	-	-
Housing	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 173,379,000	\$ 130,231,392



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hawkins County

Total Estimated Cost* for Infrastructure Improvements

\$207,113,134

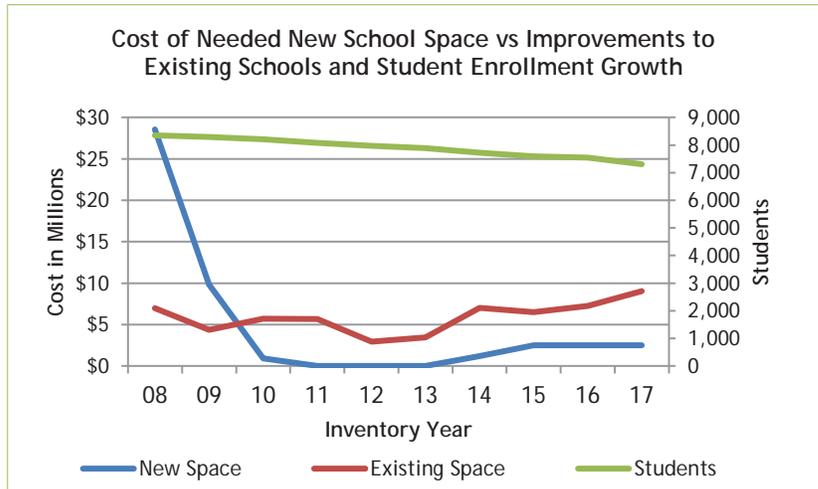
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hawkins County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 102,807,000	\$ 44,717,299
Water and Wastewater	26,798,200	9,800,050
School Renovations	5,838,000	3,194,585
Community Development	3,000,000	1,700,000
New Public Schools & Additions	2,500,000	-
Other Utilities	1,750,000	500,000
Recreation	600,000	1,233,000
Fire Protection	875,000	200,000
Housing	100,000	500,000
Other Facilities	550,000	-
Law Enforcement	450,000	-
Broadband	-	-
Business District Development	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 145,268,200	\$ 61,844,934



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Haywood County

Total Estimated Cost* for Infrastructure Improvements
\$167,467,566

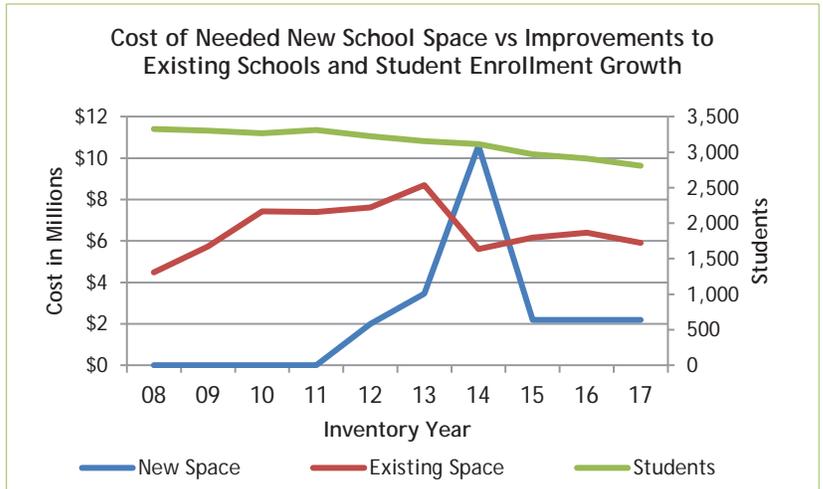
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Haywood County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 81,038,000	\$ 74,651,866
School Renovations	4,923,000	989,700
Water and Wastewater	3,500,000	-
New Public Schools & Additions	2,190,000	-
Recreation	175,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 91,826,000	\$ 75,641,566



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Henderson County

Total Estimated Cost* for Infrastructure Improvements

\$140,682,775

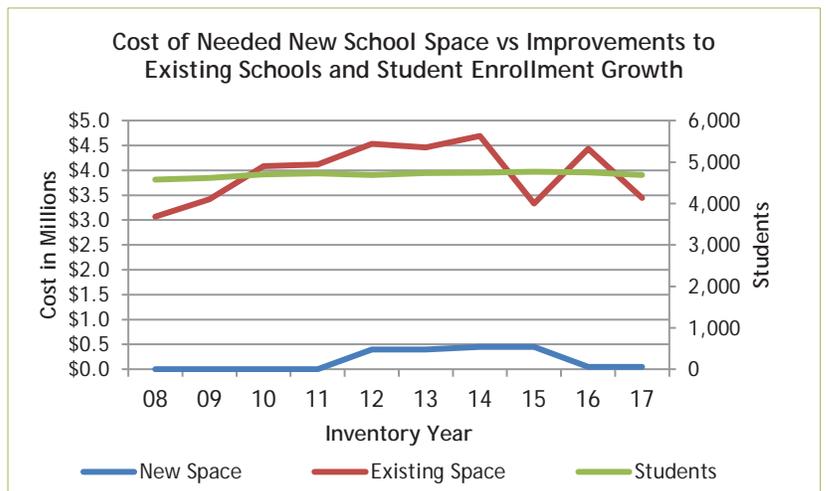
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Henderson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 40,585,000	\$ 86,874,030
Community Development	5,000,000	-
School Renovations	545,000	2,899,995
Recreation	3,400,000	-
Law Enforcement	-	710,000
Libraries, Museums, & Historic Sites	-	318,750
Industrial Sites and Parks	-	150,000
Water and Wastewater	150,000	-
New Public Schools & Additions	50,000	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 49,730,000	\$ 90,952,775



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Henry County

Total Estimated Cost* for Infrastructure Improvements

\$122,690,450

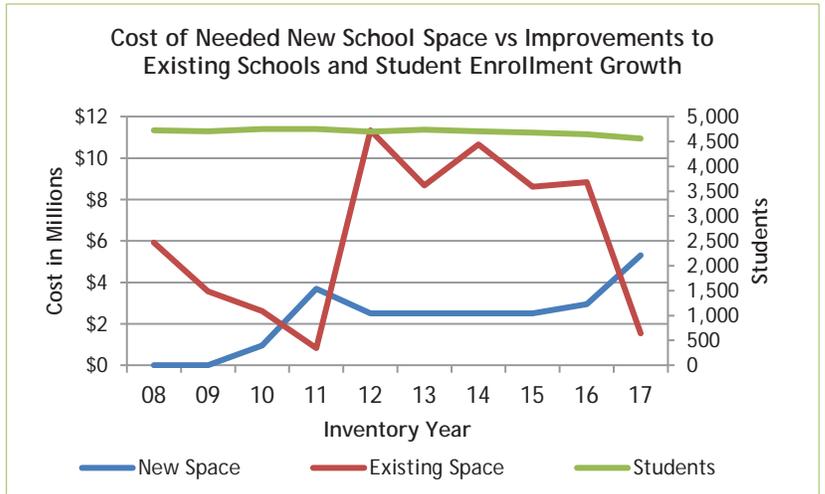
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Henry County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 32,136,000	\$ 44,494,830
Recreation	35,895,000	-
New Public Schools & Additions	-	5,300,000
School-System-wide	2,400,000	-
School Renovations	-	1,541,654
Industrial Sites and Parks	-	500,000
Water and Wastewater	337,966	-
Fire Protection	85,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 70,853,966	\$ 51,836,484



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Hickman County

Total Estimated Cost* for Infrastructure Improvements

\$203,370,554

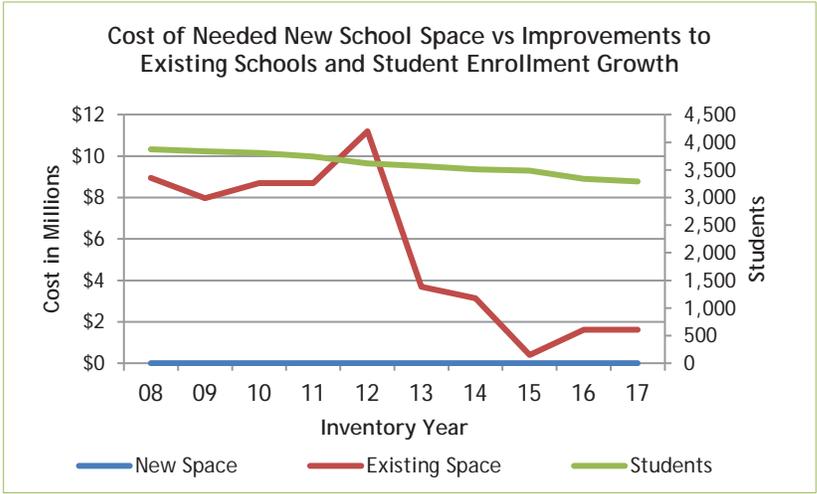
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Hickman County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 85,746,000	\$ 29,708,554
Water and Wastewater	48,900,000	1,000,000
Law Enforcement	16,000,000	18,250,000
Industrial Sites and Parks	-	1,800,000
School Renovations	800,000	821,000
Fire Protection	185,000	-
Solid Waste	160,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 151,791,000	\$ 51,579,554



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Houston County

Total Estimated Cost* for Infrastructure Improvements

\$37,746,300

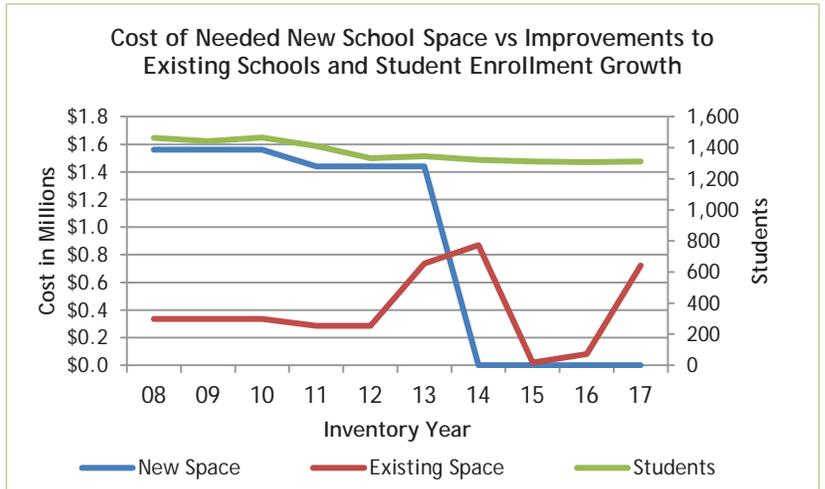
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Houston County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 20,028,000	\$ 1,081,300
Water and Wastewater	3,200,000	6,600,000
Community Development	2,000,000	-
Libraries, Museums, & Historic Sites	-	1,500,000
Recreation	845,000	500,000
School Renovations	-	722,000
Fire Protection	650,000	-
Public Health Facilities	-	350,000
Other Facilities	-	100,000
Solid Waste	-	100,000
Public Buildings	-	70,000
Broadband	-	-
Business District Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 26,723,000	\$ 11,023,300



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Humphreys County

Total Estimated Cost* for Infrastructure Improvements
\$215,123,249

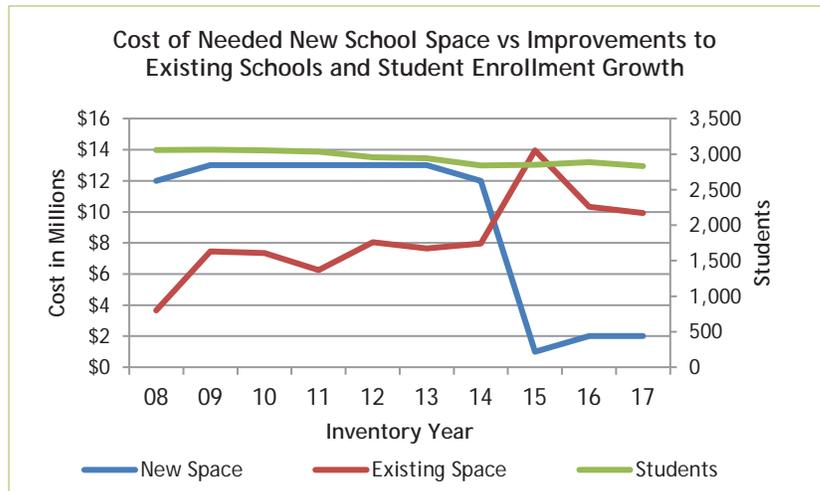
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Humphreys County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 142,197,000	\$ 26,483,974
Water and Wastewater	11,000,000	9,291,275
Industrial Sites and Parks	2,700,000	9,700,000
School Renovations	9,675,000	250,000
New Public Schools & Additions	2,000,000	-
Public Buildings	-	1,076,000
Fire Protection	500,000	-
Recreation	250,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 168,322,000	\$ 46,801,249



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Jackson County

Total Estimated Cost* for Infrastructure Improvements

\$68,914,320

TOP 3

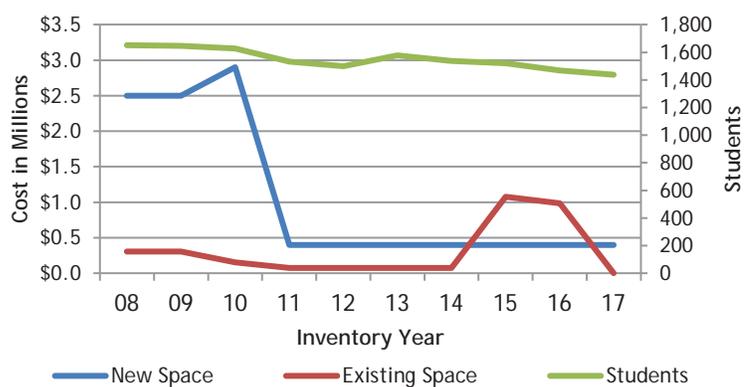


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Jackson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 43,923,000	\$ 1,781,320
Industrial Sites and Parks	1,250,000	15,000,000
Recreation	-	2,950,000
Water and Wastewater	1,660,000	-
Community Development	1,250,000	-
Fire Protection	-	700,000
New Public Schools & Additions	400,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School Renovations	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 48,483,000	\$ 20,431,320

Cost of Needed New School Space vs Improvements to Existing Schools and Student Enrollment Growth



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Jefferson County

Total Estimated Cost* for Infrastructure Improvements
\$375,144,771

TOP 3

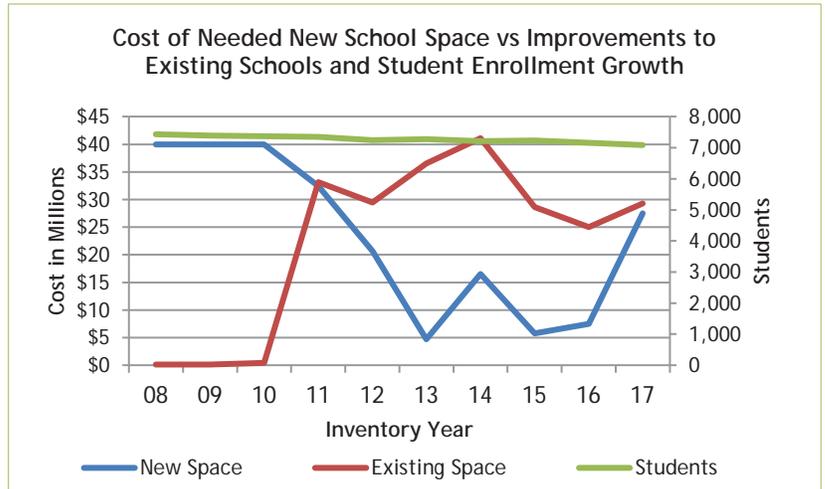


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Jefferson County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 63,946,000	\$ 226,344,818
School Renovations	24,412,000	4,891,242
New Public Schools & Additions	25,500,000	2,000,000
Water and Wastewater	4,895,800	16,954,911
Law Enforcement	5,200,000	-
Recreation	800,000	-
Other Facilities	150,000	-
Storm Water	-	50,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 124,903,800	\$ 250,240,971



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Johnson County

Total Estimated Cost* for Infrastructure Improvements

\$59,272,480

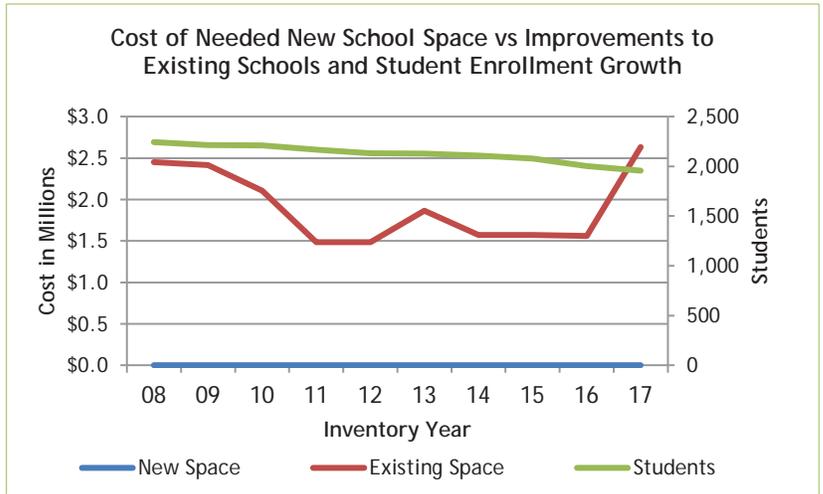
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Johnson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 21,708,000	\$ 7,236,853
Law Enforcement	10,000,000	-
Recreation	6,375,000	1,131,167
Water and Wastewater	5,274,960	2,134,500
School Renovations	50,000	2,585,000
Industrial Sites and Parks	2,000,000	-
Other Facilities	300,000	-
Solid Waste	250,000	-
Libraries, Museums, & Historic Sites	-	227,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 45,957,960	\$ 13,314,520



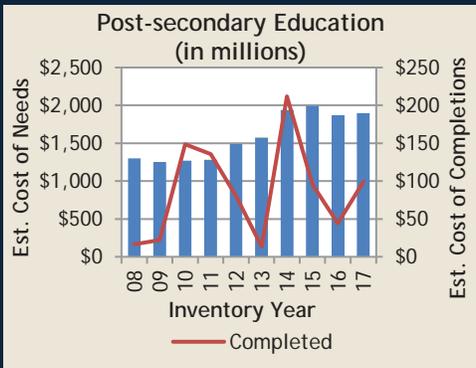
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Knox County

Total Estimated Cost* for Infrastructure Improvements

\$3,545,379,511

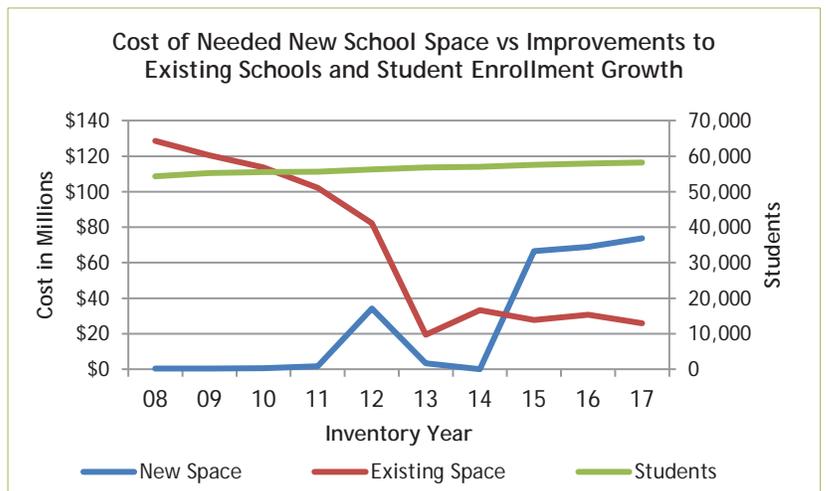
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Knox County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Post-secondary Education	\$ 697,530,000	\$ 1,199,186,164
Transportation	458,535,000	593,004,714
Water and Wastewater	47,200,000	183,380,000
Housing	15,000,000	60,000,000
New Public Schools & Additions	-	73,785,000
Other Education	19,290,000	30,400,000
Recreation	6,630,000	31,132,491
Other Utilities	10,670,000	17,700,000
School Renovations	5,132,720	20,700,288
Business District Development	-	22,685,116
Public Health Facilities	22,000,000	190,000
Law Enforcement	8,500,000	5,510,000
Industrial Sites and Parks	-	9,800,000
Other Facilities	550,000	3,968,018
Libraries, Museums, & Historic Sites	2,200,000	300,000
Public Buildings	400,000	-
Broadband	-	-
Community Development	-	-
Fire Protection	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 1,293,637,720	\$ 2,251,741,791



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Lake County

Total Estimated Cost* for Infrastructure Improvements

\$43,134,144

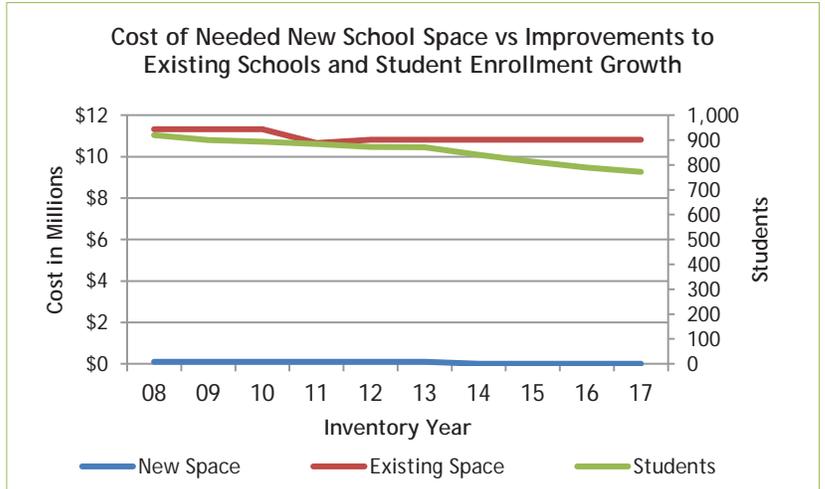
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Lake County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Law Enforcement	\$ 9,500,000	\$ 11,000,000
School Renovations	10,660,000	150,000
Transportation	1,593,000	2,909,934
Public Buildings	3,200,000	-
Recreation	-	2,701,210
Community Development	700,000	-
Water and Wastewater	320,000	-
Other Facilities	200,000	-
Storm Water	150,000	-
Fire Protection	50,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 26,373,000	\$ 16,761,144



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Lauderdale County

Total Estimated Cost* for Infrastructure Improvements

\$460,479,354

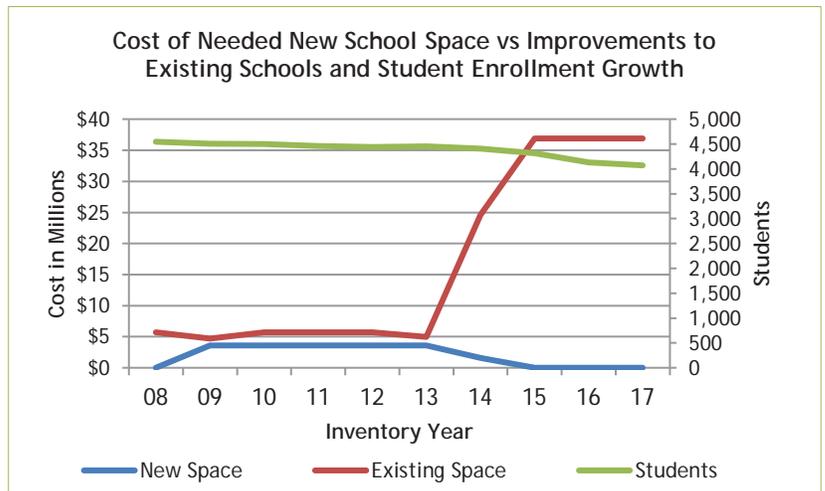
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Lauderdale County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 40,160,000	\$ 336,351,854
Law Enforcement	9,970,000	33,530,000
School Renovations	36,480,000	397,500
Housing	2,500,000	-
Storm Water	-	640,000
Libraries, Museums, & Historic Sites	450,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Industrial Sites and Parks	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Solid Waste	-	-
Water and Wastewater	-	-
Total	\$ 89,560,000	\$ 370,919,354

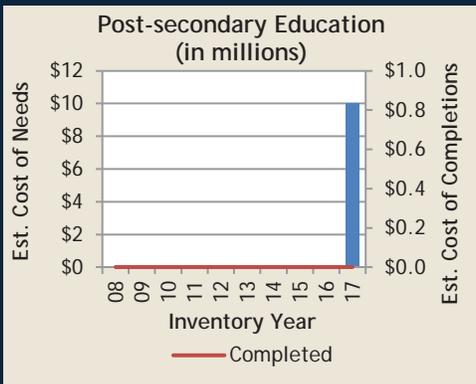


*Total Estimated Cost = Conceptual + Planning & Design + Construction

Lawrence County

Total Estimated Cost* for Infrastructure Improvements
\$55,364,047

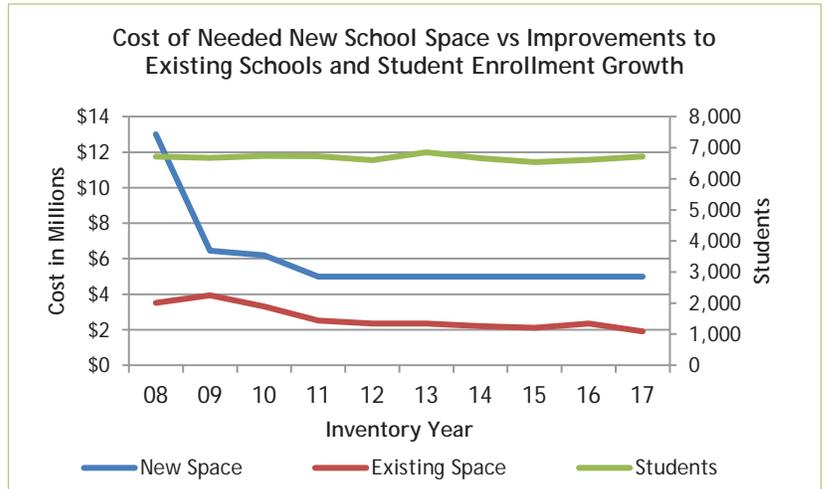
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Lawrence County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 23,135,000	\$ 2,267,198
Post-secondary Education	-	10,000,000
Law Enforcement	5,800,000	-
New Public Schools & Additions	5,000,000	-
Recreation	3,990,000	970,000
School Renovations	1,185,000	716,849
Water and Wastewater	1,000,000	-
Fire Protection	850,000	-
Solid Waste	-	450,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 40,960,000	\$ 14,404,047



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Lewis County

Total Estimated Cost* for Infrastructure Improvements

\$54,115,806

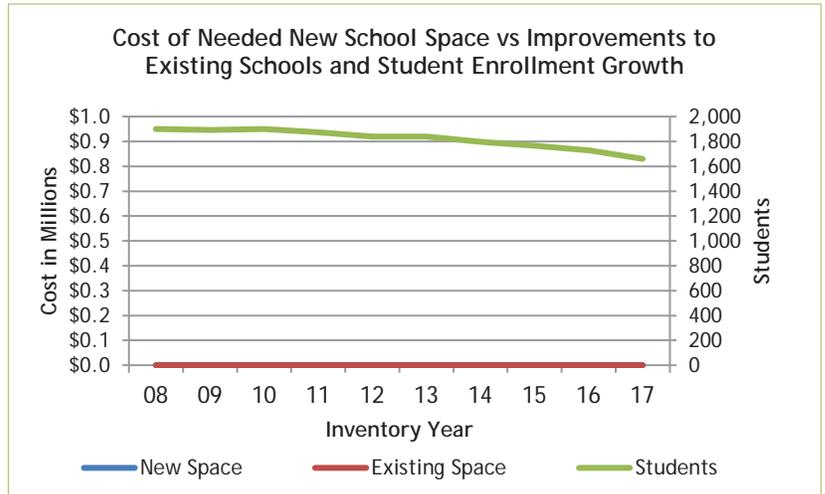
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Lewis County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 24,436,000	\$ 21,949,806
Law Enforcement	2,000,000	5,000,000
Community Development	400,000	-
Industrial Sites and Parks	250,000	-
Libraries, Museums, & Historic Sites	-	80,000
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School Renovations	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Water and Wastewater	-	-
Total	\$ 27,086,000	\$ 27,029,806



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Lincoln County

Total Estimated Cost* for Infrastructure Improvements

\$68,400,948

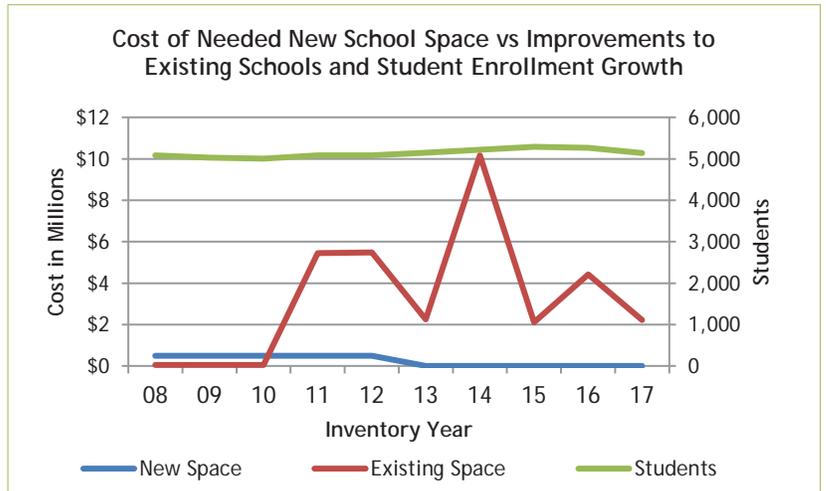
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Lincoln County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 34,515,000	\$ 2,568,588
Water and Wastewater	15,090,800	-
Recreation	9,975,260	-
School Renovations	2,203,000	10,000
Libraries, Museums, & Historic Sites	-	1,625,000
Storm Water	350,000	805,000
Post-secondary Education	610,000	-
Industrial Sites and Parks	-	398,300
Public Buildings	-	250,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 62,744,060	\$ 5,656,888



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Loudon County

Total Estimated Cost* for Infrastructure Improvements

\$258,263,418

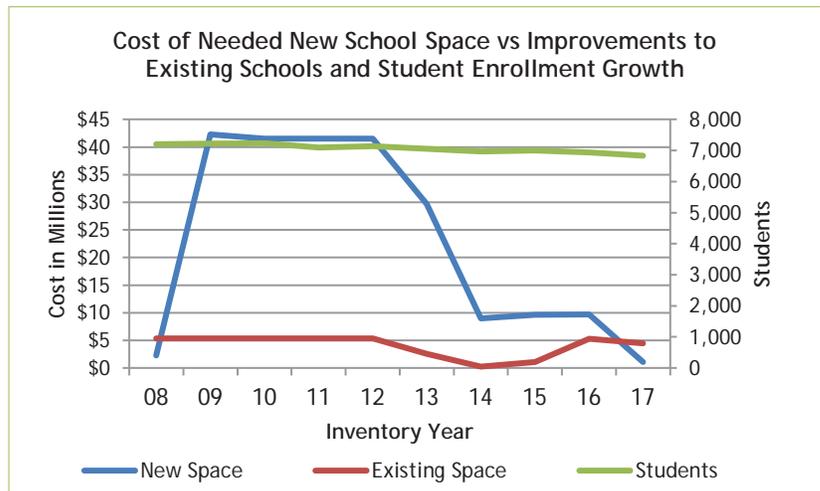
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Loudon County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 53,400,000	\$ 150,021,392
Recreation	28,000,000	-
Water and Wastewater	2,750,000	7,360,000
Public Buildings	500,000	5,000,000
School Renovations	1,160,000	3,276,600
Other Utilities	-	2,700,000
Industrial Sites and Parks	1,760,000	-
New Public Schools & Additions	600,000	500,000
Law Enforcement	-	750,000
Community Development	485,426	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 88,655,426	\$ 169,607,992



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Macon County

Total Estimated Cost* for Infrastructure Improvements

\$139,835,821

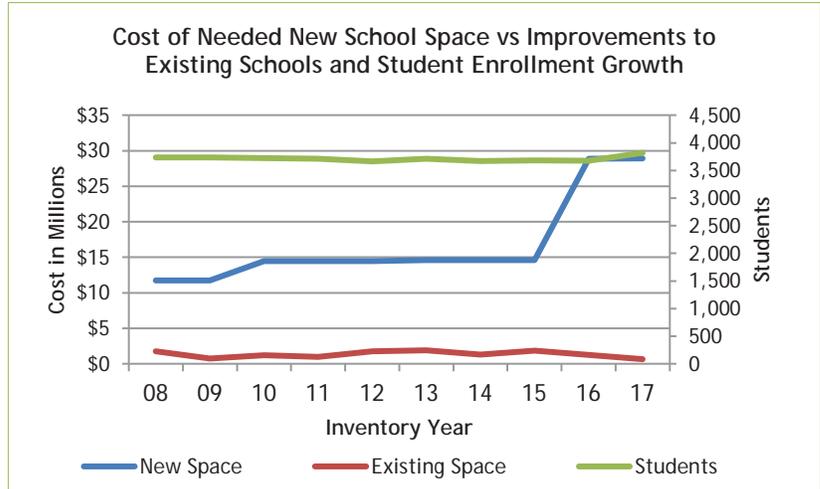
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Macon County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 35,396,994	\$ 31,740,627
New Public Schools & Additions	28,850,000	80,000
Water and Wastewater	12,000,000	10,106,200
Community Development	8,000,000	-
Law Enforcement	-	5,640,000
Recreation	3,060,000	-
Post-secondary Education	3,000,000	-
School Renovations	-	662,000
School-System-wide	500,000	-
Solid Waste	500,000	-
Public Health Facilities	300,000	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Storm Water	-	-
Total	\$ 91,606,994	\$ 48,228,827



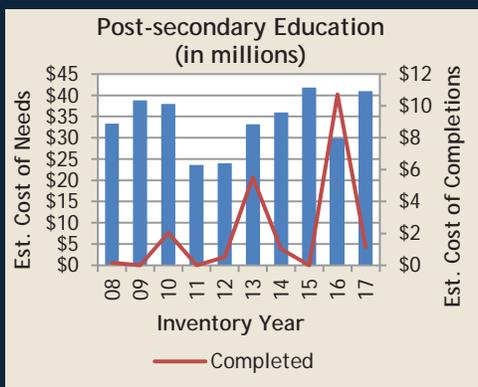
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Madison County

Total Estimated Cost* for Infrastructure Improvements

\$708,459,169

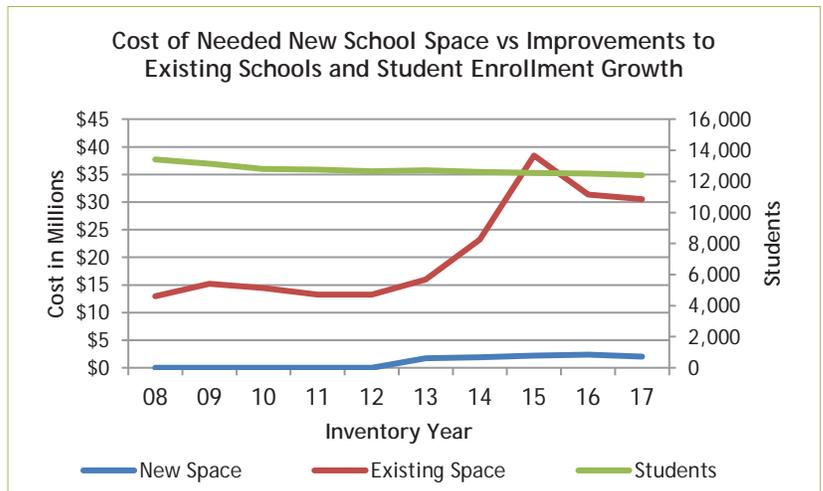
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Madison County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 133,923,000	\$ 373,621,043
Water and Wastewater	18,962,533	22,725,000
Post-secondary Education	4,600,000	36,402,391
Public Health Facilities	34,330,000	260,000
Law Enforcement	-	34,480,000
School Renovations	20,904,100	9,643,300
Public Buildings	7,560,000	903,000
Other Facilities	-	5,754,802
New Public Schools & Additions	1,950,000	75,000
Industrial Sites and Parks	-	1,000,000
Other Education	780,000	-
Recreation	585,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Utilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 223,594,633	\$ 484,864,536



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Marion County

Total Estimated Cost* for Infrastructure Improvements

\$293,048,036

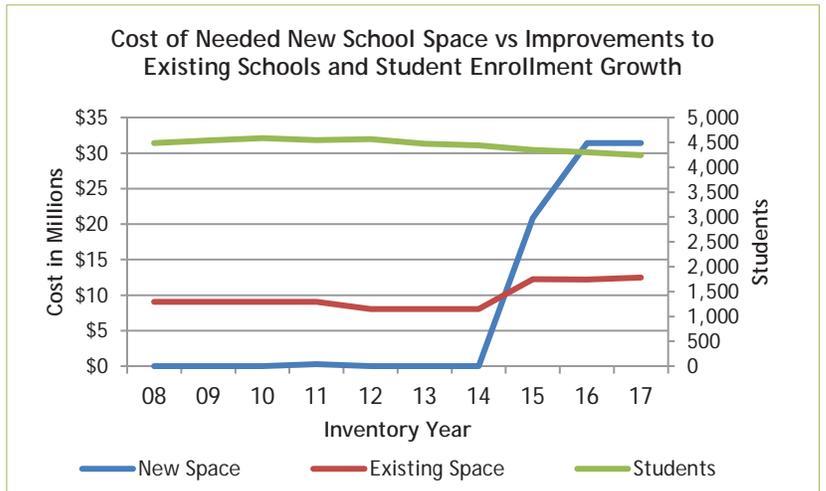
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Marion County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 147,550,000	\$ 84,316,311
New Public Schools & Additions	31,427,460	-
School Renovations	10,248,225	2,230,128
Water and Wastewater	3,969,200	708,000
Industrial Sites and Parks	2,150,000	2,100,000
Post-secondary Education	-	3,485,300
Recreation	1,770,000	419,205
Public Buildings	1,000,000	309,207
Housing	-	500,000
Libraries, Museums, & Historic Sites	500,000	-
Community Development	250,000	-
Solid Waste	-	65,000
Storm Water	-	50,000
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Law Enforcement	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Total	\$ 198,864,885	\$ 94,183,151



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Marshall County

Total Estimated Cost* for
Infrastructure Improvements
\$116,453,136

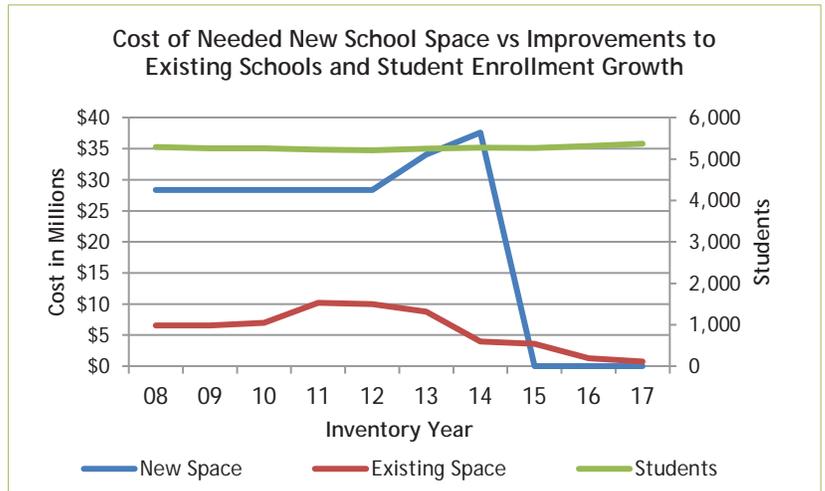
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Marshall County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 40,119,000	\$ 47,192,857
Recreation	270,000	17,360,000
Water and Wastewater	743,000	3,077,497
Fire Protection	2,650,000	-
Public Health Facilities	-	1,800,000
Libraries, Museums, & Historic Sites	1,500,000	-
Community Development	970,000	-
School Renovations	116,382	654,400
Broadband	-	-
Business District Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 46,368,382	\$ 70,084,754



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Maury County

Total Estimated Cost* for Infrastructure Improvements

\$516,370,302

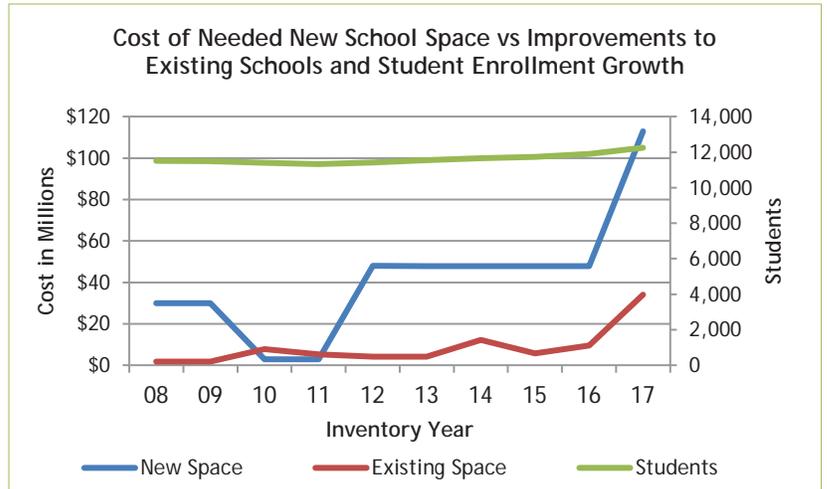
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Maury County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 131,791,000	\$ 144,325,309
New Public Schools & Additions	1,387,500	111,486,000
School Renovations	19,840,000	14,171,634
Law Enforcement	13,560,000	20,269,676
Post-secondary Education	6,260,000	11,437,483
Public Health Facilities	11,750,000	331,700
Recreation	11,740,000	-
Public Buildings	7,150,000	2,500,000
Water and Wastewater	5,995,000	-
Fire Protection	1,500,000	200,000
Solid Waste	-	500,000
Libraries, Museums, & Historic Sites	175,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 211,148,500	\$ 305,221,802



*Total Estimated Cost = Conceptual + Planning & Design + Construction

McMinn County

Total Estimated Cost* for Infrastructure Improvements

\$154,058,775

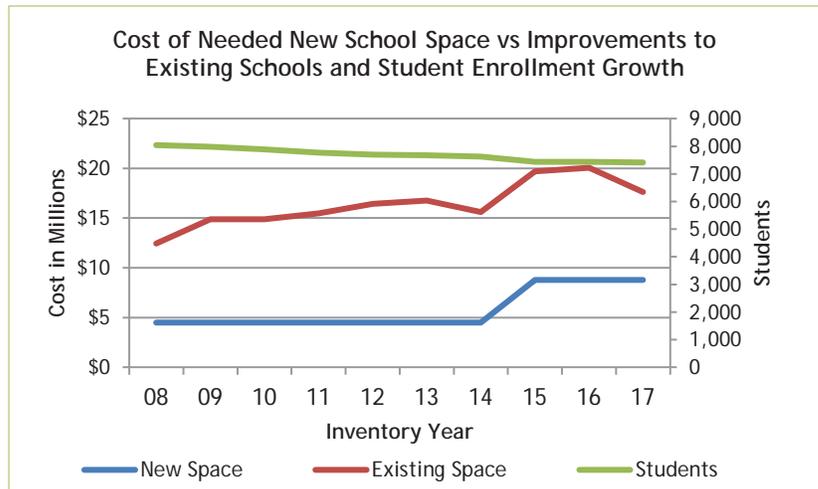
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for McMinn County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 35,476,000	\$ 38,341,344
School Renovations	11,756,340	5,874,000
Storm Water	10,000,000	-
New Public Schools & Additions	3,280,000	5,500,000
Recreation	4,425,000	2,235,000
Broadband	6,500,000	-
Post-secondary Education	-	6,500,000
Business District Development	6,000,000	-
Water and Wastewater	1,974,000	2,759,322
Community Development	4,000,000	443,340
Fire Protection	4,000,000	-
Industrial Sites and Parks	2,000,000	1,001,000
Other Utilities	1,000,000	-
Public Buildings	125,000	340,000
Libraries, Museums, & Historic Sites	100,000	228,429
Law Enforcement	200,000	-
Housing	-	-
Other Education	-	-
Other Facilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 90,836,340	\$ 63,222,435



*Total Estimated Cost = Conceptual + Planning & Design + Construction

McNairy County

Total Estimated Cost* for Infrastructure Improvements

\$89,912,480

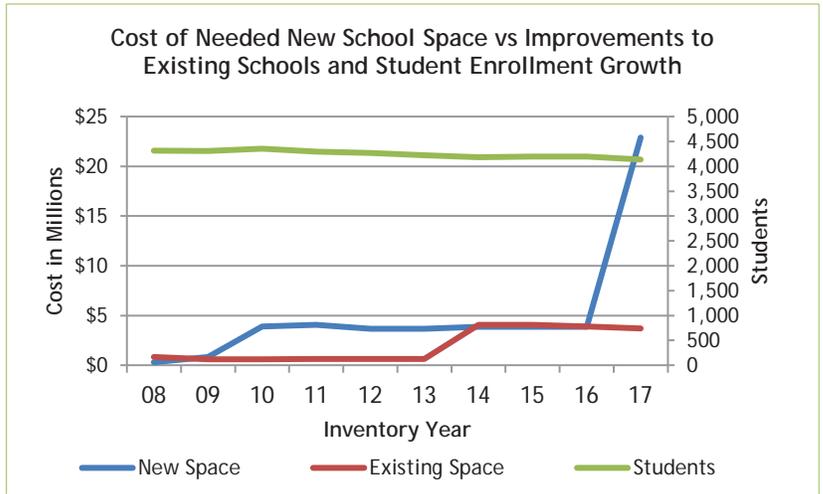
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for McNairy County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 36,353,000	\$ 4,461,456
New Public Schools & Additions	4,215,000	18,700,000
Water and Wastewater	9,720,000	8,849,124
School Renovations	3,602,900	101,000
Other Utilities	1,500,000	-
Recreation	1,330,000	-
Storm Water	800,000	-
Libraries, Museums, & Historic Sites	200,000	-
Fire Protection	80,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 57,800,900	\$ 32,111,580



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Meigs County

Total Estimated Cost* for
Infrastructure Improvements

\$18,662,126

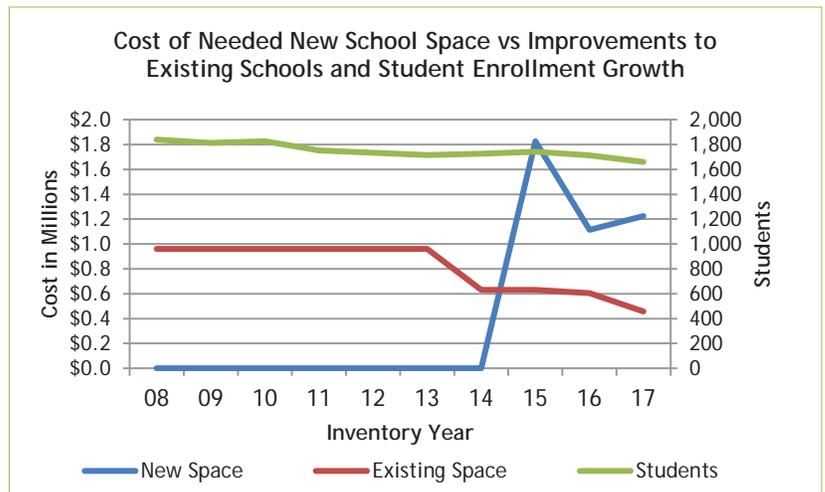
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■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Meigs County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 10,477,000	\$ 432,100
Water and Wastewater	3,200,000	1,795,100
New Public Schools & Additions	-	1,225,000
Other Facilities	250,000	300,000
School Renovations	456,000	-
Recreation	-	326,926
School-System-wide	150,000	-
Fire Protection	50,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 14,583,000	\$ 4,079,126



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Monroe County

Total Estimated Cost* for Infrastructure Improvements

\$166,175,537

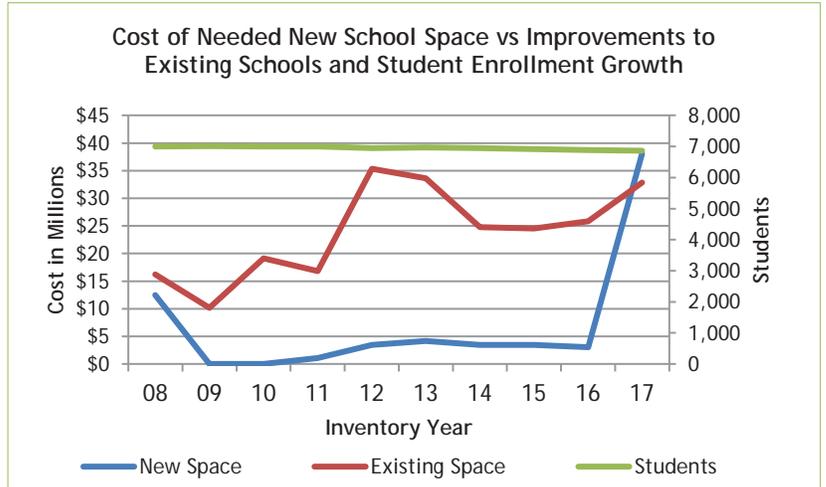
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Monroe County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 13,840,000	\$ 36,093,023
New Public Schools & Additions	8,100,000	30,000,000
School Renovations	32,743,853	117,000
Law Enforcement	30,075,000	300,000
Water and Wastewater	7,618,513	1,233,148
Industrial Sites and Parks	855,000	1,000,000
Recreation	1,000,000	700,000
Libraries, Museums, & Historic Sites	1,500,000	-
Fire Protection	500,000	-
Public Buildings	-	500,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 96,232,366	\$ 69,943,171



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Montgomery County

Total Estimated Cost* for Infrastructure Improvements

\$1,198,366,764

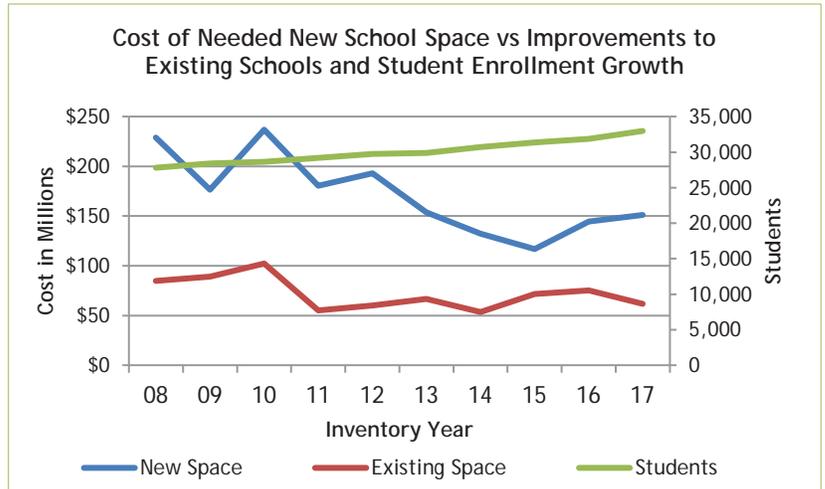
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Montgomery County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 156,615,000	\$ 425,777,010
Recreation	45,583,000	106,413,250
New Public Schools & Additions	72,400,000	78,900,000
Post-secondary Education	11,350,000	63,566,000
School Renovations	56,181,350	5,495,000
Water and Wastewater	4,305,000	55,373,000
Other Utilities	-	48,625,000
Public Buildings	6,500,000	14,192,172
Fire Protection	13,700,000	3,800,000
Libraries, Museums, & Historic Sites	12,000,000	-
Public Health Facilities	120,000	4,000,000
Law Enforcement	3,285,000	810,000
Community Development	-	4,072,982
Other Facilities	-	2,958,000
Industrial Sites and Parks	2,345,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Other Education	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 384,384,350	\$ 813,982,414



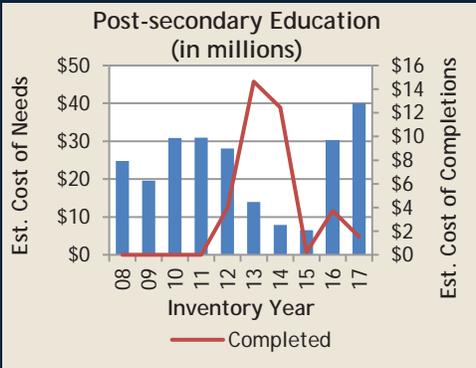
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Moore County

Total Estimated Cost* for Infrastructure Improvements

\$87,223,141

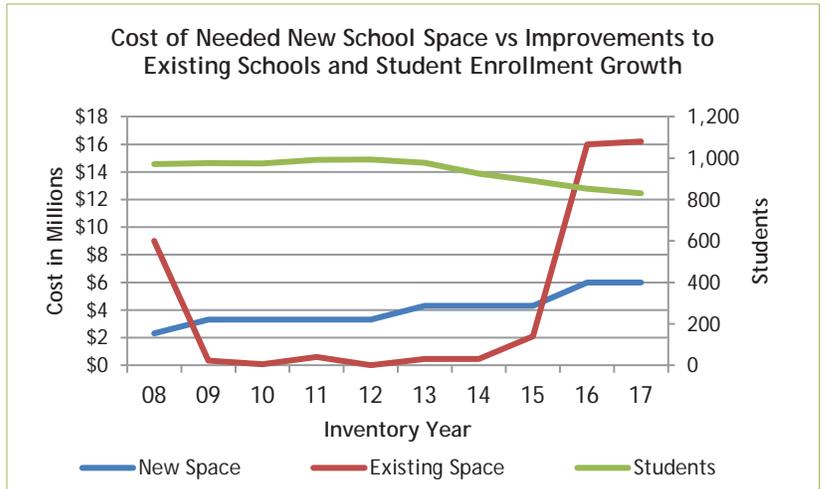
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Moore County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Post-secondary Education	\$ 1,590,000	\$ 38,440,531
School Renovations	2,800,000	13,400,000
Transportation	5,987,000	7,755,610
Water and Wastewater	-	10,500,000
New Public Schools & Additions	-	6,000,000
Public Buildings	750,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 11,127,000	\$ 76,096,141



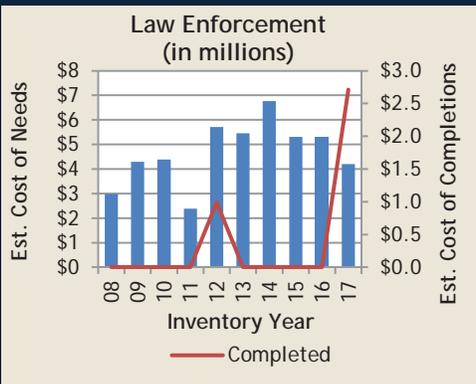
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Morgan County

Total Estimated Cost* for Infrastructure Improvements

\$216,083,349

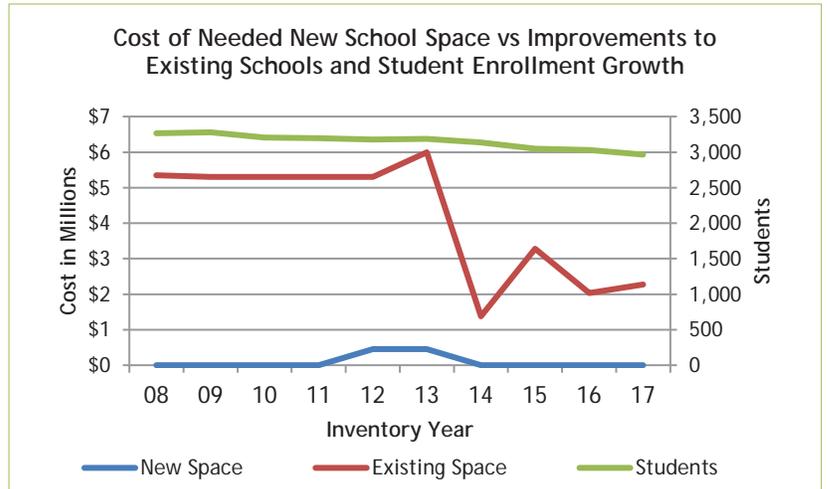
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Morgan County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 25,811,950	\$ 180,349,096
Law Enforcement	3,000,000	1,200,000
School Renovations	207,250	2,063,250
Water and Wastewater	330,880	1,656,923
Recreation	1,464,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 30,814,080	\$ 185,269,269



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Obion County

Total Estimated Cost* for Infrastructure Improvements

\$381,877,153

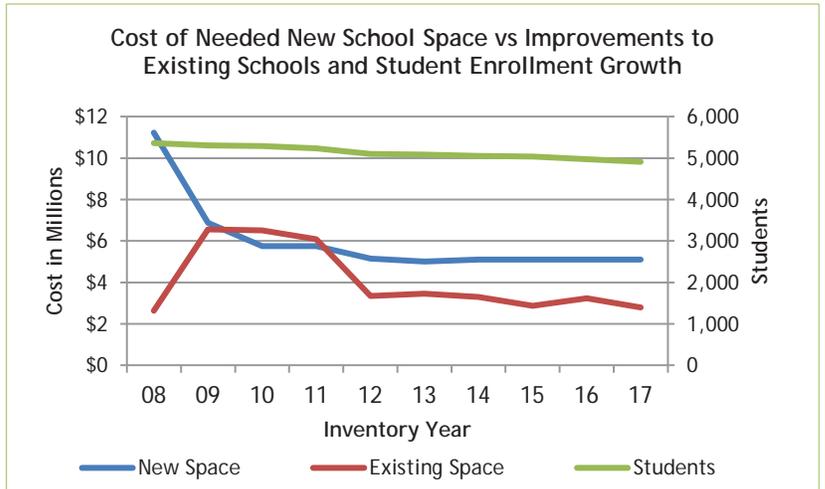
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Obion County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 77,114,819	\$ 289,714,655
New Public Schools & Additions	4,999,000	100,000
School Renovations	2,461,208	325,000
Recreation	50,000	2,250,000
Water and Wastewater	962,000	868,227
Law Enforcement	-	1,200,000
Fire Protection	60,000	680,244
Industrial Sites and Parks	500,000	-
Public Buildings	200,000	-
Storm Water	200,000	-
School-System-wide	192,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Total	\$ 86,739,027	\$ 295,138,126



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Overton County

Total Estimated Cost* for Infrastructure Improvements

\$66,365,534

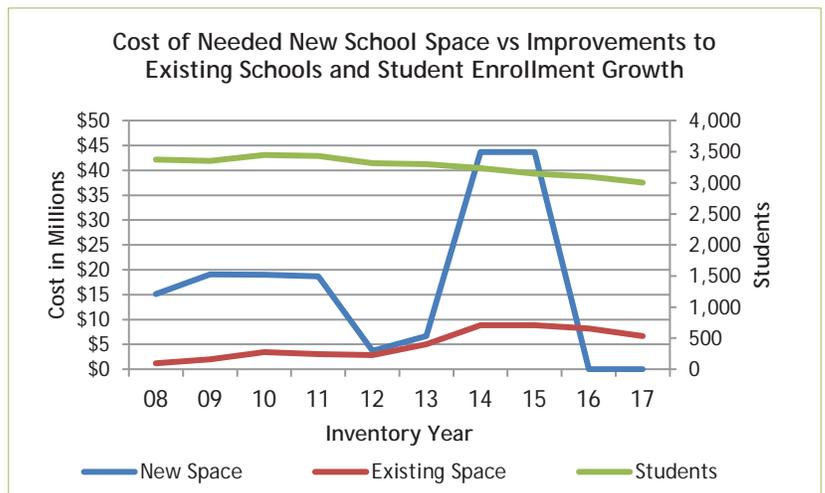
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Overton County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 11,107,000	\$ 38,116,534
School Renovations	4,788,000	1,914,000
Water and Wastewater	2,800,000	3,000,000
Recreation	1,500,000	2,630,000
Law Enforcement	-	200,000
Public Buildings	-	200,000
School-System-wide	110,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 20,305,000	\$ 46,060,534



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Perry County

Total Estimated Cost* for Infrastructure Improvements

\$81,939,412

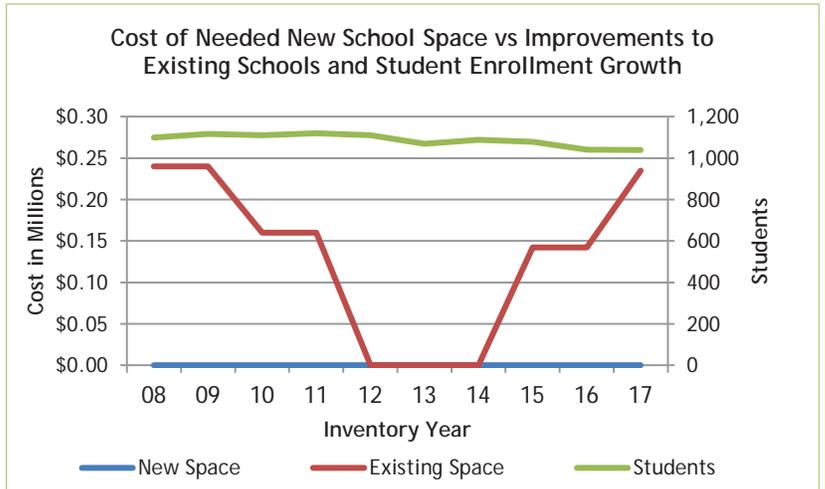
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Perry County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 37,441,000	\$ 44,153,412
School Renovations	-	235,000
Recreation	110,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Water and Wastewater	-	-
Total	\$ 37,551,000	\$ 44,388,412



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Pickett County

Total Estimated Cost* for
Infrastructure Improvements

\$21,130,630

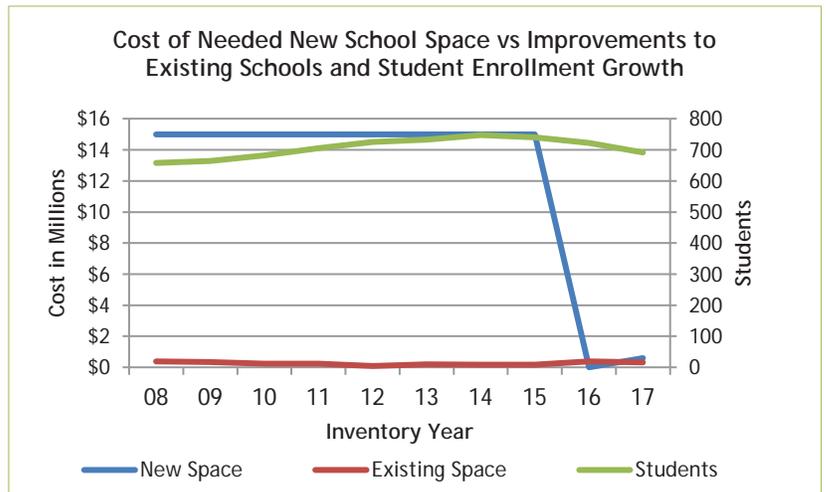
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Pickett County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 3,189,000	\$ 2,616,630
Law Enforcement	-	5,000,000
Recreation	4,210,000	-
Libraries, Museums, & Historic Sites	-	3,150,000
Industrial Sites and Parks	350,000	1,500,000
New Public Schools & Additions	600,000	-
School Renovations	320,000	-
School-System-wide	100,000	-
Fire Protection	-	95,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Water and Wastewater	-	-
Total	\$ 8,769,000	\$ 12,361,630



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Polk County

Total Estimated Cost* for Infrastructure Improvements
\$270,191,234

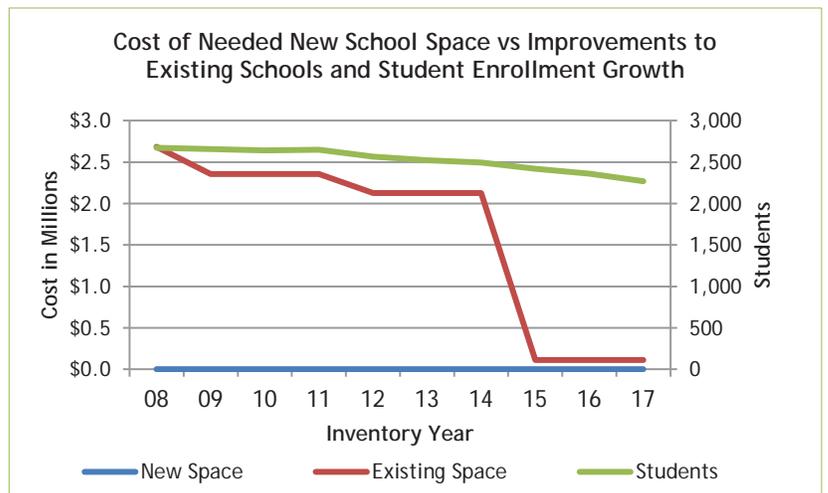
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Polk County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 44,171,000	\$ 216,600,165
Water and Wastewater	2,539,888	2,800,620
Recreation	2,140,000	-
Community Development	-	801,715
Public Health Facilities	-	403,846
Public Buildings	300,000	-
Industrial Sites and Parks	256,000	-
School Renovations	110,000	-
Storm Water	-	68,000
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 49,516,888	\$ 220,674,346



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Putnam County

Total Estimated Cost* for Infrastructure Improvements

\$549,418,628

TOP 3

Post-secondary Education (in millions)



Transportation (in millions)



Law Enforcement (in millions)

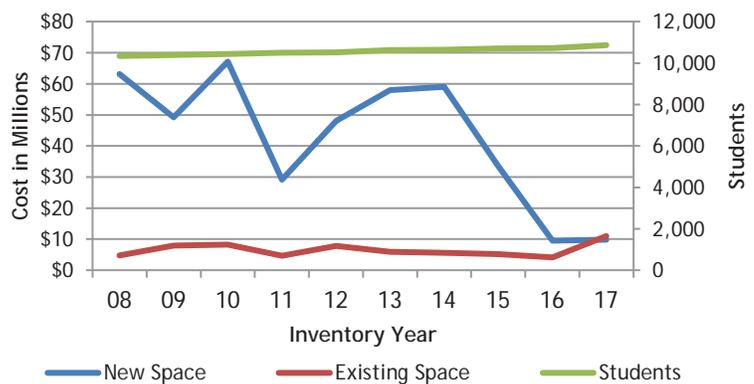


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Putnam County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Post-secondary Education	\$ 86,960,000	\$ 253,376,387
Transportation	54,569,000	81,046,405
Law Enforcement	5,800,000	20,000,000
School Renovations	6,900,000	4,065,000
Water and Wastewater	1,000,000	8,974,313
New Public Schools & Additions	4,830,000	5,000,000
Recreation	2,830,000	5,122,523
Other Facilities	6,220,000	-
Public Buildings	2,000,000	-
Fire Protection	-	475,000
School-System-wide	250,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Utilities	-	-
Public Health Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 171,359,000	\$ 378,059,628

Cost of Needed New School Space vs Improvements to Existing Schools and Student Enrollment Growth



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Rhea County

Total Estimated Cost* for Infrastructure Improvements

\$111,456,508

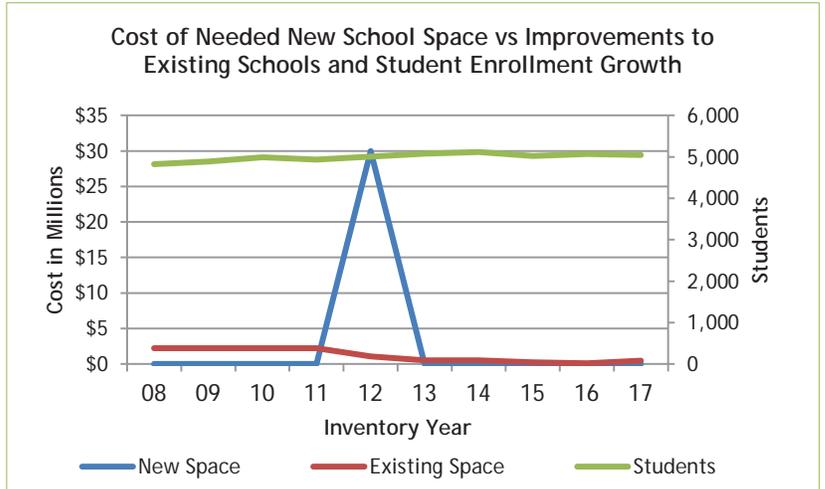
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Rhea County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 48,254,000	\$ 5,534,151
Law Enforcement	28,000,000	-
Water and Wastewater	278,571	16,842,000
Industrial Sites and Parks	1,500,000	6,000,000
Recreation	1,250,000	1,163,786
Storm Water	1,100,000	-
Public Buildings	800,000	250,000
School Renovations	484,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 81,666,571	\$ 29,789,937



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Roane County

Total Estimated Cost* for Infrastructure Improvements

\$407,143,559

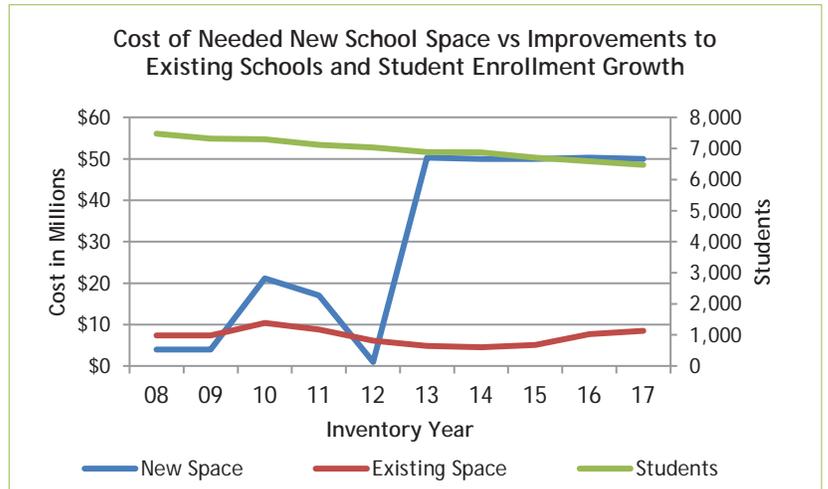
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Roane County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 70,753,000	\$ 179,661,698
New Public Schools & Additions	50,000,000	-
Recreation	14,430,000	10,590,178
Water and Wastewater	9,000,000	7,551,000
Other Facilities	4,000,000	7,400,000
Other Utilities	-	10,200,000
Community Development	10,000,000	-
School Renovations	5,500,000	2,967,099
Industrial Sites and Parks	6,100,000	-
Storm Water	5,000,000	-
Public Buildings	3,300,000	1,000,000
Law Enforcement	4,000,000	-
Post-secondary Education	1,500,000	2,090,584
Fire Protection	1,600,000	-
Solid Waste	-	300,000
Business District Development	-	200,000
Broadband	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Total	\$ 185,183,000	\$ 221,960,559



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Robertson County

Total Estimated Cost* for Infrastructure Improvements

\$500,421,766

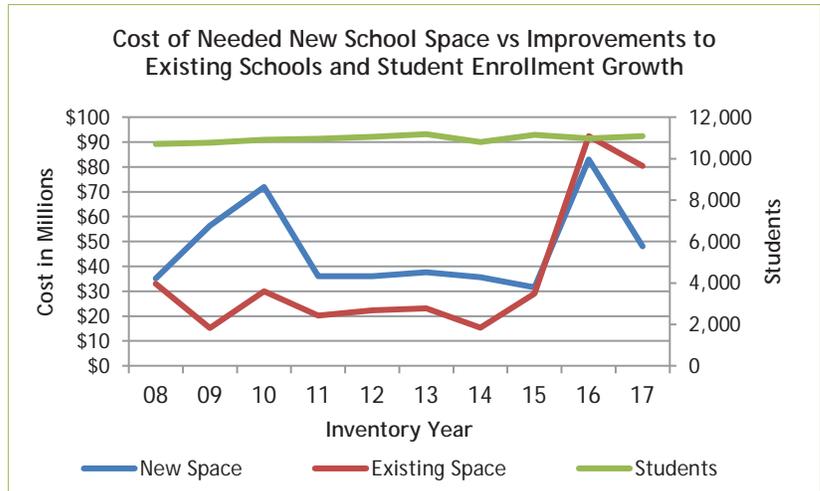
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Robertson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 79,666,000	\$ 163,224,973
Water and Wastewater	30,982,000	76,660,462
School Renovations	69,719,000	10,689,000
New Public Schools & Additions	48,000,000	-
Recreation	2,677,600	3,913,731
Community Development	5,300,000	-
Fire Protection	3,050,000	-
Business District Development	2,700,000	-
Other Utilities	400,000	1,340,000
Law Enforcement	-	900,000
Storm Water	-	699,000
Industrial Sites and Parks	-	500,000
Broadband	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 242,494,600	\$ 257,927,166



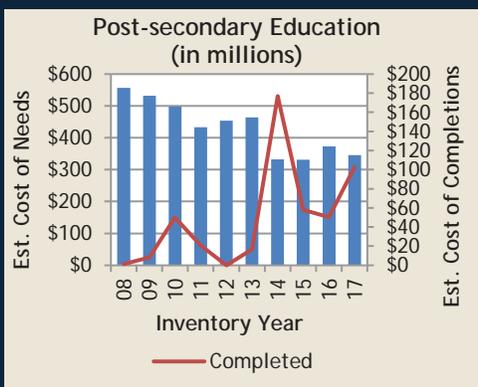
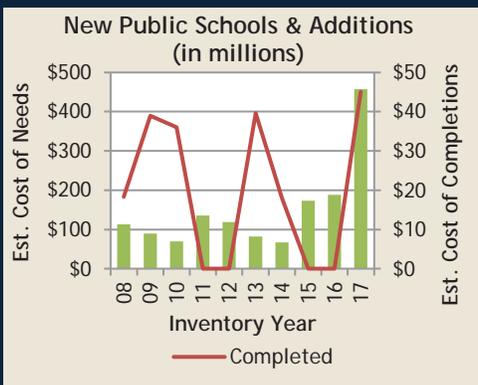
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Rutherford County

Total Estimated Cost* for Infrastructure Improvements

\$1,751,477,600

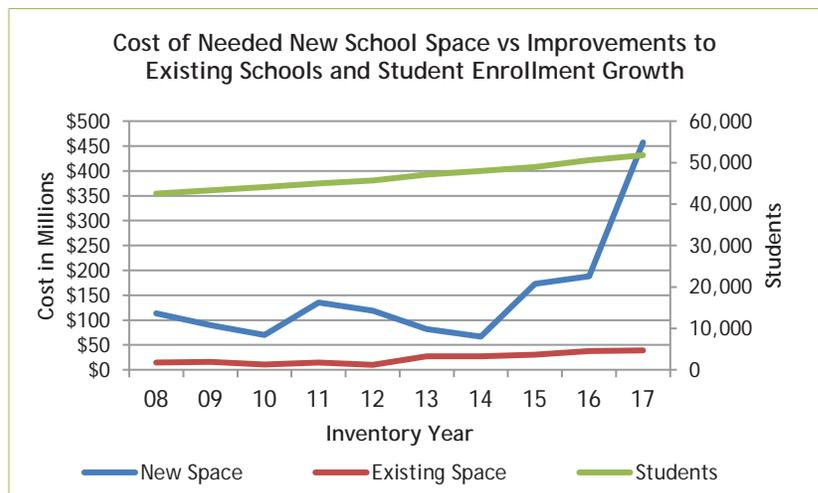
TOP 3



- = Local
- = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Rutherford County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 155,591,000	\$ 359,265,841
New Public Schools & Additions	320,000,000	137,200,000
Post-secondary Education	69,090,000	276,089,416
Water and Wastewater	24,700,000	121,957,000
Law Enforcement	-	125,050,000
Recreation	2,220,000	61,780,157
School Renovations	15,175,000	24,146,186
Public Health Facilities	25,628,000	2,160,000
Fire Protection	8,200,000	8,400,000
Business District Development	-	7,700,000
School-System-wide	-	2,500,000
Community Development	-	2,200,000
Other Utilities	-	1,225,000
Public Buildings	-	1,200,000
Broadband	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 620,604,000	\$ 1,130,873,600



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Scott County

Total Estimated Cost* for Infrastructure Improvements
\$106,546,316

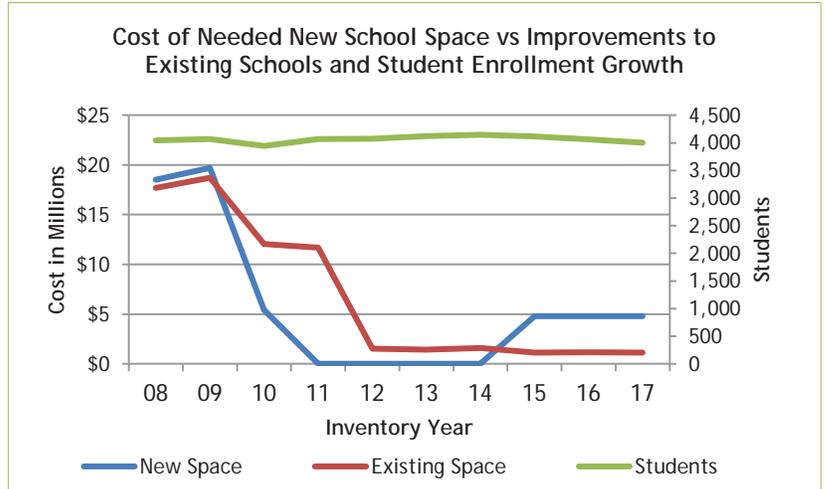
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Scott County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 41,244,000	\$ 53,842,316
New Public Schools & Additions	4,800,000	-
Water and Wastewater	525,000	3,550,000
School Renovations	1,135,000	-
Recreation	-	620,000
Solid Waste	500,000	-
Post-secondary Education	120,000	210,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 48,324,000	\$ 58,222,316



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Sequatchie County

Total Estimated Cost* for Infrastructure Improvements

\$53,355,880

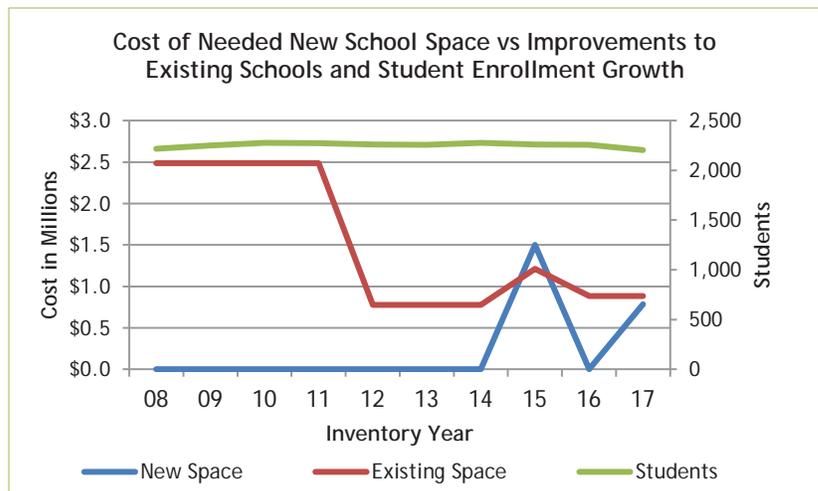
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Sequatchie County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Public Health Facilities	\$ 32,600,000	\$ 1,622,000
Transportation	11,542,000	1,316,366
Recreation	-	2,024,678
Water and Wastewater	1,500,000	-
School Renovations	505,000	380,000
New Public Schools & Additions	-	783,000
School-System-wide	600,000	-
Industrial Sites and Parks	-	482,836
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 46,747,000	\$ 6,608,880



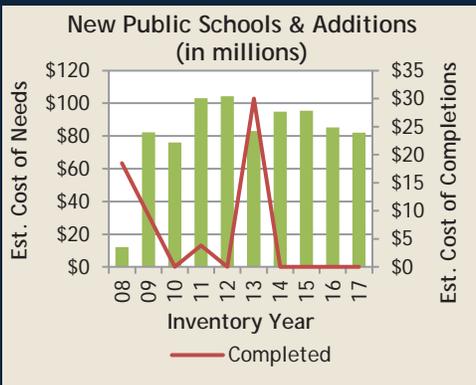
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Sevier County

Total Estimated Cost* for Infrastructure Improvements

\$595,808,119

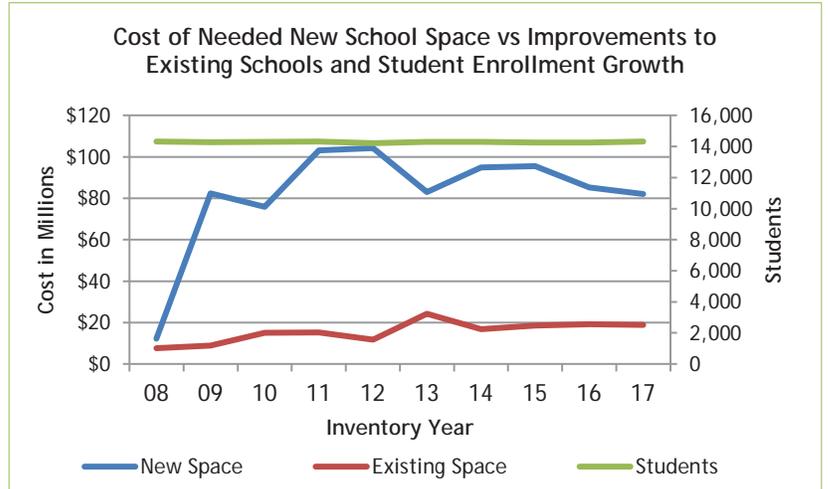
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Sevier County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 78,015,000	\$ 212,705,260
New Public Schools & Additions	38,600,000	43,524,243
Water and Wastewater	12,899,985	58,241,600
Other Utilities	-	57,622,750
Recreation	370,000	23,388,970
School Renovations	12,476,866	6,466,019
Public Buildings	15,256,841	-
Post-secondary Education	1,130,000	13,318,000
Industrial Sites and Parks	-	10,000,000
Fire Protection	350,000	6,000,000
Community Development	770,000	4,000,000
Storm Water	-	386,285
Other Facilities	91,300	140,000
Law Enforcement	55,000	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 160,014,992	\$ 435,793,127



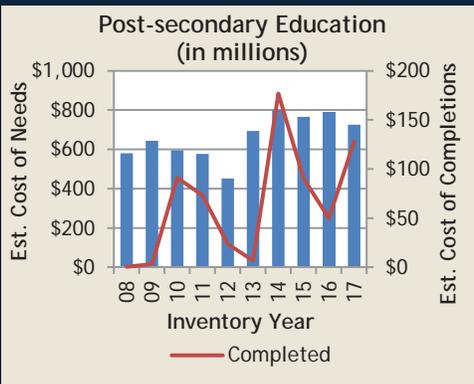
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Shelby County

Total Estimated Cost* for Infrastructure Improvements

\$5,585,863,958

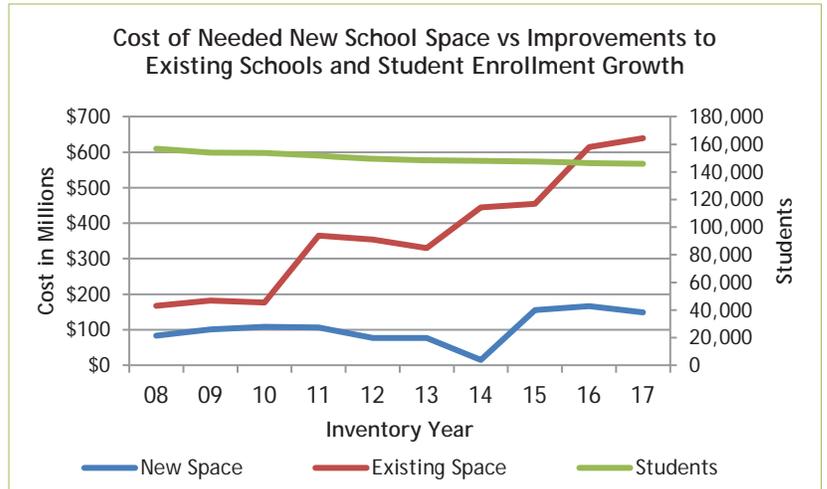
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Shelby County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 959,999,940	\$ 1,995,228,976
Post-secondary Education	144,820,000	581,399,241
School Renovations	524,696,683	114,487,766
Water and Wastewater	210,323,306	266,300,000
Housing	171,000,000	-
New Public Schools & Additions	39,489,000	109,198,884
Recreation	15,360,000	102,943,861
Law Enforcement	75,775,800	31,546,855
Public Health Facilities	100,600,000	-
Fire Protection	22,093,189	18,134,038
Libraries, Museums, & Historic Sites	11,868,000	26,667,019
Public Buildings	11,980,000	11,100,000
Other Facilities	8,750,000	5,863,000
Solid Waste	-	8,000,000
Business District Development	250,000	6,368,000
Community Development	6,043,500	351,900
Storm Water	2,637,500	2,587,500
Broadband	-	-
Industrial Sites and Parks	-	-
Other Education	-	-
Other Utilities	-	-
School-System-wide	-	-
Total	\$ 2,305,686,918	\$ 3,280,177,040



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Smith County

Total Estimated Cost* for Infrastructure Improvements

\$126,338,500

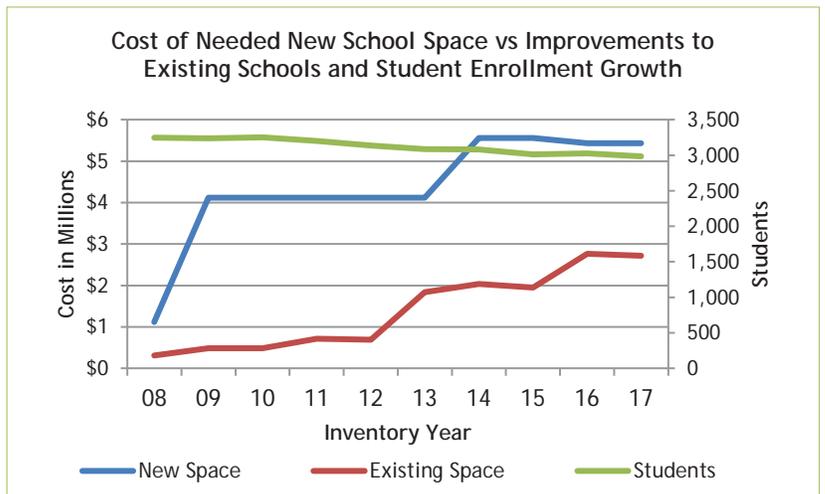
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Smith County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 76,448,000	\$ 34,171,300
Water and Wastewater	3,000,000	3,100,000
New Public Schools & Additions	5,436,000	-
School Renovations	2,688,200	25,000
Solid Waste	1,000,000	-
Recreation	150,000	120,000
Law Enforcement	200,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 88,922,200	\$ 37,416,300



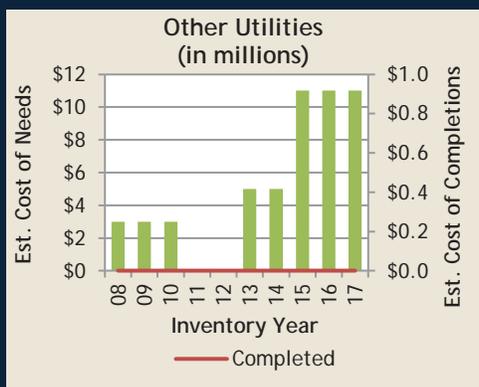
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Stewart County

Total Estimated Cost* for Infrastructure Improvements

\$35,517,300

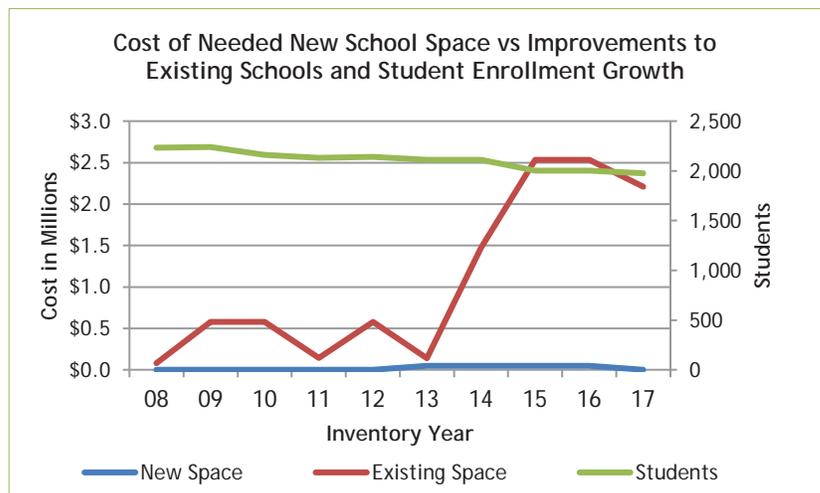
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Stewart County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 19,845,000	\$ 544,000
Other Utilities	-	11,000,000
School Renovations	1,910,000	300,000
Water and Wastewater	500,000	543,300
Recreation	725,000	-
Public Buildings	150,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 23,130,000	\$ 12,387,300



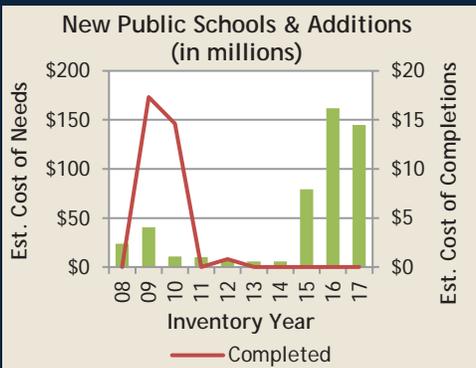
*Total Estimated Cost = Conceptual + Planning & Design + Construction

Sullivan County

Total Estimated Cost* for Infrastructure Improvements

\$1,187,077,536

TOP 3

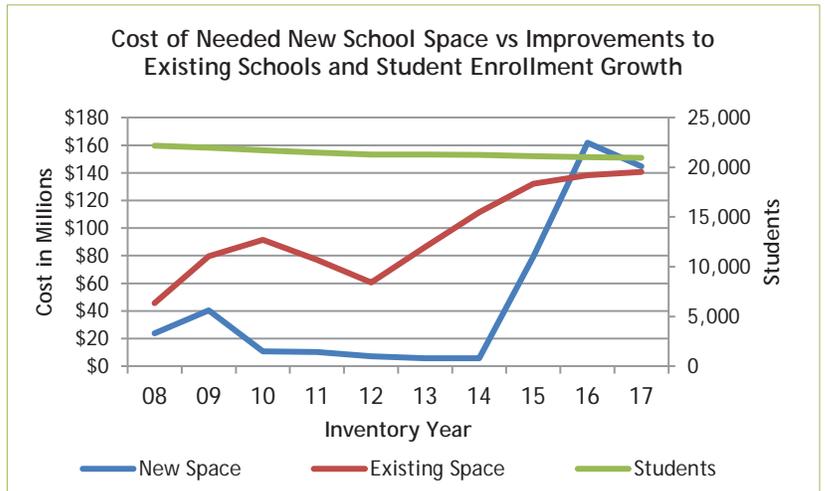


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Sullivan County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 359,587,881	\$ 201,117,754
New Public Schools & Additions	88,180,000	56,500,000
School Renovations	90,431,000	50,303,449
Water and Wastewater	27,249,000	72,951,108
Post-secondary Education	16,490,000	44,741,610
Housing	6,945,000	50,825,000
Public Health Facilities	55,000,000	-
Industrial Sites and Parks	22,198,900	6,367,000
Recreation	5,965,000	10,610,321
Storm Water	500,000	7,400,000
Other Facilities	6,700,000	100,000
Fire Protection	200,000	4,568,000
School-System-wide	1,000,000	-
Libraries, Museums, & Historic Sites	-	505,513
Business District Development	-	301,000
Public Buildings	-	270,000
Community Development	70,000	-
Broadband	-	-
Law Enforcement	-	-
Other Education	-	-
Other Utilities	-	-
Solid Waste	-	-
Total	\$ 680,516,781	\$ 506,560,755



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Sumner County

Total Estimated Cost* for Infrastructure Improvements

\$785,331,606

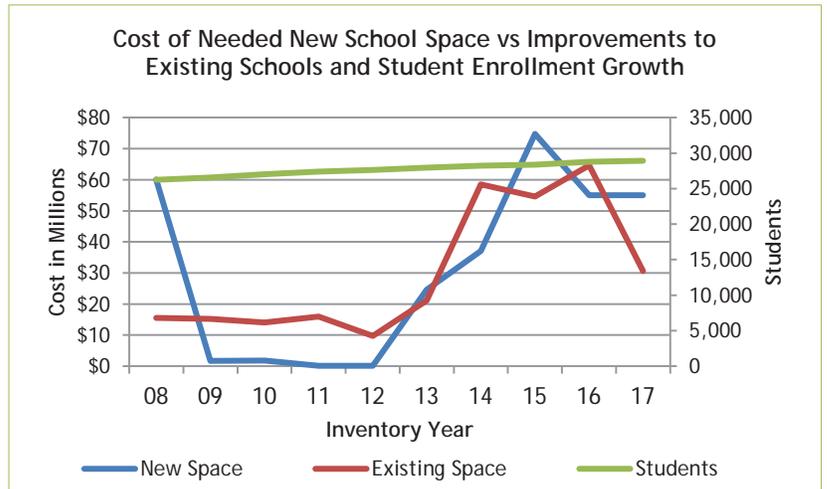
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Sumner County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 139,678,775	\$ 196,472,462
Water and Wastewater	30,389,000	131,970,000
Recreation	78,227,044	12,184,375
New Public Schools & Additions	55,000,000	-
Post-secondary Education	2,810,000	49,810,000
School Renovations	2,199,000	28,382,950
Community Development	5,100,000	6,000,000
Fire Protection	6,200,000	4,600,000
Other Utilities	-	9,000,000
Public Buildings	4,000,000	4,175,000
Libraries, Museums, & Historic Sites	6,310,000	688,000
Storm Water	1,410,000	3,675,000
Law Enforcement	3,000,000	-
Business District Development	2,000,000	-
Other Facilities	300,000	1,000,000
Industrial Sites and Parks	-	750,000
Broadband	-	-
Housing	-	-
Other Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 336,623,819	\$ 448,707,787



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Tipton County

Total Estimated Cost* for Infrastructure Improvements

\$458,747,123

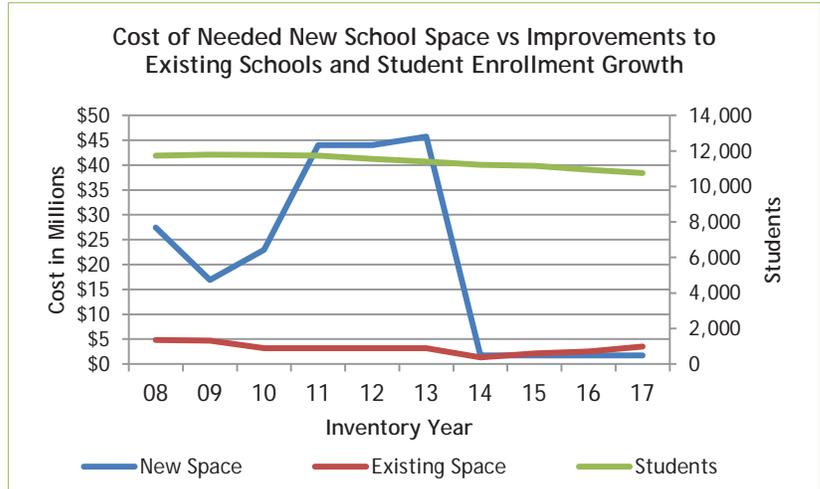
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Tipton County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 111,955,000	\$ 323,877,314
Water and Wastewater	8,500,000	-
Recreation	3,155,000	1,145,384
Law Enforcement	660,000	3,500,000
School Renovations	2,581,000	953,425
New Public Schools & Additions	-	1,700,000
Post-secondary Education	-	720,000
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 126,851,000	\$ 331,896,123



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Trousdale County

Total Estimated Cost* for Infrastructure Improvements
\$100,316,233

TOP 3

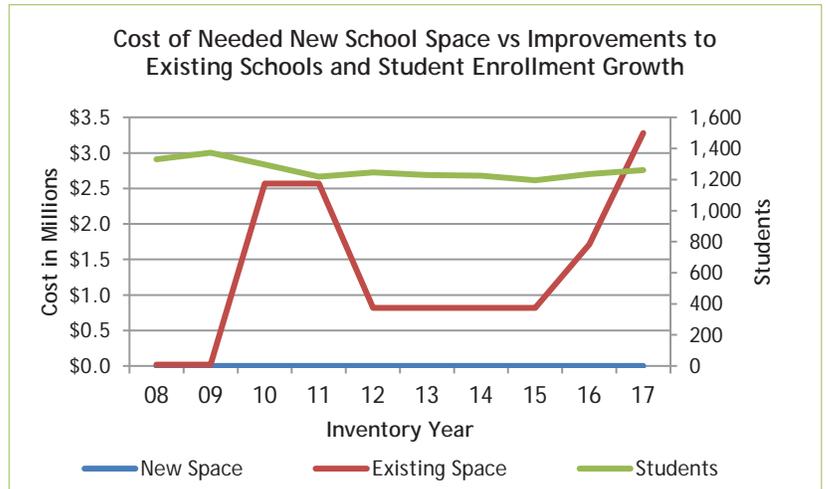


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Trousdale County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 25,230,000	\$ 36,770,754
Industrial Sites and Parks	1,000,000	17,588,847
Water and Wastewater	-	10,245,000
Law Enforcement	6,000,000	-
School Renovations	200,000	3,081,632
Post-secondary Education	200,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Buildings	-	-
Public Health Facilities	-	-
Recreation	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 32,630,000	\$ 67,686,233



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Unicoi County

Total Estimated Cost* for Infrastructure Improvements

\$102,869,982

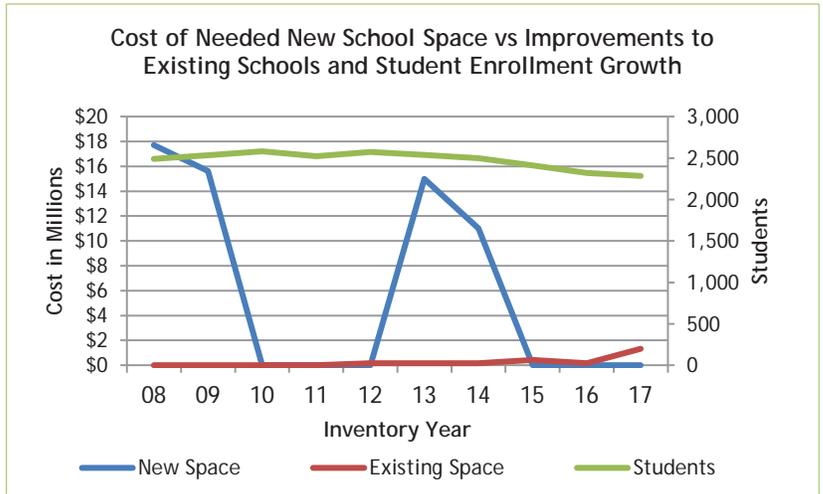
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Unicoi County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 36,921,000	\$ 4,460,818
Recreation	12,995,000	15,457,089
Community Development	16,575,000	-
Water and Wastewater	8,475,200	3,010,875
Broadband	1,100,000	740,000
School Renovations	150,000	1,185,000
Business District Development	1,000,000	-
Industrial Sites and Parks	650,000	-
Housing	150,000	-
Fire Protection	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 78,016,200	\$ 24,853,782



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Union County

Total Estimated Cost* for Infrastructure Improvements

\$124,402,871

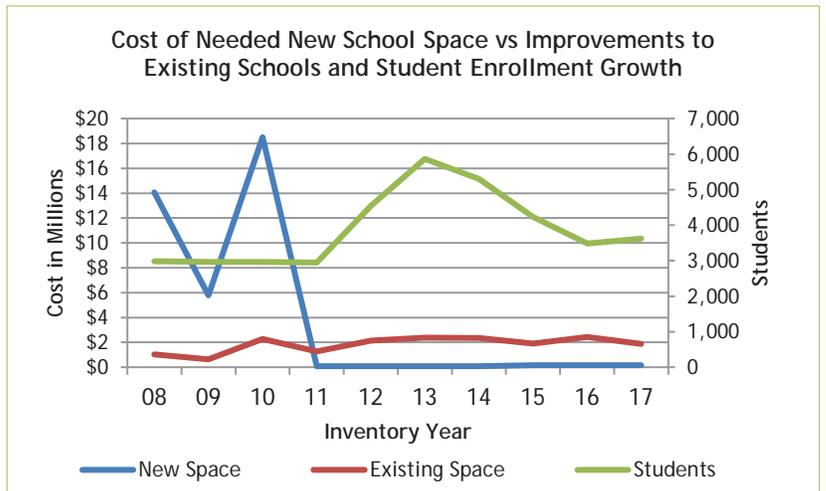
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Union County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 10,325,000	\$ 106,384,209
Recreation	3,885,000	-
School Renovations	1,471,679	411,983
Industrial Sites and Parks	1,200,000	-
Community Development	300,000	-
Public Health Facilities	250,000	-
New Public Schools & Additions	175,000	-
Broadband	-	-
Business District Development	-	-
Fire Protection	-	-
Housing	-	-
Law Enforcement	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Water and Wastewater	-	-
Total	\$ 17,606,679	\$ 106,796,192



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Van Buren County

Total Estimated Cost* for Infrastructure Improvements

\$116,082,340

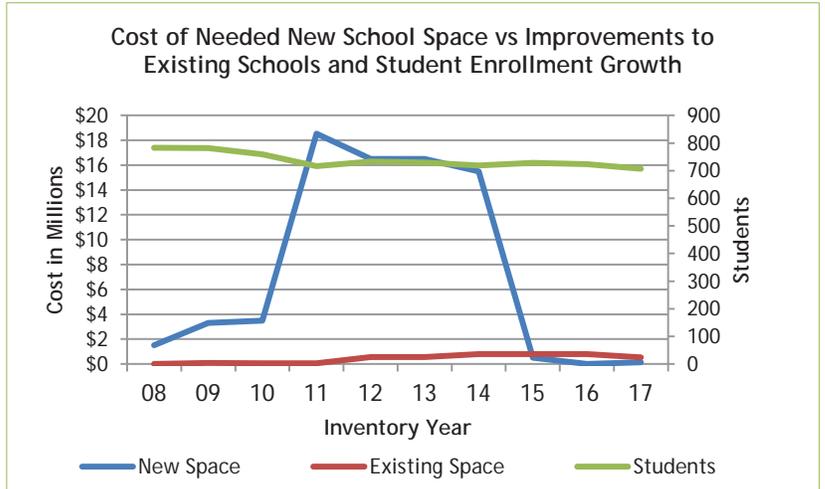
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Van Buren County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Community Development	\$ -	\$ 29,440,000
Transportation	614,000	26,239,340
Recreation	13,790,000	6,800,000
Water and Wastewater	10,300,000	550,000
Industrial Sites and Parks	10,000,000	-
Law Enforcement	-	7,000,000
Public Health Facilities	6,000,000	-
Public Buildings	-	4,000,000
Other Utilities	-	631,000
School Renovations	520,000	-
New Public Schools & Additions	-	130,000
Business District Development	-	68,000
Broadband	-	-
Fire Protection	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 41,224,000	\$ 74,858,340



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Warren County

Total Estimated Cost* for Infrastructure Improvements

\$126,369,990

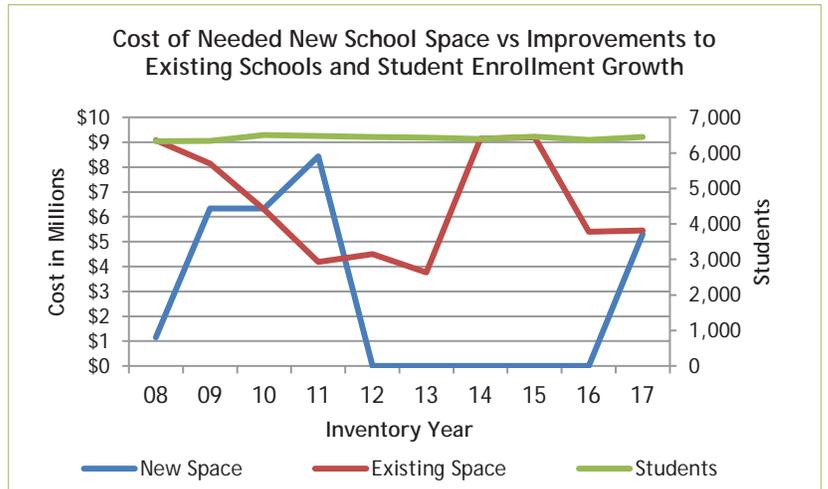
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Warren County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 32,749,000	\$ 46,820,890
Water and Wastewater	4,500,000	12,115,000
Law Enforcement	11,200,000	-
School Renovations	3,145,000	2,304,100
New Public Schools & Additions	5,304,000	-
Recreation	-	5,000,000
Public Buildings	1,260,000	300,000
Post-secondary Education	730,000	642,000
Fire Protection	300,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 59,188,000	\$ 67,181,990



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Washington County

Total Estimated Cost* for Infrastructure Improvements

\$711,793,004

TOP 3

Post-secondary Education (in millions)



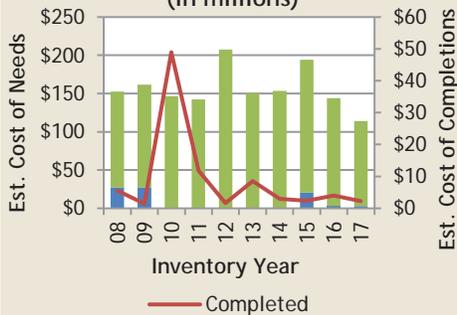
Completed

Transportation (in millions)



Completed

Water and Wastewater (in millions)



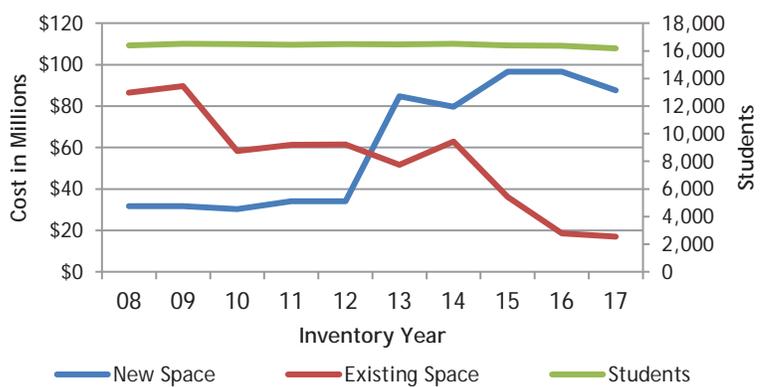
Completed

■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Washington County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Post-secondary Education	\$ 27,100,000	\$ 155,699,250
Transportation	103,662,000	70,211,248
Water and Wastewater	48,125,000	65,655,000
New Public Schools & Additions	50,175,500	37,400,000
Recreation	3,070,000	56,523,006
Housing	6,780,000	30,600,000
School Renovations	12,454,000	4,455,000
Law Enforcement	7,800,000	1,600,000
Other Facilities	-	8,000,000
Fire Protection	5,750,000	75,000
Libraries, Museums, & Historic Sites	1,990,000	2,700,000
Public Buildings	1,650,000	2,084,000
Industrial Sites and Parks	1,000,000	1,900,000
Public Health Facilities	2,800,000	-
Business District Development	2,000,000	-
School-System-wide	300,000	174,000
Solid Waste	-	60,000
Broadband	-	-
Community Development	-	-
Other Education	-	-
Other Utilities	-	-
Storm Water	-	-
Total	\$ 274,656,500	\$ 437,136,504

Cost of Needed New School Space vs Improvements to Existing Schools and Student Enrollment Growth



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Wayne County

Total Estimated Cost* for Infrastructure Improvements

\$105,416,999

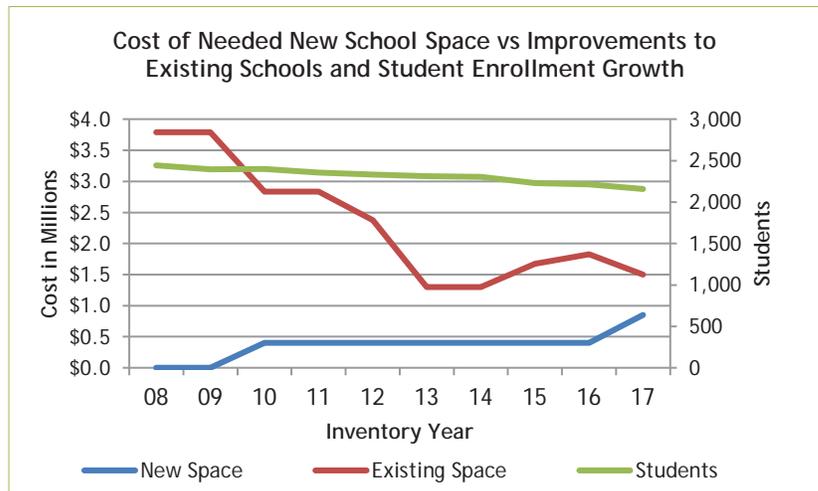
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Wayne County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 43,384,000	\$ 2,532,180
Law Enforcement	19,330,000	25,200,000
Industrial Sites and Parks	5,000,000	974,300
Water and Wastewater	1,500,000	1,289,847
Community Development	1,500,000	-
School Renovations	1,399,000	100,000
Solid Waste	-	950,000
New Public Schools & Additions	850,000	-
School-System-wide	-	781,717
Public Health Facilities	250,000	-
Recreation	250,000	-
Fire Protection	125,955	-
Broadband	-	-
Business District Development	-	-
Housing	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Post-secondary Education	-	-
Public Buildings	-	-
Storm Water	-	-
Total	\$ 73,588,955	\$ 31,828,044



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Weakley County

Total Estimated Cost* for Infrastructure Improvements

\$266,790,102

TOP 3

Post-secondary Education (in millions)



Transportation (in millions)



Libraries, Museums, & Historic Sites (in millions)



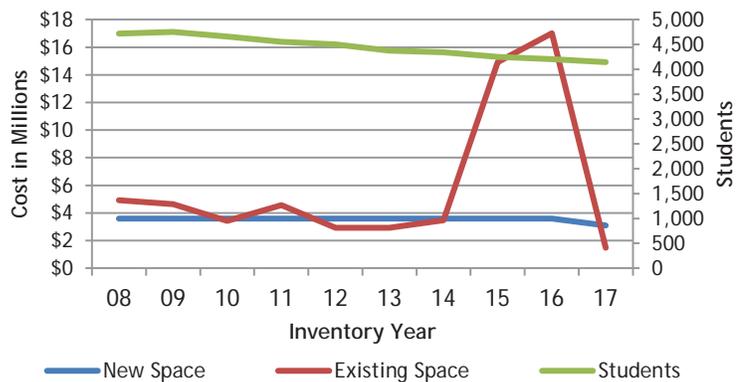
■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Weakley County

Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Post-secondary Education	\$ 79,160,000	\$ 114,470,000
Transportation	36,185,000	10,784,833
Libraries, Museums, & Historic Sites	5,500,000	-
Law Enforcement	-	4,500,000
Water and Wastewater	2,500,000	1,359,280
New Public Schools & Additions	3,100,000	-
Recreation	850,000	1,149,633
Industrial Sites and Parks	1,900,000	-
Public Buildings	1,500,000	60,000
School Renovations	575,000	896,356
Fire Protection	300,000	1,000,000
Storm Water	1,000,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Solid Waste	-	-
Total	\$ 132,570,000	\$ 134,220,102

Cost of Needed New School Space vs Improvements to Existing Schools and Student Enrollment Growth



*Total Estimated Cost = Conceptual + Planning & Design + Construction

White County

Total Estimated Cost* for Infrastructure Improvements

\$134,119,999

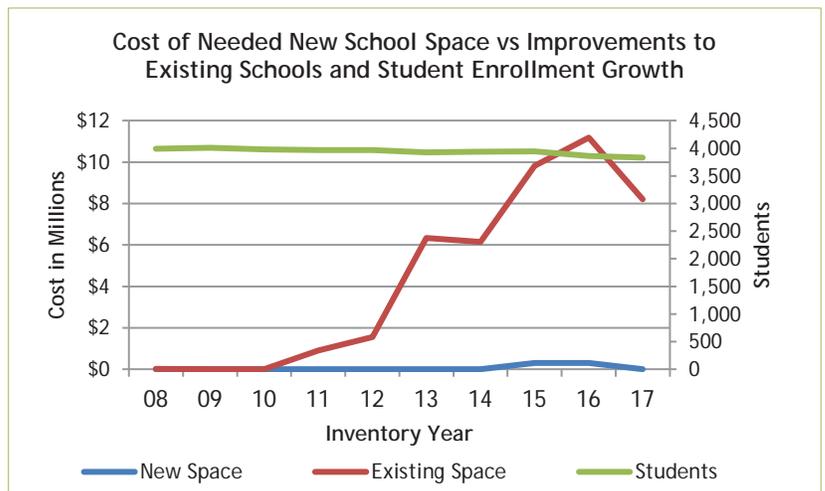
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for White County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 44,179,000	\$ 14,399,330
Industrial Sites and Parks	40,000,000	2,065,700
Water and Wastewater	9,500,000	3,800,000
School Renovations	2,200,000	6,010,000
Public Buildings	4,000,000	-
Law Enforcement	3,000,000	-
Solid Waste	-	3,000,000
Other Utilities	900,000	-
Recreation	-	490,000
Fire Protection	-	428,380
Libraries, Museums, & Historic Sites	-	147,589
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
New Public Schools & Additions	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Public Health Facilities	-	-
School-System-wide	-	-
Storm Water	-	-
Total	\$ 103,779,000	\$ 30,340,999



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Williamson County

Total Estimated Cost* for Infrastructure Improvements

\$1,790,616,104

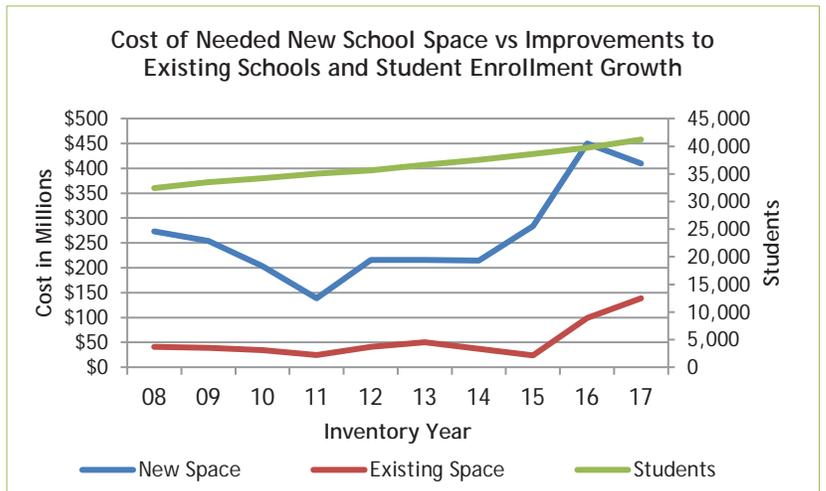
TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Williamson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 201,184,000	\$ 562,577,145
New Public Schools & Additions	252,000,000	157,920,000
Water and Wastewater	39,201,264	193,534,370
School Renovations	94,079,000	44,842,943
Recreation	44,496,900	40,300,338
Post-secondary Education	-	52,760,000
Fire Protection	33,400,000	8,939,884
Public Buildings	-	26,500,000
Law Enforcement	-	21,000,000
Libraries, Museums, & Historic Sites	3,700,760	3,120,000
Community Development	5,292,500	-
Solid Waste	2,800,000	1,262,000
School-System-wide	-	1,530,000
Business District Development	-	175,000
Broadband	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Other Education	-	-
Other Facilities	-	-
Other Utilities	-	-
Public Health Facilities	-	-
Storm Water	-	-
Total	\$ 676,154,424	\$ 1,114,461,680



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Wilson County

Total Estimated Cost* for Infrastructure Improvements
\$1,547,140,186

TOP 3

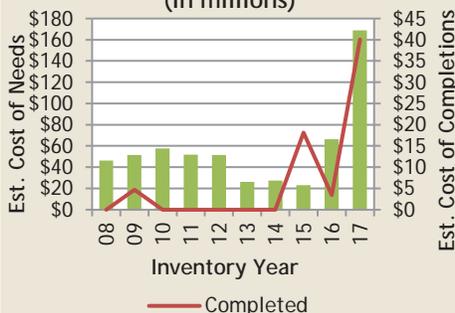
New Public Schools & Additions (in millions)



Transportation (in millions)



School Renovations (in millions)

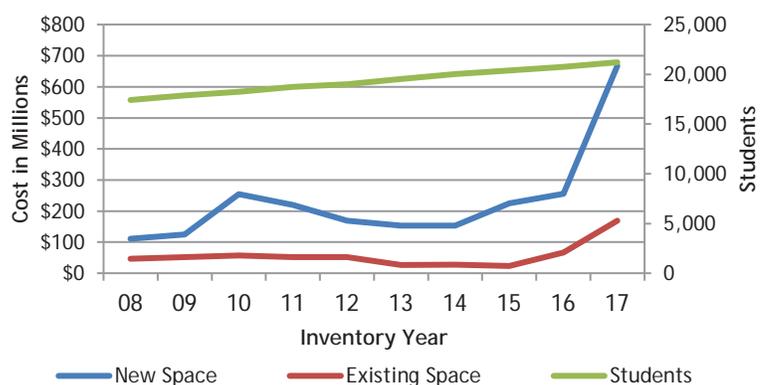


■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Wilson County Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
New Public Schools & Additions	\$ 621,700,000	\$ 46,000,000
Transportation	266,870,000	279,437,950
School Renovations	152,878,500	16,000,000
Water and Wastewater	56,800,000	30,265,000
School-System-wide	2,150,000	20,000,000
Law Enforcement	5,000,000	11,840,000
Recreation	3,897,216	12,181,520
Other Utilities	-	10,000,000
Fire Protection	2,000,000	3,500,000
Solid Waste	3,000,000	-
Public Buildings	2,500,000	400,000
Public Health Facilities	720,000	-
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
Libraries, Museums, & Historic Sites	-	-
Other Education	-	-
Other Facilities	-	-
Post-secondary Education	-	-
Storm Water	-	-
Total	\$ 1,117,515,716	\$ 429,624,470

Cost of Needed New School Space vs Improvements to Existing Schools and Student Enrollment Growth



*Total Estimated Cost = Conceptual + Planning & Design + Construction

Multi-county

Total Estimated Cost* for Infrastructure Improvements

\$3,688,566,915

TOP 3



■ = Local
■ = Regional (Serves Multiple Counties)

Estimated Cost of Needed Infrastructure for Multi-county Five-year period July 2017 through June 2022

Project Type	Conceptual	Planning & Design + Construction
Transportation	\$ 1,329,181,000	\$ 1,483,067,306
Water and Wastewater	24,106,410	405,544,000
Other Utilities	89,700,000	185,775,000
Law Enforcement	3,200,000	66,230,000
Post-secondary Education	-	37,420,000
Recreation	13,640,000	15,000,000
Other Education	-	23,000,000
Public Buildings	-	12,410,000
Fire Protection	158,000	-
Libraries, Museums, & Historic Sites	-	135,199
Broadband	-	-
Business District Development	-	-
Community Development	-	-
Housing	-	-
Industrial Sites and Parks	-	-
New Public Schools & Additions	-	-
Other Facilities	-	-
Public Health Facilities	-	-
School Renovations	-	-
School-System-wide	-	-
Solid Waste	-	-
Storm Water	-	-
Total	\$ 1,459,985,410	\$ 2,228,581,505

*Total Estimated Cost = Conceptual + Planning & Design + Construction