

# ONPASS® Pro and Geographic Information Systems

## Software and Services Proposal

Sylvan Union School District

October 3, 2018



**PLAN**ware

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## Introduction

Planware<sup>1</sup> is pleased to provide this proposal to the Sylvan Union School District (SUSD) for ONPASS Pro and Geographic Information Systems (GIS) planning software and services.

Planware has extensive experience using GIS for collecting, storing, analyzing, and reporting geospatial data. Planware approaches each project as a partnership with the district. We first want to listen and gain an understanding of the specific goals the district has and tasks the district wishes to accomplish. We are cognizant of the sensitive nature and potential impact of boundary and other strategic changes on district and school personnel, students, parents, and the community. As such, we spend time initially working with the district to learn as much as we can about goals, needs, and issues, and then we help develop strategies for addressing them. Every project requires custom configuration and the details and information vary from district to district.

The SUSD has ten elementary and three middle schools and serves approximately 8,332 students. Our present understanding is that the SUSD has several planning goals and challenges at this time:

- The elementary schools are nearing their capacity. Currently, about 1,200 students are bussed from home to school. The district would like to consider the impact of continuing this bussing policy and the impact of transfer students on school capacities.
- The Ustach Middle School is at capacity and the other middle schools are close to capacity. The district would like to look at alternatives for addressing this issue.
- The district is interested in establishing a revised kindergarten enrollment forecasting methodology.

We propose a mix of GIS software and services to help the district meet these challenges. Below, we present a detailed description of our software program, ONPASS® Pro, which will support the district's efforts at reviewing student demographics and scenarios to develop potential solutions. We also describe a proposal for reviewing and revising the kindergarten enrollment forecasting methodology. The cost quote for this software and services is included at the end of the proposal.

## Geographic Information Systems

*A geographic information system (GIS) is a framework for gathering, managing, and analyzing data. Rooted in the science of geography, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes. With this unique capability, GIS reveals deeper insights into data, such as patterns, relationships, and situations—helping users make smarter decisions.<sup>2</sup>*

ONPASS Pro is the next generation of Planware's widely distributed and successful ONPASS boundary planning software. Originally developed in the 1970s, ONPASS (short for Online Pupils

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<sup>1</sup> Planware is a division of Educational Data Systems, Inc. of Morgan Hill, CA.

<sup>2</sup> <https://www.esri.com/en-us/what-is-gis/overview>

Assignment System) was a mainframe GIS program, converted in the 1980s to a PC-based program. In the 1990s, it was modified to run on the early Windows platforms and was updated over time to utilize the newest computers, platforms, and GIS technology.

Planware has built ONPASS Pro from the ground up, retaining the same functionality as the original ONPASS program—namely, using GIS to view school district data geospatially and simulate the effects on the school district of changes, such as:

- Modifying school attendance boundaries
- Changing transportation policies
- Altering inter- and/or intra-district student transfer policies
- Reviewing school capacities and utilization
- Adding or closing schools
- Altering school grade ranges

ONPASS Pro is a planner's tool for geospatial planning and analysis—for making decisions about the future.

ONPASS Pro runs on ESRI's<sup>3</sup> newest GIS platform, ArcGIS Pro. The standard for GIS around the world, ArcGIS Pro encompasses all of the most recent GIS advances in technology including integration with ArcGIS online and web capabilities, 64-bit processing, 3D visualization and analysis, and database support.

The new ONPASS Pro offers all of the benefits of the ArcGIS Pro platform on which it is built and adds an easy-to-use updated interface, faster and more intuitive data structures and tables, data export functions to other products (Excel, PDF, etc.), and inline, context-sensitive help information. ONPASS Pro provides a customized user interface and tools specifically for school district planning, and features specific reporting capabilities for school district needs. Planware's specialists provide the technical and GIS support to help make ONPASS Pro a mainstay of the district's planning department.

## **ONPASS Pro Software Installation**

A district user access ONPASS Pro software by logging in to a virtual machine (VM) that runs the software and holds the district's data. The VM is a high-performance secure Microsoft Azure Services cloud-based server, set up and managed by Planware for your district and accessed through Microsoft Remote Desktop Connection client.

The advantage of the VM configuration over a standard desktop software package is reduced time spent by the district to setup, install, and maintain software on computers within the district, and it offers automatic upgrades and enhancements to the software, which are included in the price. Additionally, the school district will not need to assign or configure a specific computer or computers to run the software. Because the software uses Remote Desktop to the VM, it can be run on different computers anywhere, anytime, as needed<sup>4</sup>.

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<sup>3</sup> ESRI is the industry leader in GIS software platforms. Find out more at [www.esri.com](http://www.esri.com).

<sup>4</sup> Refer to the Computer and License Requirements section, below, for details on computer and license configurations.

## ONPASS Pro Setup

To use ONPASS Pro, Planware first obtains and loads district data into the program. The following paragraphs outline the steps Planware staff will take in setting up ONPASS Pro for the SUSD. Planware will:

- Create ONPASS Pro project and geodatabases
- Collect district and school data
- Collect student data
- Geocode student records
- Create planning areas
- Collect County Assessor's data
- Collect Census Bureau data
- Review data

The following paragraphs provide details included in each of these steps.

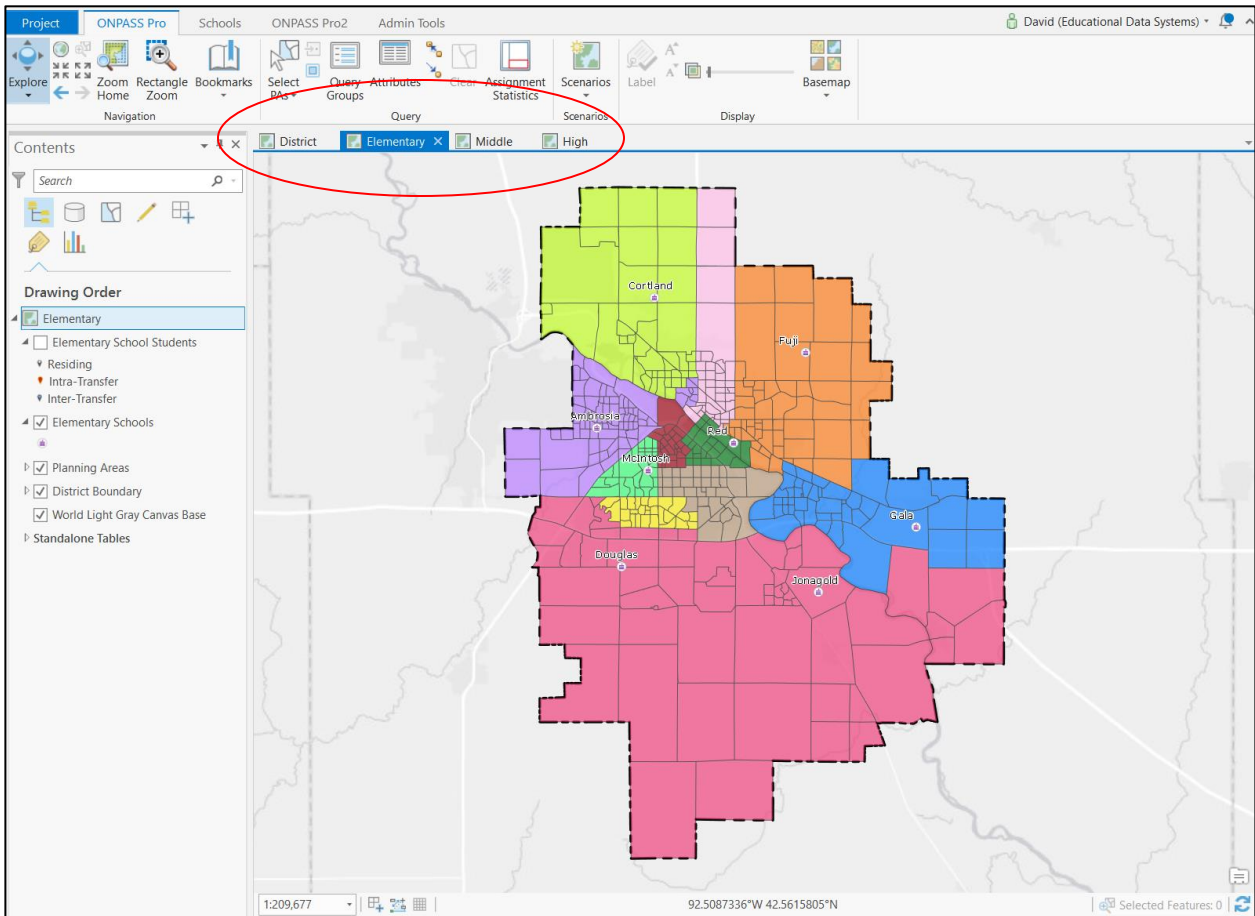
### *1. Create ONPASS Pro Project and Geodatabases*

Planware will first create an ONPASS Pro “project” specifically for the SUSD. A project is a set of programs and geodatabases that contain the relevant data for building scenarios and reporting. Geodatabases are similar to relational databases: both store data in tables, use queries to select and view subsets of data, and contain tools to manipulate data; but, geodatabases also include links that present data on maps, geospatially.

The project also contains a set of specifically designed maps, tools, functions, and procedures that guide the user through various processes specific to school district planning and scenario building.

The screenshot below shows a sample ONPASS Pro landing screen containing menus and tool ribbon across the top, the table of contents on the left that shows different data layers, and the district maps in the middle. (Note the District, Elementary, Middle, and High tabs at the top of the map, which provide access to maps of the designated levels.)





**Figure 1: ONPASS Pro landing screen**

## 2. Collect District and School Data

Through a data collection process, Planware will obtain school information including the grade levels supported by each school, the capacity of each school (i.e., the maximum number of students that can attend the school given the current facilities and room configurations), the school addresses, and other relevant school information. This data serves to create the district's "base-year scenarios." One base-year scenario is created for the district as well as for each school level (e.g., elementary, middle, and high school). Base-year scenarios capture the district's demographic and geospatial data as it currently is, which then allows for comparisons to various alternate scenarios.

The screenshot below shows a school profile window after entering school data into the geodatabase.



The screenshot shows a window titled "Review or Update Data" with a close button (X) in the top right corner. The window contains several input fields and a list of grades. On the left, there are fields for "Select a school:" (a dropdown menu showing "Fred Becker Elementary"), "Edit selected school's name:" (a text box with "Fred Becker Elementary"), "Shortened school name:" (a text box with "Becker"), "Street Address:" (a text box with "1700 downing Ave"), "City:" (a text box with "Waterloo"), "State:" (a dropdown menu showing "Iowa"), "Zip Code:" (a text box with "50701"), and "School Capacity:" (a text box with "545"). On the right, there is a section titled "Grades:" with a list of checkboxes for PK, TK, K, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, and 12. The checkboxes for K, 01, 02, 03, 04, and 05 are checked. At the bottom left, there is a warning message: "Warning! Once saved, Undo and Redo will no longer be available for previous edits." At the bottom right, there is a "Save and Close" button.

**Figure 2: School profile window**

### 3. Collect Student Data

Using a predefined student data file layout, Planware will collect student data from the district. This student data will be stored in the geodatabase.

The student data file includes student ID, school of attendance, grade level, and address. It may also contain other data fields, for example special program participation, English learner status, ethnicity/race, socio-economic status, etc., depending on the types of analyses desired by the district. Planware recommends including as many additional demographic and program fields as feasible to enable a more extensive set of analyses by these different variables. Because SUSDS will be analyzing the effects of the bussing policy on school capacities, a "bussing" data field designating which students are currently being bussed should be included in the student data file.

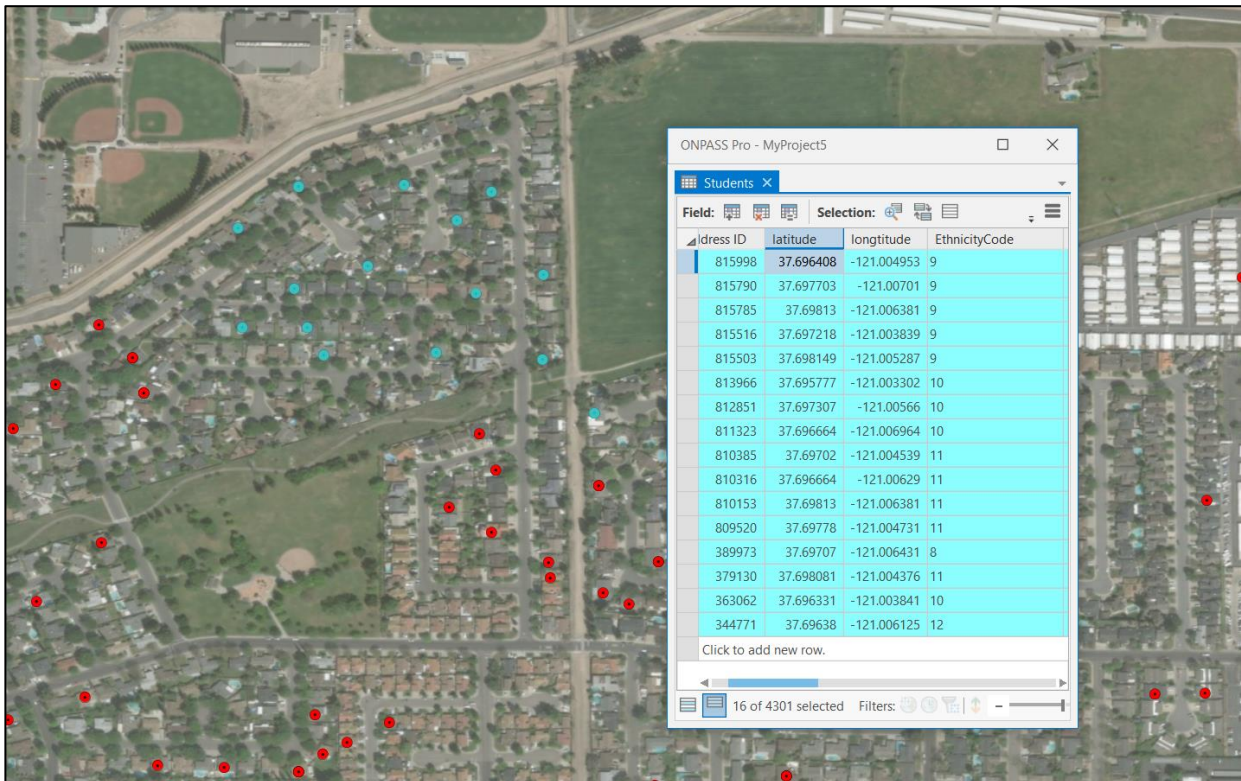
A note on student privacy: As a third-party unbiased agency experienced in handling and storing secure educational data, Planware will enter into a contract and security agreement with the district, ensuring all student data will remain secure (available only to Planware staff) and only used for purposes of building the ONPASS Pro project and study. Information on computer security is provided in the Computer Requirements section, below.

### 4. Geocode Student Records

One of the most powerful aspects of ONPASS Pro is geocoded student data. The addresses in the student data file are used to geocode the records, which involves assigning a latitude and longitude (an X and Y coordinate) value to each student record based on the geographic

location of the address. This allows the software to present visual markers (e.g., points or icons) on the map of the location of all students in the district. These points retain all associated attribute data from the student data file.

The geocoding process is iterative, meaning the student data file is run through the geocoding program and those address that do not match the reference streets are reported as errors. The error records are reviewed and corrected and then the geocoding program is run again until all records are geocoded to the map.



**Figure 3: A group of selected student addresses (dots on map) and pop-up table containing their corresponding attributes**

## 5. Create Planning Areas

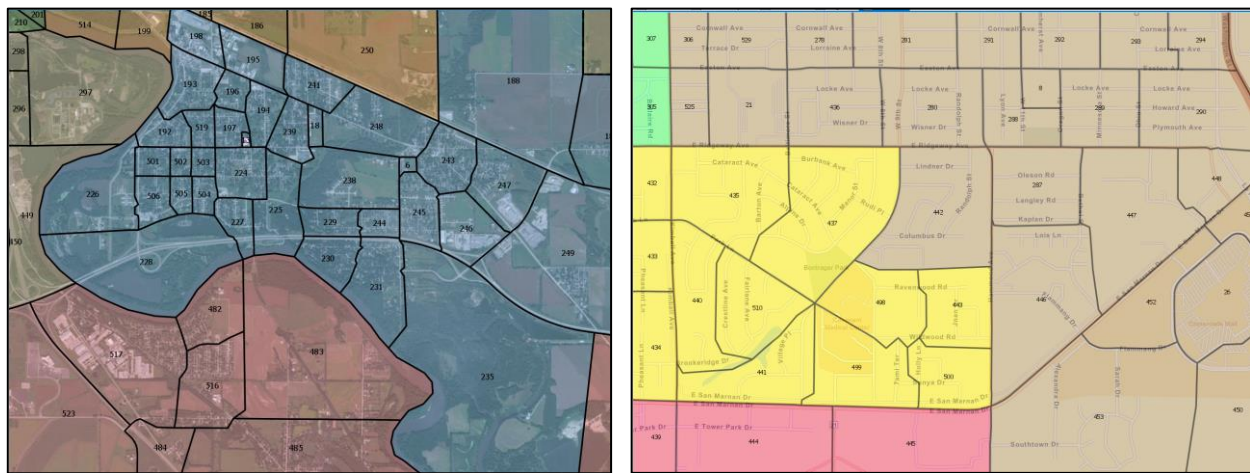
Once the student records are geocoded, Planware will create planning areas and a planning area number will be assigned to each student record. Planning areas are small geographic units of analysis of different sizes and shapes (as opposed to a grid overlay) that are contiguous with school attendance boundaries and with logical geographic boundaries, such as streets, freeways, and natural borders (e.g., rivers). Generally, planning areas also are contiguous with census blocks, but may contain more than one census block. The purpose of making planning areas contiguous with census blocks is to enable the use of census information as an additional source of data about the areas being analyzed.

Keeping planning areas relatively small (under about 50 students if possible), allows for more precise analyses of impacts when planning areas are assigned to different schools. Additionally, in creating planning areas, Planware attempts to keep the housing type (e.g., apartments,

single-family homes, condominiums, etc.) homogeneous within the planning area. Again, this allows for more precise analyses of population growth or decline within the planning areas and more control over changes in demographic variables when assigning planning areas to different schools.

Rather than assigning large areas or individual students to different schools, ONPASS Pro users can assign one or more planning areas (including all the students who live in those planning areas) to different schools within the districts. Students who live outside of the district do not receive a planning area number, but are identified as an inter-district transfer student.

The screenshots below provide two examples of planning areas.



**Figure 4: An aerial view (left) and street view (right) of planning areas**

#### **6. Collect County Assessors Data**

Planware will collect and load County Assessor's data into the geodatabase, which includes information about each parcel (e.g., a home and the land that surrounds it) within the school district. Parcel information generally includes a description of the present owners, locations (by town), tax map or assessment roll number, volume and page number of deed recording from County Clerk's office, and property values of each parcel in the district. This data will be stored in the project file and will be accessible for reporting and analysis.

#### **7. Collect Census Bureau Data**

Planware will collect and load Census Bureau data into the geodatabase, which is the primary source for obtaining demographic information about the area, including population, housing, and economic data. It will be another source of information to study the effects of boundary realignment and/or other changes within the district.

#### **8. Review Data**

Once Planware has input the district and school boundaries, school data, student data, and planning areas, Planware and the district will review all of the data for accuracy via a web-conference. Following the web-conference, Planware will provide the district with the data and a checklist of items to review, and will make any corrections to the data prior to using it for planning purposes.

## **Computer and License Requirements**

### **Computer Requirements**

Computers used to access ONPASS Pro must have the following configuration:

- Internet access
- Microsoft Remote Desktop Connection client
- Dual monitors (recommended)
- Microsoft Excel or other spreadsheet software (recommended)
- Adobe Acrobat Reader (recommended)

Security of data and student privacy are addressed two ways: through connection security and backup security. The Microsoft Remote Desktop Protocol (RDP) uses 128-bit encryption to secure the connection from end-to-end, so it is secure (similar to Secure Socket Layer, or SSL, in a browser). Likewise, all backups are encrypted using AES256 encryption on the VM before being sent to Azure for backup storage. At no time is the backup data unencrypted (protected both in transit and at rest). Planware will provide the district with a written Data Sharing and Student Privacy agreement prior to receiving the district's student data.

### **ONPASS Pro Annual License**

Each district user must have an ONPASS Pro license. The software license covers:

- Single user unlimited access to the software on the ONPASS Pro virtual machine 24 hours a day, 7 days a week for one year
- Login access from any PC computer with Microsoft Remote Desktop Connection client (Planware will assist the district in establishing the RD setup)
- Backups of all data and scenarios through Azure Cloud Backup service
- Software updates as published by Planware throughout the year

### **ArcGIS Pro Annual License**

To run ONPASS Pro, it is necessary for the school district to acquire an ESRI ArcGIS Desktop Basic single-use license designated for the VM computer. Planware will assist in the process of purchasing and setting up the ArcGIS license on the VM. One single-use ArcGIS Pro license fee is included in the ONPASS Pro license cost.

### **Multiple Licenses**

If the district elects to have multiple users, Planware will work with the district to arrange for additional single-use licenses for both ONPASS Pro and ArcGIS. ONPASS Pro and ArcGIS Desktop Basic are desktop software applications and not compatible with mobile (tablet, phone) devices.

## **Training and Technical Support**

Planware will provide technical support for the district's use of ONPASS Pro through several resources.

1. Planware's GIS Specialist, David Johnston, will provide up to four hours of in-person and/or video-conference training on the use of the software. Training may be across one or more sessions and will include a step-by-step tutorial on the running of the software and using each of the specialized ONPASS Pro tools. This time will be used to answer any questions and address specific uses of the software that the district may have.
2. Planware will provide an electronic (PDF/HTML) User Guide, containing detailed instructions and descriptions of the tools and functionality of the software.
3. Within the ONPASS Pro software, users can find contextual help information such as mouse-over descriptions and a search function to find information by topic.
4. Planware will provide up to eight hours of GIS assistance for working with the data and creating scenarios. The school district may call and/or email Planware during regular business hours for GIS technical support, as needed.

## **SUSD School Capacity Study**

Installed on the VM computer, Planware will deliver to SUSD the ONPASS Pro software and geodatabases with all of the district's data loaded and verified. Planware will provide four hours of in-person or teleconference training on the use of the software tools and functionality and up to eight hours of GIS support and assistance to review and analyze the data and create scenarios that model possible changes.

### **Scenarios**

To address the district's elementary and middle school capacity issues, Planware will assist the SUSD to develop and run various planning scenarios. Running scenarios with the district's school and geocoded student data will allow the SUSD to evaluate the impact of such things as its bussing and intra- and inter-district policies, current and alternate attendance area boundaries, and current and alternate grade level groupings by school, as well as other possible changes. The ultimate goal of creating scenarios is to model possible changes and make decisions for mitigating the district's capacity constraints. A little more about creating scenarios is explained below.

The ONPASS Pro Scenario Management tool allows the district to create and save an unlimited number of scenarios or "what if" maps and statistics. A new scenario starts out with a snapshot copy of the current district data stored in a separate new geodatabase. The user can alter this scenario data without concern for affecting the original data.

Users build a scenario by selecting the Scenario Management tool, identifying the school level they wish to work with (e.g., middle schools), naming the new scenario, and then working with the new scenario map. The figure below shows the Create New Scenario Window.

Create a New Scenario

School Type

- Elementary
- Middle
- High

Create a New Scenario

Select the scenario you wish to copy.  
(If none are selected, the new plan will be based on original plan)

new

New Scenario Name (It must start with a letter. No blanks allowed.)

Cancel OK

**Figure 6: Scenario management tool**

The new scenario is a blank slate to try various options, such as:

- Changing a school attendance boundary. To change a boundary, the user selects some planning areas that are inside one school attendance area and assigns them to a different school. The Statistics Window (see description below) is updated and the user can analyze the effect of the change.
- Closing a school and reassigning the students at the closed school to different schools. To do this, the user selects the Close School tool, clicks on the school icon, and then assigns the unassigned planning areas to different schools. The Statistics Window is updated and the user can analyze the effect of the changes.
- Opening a new school. The user selects the Open School tool, decides where on the map to put the school (either by entering the new school's address or by clicking on the map and dropping a pin), and then assigns planning areas from other schools to the new school. The Statistics Window is updated and the user can analyze the effects of the changes.
- Changing the grade level groupings at one or more schools. To do this, the user checks and unchecks the grade level boxes and sees the results of adding or removing grades from certain schools.
- To simulate a change to the inter-district transfer policy, the statistics (students by grade and school and number of seats remaining) can reflect the option to *not* include counts of students who transfer in to the district. Similarly, to simulate a change in the intra-



district transfer policy, the statistics for each school and grade can reflect the option to use the "residing" counts. These counts assume students will attend the school in the attendance area in which they reside. Of course, both of these options may be utilized at the same time.

Many more options and tools are available for building, viewing, changing, and saving scenarios and analyzing the outcomes of those scenarios for decision making.

## Statistics Window and Maps

The base-year school information and the students assigned to each school are presented in the Statistics Window and on the maps. When changes are made within scenarios, the data changes dynamically and is available immediately in the Statistics Window and on the map. The screenshot below shows an example of the Statistics Window.

Assignment Statistics

Scenario: Elementary

Intra-District Transfers In	Intra-District Transfers Out	Inter-District Transfers
Reassignment	Attending	Residing

As planning areas are reassigned, these totals show how student counts will change for each school and grade.

☐ Keep intra-district transfers at school attending for reassignment counts

☐ Keep inter-district transfers at school attending for reassignment counts

Index	School	K	01	02	03	04	05	Total	Capacity	Spaces
1	Ambrosia	90	91	73	70	79	63	466	545	79
5	Fuji	37	70	76	78	64	70	395	500	105
8	Gala	19	32	23	19	26	20	139	530	391
10	Jonagold	79	119	105	103	92	119	617	515	-102
11	McIntosh	347	352	380	340	338	323	2080	485	-1595
13	Cortland	93	127	119	103	106	88	636	480	-156
16	Douglas	29	36	40	31	30	29	195	500	305
19	Red	76	104	113	113	86	87	579	500	-79
0	Unassigned	0	0	0	0	0	0	0		

**Figure 5: Statistics Window**

In addition to the Reassignment tab, other tabs in the Statistics Window provide snapshots of the student data for various pre-defined groups:

- Attending (counts of students by grade who attend each school)
- Residing (counts of students by grade who reside in each school's attendance area)
- Inter-District Transfers (counts of students by school and grade who transfer into the district)
- Intra-District Transfers Out (counts of students by school and grade who transfer out of the schools to attend school at another school within the district)



- Intra-District Transfers In (counts of students by school and grade who transfer in to the school attendance area from another school within the district)

## Queries

As a database, ONPASS Pro has extensive querying capabilities. Queries give the user complete access to the district's data, drawing it from different tables in the geodatabase and then presenting it in a results table and on the map.

Querying the district, school, planning area, and student data is important in deciding what might need to change within a scenario. For example, a user can query the student data within eight planning areas that are being considered for movement to a new school. The query will identify the students and show them on the map. Additional tools allow the user to zoom to the data on the map and obtain all of the attribute data about the students in the query. The demographic and program participation attributes of students selected in a query (e.g., race/ethnicity, socio-economic status, primary language, or disability) are available for review by opening the Attributes table.

For further analysis and reporting, the results of queries can be exported and imported into a spreadsheet program. Querying is generally an iterative process and helps to precisely select and answer questions about the data. The screenshot below shows an example of the Query Window.

Query

Map: Elementary Schools

Select the groups wanted and click the Run button to view results.

Select this group of students:

Residing Students

At this school:

All Schools

From this grade:

All Grades

Selection behavior (determines which records from query are selected or deselected in attribute table and map):

New selection (default)

Select Columns to include in results:

☐ NAME

☐ FNAME

☐ LNAME

☐ ADDRESS

☐ APARTMENT

☐ CITY

☐ STATE

Move Up

Move Down

No. of result records: 0

Run

Clear

Zoom To

Export

**Figure 7: Query Window**

## Using ONPASS Pro for Decision Making

Using ONPASS Pro and analyzing the results of various planning scenarios will allow SUSD to make decisions for future changes. The district may decide to implement one or more changes that will alleviate the school capacity issues.

- Review and increase the capacities of the schools: convert rooms into classrooms, add portable classrooms, remodel rooms to accommodate more students, etc.
- Change boundaries of one or more schools by assigning planning areas from one to another school
- Reassess all school attendance areas by using the "optimization" tool that assigns planning areas to the nearest school until the schools' capacities are reached, and then allows manual overrides and fine tuning to meet district goals
- Review the district's inter- and intra-district student transfer policies, which may include eliminating these policies if it allows for a better distribution of students to schools
- Change grade level groups at one or more schools, which may even out student populations in certain schools that are impacted at certain grade levels

ONPASS Pro is a tool that helps the district planner gather all of the relevant data in one place, use that data to analyze and model options, and then move through the decision-making process to meet goals and address issues.

## Kindergarten Enrollment Forecast Methodology Study

Planware proposes to carry out an enrollment forecast study with the goal of improving the accuracy of kindergarten enrollment forecasts. The result of the study will be a written forecast methodology and report that details the district's current methodology, options for changes that may improve accuracy, and a kindergarten enrollment forecast using the approved methodology.

The study will require information from the district, including details of the current enrollment projection methods, difficulties the district has experienced in producing accurate projections, and at least five-years' worth of historical enrollment counts (by school and grade). Planware will research local birth and mortality rate data, and collect other data related to trends that the district has experienced or predicts, such as new housing developments and/or migration and analyze that data to develop trends and patterns that may be used in a predictive model.

Planware will hold an initial meeting with the district to discuss the methodology and data collection, and then prepare a detailed methodology for the district's review and approval. Upon approval of the methodology, Planware will prepare and deliver a report containing a description of the methodology, the data and analysis, and the kindergarten forecast prediction.

## Milestone Schedule

The milestone dates and tasks in the table below provide an estimated schedule for when activities may take place. This schedule is for discussion purposes and may be altered, as necessary.

<b>Approx. Date</b>	<b>Task/Milestone</b>	<b>Resource</b>
<b>ONPASS Pro Software License</b>		
Nov. 2018	Sign contract and student data sharing agreement; send purchase order/project begins	SUSD
Nov.	Prepare and send school and student data to Planware	SUSD
Dec./Jan. 2019	Collect and enter data, create boundaries, planning areas, geocode student records	Planware
Dec/Jan. 2019	Obtain ArcGIS Pro license from ESRI	Planware/SUSD
Jan. 2019	Provide SUSD Data Review Checklist	Planware
Jan./Feb.	Review data and provide feedback to Planware	SUSD
Jan./Feb.	Install ONPASS Pro on VM/provide training	Planware
Feb.	Provide login credentials; ONPASS Pro installation/training complete	Planware
<b>Kindergarten Enrollment Prediction Study</b>		
Nov.	Sign contract/send purchase order/project begins	SUSD
Nov./Dec.	Meet with SUSD, collect data, prepare methodology plan	Planware
Dec.	Review and approve methodology plan	SUSD
Dec./Jan. 2019	Prepare kindergarten enrollment prediction	Planware
Feb.	Kindergarten enrollment methodology study complete	Planware

## Price Quote

The table below provide prices for the services and software as defined in this proposal.

No.	Product/Task	Price
1.	ONPASS Pro Software Annual License (1–20 schools): <ul style="list-style-type: none"> <li>Annual single-use license (1/1/2019–12/31/2019)</li> <li>Software upgrades and enhancements</li> <li>Unlimited technical support (telephone and email)</li> <li>Four hours in-person and/or video conference training</li> <li>Eight hours GIS “Capacity Study” assistance and support</li> <li>LocateMySchool SaaS annual subscription (7/1/18–6/30/19)</li> </ul>	\$ 5,000.00
2.	Discount: ONPASS Pro Early-Adopter (25% of annual license)	(\$1,250.00)
3.	ONPASS Pro Setup: 13 schools x \$300/school <ul style="list-style-type: none"> <li>Create district and school boundaries</li> <li>Collect and load school data</li> <li>Collect and load student data</li> <li>Create planning areas</li> <li>Collect and load Assessor's Parcel data*</li> <li>Collect and load Census Bureau data*</li> </ul>	\$3,900.00
4.	Discount: LocateMySchool SaaS client discount (25% of setup)	(\$1,950.00)
5.	Geocode students records: 8,332 students x \$.20 per student <ul style="list-style-type: none"> <li>Geocode (assign lat./long. value to student records)</li> <li>Report of non-matches and address issues</li> <li>Correct student addresses (based on district input)</li> </ul>	\$1,666.40
6.	ArcGIS Pro License Refund**	(\$250.00)
<b>ONPASS Pro License and Setup Total</b>		<b>\$7,116.40</b>
7.	Kindergarten Enrollment Forecast Methodology Study: Research and perform kindergarten enrollment projection for 2018–19 school year, includes: <ul style="list-style-type: none"> <li>Collect data from district and relevant public source(s)</li> <li>Prepare detailed kindergarten enrollment prediction methodology</li> <li>Prepare and deliver kindergarten enrollment projection and report</li> </ul> Research and collect/format data: 8 hours x \$125/hour Statistical projection and report: 8 hours x \$125/hour	\$2,000.00
<b>Kindergarten Enrollment Study Total</b>		<b>\$2,000.00</b>

\* Note: Direct costs related to the Assessor's parcel and Census Bureau data, and travel costs for in-person training will be in addition to costs noted here and will be added to the invoice. Prior to incurring these costs, Planware will provide estimates and obtain approval from district.

\*\* With assistance from Planware, SUSD will obtain the ESRI ArcGIS for Desktop Basic annual license directly from ESRI. The cost of \$250.00 will be refunded by Planware on the invoice.

## Payment Schedule

No.	Product/Task	Total
1.	Upon signing contract: <ul style="list-style-type: none"><li>• 50% of ONPASS Pro license</li><li>• 50% of setup</li></ul>	\$2,850.00
2.	Upon completion of installation/training	\$4,266.40
3.	Upon completion of enrollment methodology study	\$2,000.00