Citizens’ Advisory Committee
Meeting 2
September 19, 2022

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Welcome from your Superintendent

Dr. Jamie Wilson
Superintendent
Denton ISD
Agenda

- WELCOME
- PROCESS REVIEW
- DEMOGRAPHICS
- FACILITY NEEDS ASSESSMENT
- SAFETY & SECURITY
- TECHNOLOGY & INFRASTRUCTURE
- CLOSING
Dr. Lizzy Johnson
Facilitator
lizzy@transcend4.com
940.595.0251
Charge to Committee

To help the district plan for the future, the Citizens’ Advisory Committee is charged to:

- Assess and prioritize the district’s current and long-term facility needs, including, but not limited to:
  - District growth and capacity
  - Building age, safety and condition
  - Land acquisition
  - Evolving educational delivery and programs
  - Energy efficiency and sustainable features

- Develop and prioritize potential projects, including new construction, renovations/additions, technology, and other areas that may arise from community input

- Consider the educational needs of all students and align recommendations with the district’s mission, vision and goals

- Represent the entire school district community, values and perceptions, and seek input from other residents

- Consider the district’s current financial position and funding methods to develop a recommendation that is fiscally sound

- Make a recommendation to the Board of Trustees that addresses the district’s growth and facility needs based on the Committee’s identified priorities
Housekeeping

- All relevant materials and information will be distributed to you as handouts.
- Due to time constraints, no breaks have been scheduled. Please take care of your personal needs on your own.
- The Denton ISD Leadership Team is here to serve you and to be a resource. Ask questions.
- Your attendance at every meeting will help yield optimum results for this committee and your community.
Ground Rules

● Only one speaker at a time
● Respect the person who is speaking
● Listen with a desire to contribute & learn
● Engage in the ENTIRE meeting
Q&A Process

● Each table will discuss the information presented and select one question to ask.

● Unanswered questions or concerns will be placed on the ‘parking lot’ to be answered later via email or website post.
This scale makes it easier for participants to be honest. Using it, members can register less-than-whole hearted support without fearing that their statement will be interpreted as a veto.
Dynamics of Group Decision-Making

[ BUSINESS AS USUAL ]

NEW TOPIC

TIME

GROAN ZONE

[ CLOSURE ZONE ]

CONVERGENT ZONE

DECISION POINT

The Diamond of Participatory Decision-Making
Consensus Building Model
Meeting Overview

**Meeting #1**
- Process, timeline, vision, end goal
- Charge from Board of Trustees
- School Finance 101
- Overview of 2018 Bond Projects

**Meeting #2**
- Demographic Report
- Facility Needs Assessment
- Safety & Security
- Technology & Infrastructure

**Meeting #3**
- Athletics
- Child Nutrition & Transportation
- CTE & Fine Arts
- Video Facility Tours

**Meeting #4**
- Land Overview
- Project Priority Presentation
- Priority Worksheet

**Meeting #5**
- Financial Advisor Presentation
- Priority Worksheet and Mock Vote

**Meeting #6**
- Bond Package Development with CoVoice
- SWOT Analysis regarding potential bond
CAC Information Link
https://www.dentonisd.org/cac2022

Construction/2018 Bond Projects Link
www.dentonisd.org/construction

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State Enrollment Trends

2021/22 State Enrollment
Total Enrollment 5,427,370
Total Growth 55,780

Texas ISD Enrollment Change

1 Year Enrollment Change
-1,000 or more
-500 to -1,000
0 to -500
1 to 500
501 to 1,000
> 1,000
Region 10 & 11 Enrollment Trends

- Denton ISD enrollment increased by 3,323 students between 2016/17 and 2021/22, an increase of 11.6%
- Denton ISD is the second fastest growing district in Region 11
## DFW New Home Ranking Report

### ISD Ranked by Annual Closings – 2Q22

<table>
<thead>
<tr>
<th>Rank</th>
<th>District Name</th>
<th>Annual Starts</th>
<th>Annual Closings</th>
<th>Inventory</th>
<th>VDL</th>
<th>Futures</th>
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* Based on additional Templeton Demographics housing research
**Includes Age-Restricted subdivisions
### District Housing Overview by Elementary Zone

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<th>Elementary</th>
<th>Annual Starts</th>
<th>Quarterly Starts</th>
<th>Annual Closings</th>
<th>Quarterly Closings</th>
<th>Under Construction</th>
<th>Inventory</th>
<th>Vacant Dev. Lots</th>
<th>Futures</th>
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<td>8</td>
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<td>532</td>
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<td>142</td>
<td>544</td>
<td>139</td>
<td>553</td>
<td>590</td>
<td>732</td>
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<td>GRAND TOTAL</td>
<td>2,842</td>
<td>621</td>
<td>2,510</td>
<td>619</td>
<td>2,113</td>
<td>2,219</td>
<td>2,965</td>
<td>27,823</td>
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</table>

*Does NOT include age-restricted communities

Highest activity in the category
Second highest activity in the category
Third highest activity in the category
District Housing Overview

- The district has 67 actively building subdivisions
- Within DISD there are 38 future subdivisions
- Of these, groundwork is underway on 4,034 lots within 23 subdivisions
Multi-Family Housing Overview

- There are currently 2,513 units under construction in the district.
- Within Denton ISD there are roughly 6,970 future multi-family units in the planning stages.
- Roughly 1,986 units have been completed in the last 12 months.
Residential Activity

Winn Ridge
- 1,741 total lots
- 253 future lots
- 1,326 occupied homes
- 134 homes under construction
- 9 VDL
- 124 homes closed 2Q22
- Streets being paved in 258 lots in Sec 3
- $195K - $330K

Union Park
- 2,944 total lots
- 816 future lots
- 1,400 occupied homes
- 245 homes under construction
- 460 VDL
- 67 homes started 2Q22
- Streets being paved for 243 lots in Sec 7
- $250K - $4450K

Sandbrock Ranch (DISD)
- 2,543 total lots
- 1,127 future lots
- 923 occupied homes
- 179 homes under construction
- 288 VDL
- 67 homes closed 2Q22
- Equip on site for 242 lots in Sec 11 & 12; groundwork underway on 147 lots in Sec 10
- $250K - $4450K

ArrowBrooke (Union Park)
- 1,041 total lots
- 213 future lots
- 579 occupied homes
- 182 homes under construction
- 58 VDL
- 59 homes started 2Q22
- Groundwork underway on 173 lots in Sec 7
- $235K - $365K
Residential Activity

Prairie Oaks
- 985 total lots
- 536 future lots
- 303 occupied homes
- 80 homes under construction
- 59 VDL
- Equip on site for 206 lots in Sec 2 & 3; streets being paved for 222 lots in Sec 2 & 4
- $500K+

Spiritas Ranch
- 2,156 total future lots
- Groundwork underway on 183 lots in Sec 1
- First homes anticipated fall 2022
- $500K+
Cole Ranch
- 8,600 total future lots
- Phase 1 Prelim plat under review with Denton P&Z
- Spans approx. 720 acres
- Includes 663 single family lots, 48 townhome lots, and 1 multi-family lots
- Anticipate groundwork begin on single family lots in 2023

Hunter Ranch
- 7,100 total future lots
- In joint development plan with Cole Ranch
- Groundwork estimated begin end of 2022; first homes anticipated early 2024
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<th>Year</th>
<th>EE</th>
<th>PK</th>
<th>K</th>
<th>1st</th>
<th>2nd</th>
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<th>10th</th>
<th>11th</th>
<th>12th</th>
<th>Total</th>
<th>Total %</th>
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<td>2,237</td>
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<td>9,773</td>
<td>9,967</td>
<td>10,163</td>
</tr>
<tr>
<td>Middle School Absolute Change</td>
<td>-139</td>
<td>68</td>
<td>101</td>
<td>79</td>
<td>449</td>
<td>289</td>
<td>472</td>
<td>413</td>
<td>499</td>
<td>419</td>
<td>194</td>
<td>196</td>
<td></td>
</tr>
<tr>
<td>Middle School Percent Change</td>
<td>-1.95%</td>
<td>0.97%</td>
<td>1.43%</td>
<td>1.10%</td>
<td>6.21%</td>
<td>3.76%</td>
<td>5.92%</td>
<td>4.89%</td>
<td>5.64%</td>
<td>4.48%</td>
<td>1.99%</td>
<td>1.97%</td>
<td></td>
</tr>
<tr>
<td>Braswell High School</td>
<td>3,350</td>
<td>2,446</td>
<td>2,728</td>
<td>3,020</td>
<td>3,173</td>
<td>3,351</td>
<td>3,523</td>
<td>3,701</td>
<td>4,029</td>
<td>4,433</td>
<td>4,736</td>
<td>5,043</td>
<td>5,300</td>
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<tr>
<td>Denton High School</td>
<td>2,460</td>
<td>2,023</td>
<td>1,924</td>
<td>1,996</td>
<td>2,046</td>
<td>2,069</td>
<td>2,113</td>
<td>2,116</td>
<td>2,176</td>
<td>2,180</td>
<td>2,295</td>
<td>2,458</td>
<td>2,600</td>
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<tr>
<td>Fred Moore High School</td>
<td>68</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>John Guyer High School</td>
<td>3,200</td>
<td>2,621</td>
<td>2,626</td>
<td>2,597</td>
<td>2,617</td>
<td>2,521</td>
<td>2,478</td>
<td>2,376</td>
<td>2,317</td>
<td>2,345</td>
<td>2,292</td>
<td>2,382</td>
<td>2,397</td>
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<tr>
<td>Ryan High School</td>
<td>2,340</td>
<td>2,197</td>
<td>2,226</td>
<td>2,286</td>
<td>2,364</td>
<td>2,370</td>
<td>2,360</td>
<td>2,380</td>
<td>2,443</td>
<td>2,491</td>
<td>2,580</td>
<td>2,782</td>
<td>2,926</td>
</tr>
<tr>
<td>The LaGrone Academy</td>
<td>0</td>
<td>202</td>
<td>237</td>
<td>237</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>HIGH SCHOOL TOTALS</td>
<td>11,350</td>
<td>9,355</td>
<td>9,762</td>
<td>10,192</td>
<td>10,493</td>
<td>10,367</td>
<td>10,530</td>
<td>10,629</td>
<td>11,021</td>
<td>11,505</td>
<td>11,959</td>
<td>12,721</td>
<td>13,279</td>
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<td>High School Absolute Change</td>
<td>185</td>
<td>407</td>
<td>430</td>
<td>301</td>
<td>301</td>
<td>-126</td>
<td>163</td>
<td>99</td>
<td>392</td>
<td>484</td>
<td>454</td>
<td>762</td>
<td>558</td>
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<tr>
<td>High School Percent Change</td>
<td>2.02%</td>
<td>4.35%</td>
<td>4.41%</td>
<td>2.95%</td>
<td>-1.20%</td>
<td>1.57%</td>
<td>0.94%</td>
<td>3.69%</td>
<td>4.39%</td>
<td>3.95%</td>
<td>6.37%</td>
<td>4.39%</td>
<td></td>
</tr>
<tr>
<td>Denton J J A E P</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Juvenile Detention CTR</td>
<td>43</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>0</td>
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<tr>
<td>Lester Davis School</td>
<td>7</td>
<td>52</td>
<td>52</td>
<td>52</td>
<td>52</td>
<td>52</td>
<td>52</td>
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<td>52</td>
<td>52</td>
<td>52</td>
<td>52</td>
<td>52</td>
</tr>
<tr>
<td>ALTERNATIVE SCHOOL TOTALS</td>
<td>58</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
<td>106</td>
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<tr>
<td>DISTRICT TOTALS</td>
<td>41,302</td>
<td>30,267</td>
<td>32,006</td>
<td>33,380</td>
<td>34,716</td>
<td>35,853</td>
<td>37,201</td>
<td>38,579</td>
<td>38,857</td>
<td>41,298</td>
<td>42,648</td>
<td>44,098</td>
<td>45,281</td>
</tr>
<tr>
<td>District Absolute Change</td>
<td>-641</td>
<td>1,739</td>
<td>1,374</td>
<td>1,336</td>
<td>1,137</td>
<td>1,347</td>
<td>1,378</td>
<td>1,278</td>
<td>1,441</td>
<td>1,350</td>
<td>1,449</td>
<td>1,183</td>
<td></td>
</tr>
<tr>
<td>District Percent Change</td>
<td>-2.1%</td>
<td>5.7%</td>
<td>4.3%</td>
<td>4.0%</td>
<td>3.3%</td>
<td>3.8%</td>
<td>3.7%</td>
<td>3.3%</td>
<td>3.6%</td>
<td>3.3%</td>
<td>3.4%</td>
<td>2.7%</td>
<td></td>
</tr>
</tbody>
</table>

Yellow box = over capacity
Key Takeaways

- 2022/23 enrollment in position to exceed 33,000 students
- Multifamily likely to play a larger role with enrollment growth
- Groundwork is underway on roughly 4,034 lots within 25 subdivisions
- Enrollment approaching 39,000 by the fall of 2026 and over 45,000 students fall of 2031
Denton ISD: 20-Year Growth Scenarios – Student Growth

LOW (~1800 SF/MF homes per year)

48,062 Total students
- 7,036 additional Elementary students (9-10 campuses)
- 3,287 additional Middle School students (2-3 campuses)
- 4,363 additional High School students (1-2 campuses)
**14,686 Total Additional Students**

Current Forecast (~2,700 SF/MF homes per year)

55,603 students
- 10,322 additional Elementary students (13-14 campuses)
- 5,232 additional Middle School students (3-4 campuses)
- 6,673 additional High School students (1-2 campuses)
**22,227 Total Additional Students**

HIGH (~3,600 SF/MF homes per year)

63,396 students
- 14,383 additional Elementary students (19-20 campuses)
- 6,719 additional Middle School students (4-5 campuses)
- 8,918 additional High School students (2-3 campuses)
**30,020 Total Additional Students**

Campus capacity used for calculations: 740 Elementary, 1,300 Middle, 3,200 High School
Table Talk
Q&A Process

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
DENTON ISD
LRFP Committee Meeting No. 2
Facilities Assessment
September 19, 2022
AGENDA

Process Overview
Campus Overview
PROCESS OVERVIEW
PROCESS OVERVIEW - VLK | LINK®

VLK | CURATION®  Technical Design Guidelines  Safety & Security

Programming & Capacity Analysis  Educational Adequacy Assessment  Facility Conditions Assessment  Demographics
Technical Design Guidelines

Technical Design Guidelines define the established materials and systems to be used by the district to guide new facility construction and make decisions regarding the renovation of existing buildings. The guidelines are established in order to create and maintain physical environments which support the district’s learning goals.

- This will be an evolving document as TEA requirements are continually being updated and as the performance of current systems is evaluated.
A capacity study determines the available number of seats in a school.

- Existing capacity will be compared with developed programs needed for each facility.
- By evaluation of campus floor plans and class schedules, the capacity study determines the functional capacity of the academic spaces and the operational capacity of the core areas (Dining, Library, Media Center)
A facility Condition Assessment is conducted in order to evaluate the current condition of building systems, finishes, materials, and site conditions. This information is used to formulate plans for not only current maintenance/repair needs, but also to prepare a long term plan for the buildings evaluated.

- VLK staff and engineers conducted a facility walk through to verify TAS Facility Assessment and document existing conditions. Life safety, maintenance items, life cycle replacement items, sub-standard education conditions, safety and security, non-compliant conditions were reviewed.
- Cost information was identified for each deficiency and is used to determine future needs.
### PROCESS OVERVIEW - DISTRICT CAPITAL NEEDS

#### PRIORITIZATION MEASURES

<table>
<thead>
<tr>
<th>PRIORITY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Items that address deficiencies related to Life Safety, campus security, and/or accessibility. 0-1 Years</td>
</tr>
<tr>
<td>2</td>
<td>Items that address deficiencies related to building envelop (roofing and windows), building systems (HVAC or lighting), or other near term major maintenance needs. 2-5 Years</td>
</tr>
<tr>
<td>3</td>
<td>Items or systems which are likely to require attention within the next ten years, or would be considered an enhancement to the instructional environment. The enhancements may be aesthetic or may provide greater functionality (ceiling or flooring replacement, roofing, walls and doors.) 5-10 Years</td>
</tr>
<tr>
<td>4</td>
<td>Items that address deficiencies related to maintenance items addressable directly by Denton ISD staff.</td>
</tr>
</tbody>
</table>
PROCESS OVERVIEW

ELEMENTARY SCHOOLS
- Alexander Elementary
- Blanton Elementary
- Borman Elementary
- EP Rayzor Elementary
- Evers Park Elementary
- Ginnings Elementary
- Hawk Elementary
- Hodge Elementary
- Houston Elementary
- McNair Elementary

MIDDLE SCHOOLS
- Calhoun Middle School
- Crownover Middle School
- Harpool Middle School
- McMath Middle School
- Navo Middle School
- Strickland Middle School
- Nelson Elementary
- Newton Rayzor Elementary
- Paloma Creek Elementary
- Pecan Creek Elementary
- Providence Elementary
- Rivera Elementary
- Savannah Elementary
- Stephens Elementary
- WS Ryan Elementary
PROCESS OVERVIEW

HIGH SCHOOLS

- Guyer High School
- Ryan High School
- LaGrone ATC
- Fred Moore High School

SUPPORT FACILITIES

- Norm Sisk Annex
- Virginia Gallian CDC
- Central Services Building
- Communications Building
- Davis School
- Fred Moore Nursery Day School
- Professional Development Center
- Publications/Wellness Center
- West Transportation Center
- C.H. Collins Complex
SELECT CAMPUS OVERVIEW
CAMPUS OVERVIEW - WS RYAN ELEMENTARY SCHOOL

2002 - Original Construction
2011 - Addition
**CAMPUS OVERVIEW:** WS RYAN ELEMENTARY SCHOOL

---

### WS Ryan Elementary School

**Date of Start:** August 1, 2022

**Architectural and MEP**

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Material</th>
<th>Original Cost</th>
<th>New Cost</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A101</strong></td>
<td><strong>Main Entrance</strong></td>
<td>Steel</td>
<td>$12,000</td>
<td>$15,000</td>
<td>$3,000</td>
</tr>
<tr>
<td><strong>A102</strong></td>
<td><strong>Library</strong></td>
<td>Wood</td>
<td>$8,000</td>
<td>$10,000</td>
<td>$2,000</td>
</tr>
<tr>
<td><strong>A103</strong></td>
<td><strong>Classrooms</strong></td>
<td>Ceramic</td>
<td>$6,000</td>
<td>$7,000</td>
<td>$1,000</td>
</tr>
<tr>
<td><strong>A104</strong></td>
<td><strong>Cafeteria</strong></td>
<td>Stainless Steel</td>
<td>$10,000</td>
<td>$12,000</td>
<td>$2,000</td>
</tr>
<tr>
<td><strong>A105</strong></td>
<td><strong>Playground</strong></td>
<td>Rubber</td>
<td>$5,000</td>
<td>$6,000</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

---

**Interior Design**

- **Wall Tiles:** Mixed Colors
- **Ceiling Lights:** LED
- **Furniture:** Custom Design

---

**Photos:**

- Classroom: Modern and colorful walls
- Library: Spacious and inviting

---

**Contact:**

- **Architect:** John Smith
- **Engineer:** Jane Doe

---

**Notes:**

- Project 100% Complete
- Budget Met
- Client Satisfaction

---

**Credits:**

- **Design Firm:** Blue Sky
- **Construction Firm:** Green Building

---

**Next Steps:**

- Finalize landscaping
- Schedule maintenance checks

---
CAMPUS OVERVIEW - WS RYAN ELEMENTARY SCHOOL

EDUCATIONAL ADEQUACY
- Some portions of classroom casework are outdated for current technology

FACILITY REPAIR / UPGRADE
- Roofing Replacement
- Ceiling Replacement
- Renovate all group restrooms
- Renovate all single restrooms
- Replace classroom casework in select areas
- Replace select kitchen equipment
- Replace finishes in kitchen serving

MECHANICAL / ELECTRICAL / PLUMBING
- Replace lighting throughout with LED
- Replace Fire Alarm System
- Replace plumbing fixtures as a part of restroom renovations

OTHER ISSUES
- Add chain link fencing to secure playground
- Repair/replace select portions of sidewalk and curbs
CAMPUS OVERVIEW - GENERAL ASSESSMENT OBSERVATIONS

HVAC REPAIR & REPLACEMENT
- Life cycle repairs or replacement of HVAC systems needed at 23 facilities
- HVAC controls system is at end of life at 18 facilities and must be replaced

FOOD SERVICE EQUIPMENT REPLACEMENT
- Needs have been identified for select equipment replacement at 25 facilities

ROOF LIFE CYCLE REPLACEMENT
- Roof replacement is needed at 16 facilities totaling more than 1,043,600 SF of roof surface

ENERGY RELATED UPGRADES
- Opportunities exist to replace interior/exterior lighting at many assessed facilities with LED fixtures delivering energy savings to the district

INTERIOR FINISH REPLACEMENT
- Many finishes in the assessed facilities are approaching end of life

ACCESS CONTROL
- Controls system is at end of life at 13 facilities and must be replaced
Table Talk
Q&A Process

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Safety and Security

September 19, 2022
Dr. Jeff Russell
Area Superintendent
drussell2@dentonisd.org

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Philosophy
Continue to make our schools the safest place for staff and students using best practices and current technology
2018 Bond
Safety & Infrastructure
Projects - **COMPLETE**

- Restricted Access - Add restricted access control system at main entrance of all schools
- Security - Replace all analog security cameras and increase the number of HD cameras
- Secure Vestibules - Add security features at Davis & Ann Windle
- Technology - Replace fiber
- Building Control Systems - Replace climate control systems at 22 facilities
Safety and Security Upgrades

2020 TEA Grant Provided installation of impact resistant film to all campus exterior doors and entryways - $500,000
Needs:
Hardening of Interiors

Additional Impact Resistant Film within the interior of buildings - beyond the front door

Evaluation of campus front office design and the development of safe rooms based upon campus design, needs

Opaque or one-way treatments for visibility reduction for intruders
Needs: Technology

**Camera Upgrades** to increase communication between first responders and the district

**Vape Detectors** for all Secondary Campuses

**Mass Remote Lock Down capability** for each campus
Key Points & Takeaways

• Continue to harden exteriors of each campus where needed

• Harden campus interiors using impact resistant film

• Improve the district’s camera technology for enhanced communication and greater responsiveness
Dr. Jeff Russell
Area Superintendent
jrussell2@dentonisd.org

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Technology—Definition

- A critical, **strategic** investment in the education and future of students

- **Potentially anything** that uses electricity

- Includes smart devices, tablets, phones, and any other Internet of Things (IoT) device (e.g. doorbell cameras, smart lighting)

- Indispensable in the 3rd decade of the 21st century.

- DISD is a **Fortune-500**-equivalent organization in technology infrastructure
  - 40,000 internal users
Technology–Needs

20-year Refresh Plan

- Calculated per year based on
  - Device Lifecycle
  - Projected Student Count
  - Projected School Count
  - Projected Employee Count
  - Projected E-rate Funding

- Covers
  - Equipment Refreshes
  - Construction
  - New Standards/Best Practices
  - Safety & Security (Cybersecurity, too)
# Technology–20-Year Plan

<table>
<thead>
<tr>
<th>Year</th>
<th>Objective 1</th>
<th>Objective 2</th>
<th>Objective 3</th>
<th>Objective 4</th>
<th>Objective 5</th>
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<td>2023</td>
<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
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<td>2024</td>
<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
</tr>
<tr>
<td>2025</td>
<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
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<tr>
<td>2026</td>
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<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
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<td>2027</td>
<td>Target 1</td>
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<td>2028</td>
<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
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<td>2029</td>
<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
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<td>Target 1</td>
<td>Target 2</td>
<td>Target 3</td>
<td>Target 4</td>
<td>Target 5</td>
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</table>

*Note: Specific details for each objective will be provided in the corresponding sections.*
Equipment Refreshes
Moore's Law states that the number of transistors on a microchip doubles about every two years, though the cost of computers is halved. In 1965, Gordon E. Moore, the co-founder of Intel, made this observation that became known as Moore's Law.

- Consider a computer generation to be 2 years.
# Technology–Equipment Refreshes

Windows 7 was our computer operating system in 2009. Today we use Windows 10.

<table>
<thead>
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<th></th>
<th>Processor Cores</th>
<th>RAM</th>
<th>Hard Drive</th>
<th>VRAM</th>
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</thead>
<tbody>
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<td>Windows 7 (2009)</td>
<td>Single</td>
<td>1 GB</td>
<td>16 GB</td>
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<tr>
<td>Windows 10 (2015)</td>
<td>Dual</td>
<td>4 GB</td>
<td>64 GB</td>
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<tr>
<td>Adobe Creative Cloud</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018 (just Photoshop)</td>
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<td>2 GB</td>
<td>2.6 GB</td>
<td>512 MB</td>
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<tr>
<td>Adobe Creative Cloud</td>
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<td>8 GB</td>
<td>4 GB</td>
<td>1.5 GB</td>
</tr>
<tr>
<td>2022 (just Photoshop)</td>
<td></td>
<td>8 GB</td>
<td>4 GB</td>
<td>1.5 GB</td>
</tr>
</tbody>
</table>

Desktop Computer–1988
Technology–Equipment Refreshes

- 65,000 End-User Devices
- 4,500 Phones
- 4,400 Wireless Access Points
- 2,000 Surveillance Cameras
- 1,000 Network Switches
- 1,500 Promethean Panels
- TVs
- Redundant Backup Systems
- UPSs (Uninterruptible Power Supply)
- Firewalls
- Printers/Copiers
- Large Venue A/V
- Classroom A/V
- Public Address Systems
Technology–Equipment Refreshes

- 20,000,000 documents processed per day for authentication/event logs
- 3 TB of data to maintain 1 month of monitoring data
  - ~3,900 filing cabinets full of paper documents
  - ~600,000 songs
- Near real-time reporting and alerts on suspicious activity

Moore’s Law, Arithmetically (What it really looks like)
https://homepages.cwi.nl/~steven/Talks/2016/01-08-internet/#L587
Technology–Equipment Refreshes

• Why are equipment refreshes important?
  • Old equipment (i.e. >5-years old) is vulnerable and dangerous!
  • Old software (i.e. >2 versions old) is vulnerable and dangerous!

A hacker in his native dress & environment
Construction
Technology–Construction

Classroom & Role-based Standards

- 75” Promethean Panel
- Extron Control System
- Integrated Public Address
- Document Camera
- Teacher Desktop
Technology–Construction

Surveillance Cameras

- Everywhere!
- Hi-Def
- Low Light

Surveillance in an Elementary Entry Corridor
Technology–Construction

Fiber Optic Connectivity

- It is significantly cheaper for us to install fiber optics ourselves rather than leasing lines if the line is used for more than 2 years.
- That connection to our wide-area network will last more than 20 years.
- Many of our sites have multiple links
Technology–Construction

Equipment

- Example: The new Denton High School has
  - 3,600 Wired Connections
  - 2,300 Chromebooks
  - 546 Desktop Computers
  - 234 Webcams
  - 156 Laptops
  - 130 Promethean Panels
  - 125 Document cameras
  - 75 Network Switches
  - 21 Printers
  - 15 MDFs/IDFs (Data Closets)
  - 15 Copiers
Business Continuity Power

- Devices
  - UPS
  - On-site Generators (secondary schools only)
  - Generator truck with building umbilical (elementary)

- Purpose
  - A UPS will keep connected equipment alive for 20 minutes or so
  - A generator will keep connected devices alive for as long as it has fuel.
Technology–Construction

HVAC in MDF/IDF

• Computing equipment is very sensitive to heat and can react to high heat by behaving erratically or having a greatly reduced lifespan.
New Standards/Best Practices
Technology—New Standards

Ubiquitous WiFi 6

- WiFi with sufficient capacity for the number of users in a space and WiFi in every space both inside and outside, including playgrounds and parking lots.
- Parents, students, staff, and visitors expect high performance from our WiFi
Technology–New Standards

Ubiquitous WiFi 6

- Everyone has 2 or 3 devices on them at all times.
- Chromebooks are the “textbook” for digital resources for ALL 32,000 students. Chromebooks are wireless and get their data almost exclusively through that connection.
Technology–New Standards

Ubiquitous WiFi 6

- WiFi 6 is a recently released standard and supports 50% more connections per access point.
- WiFi 6 allocates bandwidth more efficiently
- Improved wireless speeds for all users
Technology–New Standards

Near-Zero Blind Spots

• Surveillance coverage of every possible angle in every possible space both outside and inside, including playgrounds and parking lots, using a minimum number of strategically placed, high-definition cameras.

• Not classrooms
Technology–New Standards

Essential Technology Provided Centrally

- Campus budgets are fixed, based on student count.
- Handling those expenses centrally frees up that fixed budget for other classroom needs.
Safety & Security
Technology–Safety & Security

- Cell Phone Boosters
- AI-based Monitoring
- Ubiquitous Video Doorbells
- UPSs
- Generators (secondary)
- Generator Truck (elementary)
- Generator & UPS Rewiring
- Near-Zero Blindspot Surveillance
- Redundant Systems & Infrastructure
Key Points & Takeaways

• Technology is a critical, strategic investment in the education and future of students
• In addition to refreshing the equipment we have, we need to meet new standards and best practices in existing facilities and new construction.
• Technology ages out, on average, after about five years
• The Technology Division is working from a twenty-year plan because most of these expenses are known and predictable.
• DISD’s infrastructure is equivalent to that of a fortune 500 company with just under 40,000 internal users.
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Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Table Talk
Q&A Process

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.
Monday, October 17th

5:30pm Dinner
6pm-8pm Meeting

Curtis Ramsey
Professional Development Center

Our Mission: Empowering lifelong learners to be engaged citizens who positively impact their local and global community.