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Early Childhood Integrated Data Analytic Self-Assessment Rubric

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ECDataWorks



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Contributors: Anita Larson, Jennifer Verbrugge, Jessie Bruno, Steve Matherly, Julie Bisi



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Missy Coffey, Ph.D.

Director, Early Childhood Technical Assistance, SRI International

A national expert in early childhood integrated data systems, Missy Coffey has extensive technical assistance experience and specializes in research to understand how program and policy decisions are made to support children and their families. Coffey is the co-principal investigator for ECDataWorks, a national project supporting the development of data analytics for state administrators. She is also a technical assistance provider with the Center for IDEA Early Childhood Data Systems (DaSy Center), supporting states with integrating and using early intervention and early childhood special education data. Coffey is also leading the early childhood integrated data system readiness assessment and technical assistance for the state of California.

Philip M. Sirinides, Ph.D.

Director of the Institute of State and Regional Affairs (ISRA), Pennsylvania State University at Harrisburg

As Director of the Institute of State and Regional Affairs (ISRA) and an associate professor in the School of Behavioral Sciences and Education at the Pennsylvania State University at Harrisburg, Philip Sirinides' primary areas of expertise include mixed-methods in randomized experiments and quasi-experiments of social interventions and policies, and the development and use of integrated data systems for public sector planning and evaluation. He is the principal of ECDataWorks which provides innovative opportunities for collaborating states to improve the delivery and use of their early childhood data among state policymakers and practitioners.

Howard Morrison

Early Childhood Technical Assistance Specialist, SRI International

An early childhood technical assistance specialist with a focus on data integration and use, Howard Morrison specializes in inter-agency data integration efforts, which include data governance, data quality, data sharing agreements, and stakeholder engagement to identify key data elements for program improvement and collaboration. Howard supports the state engagement and facilitation strategies for the ECDataWorks collaborations.



Early Childhood Integrated Data Analytic Self-Assessment Rubric

Evaluating Success of ECIDS Analytics

ECDataWorks and partner states developed an ECIDS data analytic self-assessment rubric that focuses on the process of translating ECIDS data to information to action. Designing, developing, and implementing analytic tools is challenging for several reasons:

- Analytic tools include a wide range of applications, formats, audiences, and uses.
- The development process occurs in phases which require coordination of teams with different roles and expertise.
- Analytic tool design is much more than "making charts" in that useful analytics are based on a sound foundation of theory and data quality.
- Information needs evolve as priorities change and new questions emerge.

How to use the data analytic indicators:

- To review an existing analytic tool or as a reference in the development of new analytic tool.
- To identify agency capacity gaps for developing analytic tools.

About the Self-Assessment Rubric

ECDataWorks convened a group of state ECIDS leads to provide input on the potential utility of an ECIDS self-assessment, the overall structure, and the indicators of success. The team identified two types of relevant indicators: those that describe the tool; and those that describe the process of designing developing, implementing, and evaluating the tool. The first set of Tool indicators can be used to review an existing analytic tool or as a reference in the developing of new analytic tools. The second set of State indicators can be used to identify agency capacity gaps for developing analytic tools. Based on feedback, the team made revisions and identified key considerations for use of the self-assessment rubric.

Tool indicators

- Because of the diversity of analytic tool applications, formats, audiences, and uses, not all indicators would necessarily be applicable for all tools – it's okay for some to be N/A.

State indicators

- State indicators refer to the overall capacity of an agency.



Analytic Tool:

State Agency(ies):

Completed by :

(name and role)

Date completed:

(this is useful to track changes over time)

Analytic Tool Indicators

To what extent does the analytic tool ...

Articulated Use	Not at all	To some extent	To a great extent	Rationale
Indicator 1 Aligns to one or more state priorities				
Indicator 2 Defines audience (and identify level of access for restricted data)				
Indicator 3 Articulates one or more intended use case				
Indicator 4 Responds to the information needs of the intended audience				
Indicator 5 Identifies data that would not be available through any other means				

Tool Design Proces	Not at all	To some extent	To a great extent	Rationale
Indicator 6 Incorporates feedback from relevant experts in the tool design and use cases				
Indicator 7 Incorporates practice knowledge in the tool design and use cases				
Indicator 8 Incorporates research insights in the tool design and use cases				



Sustainability & Improvements		Not at all	To some extent	To a great extent	Rationale
Indicator 9	Incorporates feedback from relevant experts in the tool design and use cases				
Indicator 10	Incorporates practice knowledge in the tool design and use cases				

How can we improve the for the use of this specific analytic tool?

State Indicators

Planning		Not at all	To some extent	To a great extent	Rationale
Indicator 1	Demonstrate organizational priority to use data to inform policy and practice				
Indicator 2	Articulate data needs that are aligned to state goals and priorities				
Indicator 3	Establish data governance body that oversees the design and use of analytic tools				
Indicator 4	Develop ongoing process for engaging stakeholders in the design and use of analytic tools				

Capacity	Not at all	To some extent	To a great extent	Rationale
Indicator 5	Incorporates feedback from relevant experts in the tool design and use cases			
Indicator 6	Incorporates practice knowledge in the tool design and use cases			
Indicator 7	Incorporates research insights in the tool design and use cases			

Evaluation	Not at all	To some extent	To a great extent	Rationale
Indicator 8	Enact a process to verify and ensure quality data.			
Indicator 9	Implement a process for modifying data analytics based on tester and user feedback.			
Indicator 10	Conduct external evaluation of data analytics (including research partnerships)			

How can we build capacity to better use data analytics?