Discussion Points

- **Introduction**
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  - Sophisticated Forecast Model (SFM)
  - Demographics
  - Past Enrollment and Change
  - Baseline Maps and Data
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  - Yield Rate of Students
  - Maps and Data
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  - Building Projections
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  - Next Steps
About RSP

- Founded in 2003
- Professional educational planning firm
- Expertise in multiple disciplines
- Over 20 Years of planning experience
- Over 80 years of education experience
- Over 20 years of GIS experience
- Clients in Arkansas, Iowa, Illinois, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Oklahoma, and Wisconsin
- Projection accuracy of 97% or greater

Planning

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Our Clients

NORTH DAKOTA
- Alexander
- Bismarck
- Bottineau
- Central Cass
- Dickinson
- Fargo
- Garrison
- Glennburn
- Grand Forks
- Jamestown

ILLINOIS
- Kiskiheer
- Mendon
- McKenzie County
- Minot
- Williams County
- Northern Cass
- Richland County
- Rugby
- West Fargo
- Williston
- Williston #1

MISSOURI
- Columbia
- Diamond R-I
- Fort Osage R-I
- Grain Valley
- Harrisonville R-IX
- Jackson
- Kearney R-I
- Ladue

KANSAS
- Andover
- Baldwin City
- Bonner Springs
- Derby
- De Soto
- Eudora
- Gardner
- Gardner-Edgerton
- Hays
- Hutchinson
- Kansas City
- Lawrence
- Liberal
- Maize
- Manhattan-Ogden
- Newton
- Ottawa
- Pittsburg
- Raymore-Peculiar R-II
- Raytown C-2
- Rockwood
- Troy R-III
- University City
- Wright City R-II

IOWA
- Adel
- DeSoto
- Minburn
- Anamosa
- Ankeny
- Atlantic
- Ballard
- Bettendorf
- Bondurant-Farrar
- Cedar Falls
- Cedar Rapids
- Clear Creek-Amana
- Council Bluffs
- Dallas Center
- Grimes
- Fort Dodge
- Gladbrook-Reinbeck
- Grinnell
- Independence
- Indianola
- Iowa City
- Johnston
- Linn-Mar
- Marshalltown
- Newton
- North Polk
- North Scott
- Norwalk
- Okoboji
- Ottumwa
- Rock Valley
- Saydel
- Sergeant Bluff-Luton
- Sioux City
- Southeast Polk
- Spencer
- Urbandale
- Van Meter
- Waukee
- West Des Moines
- West Liberty
- Western Dubuque
- Winterset

NEBRASKA
- Adams Central NE
- Bellevue
- Elkhorn
- Elwood-Murdock
- Louisville
- Millard
- Westside

OKLAHOMA
- Newcastle
- Yukon

WISCONSIN
- Hudson
- River Falls

ARKANSAS
- Bryant
- North Little Rock

MINNESOTA
- Duluth

RSP & Associates - Clients
NATIONAL AND LOCAL
Making it Happen

Elmwood-Murdock Public Schools

- Administration

Thank you!

- Cass County
- State of Nebraska
- United States Geological Survey
- Census Bureau/Esri
Part One: Enrollment & Demographics
Key Considerations

Enrollment Projections – Ten Year Outlook:

- Enrollment Change – Overall enrollment increase anticipated (Elementary, Junior High, and High School)
- Increases based on continued development opportunities within the district and open enrollment
  - District increases by nearly 200 students (+46.7%) (+2.5% to 5.5% a year)
  - Elementary increases by nearly 100 students (+36.5%) (-1.0% to +7.5% a year)
  - Junior High and High School increases by over 100 students (+65.3%) (-4.0% to +12.0% a year)

Capacity over the next Ten Years:

- Open enrollment trends and growth within the district will likely result in capacity challenges over the next ten years
  - Elementary capacity by 2020/21
  - Educational space should be examined to determine if the space is adequate for the program and the number of students that would be served in those areas of the school

Development Opportunities:

- Limited amount of residential development happening, should increase when the 50 Hwy project happens
- Significant areas of vacant land, when infrastructure allows and developed will have a drastic effect on future enrollment
- District Boundary (Purple Line)
- Major Streets
- Major water features & cultural features
- Village Limits
  - Elmwood (Pink)
  - Murdock (Yellow)
Land Use  (Residential, Commercial, Industrial)

Residential Density  (Single-Family, Mobile Home, Duplex, Apartment)

Natural Features  (Rivers and Creeks)

Manmade Features  (Railroad and Streets)

Attendance Area

There are over 40 planning areas RSP monitors for demographic, development, and enrollment data sets
Detailed Planning Areas

- Zoomed in view of Planning Areas (Green Line)
- Displays the power of GIS data & Information
- See where students are located by grade (color dots) in relation to streets, subdivisions, and parcels
- Illustrates how the planning areas are tied to development types at the parcel level
Sophisticated Forecast Model

This is the central focus of everything RSP does. The model is based on what is happening in a school district. The best data is statistically analyzed to provide an accurate enrollment forecast. The District will be able to use RSP’s report and maps to better understand demographic trends, school utilization, and the timing of construction projects.

**Built-Out**

\[
S_{c,t,x} = S_{c-1,t-1,x} * GC
\]

Let:
- \( S \): The number of students, either an actual count or a projected count
- \( x \): A subscript denoting an attendance area in the School District
- \( c \): Grade level
- \( t \): Time (Years)
- \( GC \): Growth component either modeling enrollment increase or decrease based on historical information, expressed as a real number

**Developing**

\[
S_{c,t,x} = S_{c-1,t-1,x} + (BP_{t,x} * R_{c,x})
\]

Where:
- \( BP_{t,x} = \left( \frac{\sum_x (CP_x) (BT_x) (A_x)} {\sum_x (CP_x) (BT_x) (A_x)} \right) * CT \)

Let:
- \( S \): The number of students, either an actual count or a projected count
- \( x \): A subscript denoting an attendance area in the School District
- \( c \): Grade level
- \( t \): Time (Years)
- \( BP \): Building permit forecast as given by the Building Permit Allocation Model (BPAM) model
- \( R_{c,x} \): Student enrollment ratio of cohort \( c \) in planning area \( x \)
- \( CP \): Capacity of a planning area as expressed by available housing units
- \( BT \): Building history trend of a planning area
- \( A \): An index which models the likelihood of development
- \( CT \): Building permit control total forecast
- Depicted by Census Block Group with 2023 estimates
- Density weighted by land area of each Block Group
- **Red** areas have greatest density, **Blue** have the least
- This data helps benchmark the projection model choices for future student enrollment
- Map insets of the village areas where the greatest population likely to reside
Depicted by Census Block Group with 2023 estimates

Density weighted by land area of each Block Group

Red areas have greatest density, Blue have the least

This data helps benchmark the projection model choices for future student enrollment

Map insets of the village areas where the greatest population likely to reside
Past School Enrollment

**Table Explanation:**
- Largest class in 2018/19 – PreK (PK) (57)
- Smallest class in 2018/19 – 8th grade (23)
- Graduating senior class smaller than the incoming Kindergarten class – likely indicating a greater enrollment over the next five years
- Enrollment includes those students who Reside in the District and those who Open Enroll
- Open Enrollment is about 20% of the district PK-12 enrollment

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Source: Elmwood-Murdock Public Schools (2008/09 to 2018/19)
Enrollment Change

### Enrollment Grade Change

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</table>

Source: Elmwood-Murdock Public Schools (2008/09 to 2018/19)

### What does this mean? – Change varies by grade

- **Largest average K-12 class increase** – 7th to 8th grade (+1.7)
- **Largest average K-12 class decrease** – 10th to 11th grade (-3)
- Propensity to have varying cohort change in every grade
- Enrollment includes those students who Reside in the District and those who Open Enroll
Students entering the district who did not attend the previous year

2018/19 students who are in 1st through 12th grade that were not attending the District in 2017/18 as Kindergarten through 11th grade

- 20 new students in 2018/19

Provides insight into where new students households are choosing to live
Students leaving the district who attended the previous year

Students attending the district in 2017/18 who were in Kindergarten through 11th grade that did not attend in 2018/19 as 1st through 12th grader

- 21 students left the district in 2018/19, Total Migration -1

Provides insight into where the leaving student households were living

Baseline to determine potential regeneration of students
Depicts student movement at each Planning Area from 2014/15 to 2018/19

- **Orange** areas experienced an increase since 2014/15
- **Green** areas experienced a decrease since 2014/15
- **White** areas had no net change of students between 2014/15 to 2018/19

New developments have a greater propensity to have more students in future years
Red areas depict highest density of students, Gray as lowest student density

Overlapping points (2 or more students) are handled using a weighting of coincident points

Greatest student density located within Elmwood Village

Newer developments and/or most affordable areas tend to have the greatest density
The following are some general enrollment observations:

- RSP & Associates monitors over 40 planning areas for demographic, development, and enrollment data sets.

- Direct correlation between women in child bearing ages (15-59) and where children (0-4) reside.

- Enrollment tends to increase from grade to grade each year at the elementary level and decrease in the secondary.
  - Large increases happen from 7th to 8th.
  - Large decreases happen from 10th to 11th grade.

- Larger elementary school grades will result in future larger Junior High and High school grades.

- Greatest student density within village limits and least student density in rural areas.

- PK -12th grade Open Enrollment has increased from 2008/09 (13.9%) to 2018/19 (19.5%).
Population, Development, Enrollment

**Graphic Explanation**

- Census data indicates a slight increasing population (less than 1% a year)
- Building trend indicates there has been some new residential activity (last 5 years)
- Student Enrollment growth has remained positive the last six years (increase in open enrollment)

**What Does This Mean**

- Households moving into the district may start having similar children and/or school aged children
- With development similar over the next five years there are likely to be more new students
- Older areas of the community have the propensity to experience a shift in number of students

Source: Census Bureau, Cass County, Elmwood-Murdock Schools, and RSP SFM & Demographic Models
Student Yield Rate

Single Family (SF)

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Source: Elmwood-Murdock Public Schools and Cass County

Multi-Family (MF)

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Source: Elmwood-Murdock Public Schools and Cass County

Graphic Explanation

- Depicts elementary (PK-5) enrollment and the corresponding yield rate
- Single-Family residential average (.22) has a lower student yield rate when compared to Multi-Family residential (.44) within the district
- Student yield rates for Single/Multi Family have remained consistent
- Adding newer housing inventory typically can increase the yield rate
Based on assessed Home Value as provided and maintained by the county assessor’s office

Depicted by Median Value in each Planning Area

Home values likely correlated to socio-economic status

Areas shaded in Orange and Red have the greatest Median Home Value

Areas shaded in Blue represent the greatest affordability
Residential Year Built

- Reveals where clusters of residential development have occurred
- Some new areas do not necessarily lead to similar yield rates like other developments
- Colors of dots represent a specific year according to the county assessor’s office
- Type of housing is monitored as some planning areas (single-family or multi-family) do not necessarily lead to similar yield rates and may change from year to year
Existing Land Use

- Identifies the current type of land use
- **Red** illustrates where employment centers are located
- **Yellow** and **Orange** areas represent residential
- **Green** areas represent agricultural and have the greatest propensity to be converted to new residential development
Growth Areas

- Growth areas are created from existing land use, future land use, capital improvement plan, zoning, and city staff input.
- Identifies where development activity is happening (Green).
- Identifies possible areas that could develop (Yellow and Purple).
- The market and property owners desire to build guides the timing of development.
- Most growth areas are dependent on infrastructure improvements.
- Other properties not shown might develop while some shown might not develop.
The following are some general development observations:

- Building activity is less than 10 units a year (steady)

- Multi-Family residential has the highest propensity to have school aged students, yield rates of this development type are much higher than that of Single-Family

- Areas for growth are most likely to happen at the five to ten-year mark, growth in these areas are dependent on access to infrastructure

- Future residential development activity is dependent on the economy, specifically employment, interest rates, and home foreclosures

- When the 50Hwy expansion happens, it will be bringing greater interest to develop within the district boundaries

- Tracking the types of development is important to understand the yield rate of students for every part of the community – there are varying yield rates with all developments
Part Three: Enrollment Projections
Past, Current, Future Enrollment

What Does This Mean

- **Enrollment Change** – Overall enrollment increase anticipated (Elementary, Junior High, and High School)
- Increases based on continued development opportunities within the district and open enrollment
- **District increases by nearly 200 students (+46.7%) (+2.5% to 5.5% a year)**
- **Elementary increases by nearly 100 students (+36.5%) (-1.0% to +7.5% a year)**
- **Junior High and High School increases by over 100 students (+65.3%) (-4.0% to +12.0% a year)**

Source: Elmwood-Murdock Public Schools and RSP SFM & Demographic Models
## Enrollment Projections By Grade

### Past, Current, and Future Enrollment From 2000/01 to 2028/29

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**Sources:**
- 2000/01 to 2018/19 Elmwood-Murdock Public Schools Historical Enrollment
- 2019/20 to 2023/24 RSP & Associates SFM Projections from the 2018/19 Enrollment 5-Year Projections
- 2024/25 to 2028/29 RSP & Associates estimates based on past enrollment change factors

### What Does This Mean

- **Current Elementary grades are much larger than secondary grades**
- **Larger elementary grades move forward each year (cohort) increasing secondary capacity**
- **Steady enrollment growth anticipated**
- **Future growth based on continued out of district households being attracted to the smaller school and educational programs provided by the District**
- **Future in-district growth (Reside) is anticipated when the 50 Hwy expansion is completed as it improves the ability to get to both Lincoln and Omaha, making development more likely**
Part Four: Moving Forward
Next Steps

The following items will assist the district advance its educational goals:

- Utilize the enrollment projections to assist with planning for staff need for the following school year.
- District administration and the Board of Education further study the enrollment, demographic, and development information presented in this analysis.
- Annually review enrollment projections to ensure the best decisions are being made for student academic achievement.
- Determine the criteria to address capacity issues and timing for future school construction, remodeling, or new attendance areas.
- Monitor development applications to determine if another study will be needed.
- Examine the open enrollment policy and its impact on physical building need.
- Further analysis required to determine if the program or building condition impact the choice of students to remain in the district for all grades.
- Continue to make decisions and communicate that information to the community so they can understand how educational opportunities will support College and Career Ready students.