MNCSL

Numbers, Numbers, Numbers Why Data Matter for Early Childhood Systems Delivery

Early Childhood Fellows Program Tuesday | 09.13.22



<u>Question</u>:

Which state is the home to the most "American Idol" finalists?







<u>Answer</u>:

North Carolina

Today's Agenda



Why are data important for an efficient early childhood system? What are the basic components of a state-wide data system supporting early childhood programs? How can states collect and use data to support effective early childhood policy? Dec

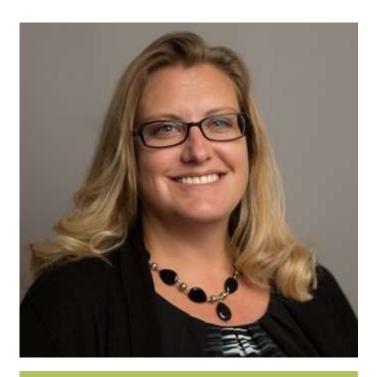
Speakers





Carlise King

Executive Director, ECDC Child Trends



Heather Rouse, Ph.D.

Assistant Professor, Iowa State University Director, I2D2

Early Childhood Integrated Data Systems 101

September 13, 2022



Early Childhood Data Collaborative



The **Early Childhood Data Collaborative** (ECDC) promotes policies and practices to support policymakers' development and use of coordinated state early care and education (ECE) data systems.

From compliancedriven to Guiding improvement-**Principles:** driven data systems From From "snapshot" fragmented data to data systems longitudinal to coordinated data systems data systems

ECDC Advising Partners

Center for the Study of Child Care Employment at UC Berkeley

Council of Chief State School Officers

Data Quality Campaign

National Conference of State Legislatures

National Governors Association Center for Best Practices

Why Early Childhood Data Matters

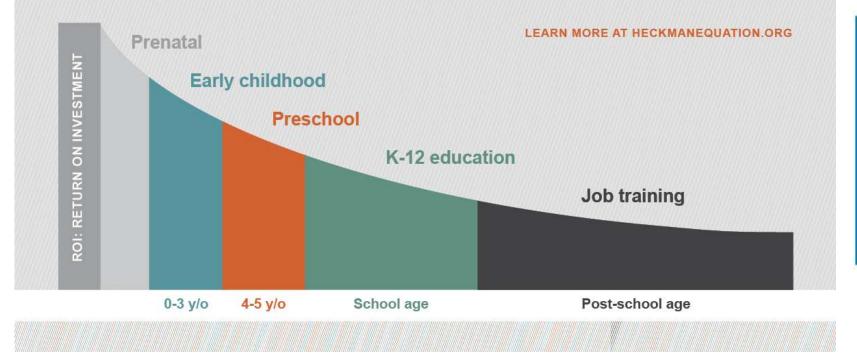






Return on Investment

Heckman | Economic impact of investing in early childhood learning.



GUALITY EARLY CHILDHOOD DEVELOPMENT PRODUCES LONG-TERM BENEFITS PRODUCES LONG-TERM BENEFITS Cognitive skills Social-emotional skills Earnings Inequality

Why Are Early Childhood Data Important?







Children

1. Do **systems** support all *children's development* for success at school entry and beyond?

Programs

- 2. Are **programs** easily accessible and designed to meet children and families needs?
- 3. Is the number of **programs** increasing or decreasing?

4. Which **program characteristics and policies** elevate the strengths and address the needs of children and families?

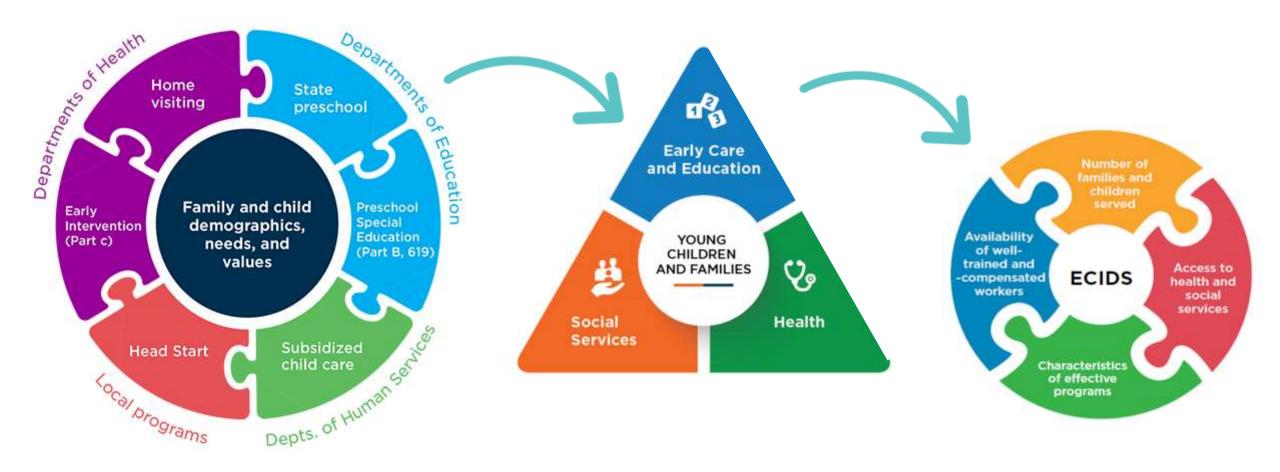
Workforce

5. Do **educators**, have opportunities to grow, strengthen, and apply their professional skills, to meet the needs of children?

6. What **policies and investments** lead to a skilled and stable early childhood workforce?

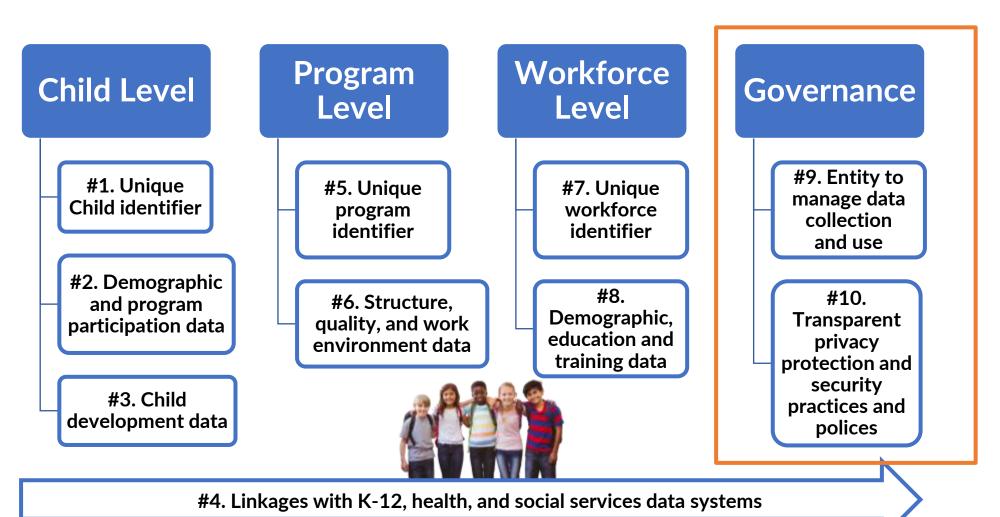
Early Childhood Data About Young Children, Families, and Programs Are Disconnected





10 Fundamentals of Coordinated State ECE Data Systems

DATA Collaborative





How states have used integrated early childhood data



➢Georgia's Cross Agency Child Data System

How many children receive a combination of early childhood services?

≻North Carolina ECIDS:

- How many children who are Pre-K age eligible are not in NC Pre-K are receiving other types of services (e.g., subsidized child care, TANF, SNAP)?
- Minnesota Early Childhood Longitudinal Data System :
 - Do children of color and children enrolled in the state's TANF and SNAP have equal access to early childhood programs?

<u>Video Link</u> <u>https://www.youtub</u> <u>e.com/watch?v=FA8</u> <u>EHmKRfTY</u>

Stephanie Hogenson, Outreach Director at Children's Defense Fund-MN



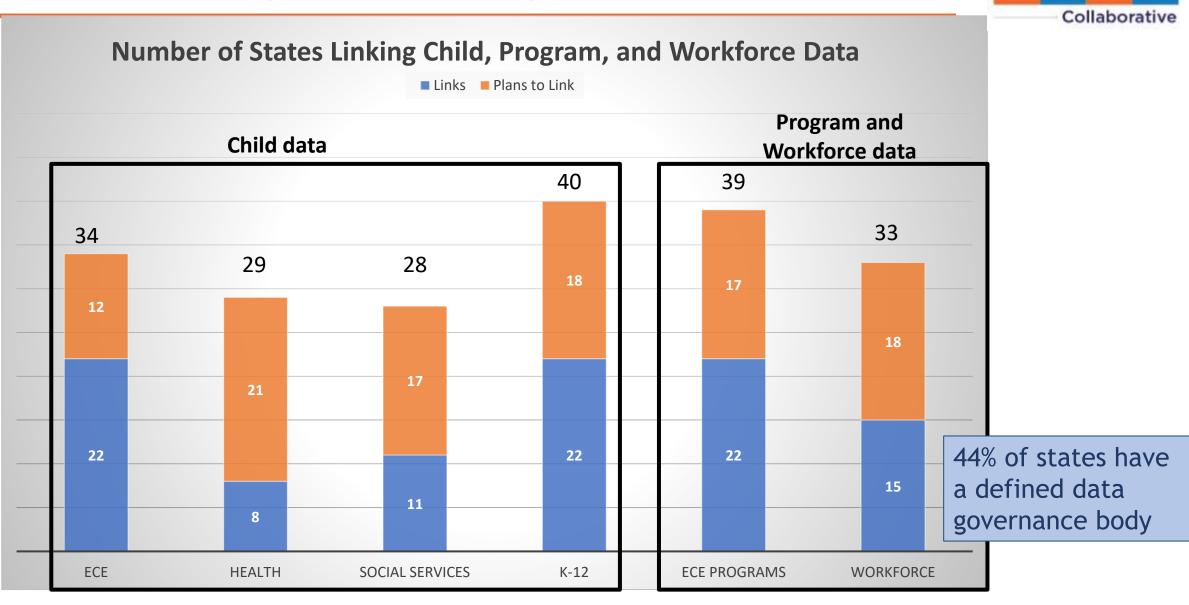
What types of policy questions do you have in your state which require integrated data?



Early Childhood Data Integration Efforts

DATA Collaborative

2018 Data Systems Survey Data



The Early Childhood

ECE programs linking child-level data



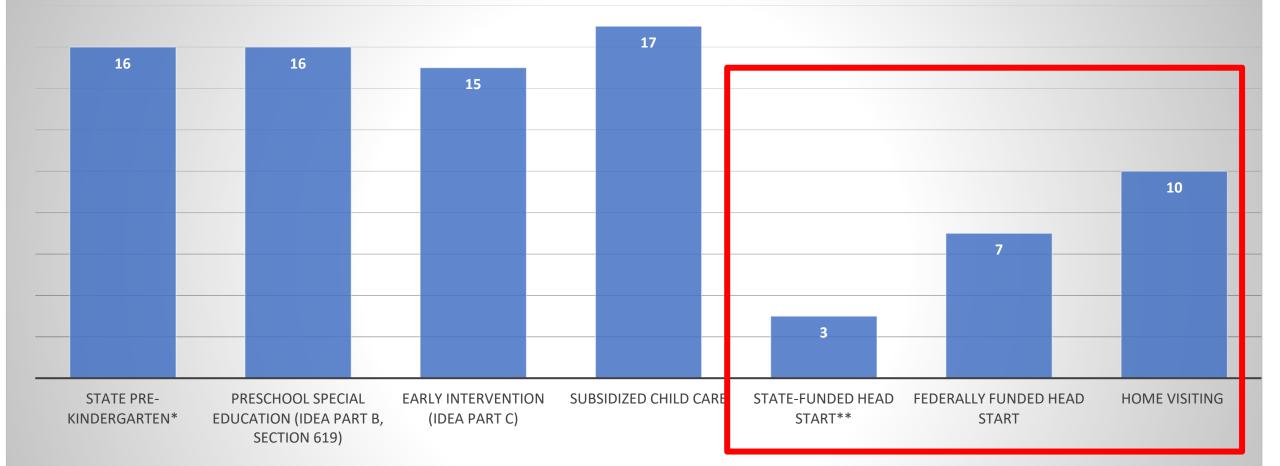


Figure 3. ECE programs Linked by States Linking Child-Level Data Across ECE (n=22 states).

Adapted figure from "2013 State of states' Early Childhood Data Systems" by C. King, V. Perkins, C. Nugent, & E. Jordan, 2018. Early Childhood Data Collaborative, Child Trends.

*Number of states included with state-prekindergarten (n= 21)

** Number of states included with state-funded Head Start (n= 6)

2018



What types of data do you wish you had better access to when making policy decisions?





Importance of beginning with identifying key research and policy questions

Have dedicated resources (staff time and funding)

Involve diverse stakeholders throughout the process Create and implement a sustainability plan early on

Develop a strong and active data governance body

Creating a culture of data use with equity as a core value

Importance of bidirectional communication (both receiving input and feedback as well as communicating progress and activities)

QUESTIONS?

The Early Childhood



THANK YOU!

Carlise King cking@childtrends.org



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Numbers, Numbers, Numbers: Why Data Matters for Early Childhood Systems Delivery



Heather Rouse Associate Professor, Human Development and Family Studies, Iowa State University

THE CHILDCARE CRISIS

"My employees have to rely on food stamps and child care assistance themselves, because... I can't pay them a living wage."

> - DEB VANDERGAAST, DIRECTOR OF TIPTON ADAPTIVE DAYCARE IN IOWA

As the global pandemic carries on, parents globally have been exiting the workforce and thrust into careghing roles. Women have taken the brunt. Provazioner links. Normath lineathers



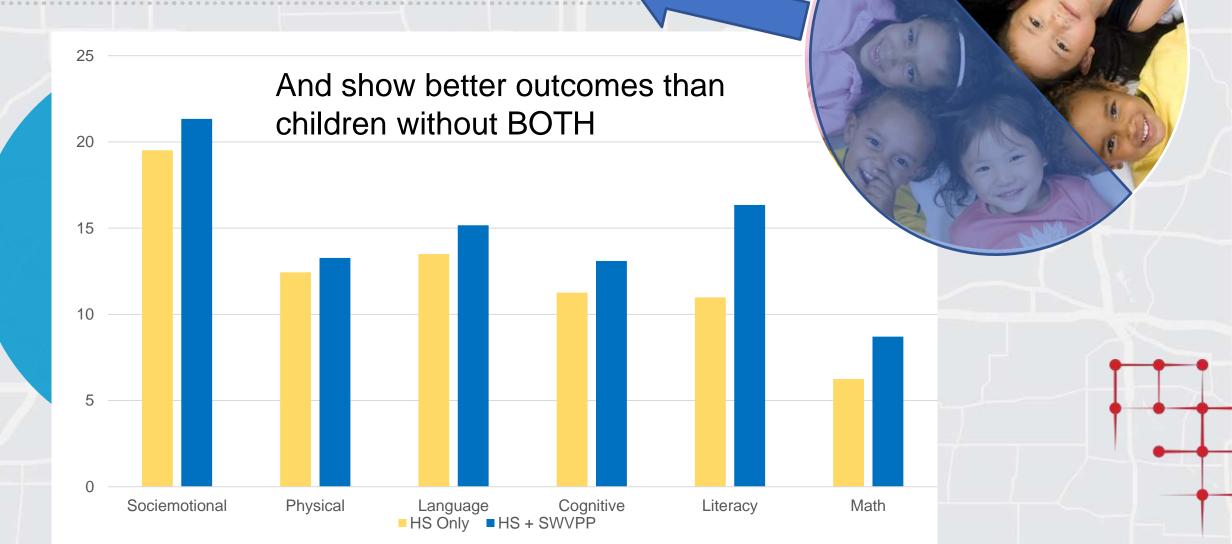
How the Child Care Crisis Became a Global Economic Fiasco Iowa businesses lose approximately \$83 MILLION annually because of our child care crisis?

Did You Know?



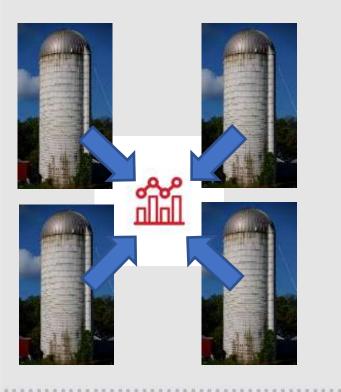


51% of Head Start children ALSO participate in Statewide Voluntary Preschool?



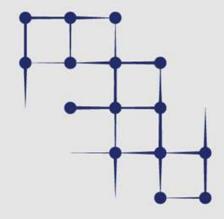
Did You Know?

Children born to mothers without a high school education or who are receiving Medicaid/WIC at birth are SIGNIFICANTLY LESS LIKELY to have both these valuable experiences?

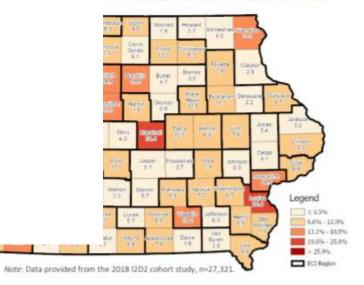








r without a high school education (statewide = 10%)



I2D2 Vision

Our system of early childhood policies and programs across the state will be informed by rigorous analysis of <u>timely, comprehensive, and</u> integrated data from health, human services, and education systems. Implications of policy and program analysis will be <u>considered in</u> <u>collaboration</u> to direct services and resource allocation. 1202 Iowa's Integrated Data System

1202 Iowa's Integrated Data System for Decision-Making

As our service systems are increasingly charged with the heroic task to do more, do it quicker, and do it with less — they need comprehensive information to inform strategic decision-making. I2D2 provides a vital solution by integrating people and data from across service systems to address Iowa's most pressing social problems.



Addresses State Priorities



Promotes Data-Informed Decisions



Identifies Gaps



Enhances Cross-System Programming Efforts

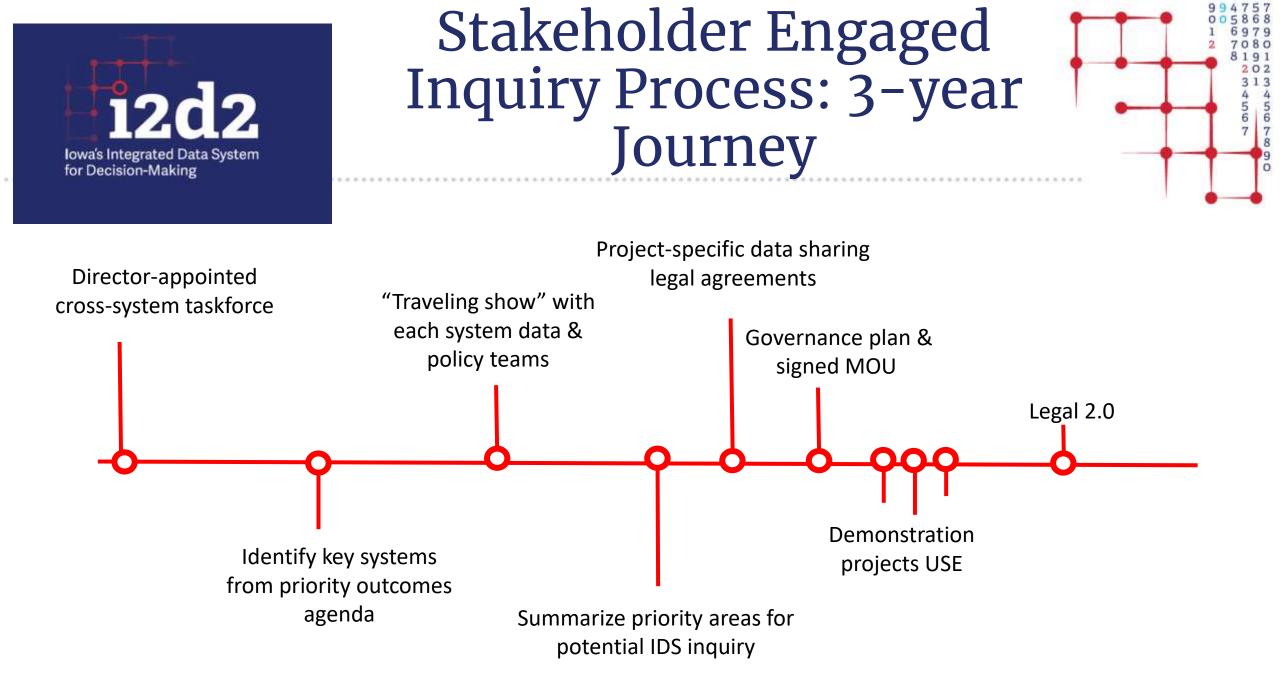


Supports Cycles of Inquiry

I2D2 Critical Components

Solid Governance Plan Emphasizing State-University Partnership

Rigorous Standards for Privacy, Security, and Data Integration Strategic Stakeholder Engagement at ALL PHASES to Ensure Data are USED



State-University Partnership Model

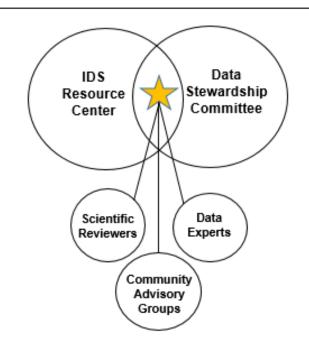
- State maintains control of all data use
- University staffs the infrastructure with a flexible capacity to expand or contract to address priorities
- Capitalizes on ISU's land-grant mission and expertise in data management, analytics, security
- Third-party approach for data integration that meets federal and state legal requirements
- "Build it once, use it multiple ways" model



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Governance Board

I2D2 COMMITS TO PRIORITIES FOR THE LONG-TERM.

We work with stakeholders to assess effectiveness and identify shortcomings in reaching lowa's goals through a process that uses Data to inspire Dialogue that informs Decision-making.

1 DATA

DECISION-MAKING

I2D2 integrates data insights with executive leader and program manager decision-making to advance a statewide culture of evidence-based services to improve outcomes.

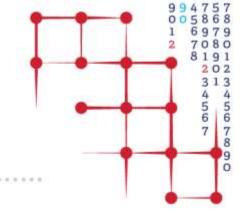
3)

I2D2 integrates data already collected by agencies in a safe, secure, scientifically rigorous system designed for policy analysis.

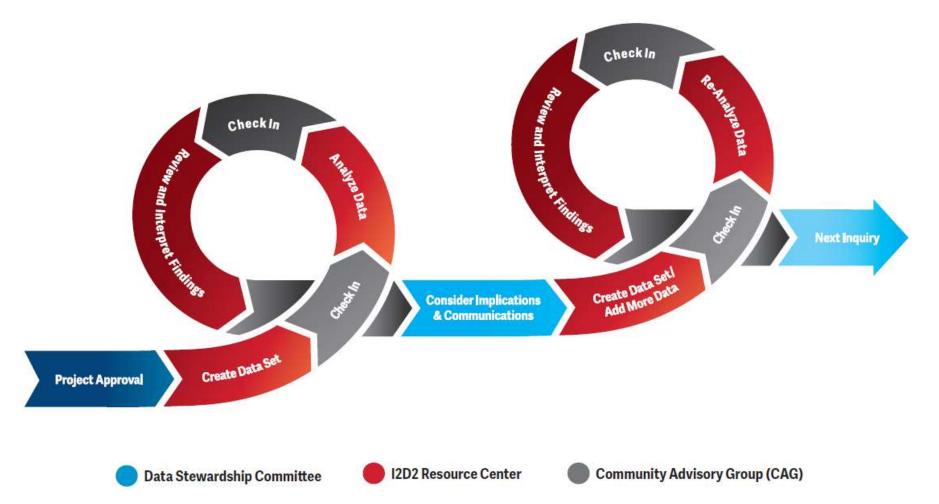
2 DIALOGUE

I2D2 integrates people as stakeholder stewards of data to gather collective insight and translate findings into actionable intelligence.





Cyclical Project Process





Legal Approach

Memorandum of Agreement (MOA)

("business use" of the IDS to serve departments)

Data Sharing Agreements

(overall data security; privacy protections)

Data Use Licenses

(project specific, anonymized datasets)

See also the "Best Practices" examples from the AISP network: https://www.aisp.upenn.edu/resources/legal-agreements-and-other-supporting-documents/



Phase I Datasets

Department of Public Health:

Vital Records (Birth/death/marriage) Infant Screening System Home Visiting (DAISEY) Lead Registry Maternal/Child Health (TavHEALTH) First Five

Department of Education:

Prek-12 (enroll, achieve, attend) Preschool assessment Special Education (IDEA A, B, & C)

Department of Human Services:

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Child Care Subsidies Child Welfare Child Support Recovery Income Maintenance/Eligibility SNAP TANF

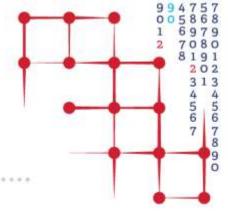
Department of Human Rights

FaDSS (2 Gen program)

Head Start



Analytic Projects



1. Early Childhood Iowa Longitudinal Study (ECILS) – STATUS: ongoing

[Data: IDPH, CCA, DE, Head Start, DHR]

- Using needs assessment data & county-level reports to inform data literacy approaches (Strategic Plan Goal 1)
- Expansion to study multiplicity among EC programming and across time
- 2. Family Support, Home Visiting, and Community Risk STATUS: ongoing [Data: IDPH, DE, Head Start]
- Analyses informed community risk assessments, prenatal enrollment efforts
- Pursuing new project dimensions with DE, ECI family support, Early Head Start, & focus on early intervention

3. Substance Use Among Iowa Families – STATUS: completed

[Data: IDPH]

- Project report completed, working on policy briefs
- Findings led to follow-up projects that are currently underway (not currently IDS)

Prioritizing Iowa Needs



Technical Report: An Integrated Data System Analysis of Substance Use and Home Visiting



Heather Record, Constantia Dontas, Reute Ro Annie Gamel, & Annara Bluring anne State (Morridy) | Sectorem 11, 2018 Childhood

Early

Early Childhood Iowa

Statewide

Needs Assessment

2019

"Every child, beginning at birth, will be healthy and successful."



This patients on suit made possible by the Preschool Devolupient Grant Erms to Free Science Houseker (SEPSIGH d) 40() to not Office of Disk Erms, Administration for Disktone and Rearlies, U.S. Department of Haulth and Housek Tarritop as part of a grant to rating (31,300,100 which NK Simulation and with nois generated associated as to conserve any oxide the sequence that the authors and the north measure that the Office of Disktone and the Office of Office of Disk of Disk Erms, the Administration for Erms and Patentine, or the U.S. Department of Haulth and Neural Annolos.

1202 Iowa's Integrated Data System for Decision-Making

PRESCHOOL ACCESS: FILL IN THE GAPS A offers a ratio ork of supportive public and private programs, including unit it every lows child accurately using integrated administrative data, we learn PERCENT OF CHILDREN WITH NO PRESCHOOL EXPERIENCE IN THE YEAR BEFORE KINDERGARTEN Hapanio ++++ HANDER SHARE AUT & Armanight -----DLSK T 25.0% 29.4K Magle Mom Asian +++ 237% 12d2 lows's Integrated Data System

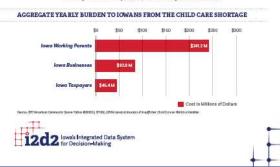
IOWA'S CHILD CARE SHORTAGE:

IT'S AN ECONOMIC ISSUE

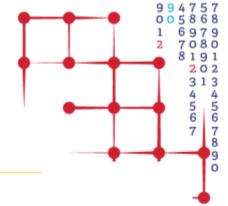
Insufficient child care burdens families, taxpayers, and businesses. It hurts hard



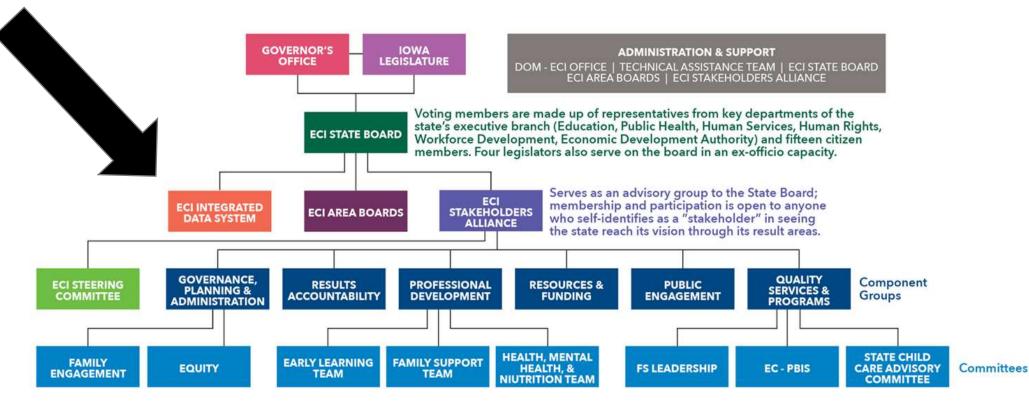
When you add it all up, it's a \$369 million problem in Iowa.



Early Childhood Iowa 2019 Strategic Plan: I2D2 infused in the Statewide System



HOW THE CURRENT SYSTEM IS STRUCTURED



GOAL 1 🛱

Promote a coordinated infrastructure to advance the early childhood system.

STRATEGY 1.1: Expand collaboration and coordination among state and local programs and agencies serving young children and their families.

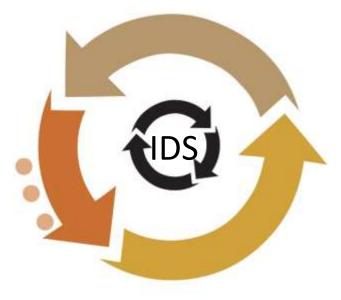
STRATEGY 1.2: Develop and nurture effective publicprivate partnerships at a state and local level.

STRATEGY 1.3: Infuse data-based discussions and decisionmaking processes throughout the early childhood system.

Advancing a collaborative data culture

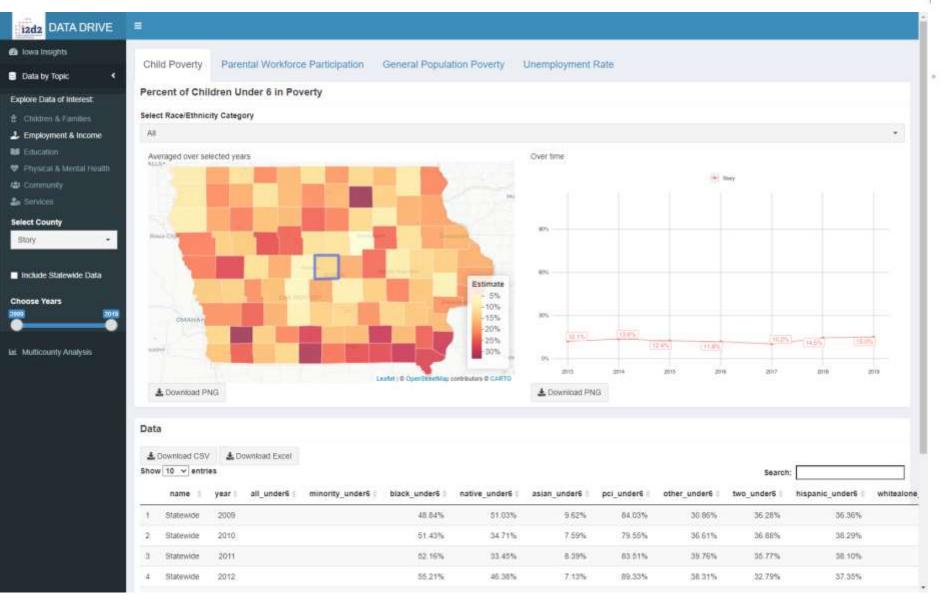


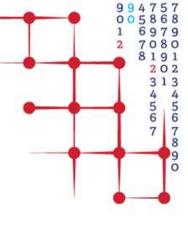
Enhancing IDS Capacity



ECI Strategic Plan 2019-2022 "We are ECI"

I2D2 Data Drive





Passing On What We Have Learned



People and Processes Before Products Build it, Use it, Improve it Communications are Key

i2d2.iastate.edu



Iowa's Integrated Data System for Decision-Making

Learn More

The Early Childhood



https://www.childtrends.org/about-ecdc



https://i2d2.iastate.edu/



