

So You've Collected Data, Now What?

Transforming Data Into Action

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What Will Be Covered

- Data Principles to Live By
- Discovery
- Simplify, Synchronize and Minimize
- Put a Bow on Data
- Longitudinally Bound



Data Principles to Live By

- We're not counting widgets! Understand the “Why”.
- Data is only valuable when it is:
 - Complete
 - Accurate
 - Accessible
 - Understood



Participant Activity

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Discovery



- ▶ Know what and who you have to work with:
 - ✓ What processes are already in place?
 - ✓ What data systems are utilized?
 - ✓ Define roles and responsibilities

- ▶ Create a plan for reliable collection and quality assurance

Simplify, Synchronize and Minimize

(Data Collection)

- ✓ Mapping and synchronization
- ✓ Automated quality check tools
- ✓ Clone pertinent data from year to year
- ✓ Set constraints in the data system to make it impossible to make errors in the first place
- ✓ Support and train

WHAT **WORKS?**

Synchronization Demo

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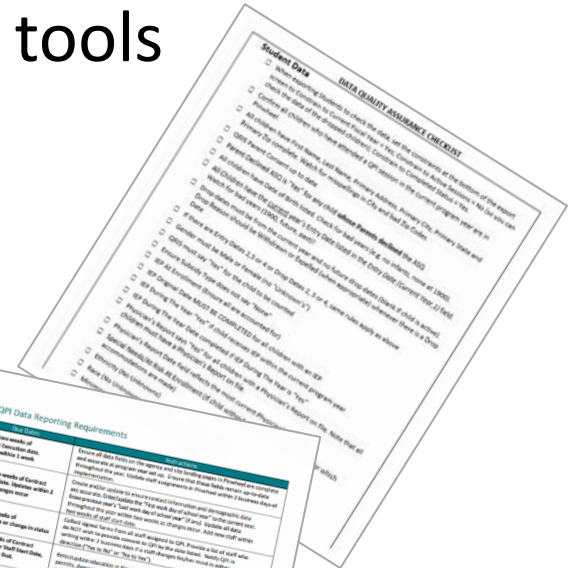
Simplify, Synchronize and Minimize (continued)

- Set clear expectations and provide tools
 - List of requirements and deadlines
 - Quality Assurance Checklist
 - Tutorial Videos
 - Data Dictionary



Exhibit B, Attachment 3, 2017-18 QPI Data Reporting Requirements

| Item | Requirement | Notes |
|--|--|---|
| 1 Agency and Site Setup | Within two weeks of Contract Execution Date, Agencies within 1 month | Errors of data entry on the agency's end can lead to overall program data and reporting inaccuracies. Agencies must ensure data is accurate and reported in a timely manner. Agencies must ensure data is accurate and reported in a timely manner. |
| 2 Staff Profiles | Within two weeks of Contract Execution Date, Agencies within 1 month | Ensure all staff profiles are accurate and up-to-date. Agencies must ensure data is accurate and reported in a timely manner. |
| 2 Staff Education | Within two weeks of Contract Execution Date, Agencies within 1 month | Ensure all staff education records are accurate and up-to-date. Agencies must ensure data is accurate and reported in a timely manner. |
| 3 User Account Setup and Validation | Within two weeks of Contract Execution Date, Agencies within 2 business days | Ensure all user accounts are set up and validated. Agencies must ensure data is accurate and reported in a timely manner. |
| 4 Agency and Session Program Calendars | Within two weeks of Contract Execution Date, Agencies within 2 business days | Ensure all agency and session program calendars are accurate and up-to-date. Agencies must ensure data is accurate and reported in a timely manner. |
| 7 Session Setup | Within two weeks of Contract Execution Date | Ensure all session setups are accurate and up-to-date. Agencies must ensure data is accurate and reported in a timely manner. |
| 8 Refresh Over Student Records | By 10/15/2017, Agencies must refresh over student records. | Ensure all student records are refreshed and accurate. Agencies must ensure data is accurate and reported in a timely manner. |



Implementation – Make the Ratings Count

- Provide support but keep the distance
- Check for data quality
- Ensure consistency of scoring between raters
- Document decisions



Put a Bow on the Data

- Customize data presentation to each audience
- Beyond the pie chart
- Make it relevant and intuitive



| Center | Preschool Location | Student Name | Reg1 | Reg2 | Reg3 | Reg4 | Reg5 | Reg6 | Reg7 | Sed1 | Sed2 | Sed3 | Sed4 | Sed5 | Lld1 | Lld2 | Lld3 | Lld4 | Lld5 |
|-------------|--------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 101 Academy | Alphabet Kids Preschool | Will Smith | B-E | B-E | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-E | B-E | B-E | B-E | B-E |
| 101 Academy | Alphabet Kids Preschool | Tom Cruise | R-E | R-L | R-L | R-L | R-L | E-E | E-E | R-E | R-E | R-L | R-L | R-L | R-E | R-L | R-E | R-E | R-E |
| 101 Academy | Alphabet Kids Preschool | Tom Hanks | E-L | E-L | E-L | B-E | E-L | E-L | E-L | B-E | B-E | E-L | E-L | B-E | E-L | E-L | B-E | B-E | B-E |
| 101 Academy | Alphabet Kids Preschool | Sylvester Stallone | E-E | E-E | E-L | E-L | E-L | E-E | E-E | E-E | E-E | E-E | E-L | E-L | E-M | E-L | E-E | E-M | E-E |
| 101 Academy | Alphabet Kids Preschool | Steven Spielberg | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Morgan Freeman | R-L | R-L | R-L | R-L | R-L | E-E | E-E | R-L | R-L | R-L | R-L | E-E | E-E | R-L | R-L | E-E | R-L |
| 101 Academy | Alphabet Kids Preschool | Matt Damon | E-E | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-M | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Leonardo DiCaprio | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-M | E-E | E-M | E-M |
| 101 Academy | Alphabet Kids Preschool | Johnny Depp | R-L | R-L | R-L | R-L | R-E | E-E | E-E | R-L | R-L | R-E | R-E | R-E | R-E | R-E | R-E | R-E | R-L |
| 101 Academy | Alphabet Kids Preschool | Jim Carrey | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Hugh Jackman | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-M |
| 101 Academy | Alphabet Kids Preschool | Harrison Ford | E-L | E-L | E-L | E-L | E-L | E-L | E-L | B-E | B-E | B-E | B-E | B-E | B-M | B-E | B-E | B-E | B-E |
| 101 Academy | Alphabet Kids Preschool | George Clooney | R-L | R-L | R-L | E-E | E-E | E-E | E-E | R-L | R-L | E-E | E-E | R-L | R-L | R-L | E-E | R-L | E-E |
| 101 Academy | Alphabet Kids Preschool | Emma Watson | E-L | E-L | E-L | E-L | B-E | E-L | B-E | E-L | E-L | E-L | E-L | E-L | B-E | B-E | B-E | B-E | B-E |
| 101 Academy | Alphabet Kids Preschool | Daniel Radcliffe | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Clint Eastwood | R-L | R-L | E-E | E-E | E-E | E-L | E-L | E-L | E-E | E-L | E-E | E-E | E-E | E-E | E-E | E-E | E-E |
| 101 Academy | Alphabet Kids Preschool | Charles Chaplin | R-L | R-L | R-L | R-L | R-L | E-E | E-E | R-L | R-L | E-E | E-E | R-L | E-E | E-E | E-E | R-L | E-E |
| 101 Academy | Alphabet Kids Preschool | Cameron Diaz | E-E | E-E | E-E | E-E | E-L | E-E | E-E | E-L | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Brad Pitt | R-L | E-E | R-L | R-L | E-E | E-E | E-E | E-E | E-E | R-L | E-E | E-E | E-E | E-E | E-E | E-E | R-L |
| 101 Academy | Alphabet Kids Preschool | Arnold Schwarzenegger | R-E | E-E | E-E | R-L | R-L | E-L | E-L | E-E | R-L | E-E | E-L | E-L | E-E | E-E | E-L | E-M | E-E |
| 101 Academy | Alphabet Kids Preschool | Sean Connery | E-L | E-L | E-L | B-E | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Scarlett Johansson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Russell Crowe | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Robert DeNiro | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-M | E-E | E-M | E-M | E-M |
| 101 Academy | Alphabet Kids Preschool | Robert Downey | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Pierce Brosnan | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Orlando Bloom | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 101 Academy | Alphabet Kids Preschool | Natalie Portman | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | E-L |
| 101 Academy | Alphabet Kids Preschool | Mark Wahlberg | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E |
| 101 Academy | Alphabet Kids Preschool | Liam Neeson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Kate Winslet | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Jackie Chan | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Heath Ledger | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Alphabet Kids Preschool | Dwayne Johnson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 101 Academy | Children's Den Preschool | Anne Hathaway | B-E | E-E | E-L+ | E-L+ | E-E+ | E-L+ | E-L+ | E-L+ | I-E | E-L+ | E-L | E-L | E-E | E-L+ | E-M+ | E-M+ | E-E |



Quality Assurance Tools Demo

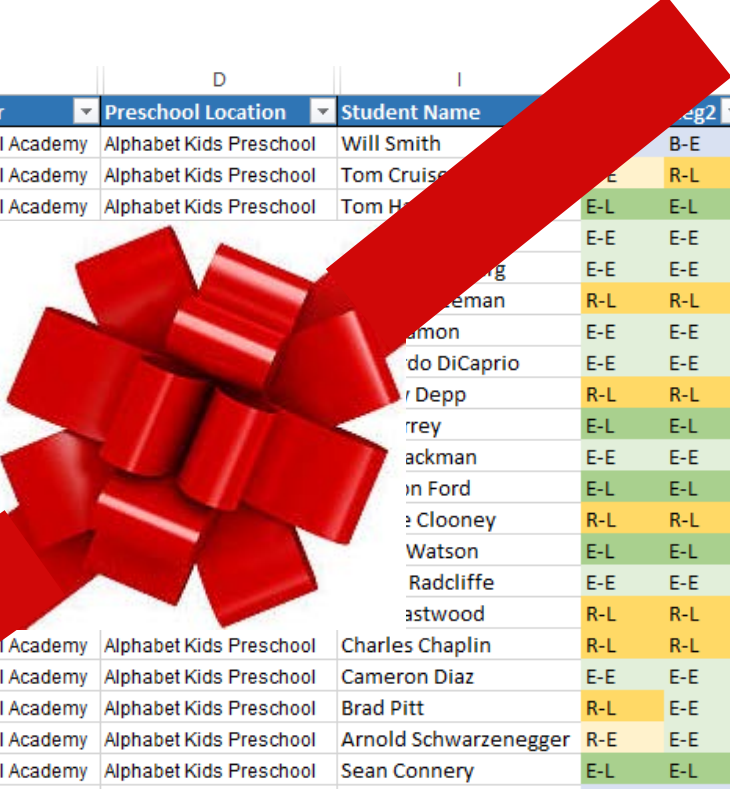
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| | B | D | I | R | S | T | U | V | W | X | Y | Z | AA | AB | |
|----|-----------------------------|--------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | Preschool Provider | Preschool Location | Student Name | Reg2 | Reg3 | Reg4 | Reg5 | Reg6 | Reg7 | Sed1 | Sed2 | Sed3 | Sed4 | Sed5 | Lid1 |
| 2 | San Diego Preschool Academy | Alphabet Kids Preschool | Will Smith | B-E | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-E |
| 3 | San Diego Preschool Academy | Alphabet Kids Preschool | Tom Cruise | E-E | R-L | R-L | R-L | E-E | E-E | R-E | R-E | R-L | R-L | R-L | R-E |
| 4 | San Diego Preschool Academy | Alphabet Kids Preschool | Tom Hanks | E-L | E-L | E-L | B-E | E-L | E-L | E-L | B-E | B-E | E-L | E-L | B-E |
| 5 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-L | E-L | E-L | E-E | E-E | E-E | E-E | E-E | E-L | E-L |
| 6 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 7 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | R-L | R-L | R-L | R-L | R-L | E-E | E-E | R-L | R-L | R-L | R-L | E-E |
| 8 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-M |
| 9 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-M |
| 10 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | R-L | R-L | R-L | R-L | R-E | E-E | E-E | R-L | R-L | R-E | R-E | R-E |
| 11 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 12 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 13 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 14 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | R-L | R-L | R-L | E-E | E-E | E-E | E-E | R-L | R-L | E-E | E-E | R-L |
| 15 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-L | E-L | E-L | E-L | B-E | E-L | B-E | E-L | E-L | E-L | E-L | B-E |
| 16 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | E-E | E-E | E-E | E-E | E-E | E-E | E-E | E-L | E-L | E-L | E-L | E-L |
| 17 | San Diego Preschool | Alphabet Kids Preschool | Tom Hanks | R-L | R-L | E-E | E-E | E-E | E-L | E-L | E-L | E-E | E-E | E-E | E-E |
| 18 | San Diego Preschool Academy | Alphabet Kids Preschool | Charles Chaplin | R-L | R-L | R-L | R-L | R-L | E-E | E-E | R-L | R-L | E-E | E-E | R-L |
| 19 | San Diego Preschool Academy | Alphabet Kids Preschool | Cameron Diaz | E-E | E-E | E-E | E-E | E-L | E-E | E-E | E-L | E-E | E-E | E-L | E-L |
| 20 | San Diego Preschool Academy | Alphabet Kids Preschool | Brad Pitt | R-L | E-E | R-L | R-L | E-E | E-E | E-E | E-E | R-L | E-E | E-E | E-E |
| 21 | San Diego Preschool Academy | Alphabet Kids Preschool | Arnold Schwarzenegger | R-E | E-E | E-E | R-L | R-L | E-L | E-L | E-E | R-L | E-E | E-L | E-E |
| 22 | San Diego Preschool Academy | Alphabet Kids Preschool | Sean Connery | E-L | E-L | E-L | B-E | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M |
| 23 | San Diego Preschool Academy | Alphabet Kids Preschool | Scarlett Johansson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 24 | San Diego Preschool Academy | Alphabet Kids Preschool | Russell Crowe | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 25 | San Diego Preschool Academy | Alphabet Kids Preschool | Robert DeNiro | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-M |
| 26 | San Diego Preschool Academy | Alphabet Kids Preschool | Robert Downey | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 27 | San Diego Preschool Academy | Alphabet Kids Preschool | Pierce Brosnan | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 28 | San Diego Preschool Academy | Alphabet Kids Preschool | Orlando Bloom | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L | E-L |
| 29 | San Diego Preschool Academy | Alphabet Kids Preschool | Natalie Portman | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E |
| 30 | San Diego Preschool Academy | Alphabet Kids Preschool | Mark Wahlberg | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E | B-E |
| 31 | San Diego Preschool Academy | Alphabet Kids Preschool | Liam Neeson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 32 | San Diego Preschool Academy | Alphabet Kids Preschool | Kate Winslet | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 33 | San Diego Preschool Academy | Alphabet Kids Preschool | Jackie Chan | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 34 | San Diego Preschool Academy | Alphabet Kids Preschool | Heath Ledger | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 35 | San Diego Preschool Academy | Alphabet Kids Preschool | Dwayne Johnson | B-E | B-E | B-E | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M | B-M |
| 36 | San Diego Preschool Academy | Children's Den Preschool | Anne Hathaway | B-E | E-E | E-L+ | E-L+ | E-E+ | E-L+ | E-L+ | E-L+ | I-E | E-L+ | E-L | E-E |
| 37 | San Diego Preschool Academy | Children's Den Preschool | Angelina Jolie | B-E | B-E | B-E | B-M | B-E+ | B-M | B-M | B-M | B-M | B-M | B-M | B-M |



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Paving the Way for Longitudinal Study

- Preparing for longitudinal studies
- Beginning the process – taking that first step
 - Agreements with 11 school districts
 - Will be collecting CA state test data as first step
 - In process of determining other factors affecting outcomes
- Goal is to see the impact of quality preschool through child outcomes

Questions?



Contact Information

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