Ed-Fi and YOU!!!

CIE Users Group

12

South Carolina Ed-Fi & the path ahead:

Data Flow: Past, Present, and Future

- **2020: Pilot phase**
  - three districts
  - goal was to test SC's intended Ed-Fi architecture
- **2021-2022 statewide integration**
  - full-state integration for the first time
  - goal was to test ability of SC's intended architecture to scale
  - lift-off of District Data Governance Group (DDGG)
- **2022-2023 Ed-Fi Rollout Part 1**
  - goal was to refine and standardize processes
  - began error-management training
  - compared legacy and Ed-Fi data streams
  - incorporated a state data warehouse to test analytics and reporting
- **2023-2024 Ed-Fi Rollout Part 2**
  - goal is to shift the focus toward data quality for quality reporting and analytics
  - training around Ed-Fi errors will center on data quality, not clearing dashboards
  - district data warehouses to soon be integrated statewide

Ed-Fi Integration

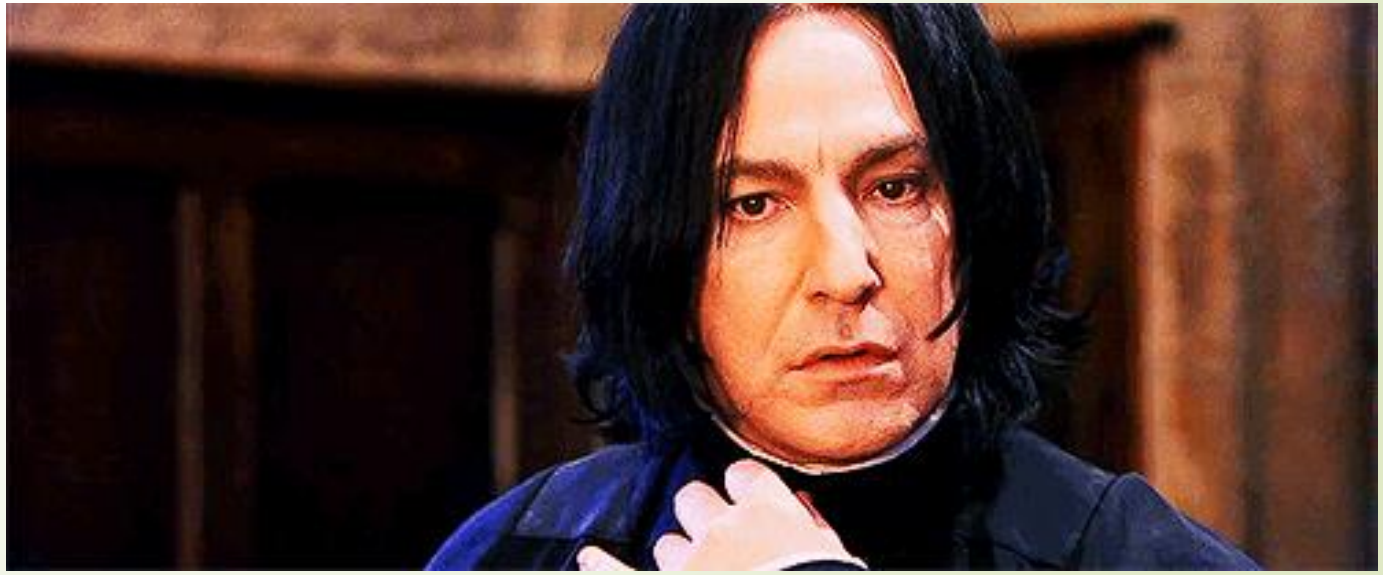
Integration Resources:

https://ed.sc.gov/data/information-systems/interoperability-resources/ed-fi-in-south-carolina/

Revisions to come in spring 2024

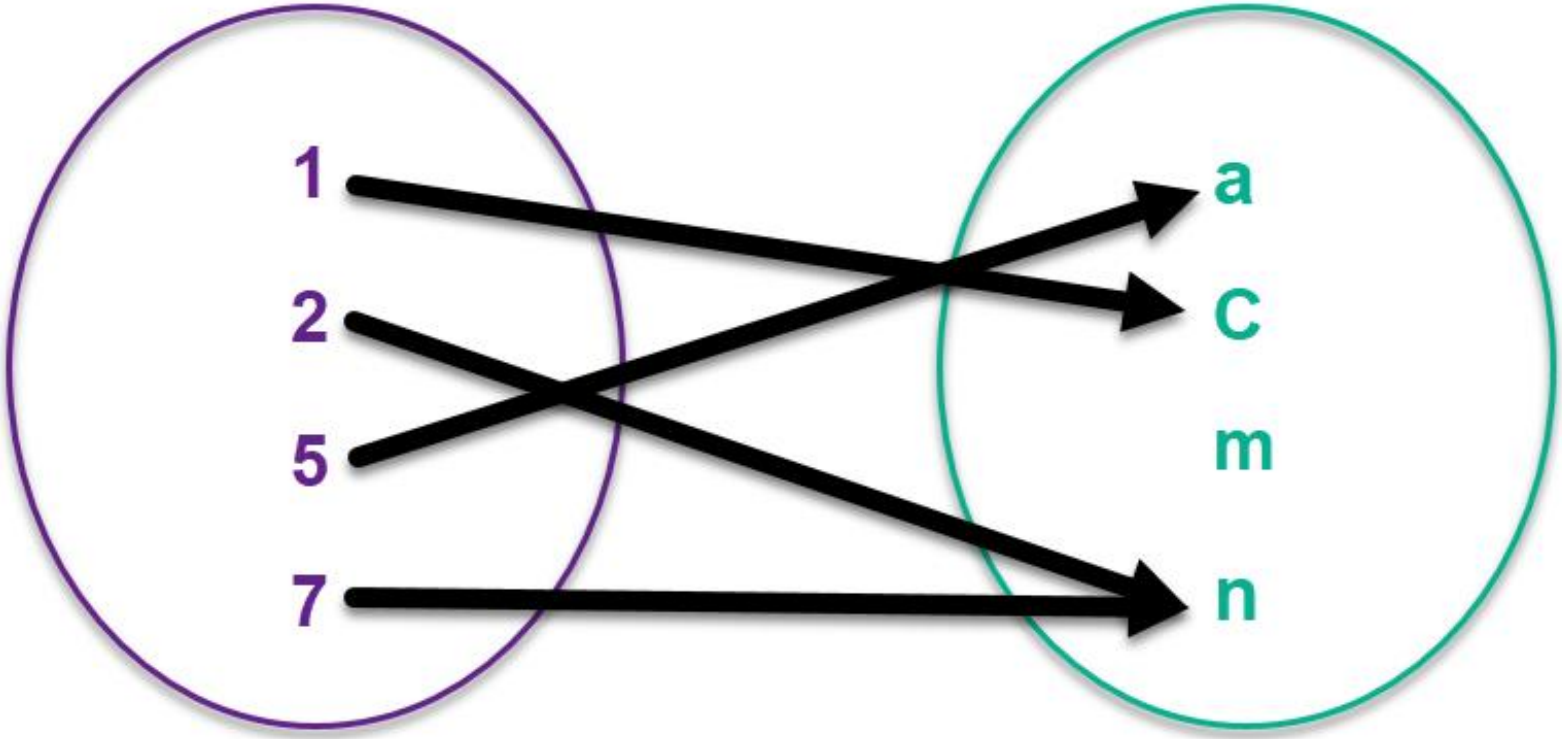
For Today - Part 1

- Newbies Intro to Ed-Fi
- Anatomy of the Dashboard
- When and How to Publish Data
- When to Panic



What is a **Data Standard**?

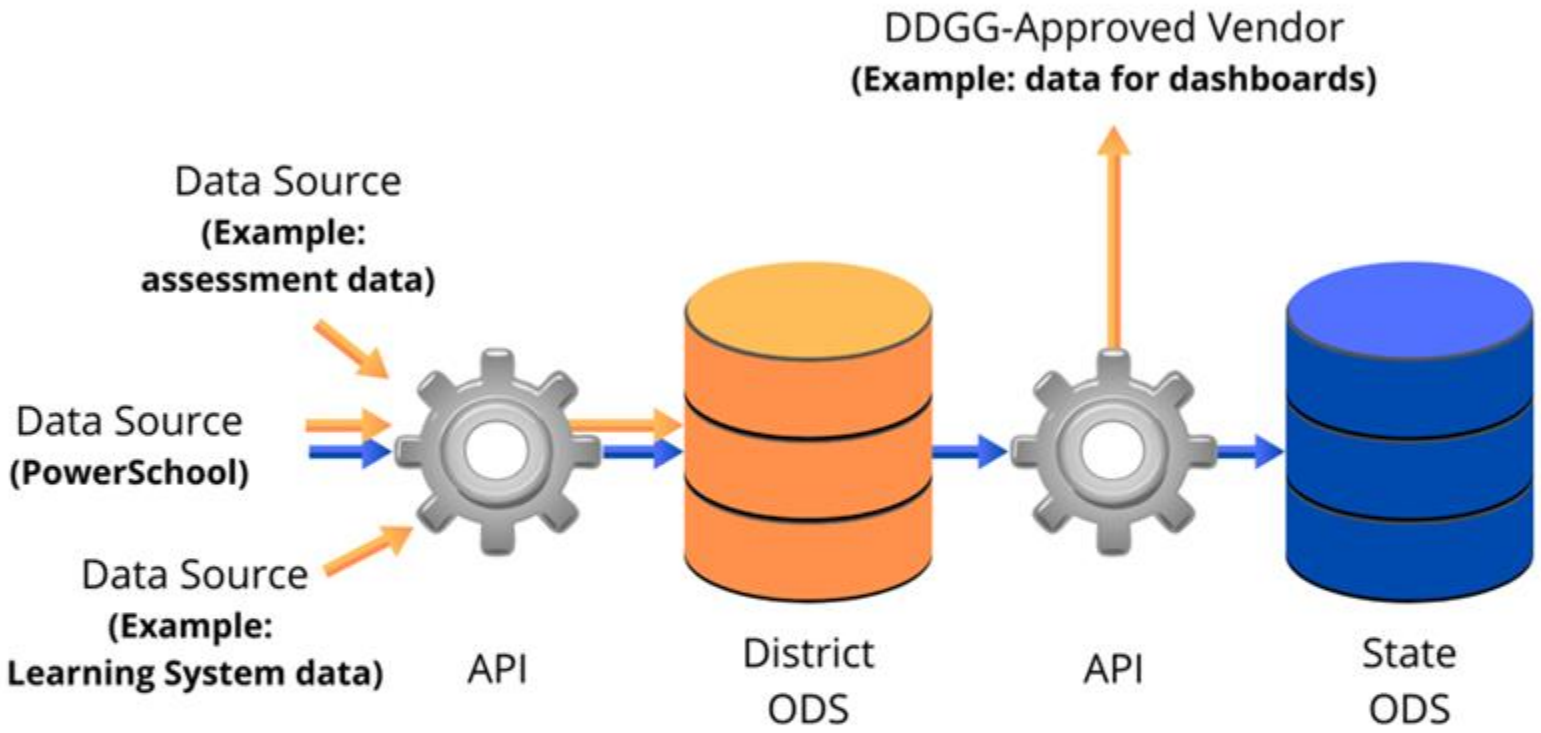
- Rules for how data should be formatted and exchanged between systems



What is **Interoperability**?

- When data systems talk to each other
  - The Ed-Fi data standard helps educational data systems do that.
    - student info systems, learning management systems, assessment vendor systems, etc.

SC Ed-Fi Pipelines



Pipeline for data needed by State

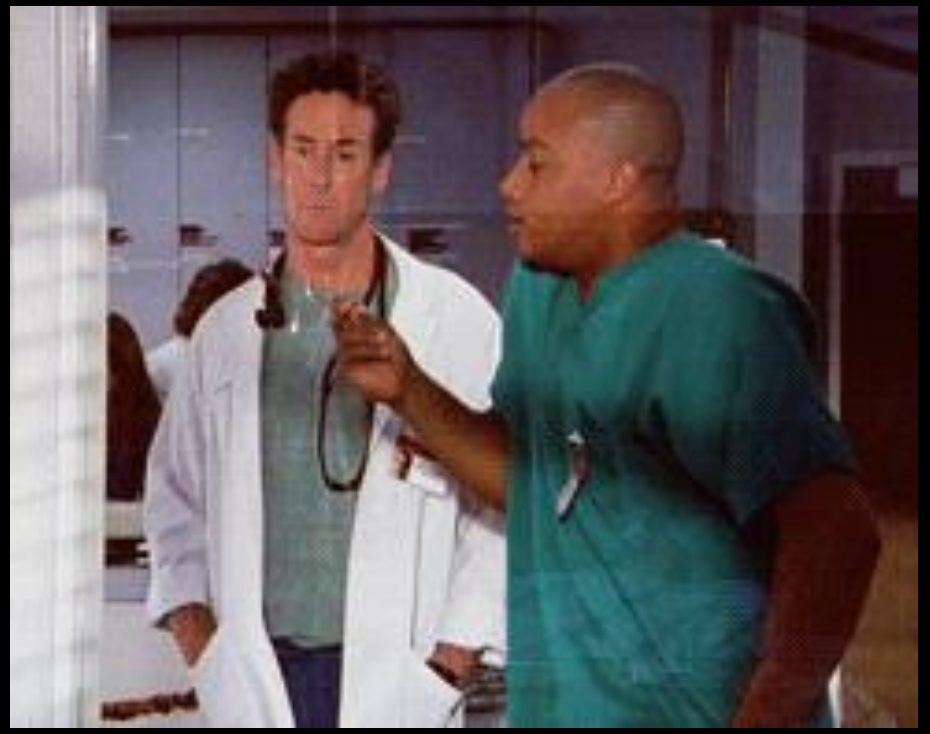
Pipeline for data that the District Data Governance Group (DDGG) decides to bring to the ODS for shared data solutions such as DDGG-imagined dashboards

PowerSchool Fields Mapped to Ed-Fi

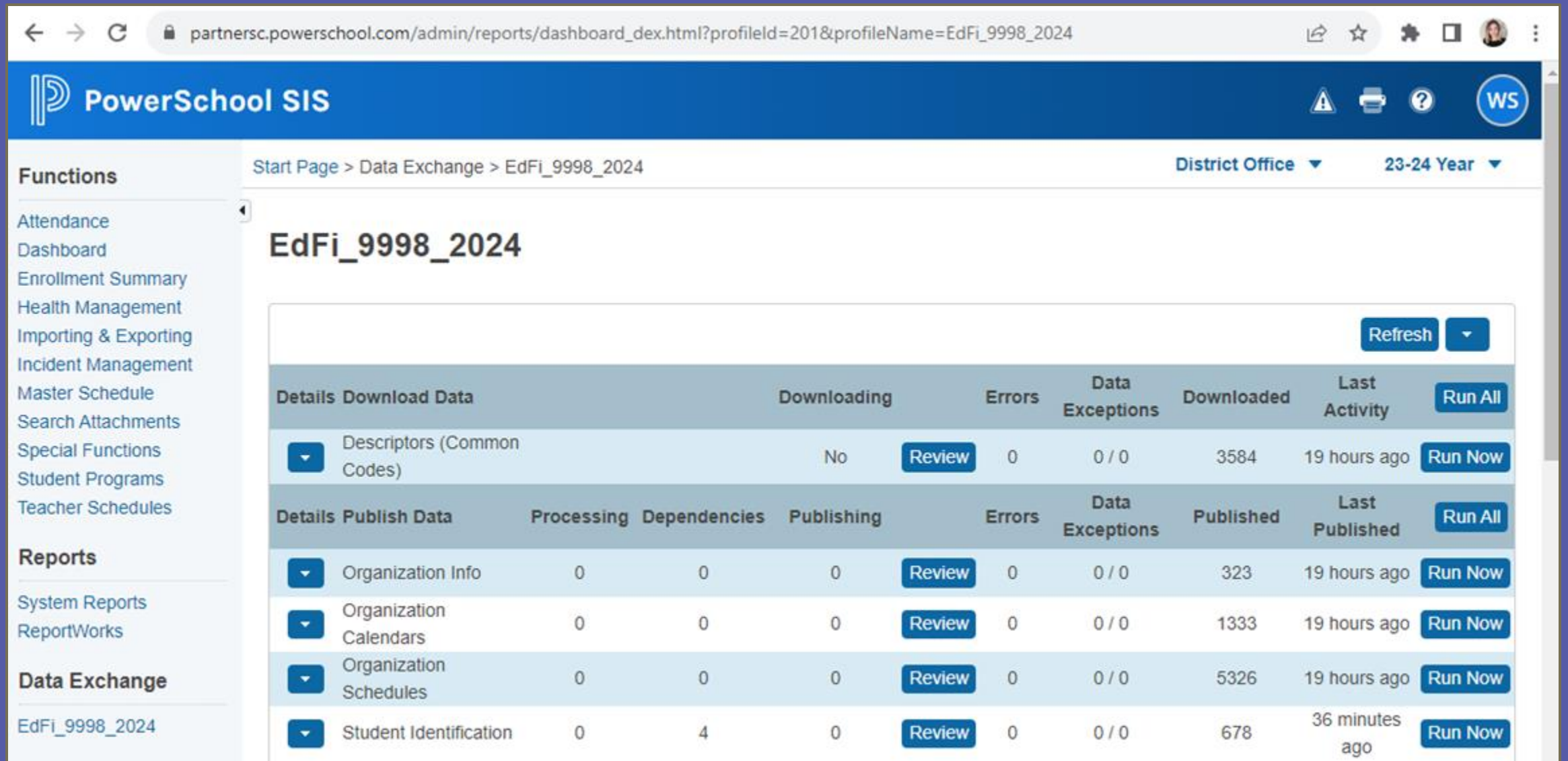
Over 504 PowerSchool compliance reporting fields currently mapped these Ed-Fi resources:

1) Alt and Supp Services	8) School Calendar
2) Assessment	9) Staff
3) BellSchedule	10) StudentAcademicRecord
4) ClassPeriod	11) StudentAttendance
5) Discipline	12) Student
6) EducationOrganization	13) Survey
7) Enrollment	14) Teaching and Learning

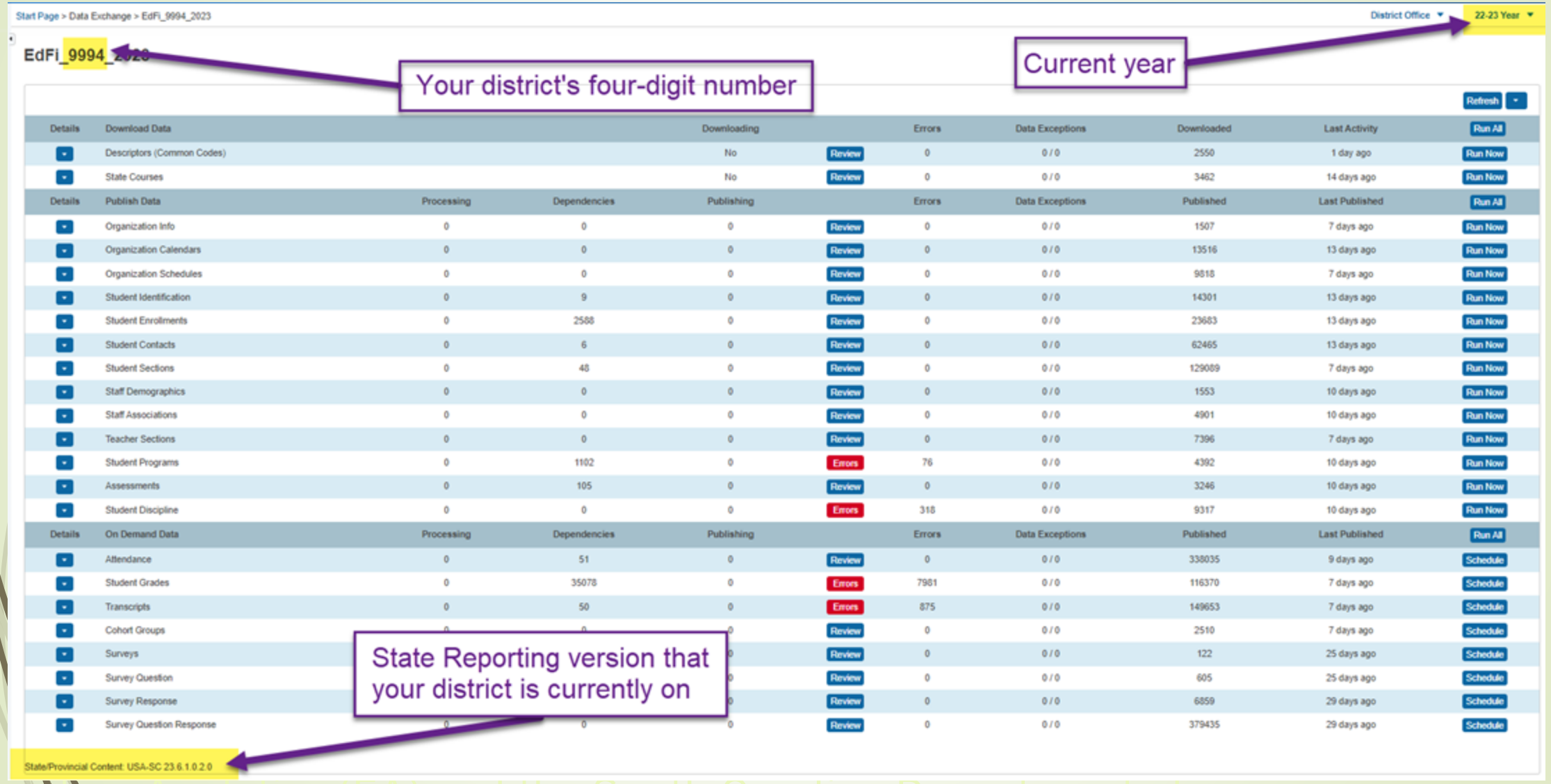
Anatomy of the PowerSchool Ed-Fi Dashboard



Anatomy of the PowerSchool to Ed-Fi publishing dashboard



Ed-Fi Publishing Dashboard



Anatomy of the PowerSchool to Ed-Fi Publishing Dashboard

Details	Download Data			Downloading		Errors	Data Exceptions	Downloaded	Last Activity	Run All
	Descriptors (Common Codes)			No	Review	0	0 / 0	2550	1 day ago	Run Now
	State Courses			No	Review	0	0 / 0	3462	14 days ago	Run Now
Details	Publish Data	Processing	Dependencies	Publishing		Errors	Data Exceptions	Published	Last Published	Run All
	Organization Info	0	0	0	Review	0	0 / 0	1507	7 days ago	Run Now
	Organization Calendars	0	0	0	Review	0	0 / 0	13516	13 days ago	Run Now
	Organization Schedules	0	0	0	Review	0	0 / 0	9818	7 days ago	Run Now
	Student Identification	0	9	0	Review	0	0 / 0	14301	13 days ago	Run Now
	Student Enrollments	0	2588	0	Review	0	0 / 0	23683	13 days ago	Run Now
	Student Contacts	0	6	0	Review	0	0 / 0	62465	13 days ago	Run Now
	Student Sections	0	48	0	Review	0	0 / 0	129089	7 days ago	Run Now
	Staff Demographics	0	0	0	Review	0	0 / 0	1553	10 days ago	Run Now
	Staff Associations	0	0	0	Review	0	0 / 0	4901	10 days ago	Run Now
	Teacher Sections	0	0	0	Review	0	0 / 0	7396	7 days ago	Run Now
	Student Programs	0	1102	0	Errors	76	0 / 0	4392	10 days ago	Run Now
	Assessments	0	105	0	Review	0	0 / 0	3246	10 days ago	Run Now
	Student Discipline	0	0	0	Errors	318	0 / 0	9317	10 days ago	Run Now
Details	On Demand Data	Processing	Dependencies	Publishing		Errors	Data Exceptions	Published	Last Published	Run All
	Attendance	0	51	0	Review	0	0 / 0	338035	9 days ago	Schedule
	Student Grades	0	35078	0	Errors	7981	0 / 0	116370	7 days ago	Schedule
	Transcripts	0	50	0	Errors	875	0 / 0	149653	7 days ago	Schedule
	Cohort Groups	0	0	0	Review	0	0 / 0	2510	7 days ago	Schedule
	Surveys	0	0	0	Review	0	0 / 0	122	25 days ago	Schedule
	Survey Question	0	2	0	Review	0	0 / 0	605	25 days ago	Schedule
	Survey Response	0	0	0	Review	0	0 / 0	6859	29 days ago	Schedule
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Education Analytics (EA) and the South Carolina Department of

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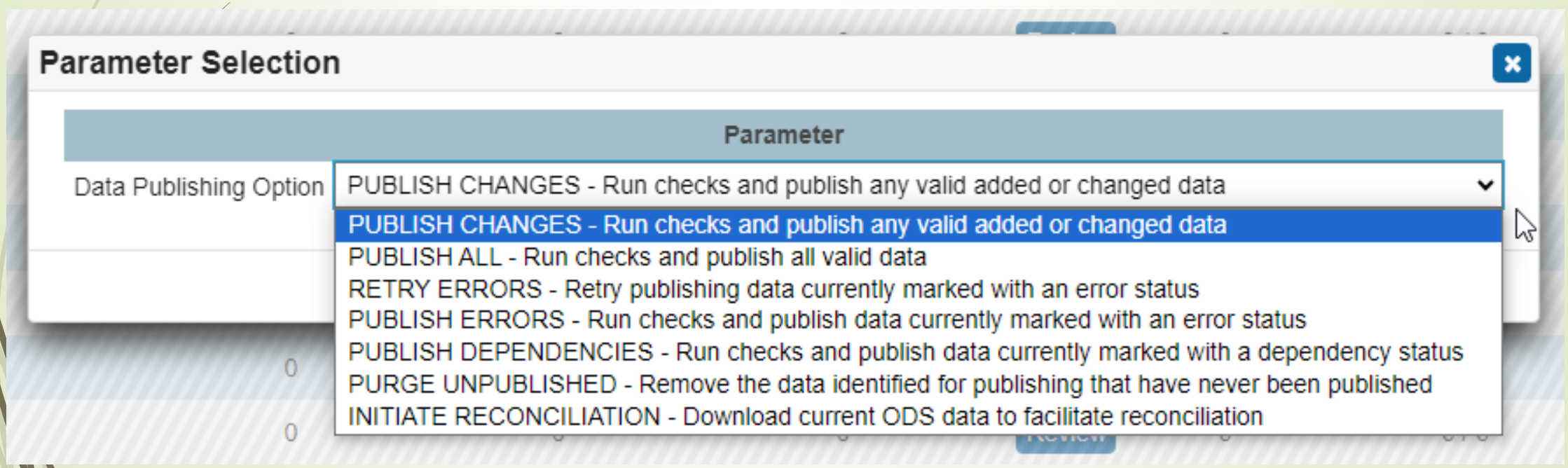
Education Analytics (EA) and the South Carolina Department of

How to do “publishing”

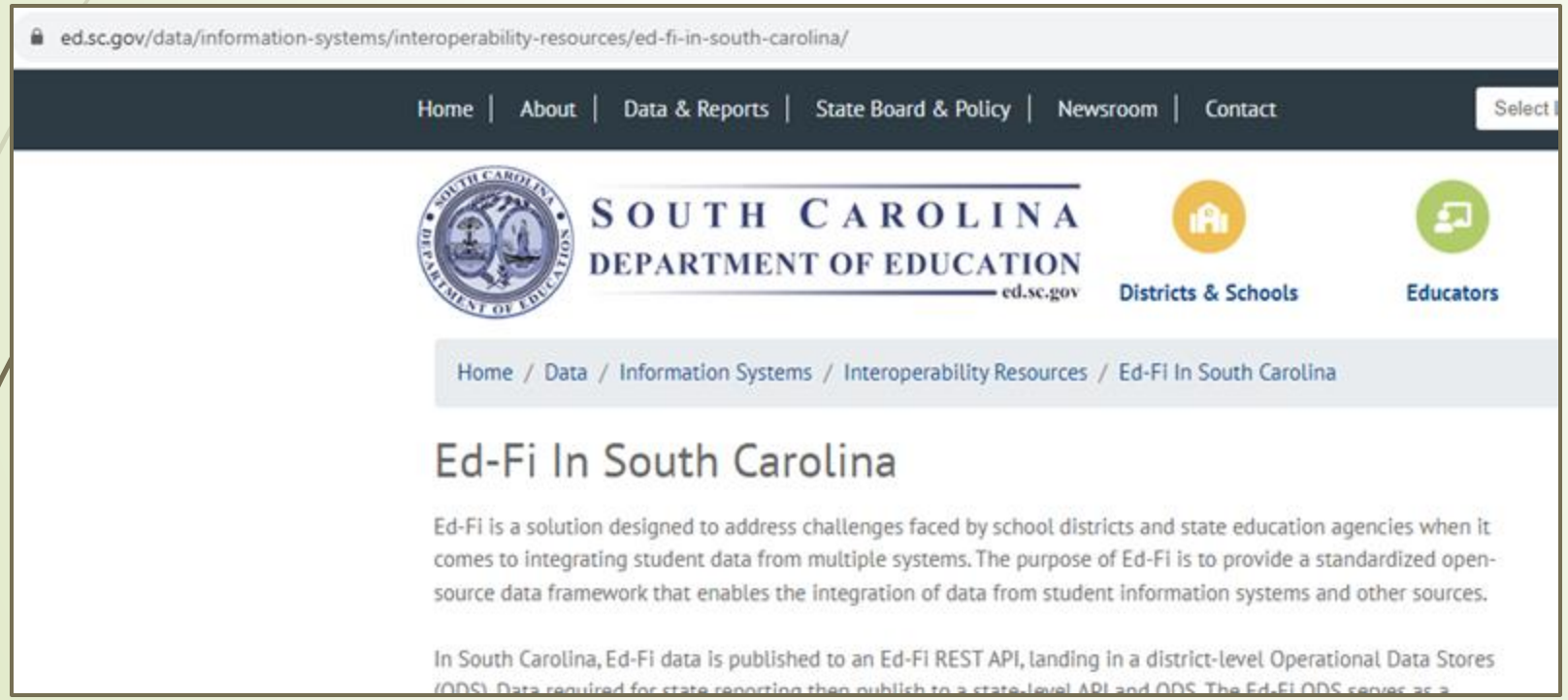


Three kinds of Ed-Fi data publishing

- **Initial data push**
  - May take some extra efforts to get a clean publish at the start of the year (and PowerSchool may need to help)
  - Medium level of effort
- **Publishing throughout the year (regular maintenance)**
  - Publish after each State Reporting update
  - Lowest level of effort
- **Investigating and resolving data quality issues**
  - Requires more in-depth understanding of PowerSchool fields and what the dashboard is suggesting
  - Highest level of effort

Ed-Fi Resources

- **Ed-Fi in South Carolina page**
  https://ed.sc.gov/data/information-systems/interoperability-resources/ed-fi-in-south-carolina/



Processes and Procedures

-What do you do every single week?

-What processes are kicked off and what should you monitor (D&Es)?

-How often should I publish my data?

-What to do when you have a D/E you can't resolve?

-When can I cry?

Two Kinds of Errors (for this workshop)

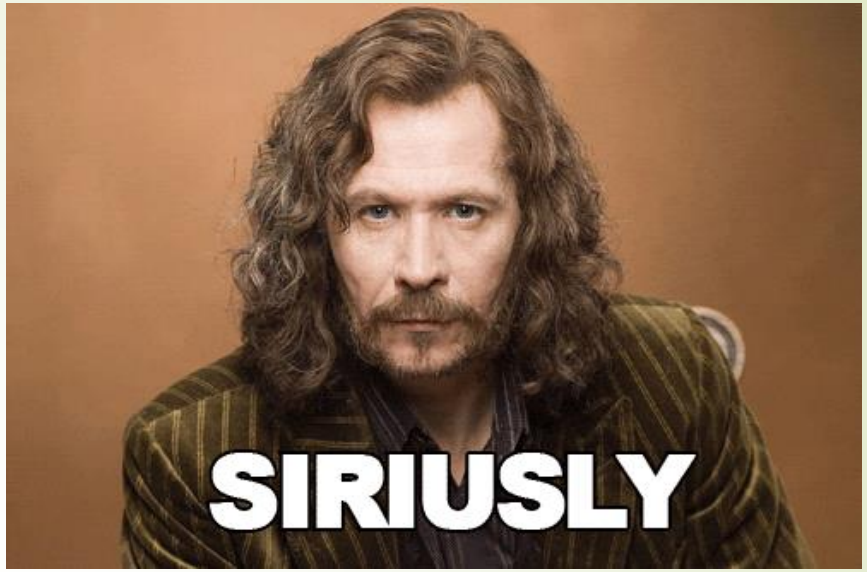
Whose bucket?

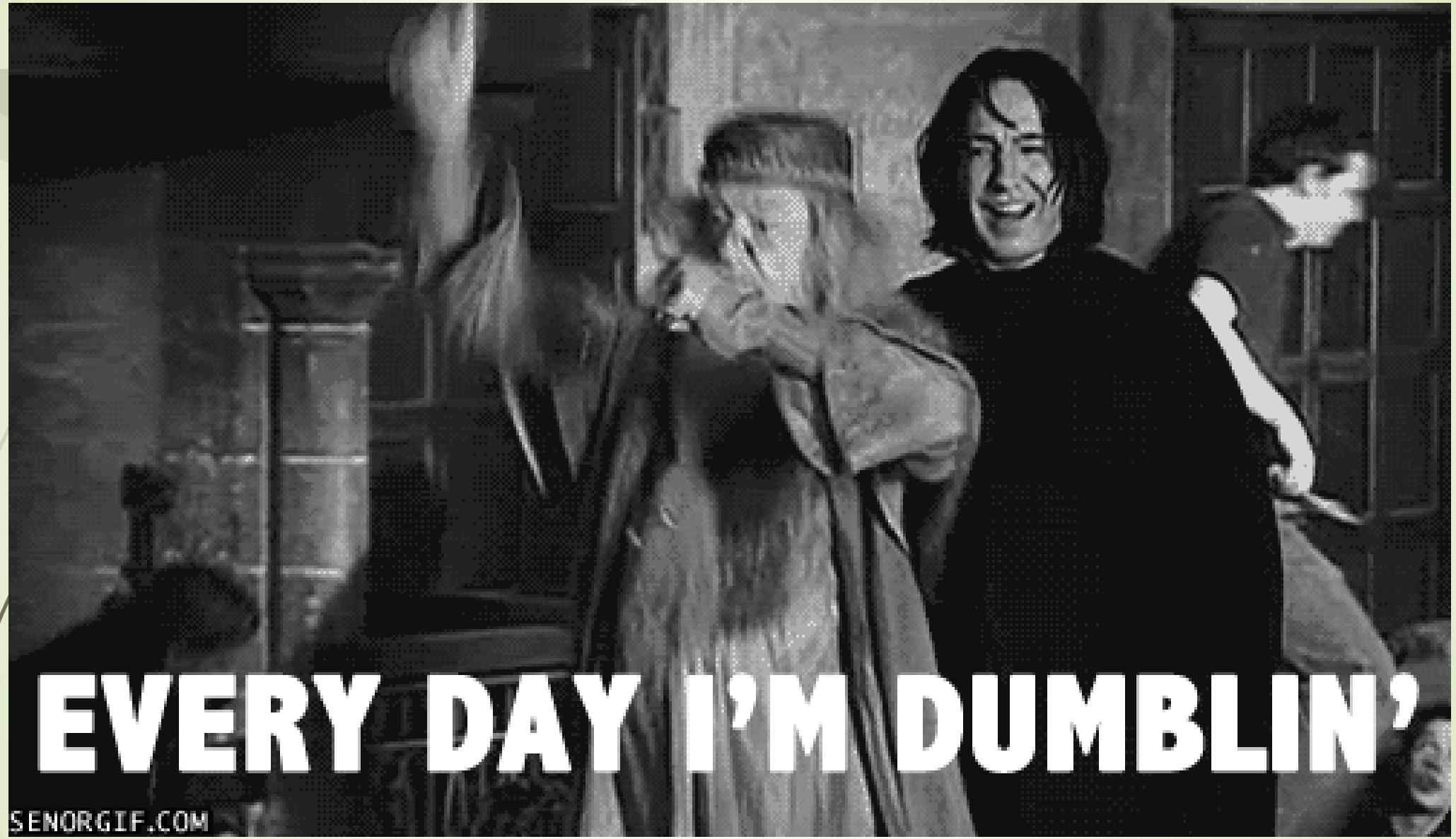
- PowerSchool
- SCDE
- EA
- District

Two Kinds of Errors

- Level 1 Errors - YOUR bucket!
  - Data cannot land in the ODS (red button)
  - Remember that you have resources to help!
- Level 2 Errors - Also YOUR bucket!
  - Data land in the ODS but quality is still bad
  - Example: 96=9

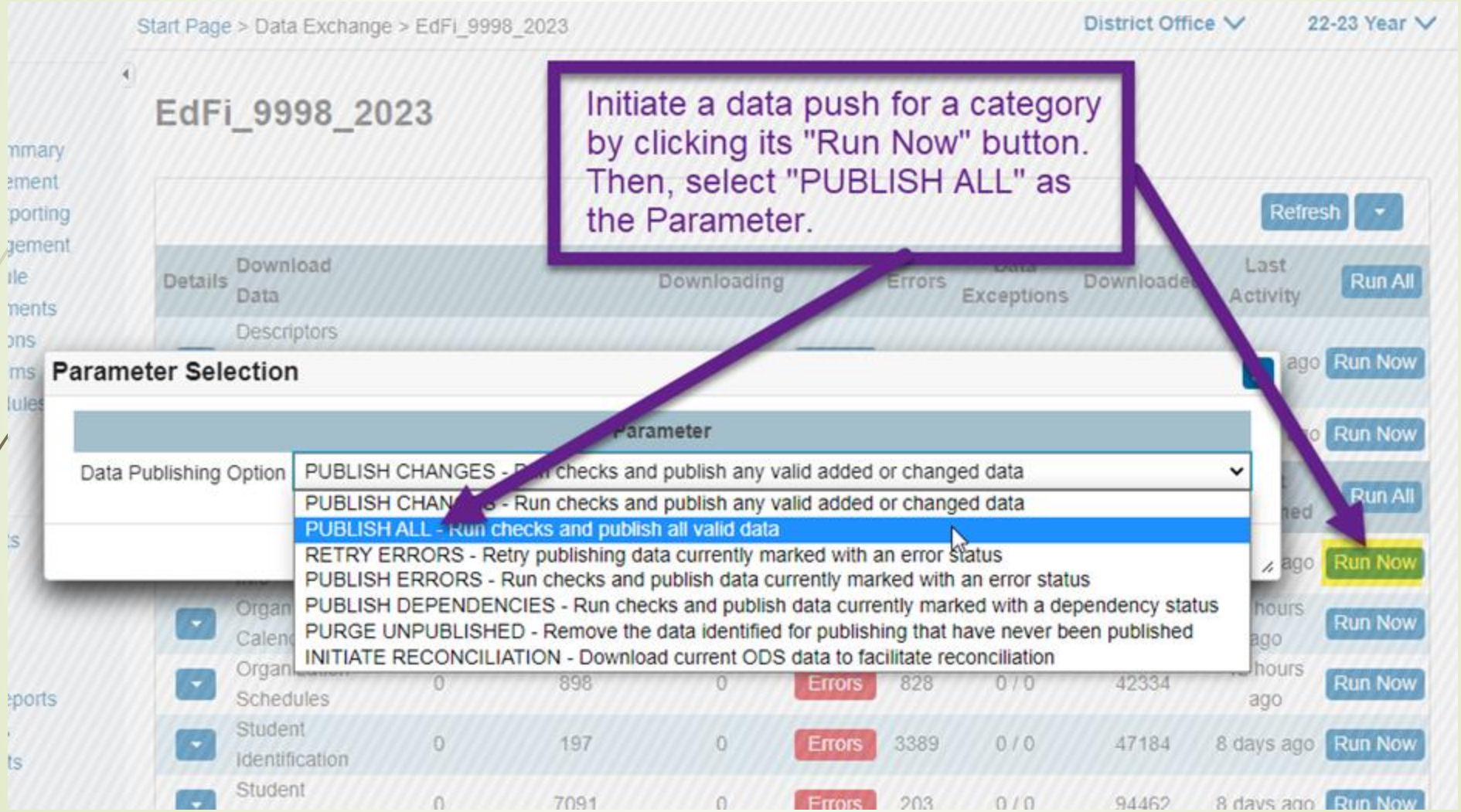
Error Tips and Tricks




EVERY DAY I'M DUMBLIN'
SENORGIF.COM

Where do we go from here?

Publishing Tips



Publishing Tips

- Publish data for the relevant categories, ONE AT A TIME (***do NOT click the "Run All" button***) by clicking the "Run Now" button and selecting the "PUBLISH ALL" parameter.
- Wait for the first category to complete before moving to the next category.
- When the "Publishing" column returns to "0" and the number in the "Published" column stops incrementing, you are ready to click the "Run Now" button for the next category.

Error-Resolution Tips

- LEVEL DATA LEVEL DATA LEVEL DATA
- See the Ed-Fi Known Errors and Dependencies via the SCDE Ed-Fi page.
- Look at an individual student or staff member's publishing.
- Compare what published to what didn't.