JACOBS COOPERATIVE

Jacobs Recommendations

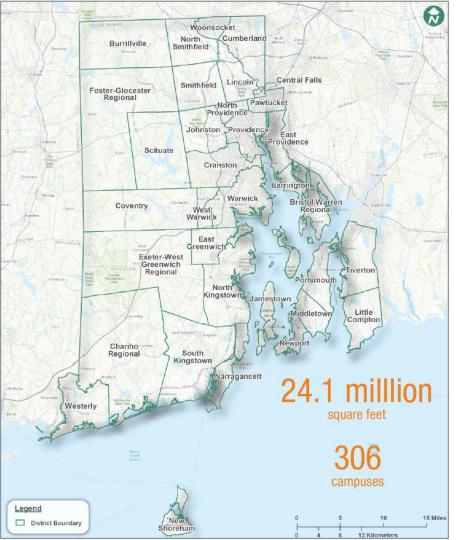
FOR CONSIDERATION

2017

Presentation for:

Statewide Facilities Assessment & Planning Services
Governor Task Force Session — September 29, 2017





Purpose

- Introduce the Process
- Facility Condition Assessment Findings
 - Statewide Need
- Current Funding Programs





Facility Condition Assessment



- Multi Disciplined Assessment Teams
 - Facility Condition
 - Technology
 - Hazardous Materials
 - Traffic Analysis
 - Acoustics Assessment
 - Energy Analysis
- Educational Program Space Assessment
- Capacity/Utilization Analysis



Facility Condition Assessment

50,500
DEFICIENCIES FOUND

 Facility condition assessment evaluates the general health of physical facilities

24,800

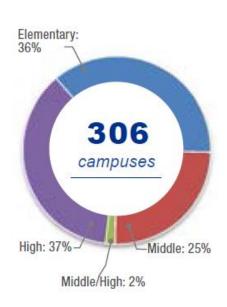
- Condition assessment data:
 - Prioritize deficiencies and life cycle costs based on impact to facility/learning environment
 - Calculate Facility Condition Index

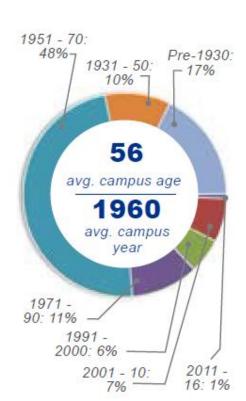


Corroded steel windows
East Providence High School



Facility Portfolio





School Type	Campuses	Building SF
Preschool	6	175,047
Kindergarten - Eighth Grade	5	197,912
Kindergarten - Twelfth Grade	4	265,036
Elementary Schools	177	8,574,661
Middle Schools	50	5,809,766
Middle / High Schools	4	399,144
High Schools	60	8,691,125
Total	306	24,112,691





Facility Condition Assessment



CONDITION ASSESSMENT FINDINGS

PRIORITY 1 & 2 FACILITY +
DEFICIENCIES
(WARM, SAFE & DRY)

\$ 627.6

PRIORITY 3, 4 & 5 FACILITY DEFICIENCIES \$ 1,595.1

FACILITY
DEFICIENCY COST

\$ 2,222.7

- Priority 1 Mission Critical Concerns: may directly affect the school's ability to remain open or deliver the educational curriculum.
 - Building safety, code compliance, severely damaged or failing building components
 - Fire alarm system replacement.
- Priority 2 Indirect Impact to Educational

 Mission: Items that may progress to Priority 1 if not addressed in the near term.
 - Inadequate roofing and window replacements.





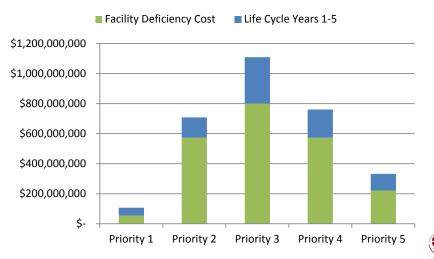
CONDITION ASSESSMENT FINDINGS

\$2,222.7 MILLION FACILITY DEFICIENCY COST

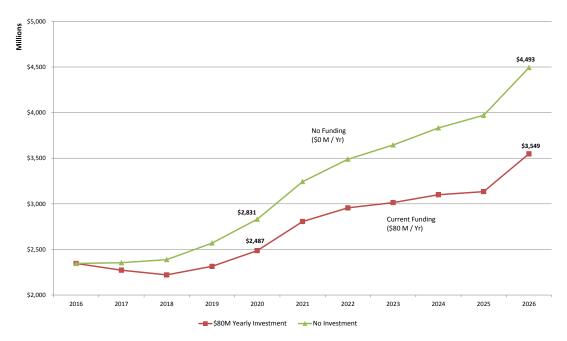
\$793 MILLION
5-YR LIFE CYCLE
FORECAST

\$3,016.2 MILLION COMBINED 5-YR NEED

- Combines current deficiencies costs and five year life cycle renewal costs
- Provides a more comprehensive analysis of the facility needs statewide



Funding Based on Condition Need Only



Current Funding

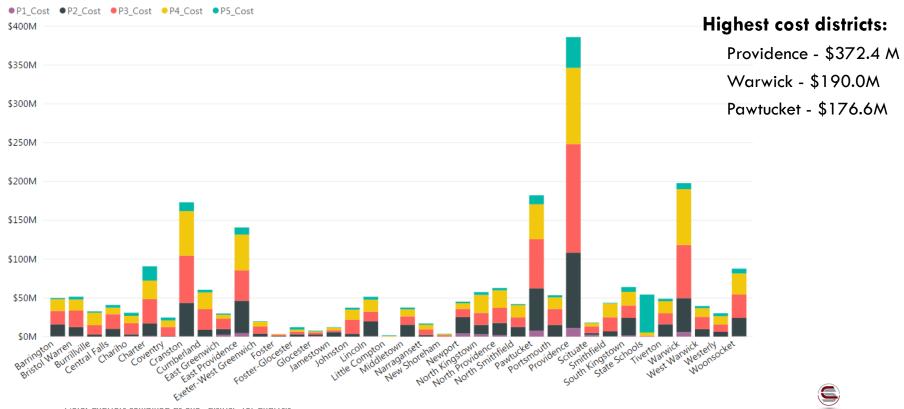
- Inadequately addresses
 - Warm, Safe, Dry Environments
 - Educationally appropriate spaces
 - Technology, FF&E
 - Suitable lighting
 - Appropriate acoustics
- Not improving overall conditions

Moratorium on Funding

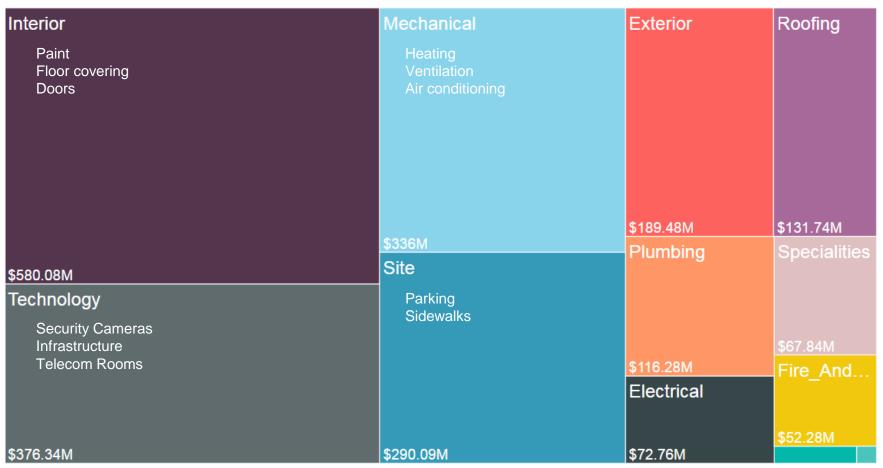
Amplifies issues



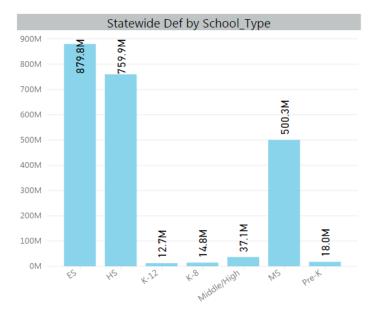
Statewide Deficiencies by Priority



Statewide Deficiencies by System



Deficiency Statewide



- Elementary Schools and High Schools have the largest need
- Elementary and High Schools each make up a third of the building space statewide
- High schools have the most Priority 1 need (\$22M)
- Elementary schools the most Priority 2 need (\$232M)



Concrete delamination to the cast in place concrete beams and slabs.

East Providence High School



Original Simplex fire alarm system annunciator. Toll Gate High School



Plaster at columns dissolving due to water damage.

Academic Success Academy



Retaining wall at parking lot is cracking and deteriorating.

William E. Tolman Senior High School



Mold on slate shingle roofing.

Peace Dale Elementary School



Weathered roofing with significant debris and ponding.

Tiverton High School





Original boiler Steere Farm Elementary School

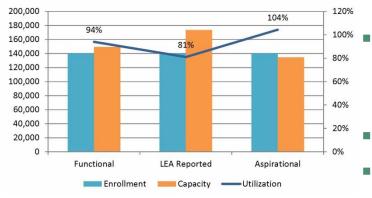


Aged and rusted condensing unit.

John F. Deering Middle School



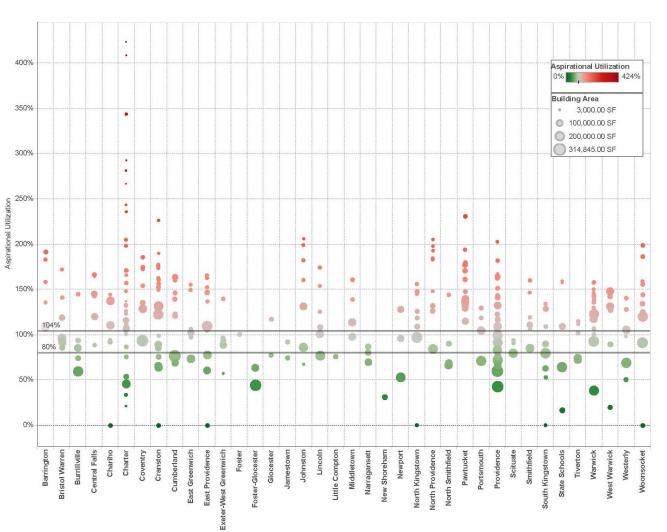
Utilization



- Utilization calculated by dividing enrollment into capacity
 - 2015-16 enrollment

Ideal Utilization

- Elementary Schools 90%
- Middle Schools & High Schools 75 to 85%
- Average Statewide Aspirational utilization = 104%
- **Functional** utilization = 94%
- LEA Reported utilization = 81%





- Statewide Avg. 104%
 - 192 Schools above
- Ideal Avg. 80%
 - 47 Schools below



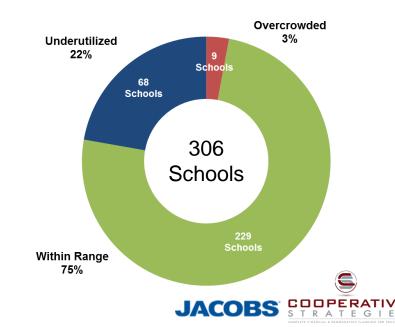
LEA-Reported Utilization



Underutilized

LEA	~	Campus Name ▼	LEA-Reported Utilization
Cumberland		Joseph L. McCourt Middle School	60.1%
North Providence		North Providence High School	59.9%
East Providence		Edward R. Martin Middle School	59.3%
Newport		Rogers High School	59.0%
South Kingstown		South Kingstown High School	59.0%
Exeter-West Greenwich		Metcalf School	58.8%
Scituate		Clayville Elementary School	58.0%
Scituate		Hope Elementary School	57.3%
Scituate		North Scituate Elementary School	57.0%
East Providence		Agnes B. Hennessey School	56.7%
New Shoreham		Block Island School	56.0%
East Providence		Riverside Middle School	54.3%
Burrillville		Burrillville High School	53.8%
Smithfield		Smithfield Senior High School	53.0%
Warwick		Drum Rock Early Childhood Center	52.9%
Burrillville		Burrillville Middle School	52.5%
North Kingstown		North Kingstown Senior High School	51.1%
South Kingstown		Matunuck School	50.5%
Exeter-West Greenwich		Mildred E. Lineham School	47.5%
East Providence		James R. D. Oldham School	41.8%
Foster-Glocester		Ponaganset Middle School	40.7%
Warwick		Warwick Veterans Memorial Junior HS	21.0%
West Warwick		Maisie E. Quinn Elementary School	13.6%

- LEA-reported utilization below 70% underutilized
- LEA-reported utilization above 130% overcrowded



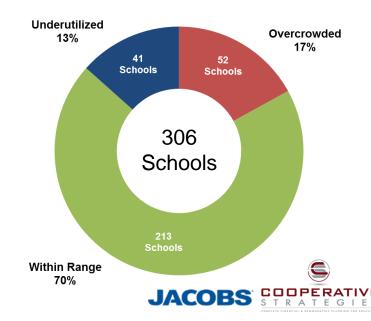
Functional Utilization



Underutilized

LEA	Campus Name	~	Functional Utilization
Cranston	Western Hills Middle School		67.1%
South Kingstown	Matunuck School		67.1%
Lincoln	Lincoln Senior High School		66.4%
Lincoln	Lincoln Middle School		65.5%
Tiverton	Tiverton High School		64.4%
Glocester	West Glocester Elementary		64.3%
East Providence	Edward R. Martin Middle School		64.1%
Jamestown	Jamestown School-Lawn		64.0%
North Smithfield	North Smithfield Middle School		63.8%
Woonsocket	Woonsocket Middle School - Hamlet/Nova		61.8%
Cranston	Hugh B. Bain Middle School		61.0%
North Smithfield	North Smithfield High School		61.0%
Tiverton	Tiverton Middle School		58.7%
Narragansett	Narragansett High School		58.1%
South Kingstown	South Kingstown Inclusionary Preschool		55.6%
Foster-Glocester	Ponaganset High School		52.9%
Narragansett	Narragansett Pier Middle School		52.8%
East Providence	Riverside Middle School		46.9%
Foster-Glocester	Ponaganset Middle School		45.4%
Chariho	R.Y.S.E. School		44.4%
Warwick	Warwick Veterans Memorial Junior HS		35.0%
New Shoreham	Block Island School		33.1%
West Warwick	Maisie E. Quinn Elementary School		14.1%

- LEA-reported utilization below 70% underutilized
- LEA-reported utilization above 130% overcrowded

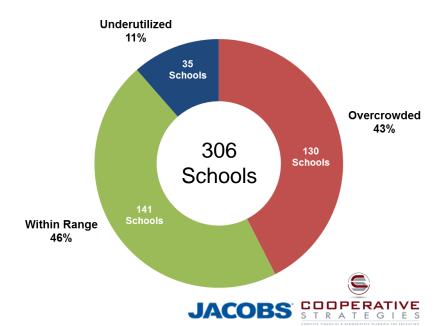


Aspirational Utilization

Underutilized

LEA	Campus Name	Aspirational Utilization
Narragansett	Narragansett High School	69.7%
North Smithfield	North Smithfield Middle School	69.4%
Cumberland	Community School	69.1%
Westerly	Westerly High School	69.1%
Johnston	Graniteville School	67.6%
North Smithfield	North Smithfield High School	66.4%
Providence	Asa Messer Elementary School	65.8%
Cranston	Hugh B. Bain Middle School	65.3%
Cranston	Park View Middle School	63.9%
Foster-Glocester	Ponaganset Middle School	63.2%
South Kingstown	Peace Dale Elementary School	62.7%
East Providence	Riverside Middle School	60.1%
Burrillville	Burrillville High School	59.6%
Providence	Mount Pleasant High School / Evolutions HS	59.6%
Exeter-West Greenwich	Mildred E. Lineham School	57.6%
Newport	Rogers High School	53.2%
South Kingstown	South Kingstown Inclusionary Preschool	52.9%
Westerly	Dunn's Corners School	49.8%
Foster-Glocester	Ponaganset High School	44.2%
Providence	Providence Career and Technical Academy	42.8%
Warwick	Warwick Veterans Memorial Junior HS	38.1%
New Shoreham	Block Island School	31.4%
West Warwick	Maisie E. Quinn Elementary School	19.1%

- Aspirational utilization below 70% underutilized
- Aspirational utilization above 130% overcrowded



FACILITY CONDITION INDEX

Total Building Repair Cost



Total Replacement



Facility Condition Index

LEA	Campus Name	5-Year FCI
SouthSide Charter School	SouthSide Elementary Charter School	131.2%
Sheila Skip Nowell Leadership Academy	Nowell Leadership Academy - Capital Campus	89.8%
Pawtucket	Potter-Burns School	87.3%
North Providence	Marieville Elementary School	84.2%
Greene School Charter	Greene School	79.5%
North Smithfield	Dr. Harry L. Halliwell Memorial School	77.5%
North Kingstown	Forest Park Elementary School	77.4%
Woonsocket	Bernon Heights School	76.8%
Hope Academy	Hope Academy	74.5%
Barrington	Nayatt School	72.9%
Paul Cuffee Charter School	Paul Cuffee Charter School - Middle School	72.6%
Providence	Frank D. Spaziano Elementary School Annex	71.2%
Providence	Academy for Career Exploration (ACE)	71.1%
North Providence	Centredale School	69.9%
Newport	Rogers High School	69.7%
Warwick	Norwood School	69.5%
Blackstone Valley Prep	Blackstone Valley Prep High School	66.8%
Cranston	Woodridge School	65.3%

Replacement Candidates



- General Indicator of a facilities health
- Financial modeling suggests FCIs of 65% or greater are candidates for replacement
- FCI is **only one indicator** and is not the only factor

Programmatic Needs



Early Childhood

- Based on the current enrollment of pre-kindergarten students and current space standards, there is a shortfall in space for early childhood programs.
 - Current PreK space 133,731 SF
 - Needed PreK space 188,400 SF
 - Shortfall 50,000 SF

STEAM

In Rhode Island there are **23 middle schools and 47 high** schools **without dedicated science classrooms**. STEAM programs have been shown to create critical thinkers, improve science literacy, and enable the next generation of innovators.

Children in Rhode Island will be afforded better educational experiences through enhanced course offerings and better equipped facilities.

Programmatic Needs



Career and Technical Education

- Provide students with greater exposure to CTE curriculum by investing in renovating outdated CTE campuses
 - Woonsocket Area CTE
 - East Providence CTE

Children in Rhode Island will be afforded better educational experiences through enhanced course offerings and better equipped facilities.