# Demographics & GIS Mapping (Attendance Area Planning)

**Columbia Public Schools| December 11, 2023**

# Cooperative Strategies

2,000+ Municipalities Served

15+ Billion Dollars in Bonds

15+ Service Lines

320+ Facilities Master Plans

250 Million Dollars in Owner's Rep.

250+ Million Sq. Ft. of Schools Assessed

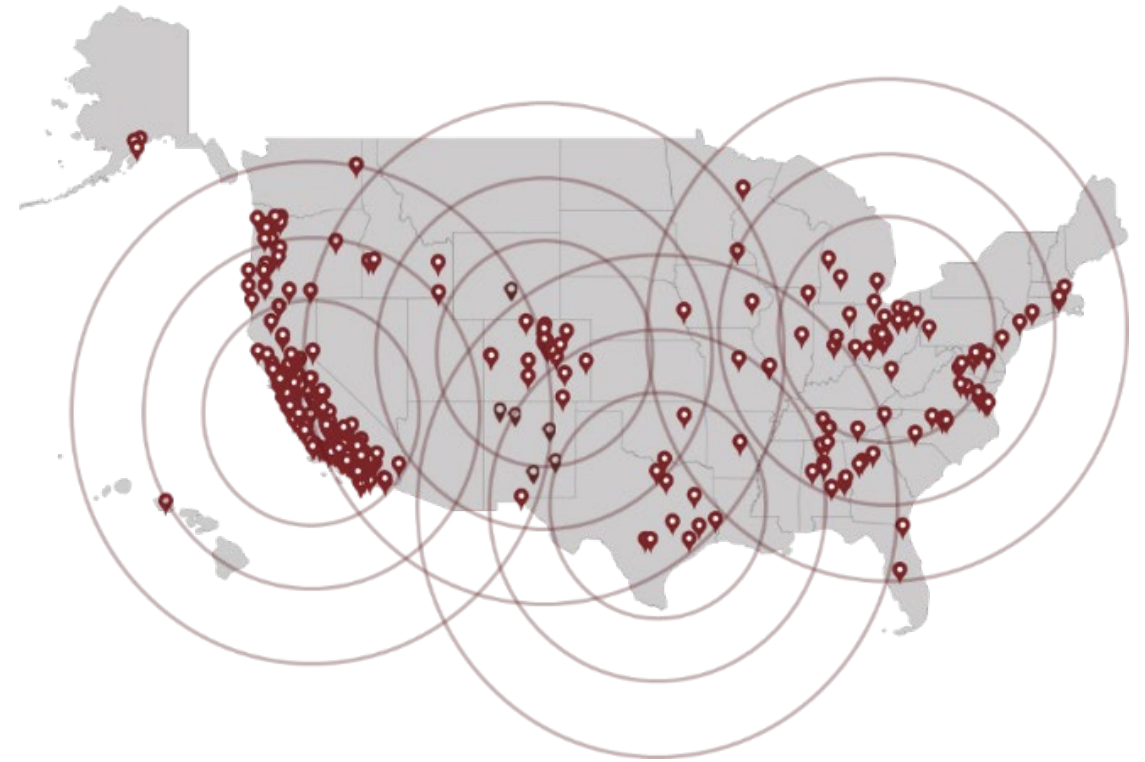3,200+ Enrollment Projections

27+ Years of Experience

Student Potential & Housing Development Studies

280+ Educational Specifications

SaaS Offerings Including My Facility Informer™

3 U.S. Office Locations

COOPERATIVE STRATEGIES

# Attendance Area Planning Process

Plan for Planning → Background Data → Steering Committee → Boundary Work-Sessions → Community Engagement → Recommendation

# Attendance Area Planning Process

## Plan for Planning

- **Confirm process and timeline**
- **Discuss other comparable processes**
- **Define expectations**
- **Discuss any additional goals for this process**
  - **Diversity index/factors**
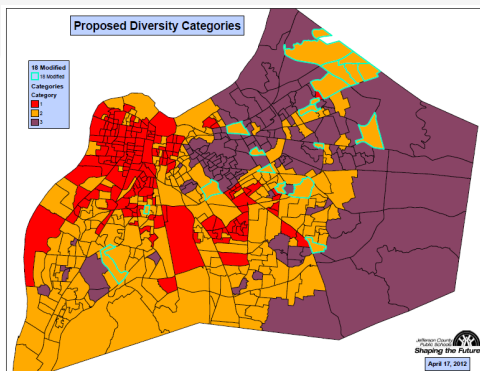
Household Income

Racial Breakdown

Level of Adult Educational Attainment

### CPS Guiding Principles

- The attendance area committee considers this work as part of the District plan. It's one part of a whole.
- The attendance area reflects the composition of the Columbia Public School community.
- The committee recognizes the power of schools to create community.
  - Accessibility for families is essential (volunteering and attending school functions are easier when the school is near)
- The attendance area can anticipate future growth of the neighborhood.
- Consider time students spend on a bus and distance traveled to and from school.
- Consider attendance area lines that follow natural/manmade boundaries.
- Consider a transfer policy that allows 8th and 12th graders to remain at their previous school and policies that allow siblings to remain (8th and 12th grade transportation to be provided by the District).

4

COOPERATIVE STRATEGIES

# Attendance Area Planning Process
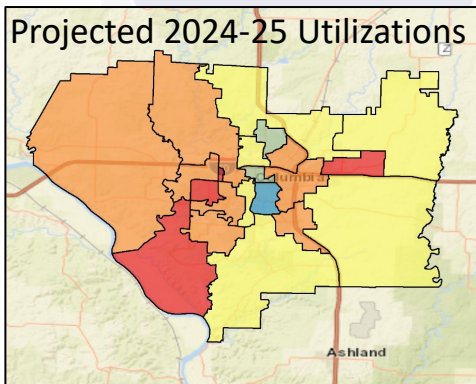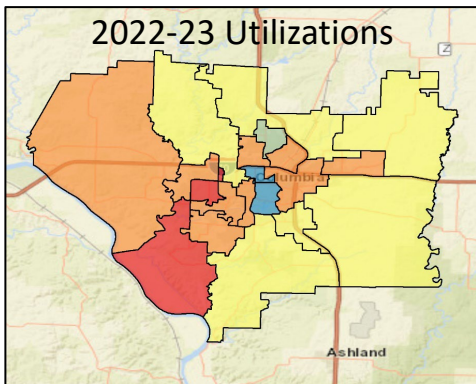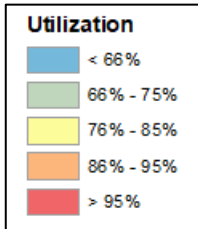
## Background Data

- Current utilizations
- Program placement
- Diversity goals
- Enrollment & housing yield projections
- Current state mapping: density, demographics, capacity, utilization, transfers, etc.
- Closest school analysis
- Project website; Transparency = Trust

**Utilization**
- < 66%
- 66% - 75%
- 76% - 85%
- 86% - 95%
- > 95%

2022-23 Utilizations

Projected 2024-25 Utilizations

477 homes

Case #154-2021: Sinclair Farm Rezoning and Preliminary Plat Concept Review
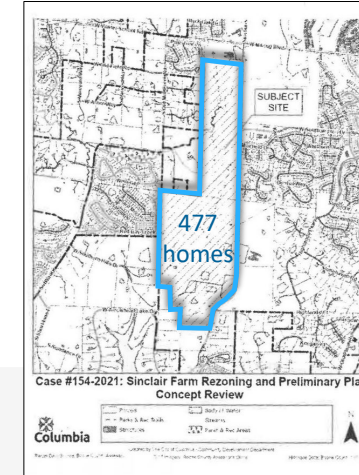
Walk-Zone Map: Rock Bridge ES

Rock Bridge

COOPERATIVE STRATEGIES
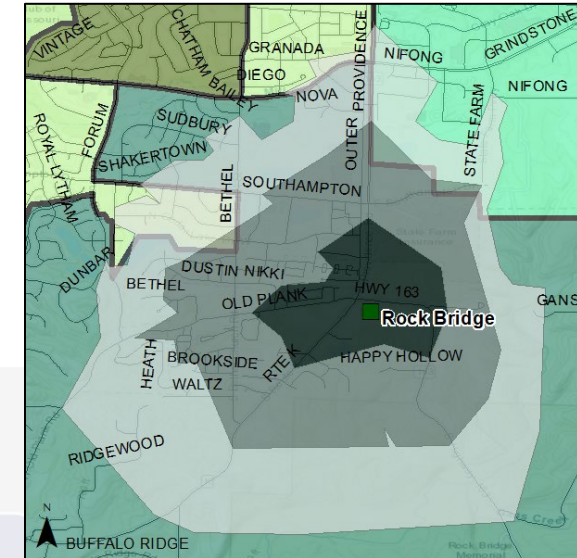
# Attendance Area Planning Process

**Enrollment Projections by Boundary of Residence (geography-based)**

## 10-year enrollment projections by grade, district-wide

- Developed using the cohort survival method
  - 10 years of historical enrollment by grade, by year, by boundary of residence
  - Historical resident live birth counts
- Housing
  - Building permits & housing development information
- Census datasets

**Boundary Planning**

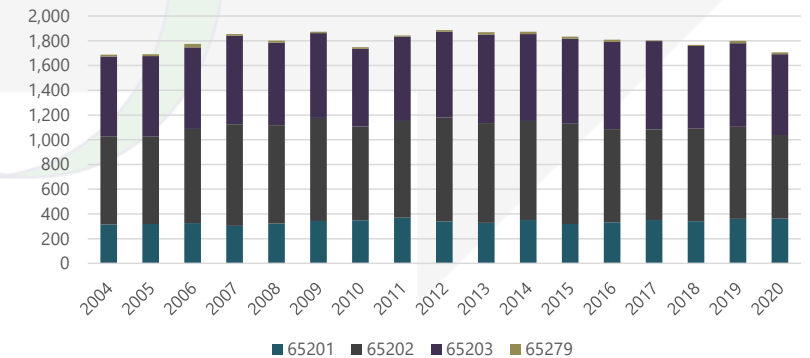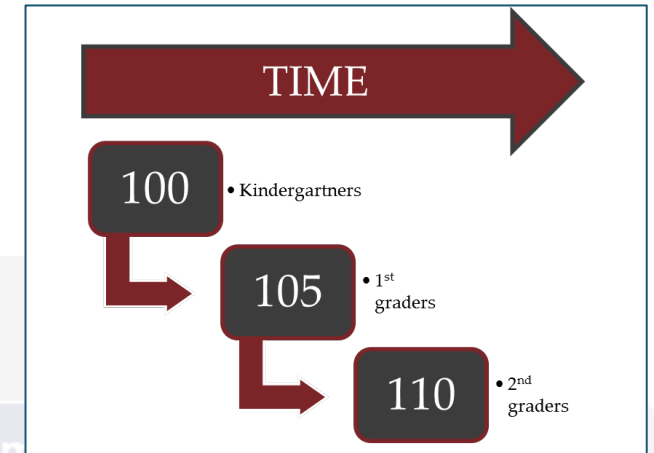Plan for Planning | Background Data | Redistricting Committee | Boundary Work-Sessions | Community Engagement | Recommendation



TIME

100 • Kindergartners
105 • 1st graders
110 • 2nd graders

**Historical Enrollment - District-wide**

| Grade | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
|---|---|---|---|---|---|---|---|---|---|---|
| K | 1,441 | 1,404 | 1,307 | 1,337 | 1,421 | 1,442 | 1,451 | 1,165 | 1,428 | 1,336 |
| 1 | 1,423 | 1,457 | 1,383 | 1,338 | 1,381 | 1,443 | 1,460 | 1,326 | 1,317 | 1,490 |
| 2 | 1,371 | 1,431 | 1,454 | 1,378 | 1,331 | 1,381 | 1,465 | 1,375 | 1,368 | 1,339 |
| 3 | 1,388 | 1,345 | 1,424 | 1,459 | 1,399 | 1,347 | 1,393 | 1,373 | 1,399 | 1,401 |
| 4 | 1,382 | 1,384 | 1,340 | 1,400 | 1,474 | 1,395 | 1,352 | 1,317 | 1,388 | 1,429 |
| 5 | 1,305 | 1,366 | 1,403 | 1,365 | 1,403 | 1,475 | 1,392 | 1,295 | 1,340 | 1,394 |
| 6 | 1,250 | 1,265 | 1,345 | 1,339 | 1,356 | 1,412 | 1,455 | 1,371 | 1,284 | 1,347 |
| 7 | 1,275 | 1,254 | 1,248 | 1,356 | 1,348 | 1,369 | 1,436 | 1,428 | 1,356 | 1,319 |
| 8 | 1,309 | 1,264 | 1,271 | 1,273 | 1,364 | 1,358 | 1,402 | 1,436 | 1,432 | 1,356 |
| 9 | 1,282 | 1,331 | 1,268 | 1,297 | 1,365 | 1,433 | 1,447 | 1,417 | 1,462 | 1,511 |
| 10 | 1,269 | 1,244 | 1,321 | 1,293 | 1,307 | 1,340 | 1,449 | 1,452 | 1,399 | 1,480 |
| 11 | 1,252 | 1,287 | 1,219 | 1,327 | 1,270 | 1,308 | 1,352 | 1,446 | 1,402 | 1,456 |
| 12 | 1,196 | 1,216 | 1,229 | 1,171 | 1,305 | 1,210 | 1,228 | 1,305 | 1,392 | 1,374 |
| **Grand Total** | **17,143** | **17,248** | **17,212** | **17,333** | **17,724** | **17,913** | **18,282** | **17,706** | **17,967** | **18,232** |

*Source: Columbia Public Schools Student Data*

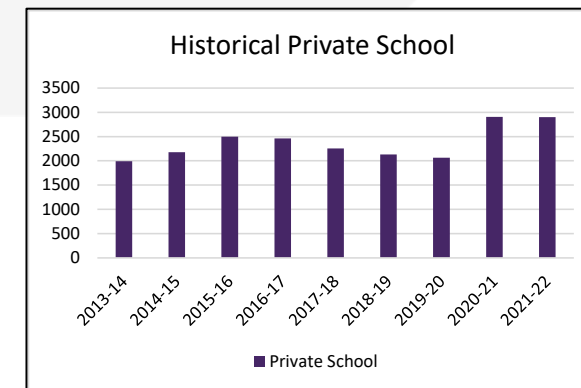**COLUMBIA PUBLIC SCHOOLS ZIP CODES RESIDENT LIVE BIRTH COUNTS**



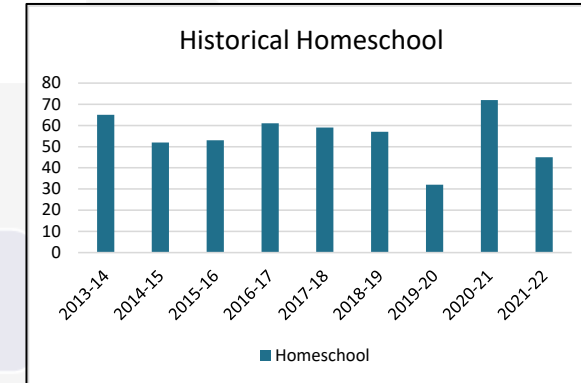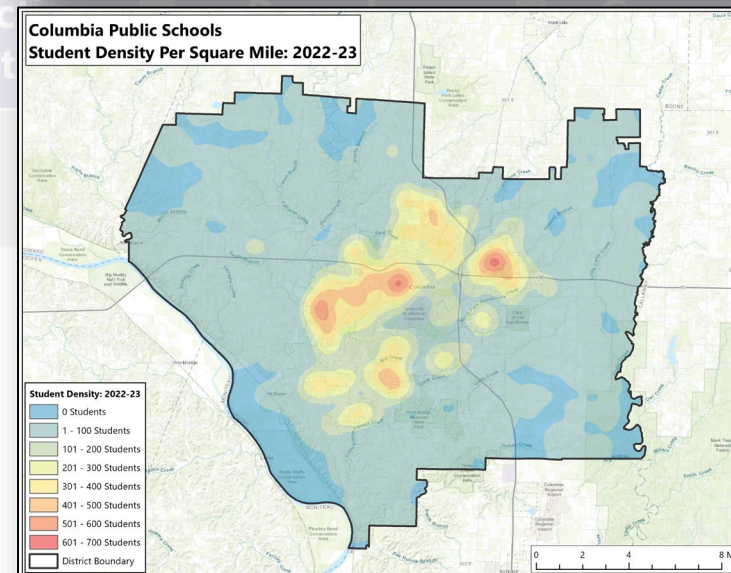65201  65202  65203  65279

COOPERATIVE STRATEGIES

# Attendance Area Planning Process

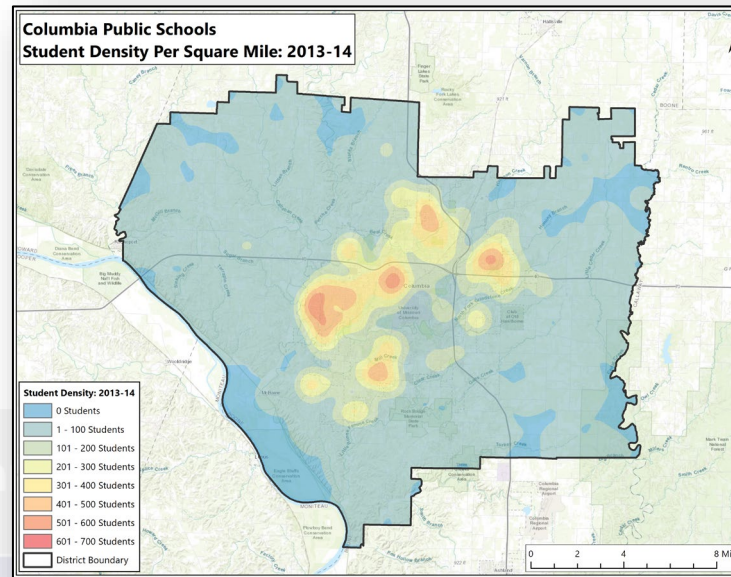| Historical Enrollment by Census Municipality | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
|---|---|---|---|---|---|---|---|---|---|---|
| Columbia Public Schools Boundary | 17,033 | 17,144 | 17,114 | 17,233 | 17,617 | 17,814 | 18,171 | 17,598 | 17,850 | 18,080 |
| | 99.4% | 99.4% | 99.4% | 99.4% | 99.4% | 99.4% | 99.4% | 99.4% | 99.3% | 99.2% |
| Boone County | 17,061 | 17,171 | 17,140 | 17,254 | 17,643 | 17,841 | 18,197 | 17,624 | 17,880 | 18,136 |
| | 99.5% | 99.6% | 99.6% | 99.5% | 99.5% | 99.6% | 99.5% | 99.5% | 99.5% | 99.5% |
| Columbia township | 6,103 | 6,232 | 6,263 | 6,270 | 6,408 | 6,457 | 6,647 | 6,494 | 6,654 | 6,737 |
| | 35.6% | 36.1% | 36.4% | 36.2% | 36.2% | 36.0% | 36.4% | 36.7% | 37.0% | 37.0% |
| Katy township | 614 | 604 | 596 | 594 | 575 | 552 | 543 | 509 | 545 | 520 |
| | 3.6% | 3.5% | 3.5% | 3.4% | 3.2% | 3.1% | 3.0% | 2.9% | 3.0% | 2.9% |
| Missouri township | 8,088 | 8,066 | 7,977 | 7,966 | 8,129 | 8,236 | 8,427 | 8,207 | 8,240 | 8,371 |
| | 47.2% | 46.8% | 46.3% | 46.0% | 45.9% | 46.0% | 46.1% | 46.4% | 45.9% | 45.9% |
| Perche township | 274 | 269 | 264 | 259 | 271 | 284 | 285 | 272 | 255 | 252 |
| | 1.6% | 1.6% | 1.5% | 1.5% | 1.5% | 1.6% | 1.6% | 1.5% | 1.4% | 1.4% |
| Rock Bridge township | 1,637 | 1,650 | 1,692 | 1,845 | 1,941 | 1,983 | 1,995 | 1,862 | 1,927 | 1,981 |
| | 9.5% | 9.6% | 9.8% | 10.6% | 11.0% | 11.1% | 10.9% | 10.5% | 10.7% | 10.9% |
| Rocky Fork township | 125 | 136 | 138 | 120 | 121 | 127 | 118 | 120 | 101 | 96 |
| | 0.7% | 0.8% | 0.8% | 0.7% | 0.7% | 0.7% | 0.6% | 0.7% | 0.6% | 0.5% |
| Three Creeks township | 213 | 208 | 205 | 193 | 188 | 192 | 170 | 146 | 145 | 145 |
| | 1.2% | 1.2% | 1.2% | 1.1% | 1.1% | 1.1% | 0.9% | 0.8% | 0.8% | 0.8% |
| Columbia city | 12,370 | 12,463 | 12,504 | 12,679 | 13,069 | 13,340 | 13,700 | 13,419 | 13,660 | 13,954 |
| | 72.2% | 72.3% | 72.6% | 73.1% | 73.7% | 74.5% | 74.9% | 75.8% | 76.0% | 76.5% |
| Huntsdale town | - | - | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | - | - | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| McBaine town | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Pierpont village | 10 | 9 | 7 | 8 | 8 | 8 | 8 | 7 | 4 | 4 |
| | 0.1% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Rocheport city | - | - | - | 1 | 1 | - | - | - | - | - |
| | - | - | - | 0.0% | 0.0% | - | - | - | - | - |
| Total Students* | 17,143 | 17,248 | 17,212 | 17,333 | 17,724 | 17,913 | 18,282 | 17,706 | 17,967 | 18,232 |

Source: Columbia Public Schools Student Data

*This total reflects the amount of District students, not a total of the values in the table.



Columbia Public Schools
Student Density Per Square Mile: 2013-14

Student Density: 2013-14
- 0 Students
- 1 - 100 Students
- 101 - 200 Students
- 201 - 300 Students
- 301 - 400 Students
- 401 - 500 Students
- 501 - 600 Students
- 601 - 700 Students
- District Boundary



Columbia Public Schools
Student Density Per Square Mile: 2022-23

Student Density: 2022-23
- 0 Students
- 1 - 100 Students
- 101 - 200 Students
- 201 - 300 Students
- 301 - 400 Students
- 401 - 500 Students
- 501 - 600 Students
- 601 - 700 Students
- District Boundary



Historical Transfers

Transfer In — Transfer Out



Historical Homeschool

Homeschool



Historical Private School

Private School

COOPERATIVE STRATEGIES
ASSESS · PLAN · FUND · BUILD

# Attendance Area Planning Process



**HISTORICAL & PROJECTED ENROLLMENT - COLUMBIA PUBLIC SCHOOLS**

Legend: Historical, Projected - Recommended, Projected - Moderate, Projected - Low, Projected - High

Plan for Planning

**Steering Committee**

- **School & community stakeholders**
- **Geographically diverse**
- **Agrees to consider the District as a whole**
- **Focus Groups**

Plan for Planning

Background Data

Boundary Work-Sessions

Community Engagement

Recommendation

COOPERATIVE STRATEGIES

**REVISED SCENARIO 1**
CHANGE AREAS

- No new areas are impacted; some areas may be assigned to a school that was not within the first round of scenarios
- Any school at 60% or more low SES is left slightly under-utilized (in the 80%'s)
- Alpha Hart Lewis, Mill Creek, Shepard Blvd have islands
- Growth around Gans Rd pointed to Rock Bridge (instead of New Haven)
- Areas with potential growth (Rock Bridge, Cedar Ridge, Midway Heights) have some space available
- 2,213 K-5 students moved = 26%
  - 1,846 K-4 students

**Boundary Work-Sessions**

- **Develop and revise boundary options**
- **Use boundary planning criteria to guide options creation**
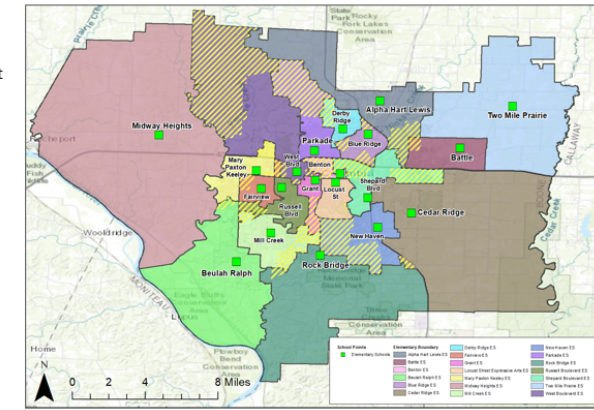


**WYNDHAM RIDGE**
REVISED SCENARIO 2A
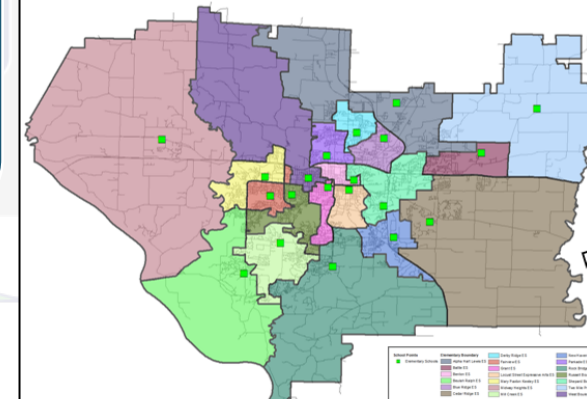
| School | Capacity (No Trailers) | Live-In Enrollment | Utilization | Low SES % |
|---|---|---|---|---|
| Alpha Hart Lewis ES | 650 | 558 | 86% | 58% |
| Battle ES | 450 | 417 | 93% | 50% |
| Benton ES | 260 | 134 | 52% | 81% |
| Beulah Ralph ES | 650 | 623 | 96% | 21% |
| Blue Ridge ES | 500 | 462 | 92% | 66% |
| Cedar Ridge ES | 650 | 520 | 80% | 39% |
| Derby Ridge ES | 556 | 479 | 86% | 62% |
| Fairview ES | 550 | 506 | 92% | 28% |
| Grant ES | 375 | 333 | 89% | 36% |
| Locust Street Expressive Arts ES | 250 | 97 | 39% | 59% |
| Mary Paxton Keeley ES | 723 | 683 | 94% | 32% |
| Midway Heights ES | 295 | 227 | 77% | 28% |
| Mill Creek ES | 673 | 616 | 92% | 16% |
| New Haven ES | 293 | 262 | 89% | 50% |
| Parkade ES | 478 | 440 | 92% | 46% |
| Rock Bridge ES | 650 | 573 | 88% | 30% |
| Russell Boulevard ES | 650 | 551 | 85% | 25% |
| Shepard Boulevard ES | 652 | 554 | 85% | 59% |
| Two Mile Prairie ES | 195 | 167 | 86% | 34% |
| West Boulevard ES | 438 | 343 | 78% | 60% |
| **TOTAL** | **9,938** | **8,545** | **86%** | **42%** |

Steinbrooke Terrace is assigned to BEU in Revised Scenario 2a (no other changes):
Beulah Ralph: 93% to 96%
Mill Creek: 94% to 92%

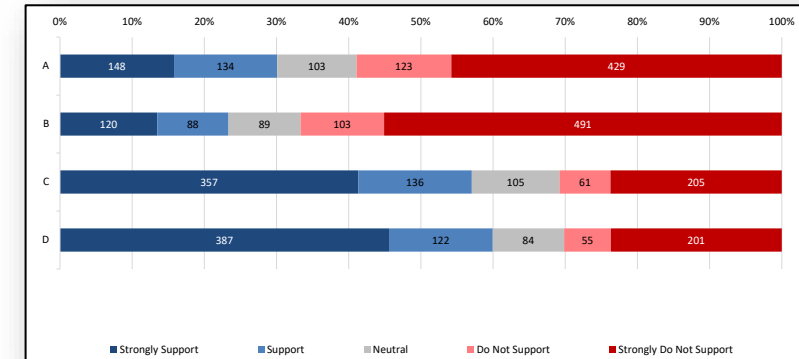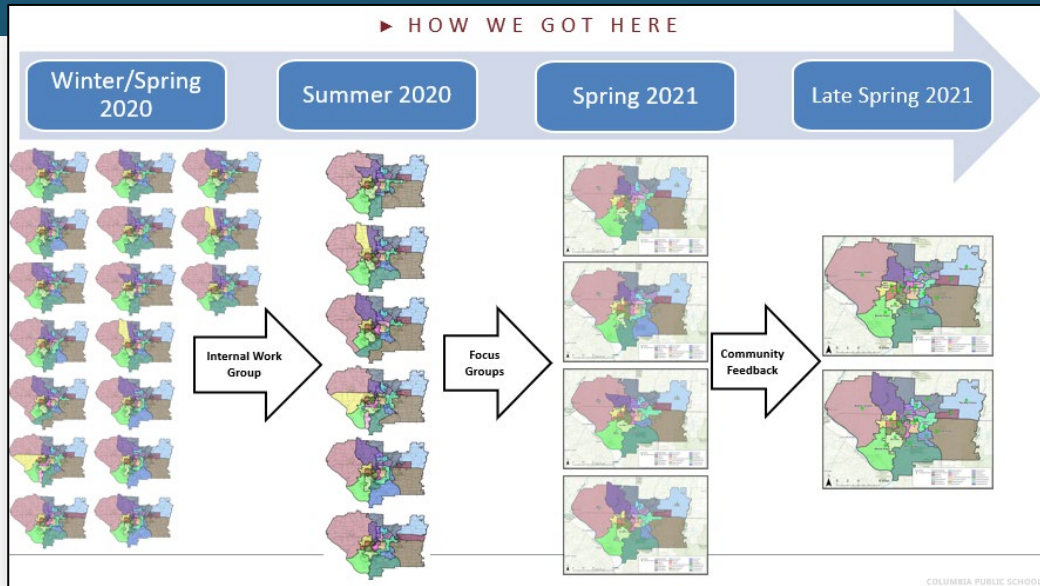# Attendance Area Planning Process





- **Present boundary options to community for buy-in and feedback**
- **Ensure community understands process, reasoning behind boundary adjustments**
- **In-person & online feedback opportunities**
- **Report community feedback**

Boundary Planning

Planning | Data | Committee | Work-Sessions | **Community Engagement** | Recommendation

COOPERATIVE STRATEGIES

# Attendance Area Planning Process



- **Revise boundary options based on community & committee feedback**
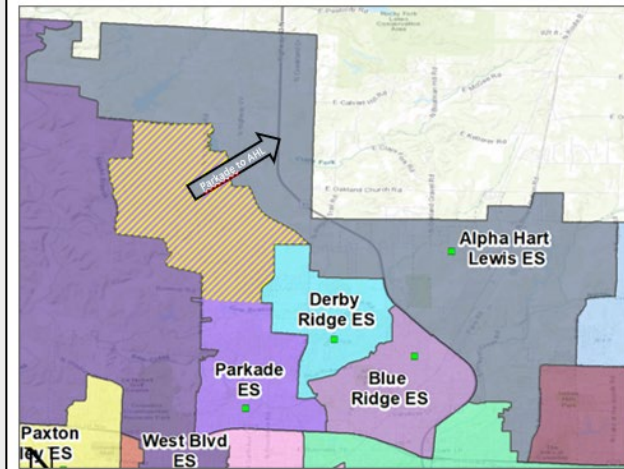
**Boundary Work-Sessions**

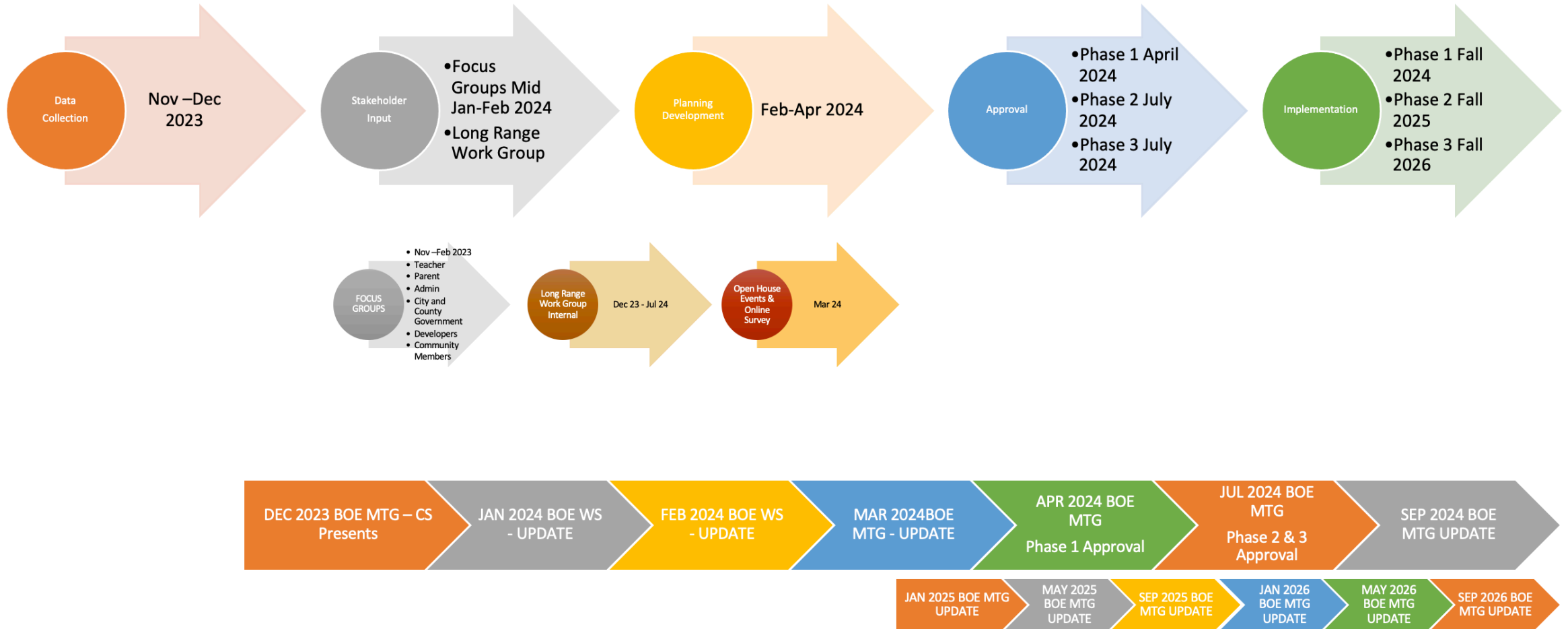**Community Engagement**

# Attendance Area Planning Process
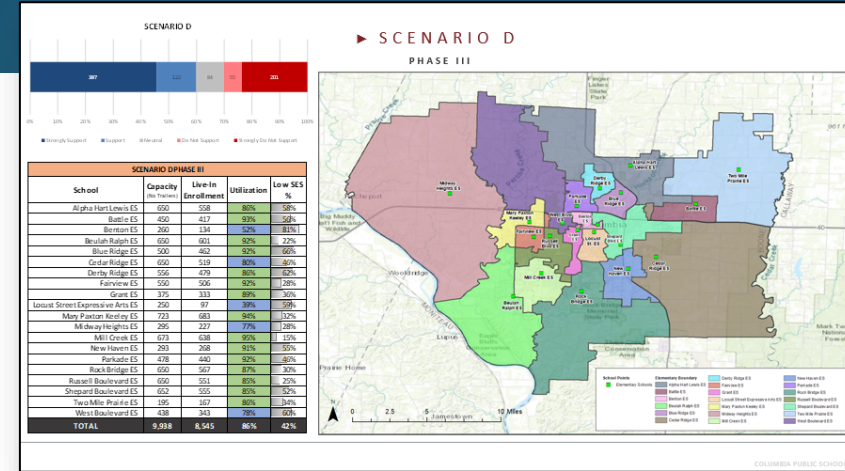


- **Alignment with CPS Guiding Principles**
- **Support community feedback**

Recommendation

| Board Guidelines: Based on 22-23 School Year (not long term) | | | | | | | | | | Additional Metrics | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Scenario: | Minimize disruption (short term) | Keep siblings together | Balanced Enrollment | Average Balanced SES | Transportation | Keep Neighborhoods together | Feeder Splits? | Follow natural boundaries | | # of schools impacted | # of students impacted | Utilization Ranges | Socioeconomic Ranges |
| Scenario A | 2 | | 1 | 2 | | | 2 | 2 | | 13 | 536 | ES: 67% - 91% MS: 97% - 100% HS: 77% - 81% | ES: 45% - 79% MS: 53% - 58% HS: 43% - 46% |
| Scenario B | 4 | Based on grandfathering provisions | 1 | 1 | All scenarios are feasible for transportation | Neighborhood lines are subjective | 1 | 2 | | 15 (all) | 1,079 | ES: 69% - 90% MS: 97% - 101% HS: 76% - 82% | ES: 41% - 80% MS: 55% - 56% HS: 43% - 46% |
| Scenario C | 3 | | 3 | 2 | | | 1 | 2 | | 15 (all) | 631 | ES: 69% - 92% MS: 95% - 102% HS: 73% - 86% | ES: 41% - 80% MS: 54% - 58% HS: 44% - 46% |

# Draft Process Timeline

**Data Collection** → Nov –Dec 2023

**Stakeholder Input** →
- Focus Groups Mid Jan-Feb 2024
- Long Range Work Group

**Planning Development** → Feb-Apr 2024

**Approval** →
- Phase 1 April 2024
- Phase 2 July 2024
- Phase 3 July 2024

**Implementation** →
- Phase 1 Fall 2024
- Phase 2 Fall 2025
- Phase 3 Fall 2026

**FOCUS GROUPS** →
- Nov –Feb 2023
- Teacher
- Parent
- Admin
- City and County Government
- Developers
- Community Members

**Long Range Work Group Internal** → Dec 23 - Jul 24

**Open House Events & Online Survey** → Mar 24

DEC 2023 BOE MTG – CS Presents → JAN 2024 BOE WS - UPDATE → FEB 2024 BOE WS - UPDATE → MAR 2024 BOE MTG - UPDATE → APR 2024 BOE MTG Phase 1 Approval → JUL 2024 BOE MTG Phase 2 & 3 Approval → SEP 2024 BOE MTG UPDATE

JAN 2025 BOE MTG UPDATE → MAY 2025 BOE MTG UPDATE → SEP 2025 BOE MTG UPDATE → JAN 2026 BOE MTG UPDATE → MAY 2026 BOE MTG UPDATE → SEP 2026 BOE MTG UPDATE

COOPERATIVE STRATEGIES

# Questions for Board Members

What would you consider a successful outcome of this process?

Are there any additional factors would you like us to consider?
(Beyond the Guiding Principles)

# Thank You!