



# ***EDFacts* Data Quality**

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National Forum on Education Statistics  
July 31, 2017

*Presented to the National Education  
Statistics Agenda Committee (NESAC)*

# Representing ESB and the *EDFacts* Team

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ESB Liaison

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ESB Liaison

# Agenda

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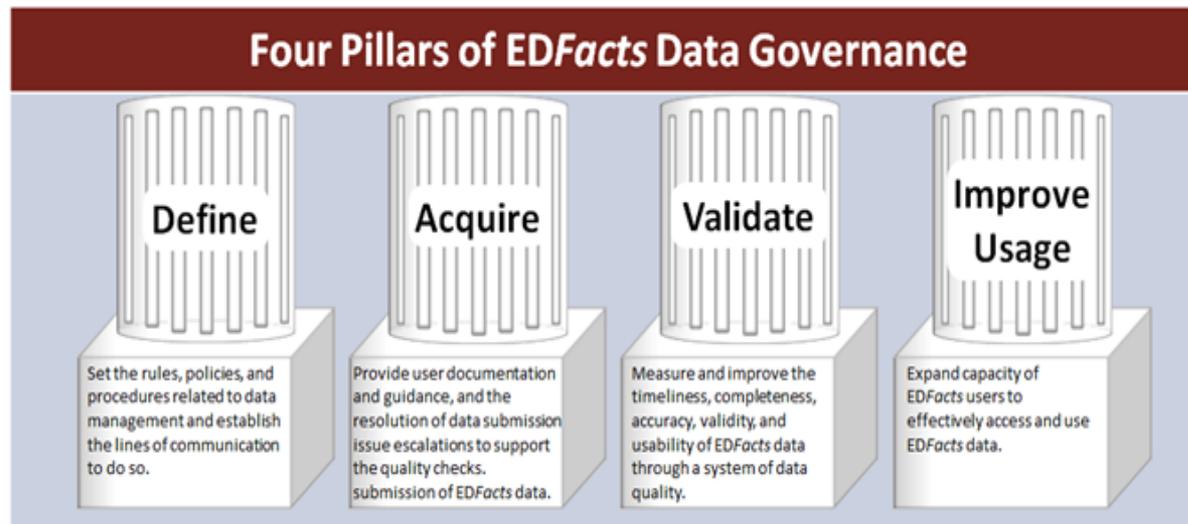
- What is *EDFacts*?
- Role of ESB and *EDFacts*
- Data Quality Strategy
  - Pre-Submission
  - At Submission
  - Post-Submission
- Challenges
- Outcomes



# Role of ESB and ED*Facts*

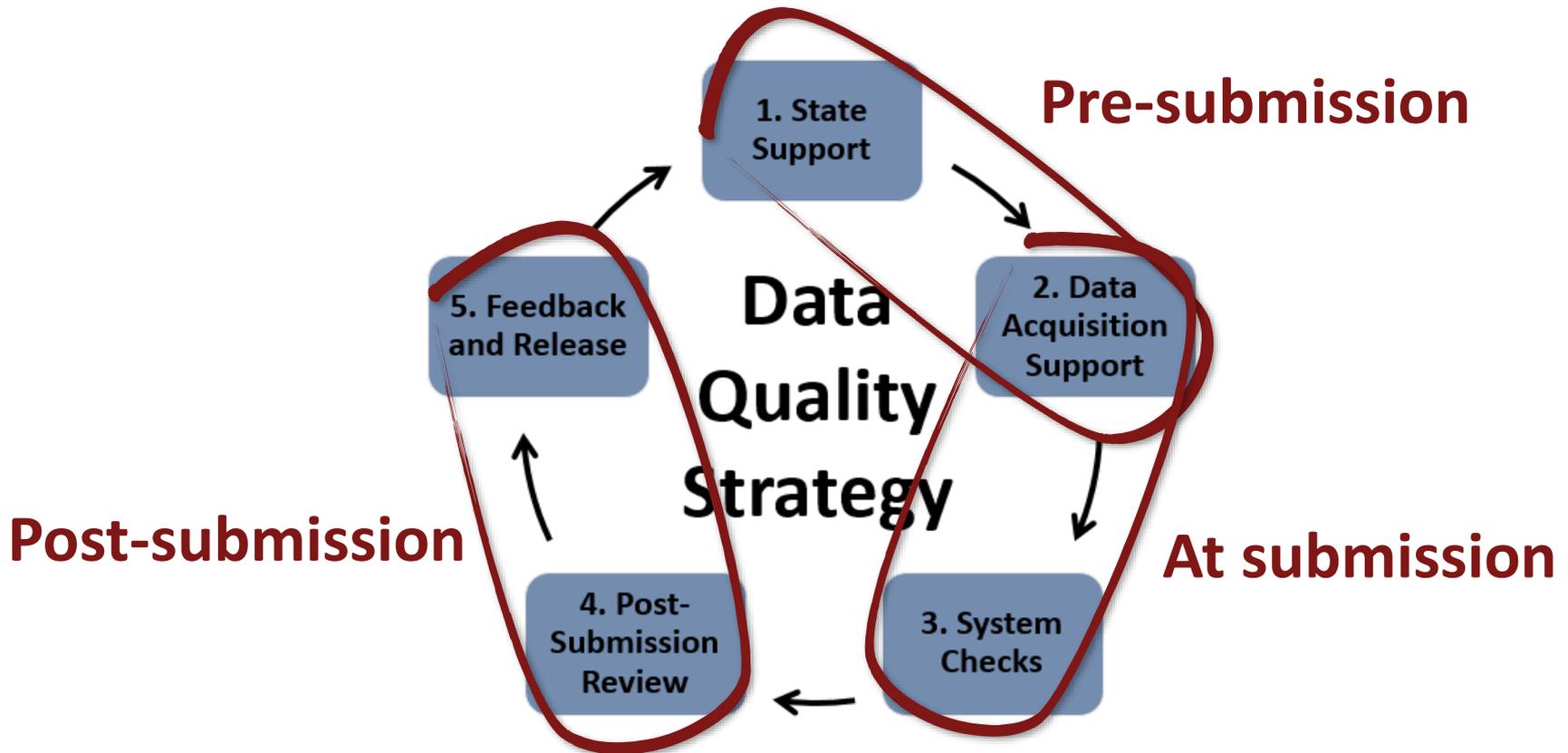


- Support data stewards (ED program offices) to **define** and **validate** data in ED*Facts*
- Facilitate data **acquisition** via ED*Facts*
- Expand the capacity to access and **use** data

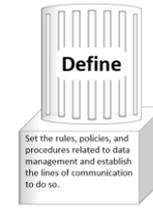




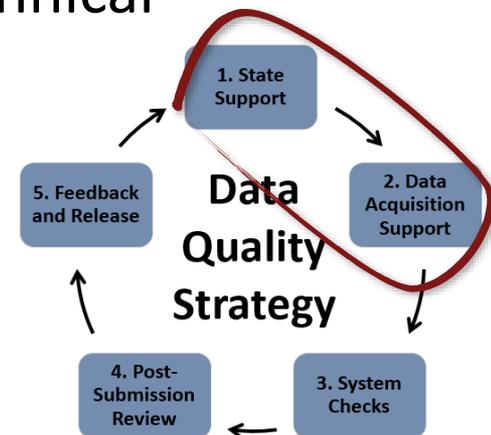
# Data Quality (DQ) Strategy



# DQ Pre-Submission



- ***Supporting States' capacity to manage and provide quality data***
  - ED*Facts* coordination with those supporting data collection and data management at the State
    - SLDS, CEDS, content specific technical assistance
  - ED*Facts* Reporting documentation
  - ED*Facts* Partner Support Center (PSC) technical assistance
    - PSC Escalation process: State > PSC > ESB > Data steward PO (if needed)



# DQ at Submission

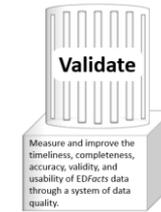


- Centralized data system
- System checks
  - Data file errors – Indicate a format or technical problem with the data that must be corrected before the system will accept the data
  - Submission Business Rules – Check if data are consistently reported, unreported, misreported, or if expected relationships are present

- *PSC support*



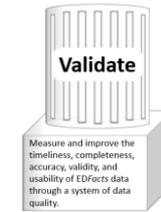
# DQ Post Submission



- Data Quality Summary Reports (DQSRs)
- Typical data quality review process:
  1. Review data to identify anomalies/unexpected values
  2. Provide feedback to State through PSC
  3. Receive updated data and/or responses
    - *[Optional]* Repeat 1, 2 and 3 provide second round of feedback
  4. Review data and assesses final quality that informs final file production and documentation
  5. Prepare lessons learned for future process improvement
- *PSC support*



# DQ Post Submission (cont'd)



- Internal data usage
- Public data release
  - Apply approved privacy protections
  - Through the final DQ review, the steward may suppress data due to DQ concerns
  - Prepare detailed public file documentation with State notes for data users



# Current Challenges

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- **Resourcing**
  - Desire and interest to review more data, faster but it takes time
- Part of the ED data review cannot be automated; there will always need to be human review and decisions
- Timelines are critical

# Observed Impact of DQ Strategy

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- DQ review feedback sent to States **quicker**
- DQ issues resolved **faster**
- **More substantive** information about data from the States
- **New data** files released to the public
- Data files released to the public **quicker** with **more detailed** documentation for data users

# Outcomes

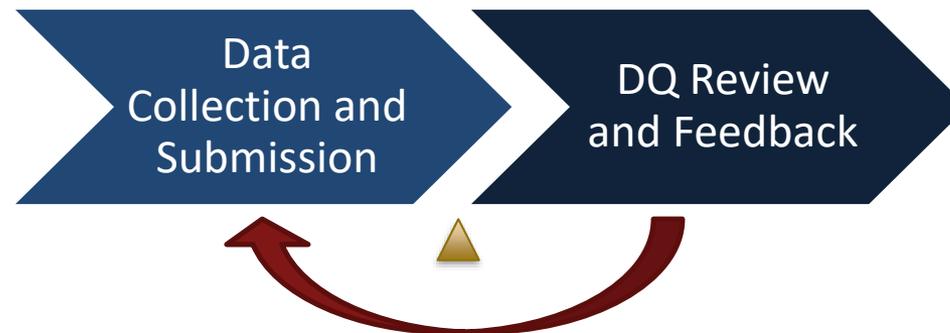


- **Data are available earlier for planning, policy and management at the federal, state and local levels**
- ED
  - Better knowledge of the data we collect
  - Model process that can be expanded to other data
  - More data reviewed → more data released
- SEAs (data submitters)
  - Improve processes and systems
- Public data users
  - Access to more data that States all work hard to report
  - Benefit from the transparency and are able to use for their own interpretation, analysis, and research

# Continuous Improvement



- More information transferred upstream to the State
  - Continue to be transparent about system checks and more transparent about post submission checks



- Continue to make process more efficient

# Key *EDFacts* Websites

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- ***EDFacts* Initiative website**
  - <https://ed.gov/edfacts>
  - Documentation
  - LEA and School public data files
- ***EDFacts* Community Site:**
  - <https://edfacts.grads360.org>
  - PSC Resources



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# DISCUSSION AND QUESTIONS