IOWA STATE UNIVERSITY

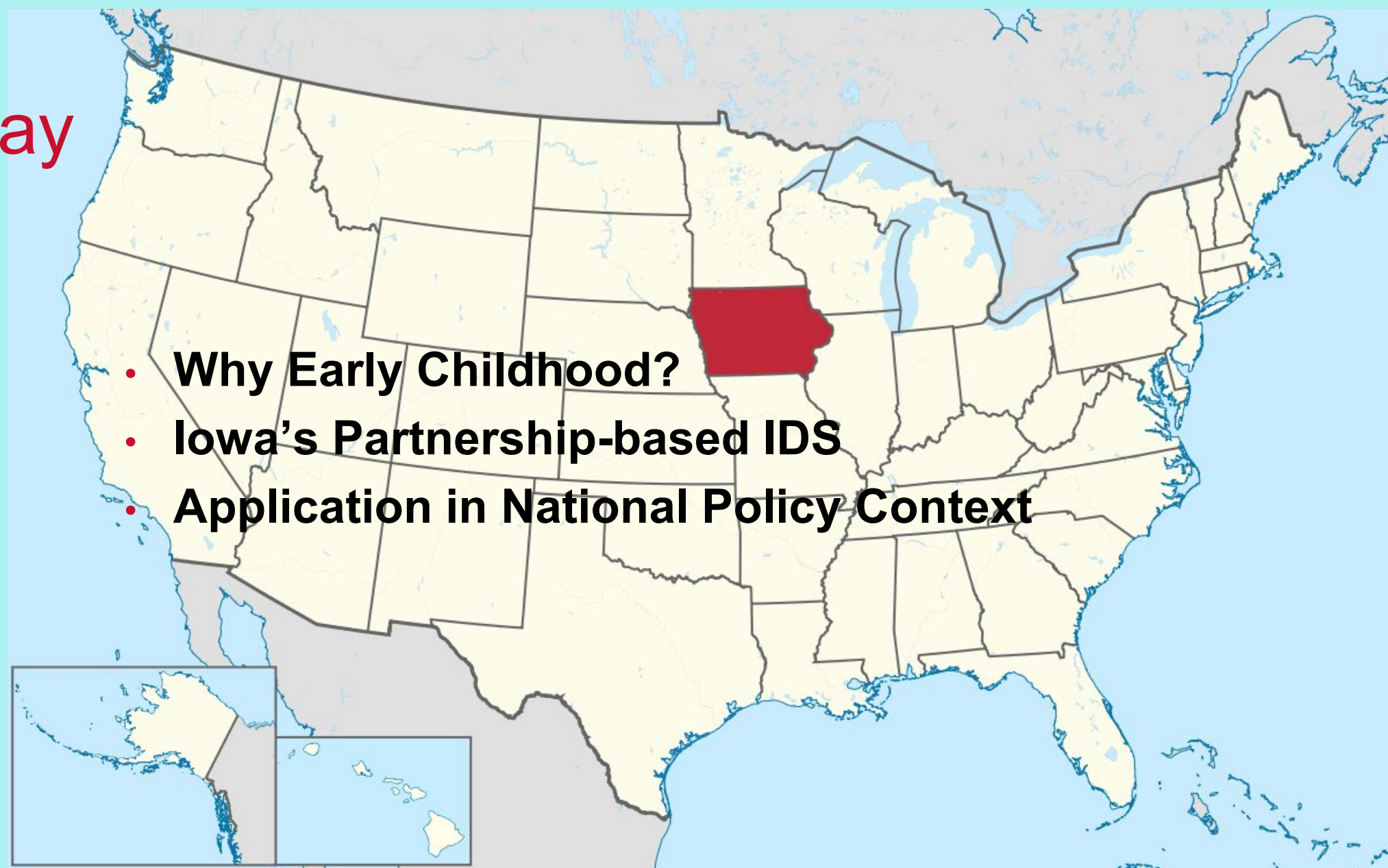**Human Development and Family Studies**

Iowa's Integrated Data System: A State-University Partnership in Early Childhood Policy Analysis

Heather L. Rouse & Cassandra J. Dorius

May 10, 2019

National Academy of Sciences Committee on National Statistics

Today

- **Why Early Childhood?**
- **Iowa's Partnership-based IDS**
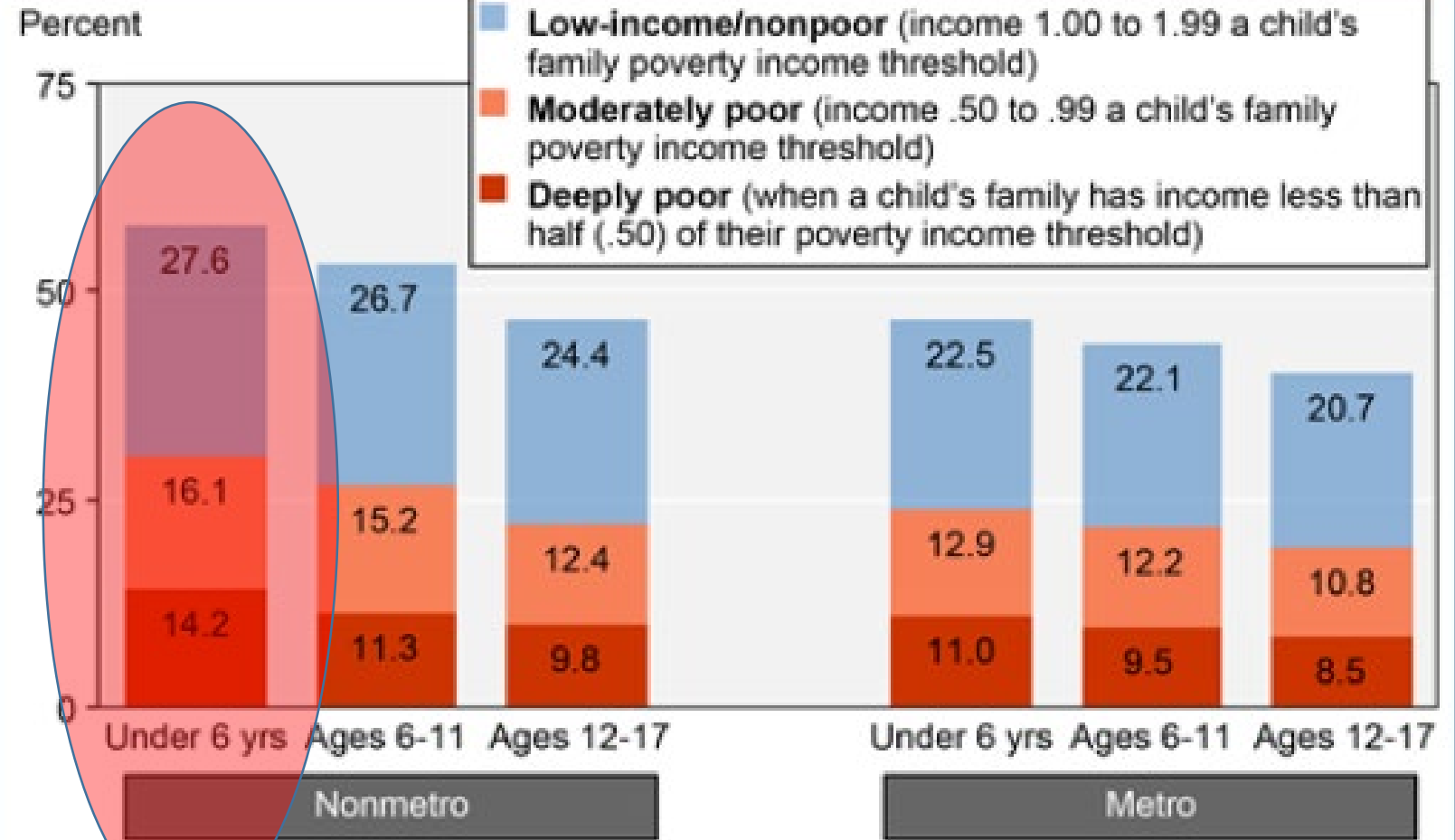- **Application in National Policy Context**

Poverty is the single greatest threat to a child's wellbeing.

- Increased social, emotional, and behavioral problems
- Poorer mental and physical health
- Difficulties learning

Young, rural children are the most vulnerable

Children by age, poverty status, and metro/nonmetro residence, 2013

Percent

Low-income/nonpoor (income 1.00 to 1.99 a child's family poverty income threshold)

Moderately poor (income .50 to .99 a child's family poverty income threshold)

Deeply poor (when a child's family has income less than half (.50) of their poverty income threshold)

Nonmetro:
- Under 6 yrs: 27.6 / 16.1 / 14.2
- Ages 6-11: 26.7 / 15.2 / 11.3
- Ages 12-17: 24.4 / 12.4 / 9.8

Metro:
- Under 6 yrs: 22.5 / 12.9 / 11.0
- Ages 6-11: 22.1 / 12.2 / 9.5
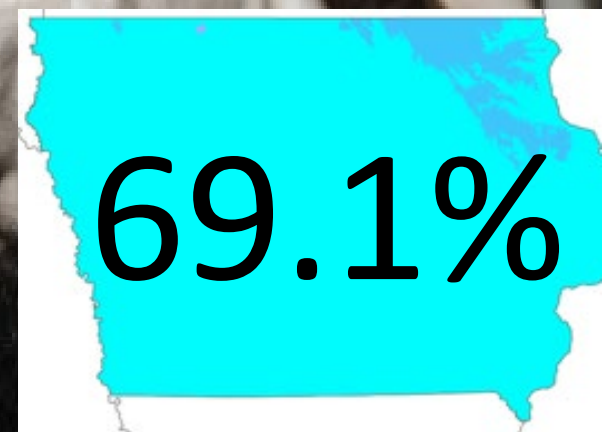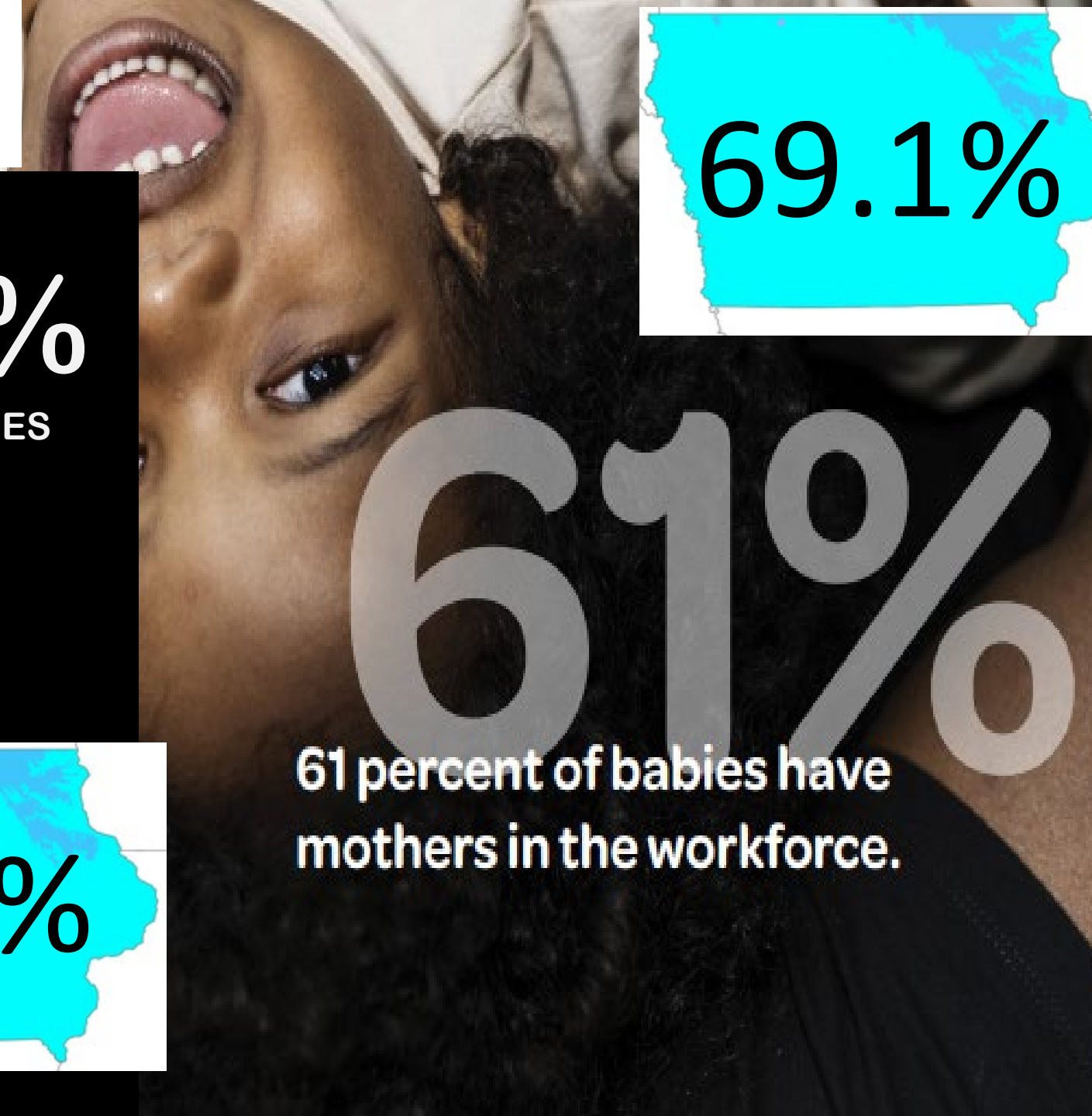- Ages 12-17: 20.7 / 10.8 / 8.5

Note: Children are defined as all persons under 18 years old. Nonmetro/metro status is based on 2013 Office of Management and Budget designations.
Source: USDA, Economic Research Service using data from U.S. Census Bureau, American Community Survey, 2013.

ZERO TO THREE
Early connections last a lifetime

Child TRENDS

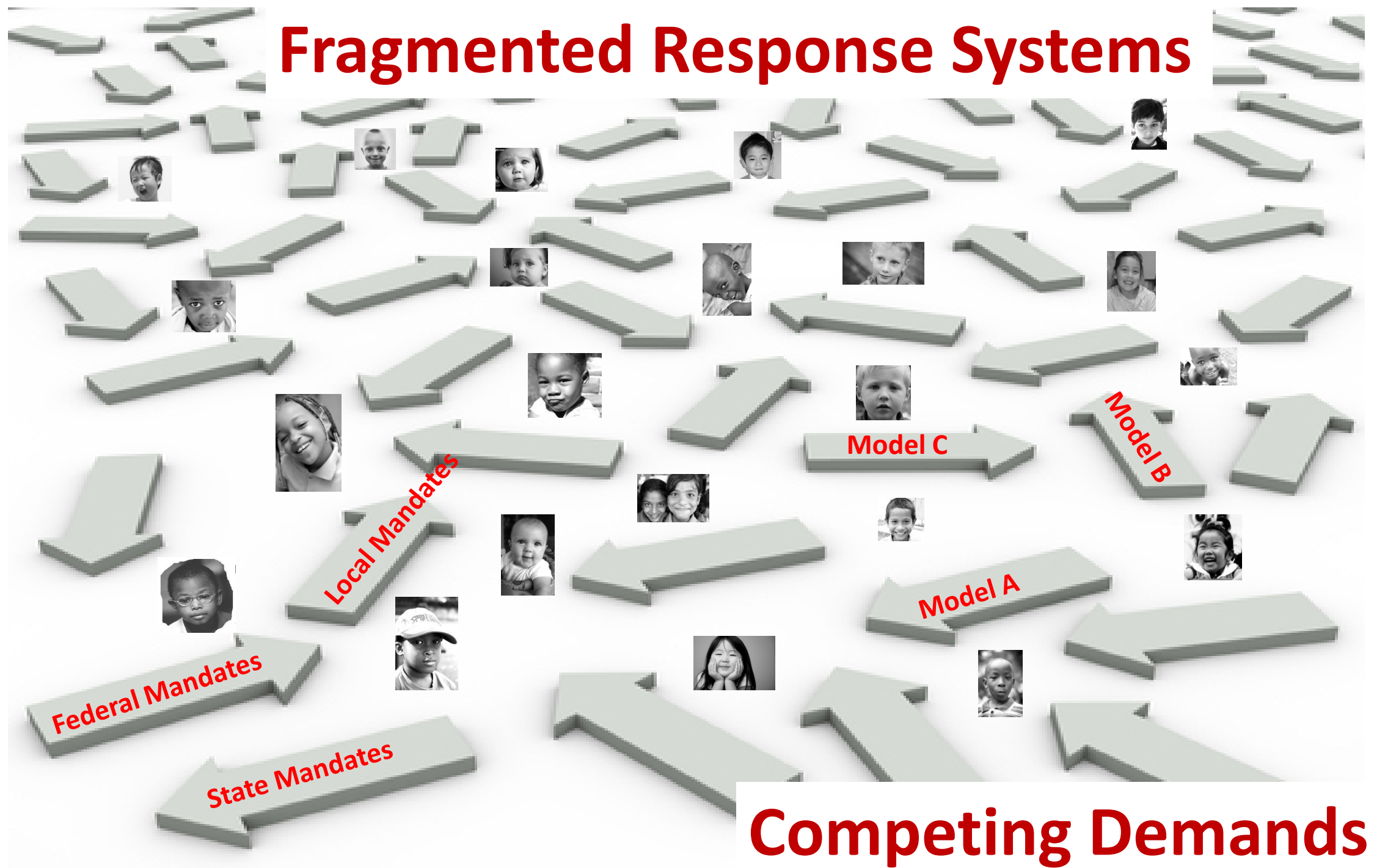69.1%

8.5%
2 or more ACES

61%
61 percent of babies have mothers in the workforce.

14.1%

Rural Challenges

- **Lower educated mothers**
- **More nonstandard work hours**
- **Less access to comprehensive service systems**

Fragmented Response Systems

Competing Demands

Federal Mandates

State Mandates

Local Mandates

Model A

Model B

Model C

Are our Pre- programs reaching vulne... children lea... our services –
What happ... AFTER children lea... our services –
We se... some families... that are eligible for ... services, but they don't
How n... we serve... access them. Why not?
we serve... progr...

Early Childhood IOWA

IOWA'S VISION:
Every child, beginning at birth, will be healthy & successful.

Desired Results:
"empower the ***creation of collaborations***
to support children 0-5 through a primary
focus on working together to improve
efficiency & effectiveness"
(Iowa Code 256i.2)

IOWA'S VISION:
Every child, beginning at birth, will be healthy & successful.

ECI Strategic Plan:

- Effective communication & coordination among multiple systems
- A systems-informed approach to policy & programming
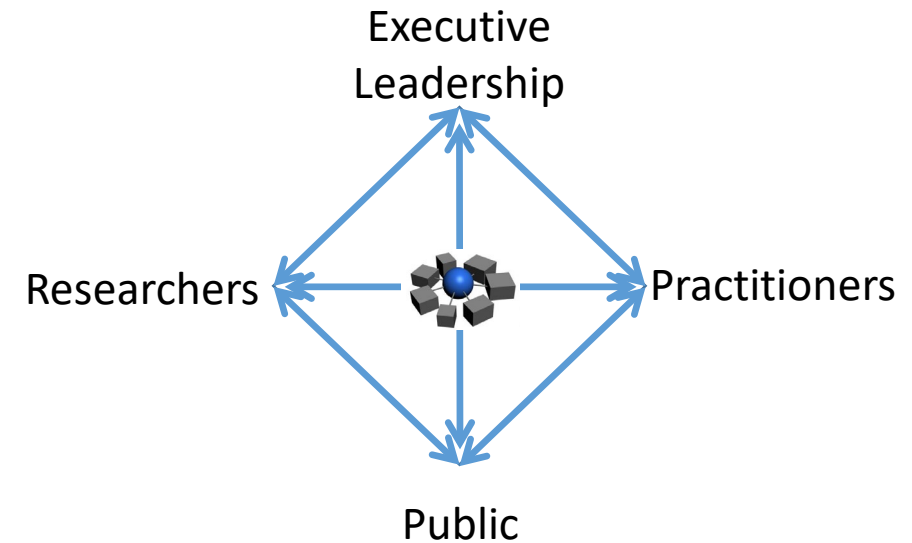- Evidence-based services that reflect good stewardship of public investments
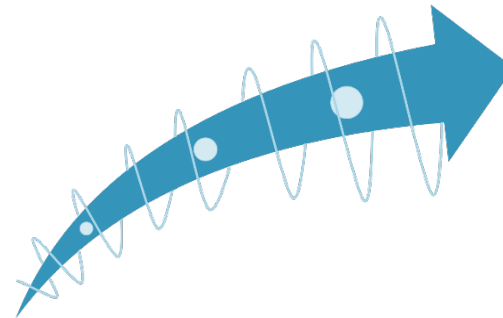
An Integrated Data System Approach
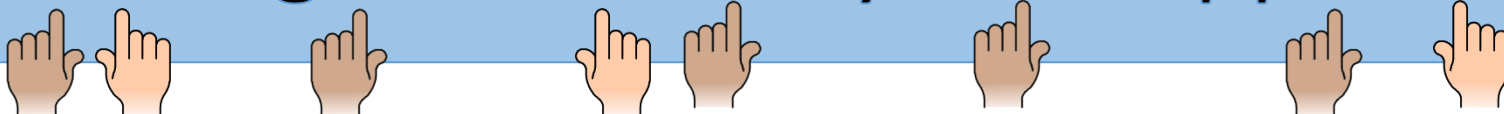
Simultaneous Development Approach:

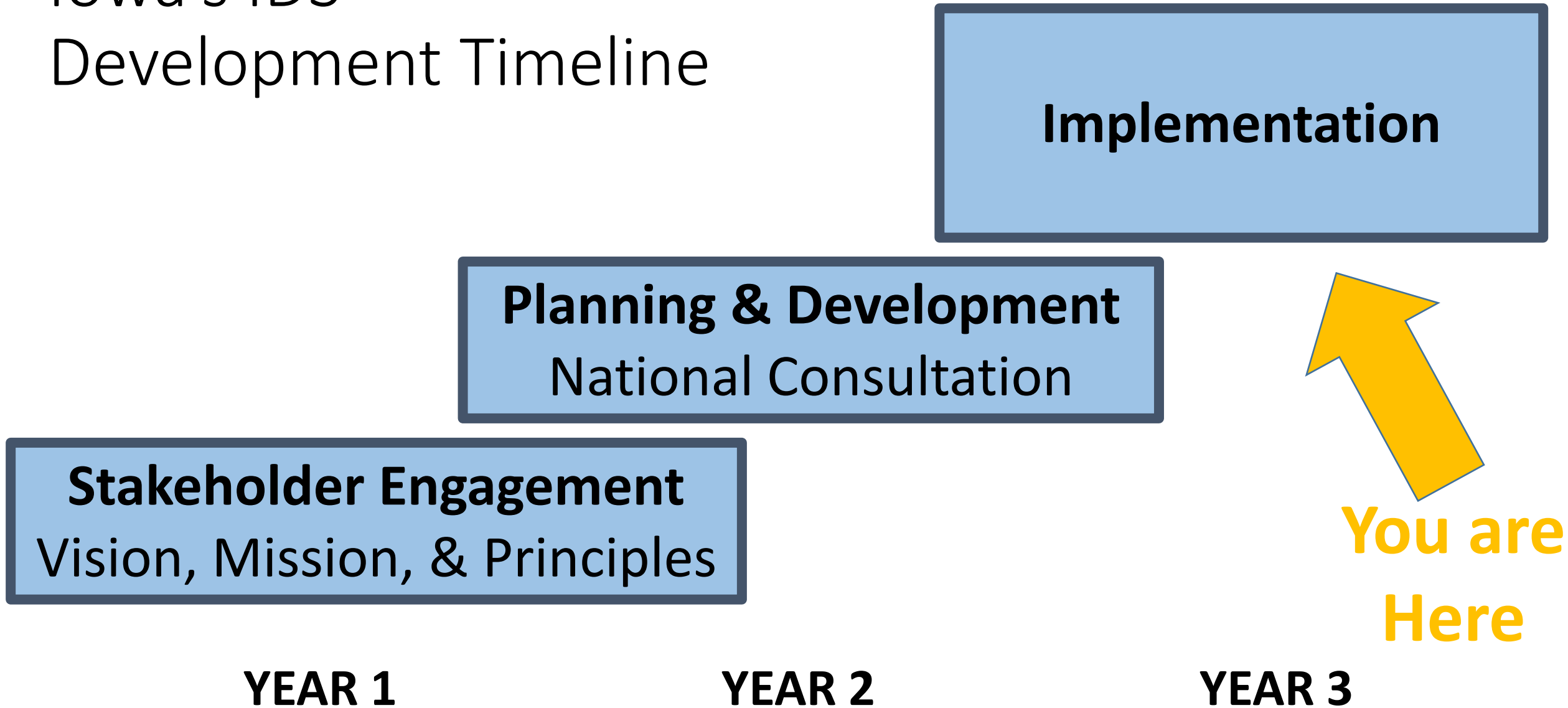IDS governance structure to ensure ETHICAL USE

- State maintains control

- High standards for PRIVACY & SCIENCE

- Strategic communication and participation
to ensure analytics are USED to meet ECI mission

Executive
Leadership

Researchers   Practitioners

Public

Demonstration(s) of IDS Capacity

Iowa's IDS Development Timeline

Implementation

Planning & Development
National Consultation

Stakeholder Engagement
Vision, Mission, & Principles

You are Here

YEAR 1   **YEAR 2**   **YEAR 3**

State-University Partnership Model

- State maintains control of the "use" of data

- University staffs the infrastructure with a flexible capacity to expand or contract depending on IDS project demands

- Capitalizes on ISU's land-grant mission and expertise in data management, analytics, security

- Neutral "3rd Party" approach for data integration that meets federal and state legal requirements

- Political & economic sustainability

Prioritized Data Systems

*

Department of Public Health:
Vital Records (Birth/death/marriage)
Infant Screening System
Home Visiting (DAISEY)
Lead Registry
Maternal/Child Health (TavHEALTH)

Department of Human Services:
Child Care Subsidies
Child Welfare
Child Support Recovery
Income Maintenance/Eligibility
SNAP
TANF
FaDSS (2 Gen program)

Department of Education:
Prek-12 (enroll, achieve, attend)
Preschool assessment
Special Education (IDEA A, B, & C)
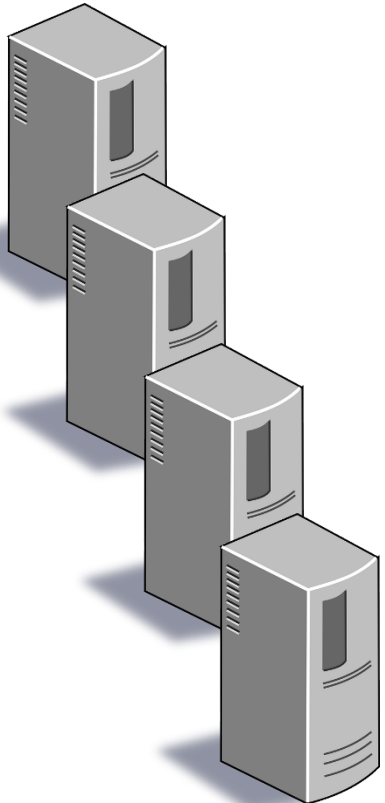
Phase I Incorporation

Department of Public Health:

Vital Records (Birth/death/marriage)

Infant Screening System

Home Visiting (DAISEY)

Lead Registry

Maternal/Child Health (TavHEALTH)

Department of Human Services:

Child Care Subsidies

Child Welfare

Child Support Recovery

Income Maintenance/Eligibility
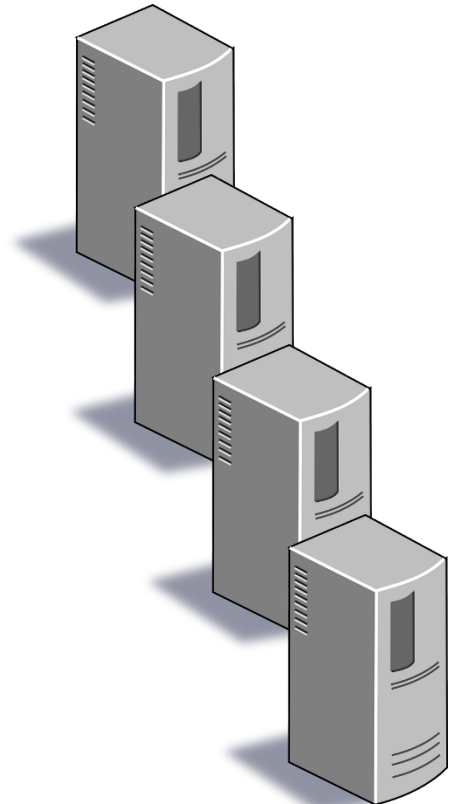
SNAP

TANF

FaDSS (2 Gen program)

Department of Education:

Prek-12 (enroll, achieve, attend)

Preschool assessment
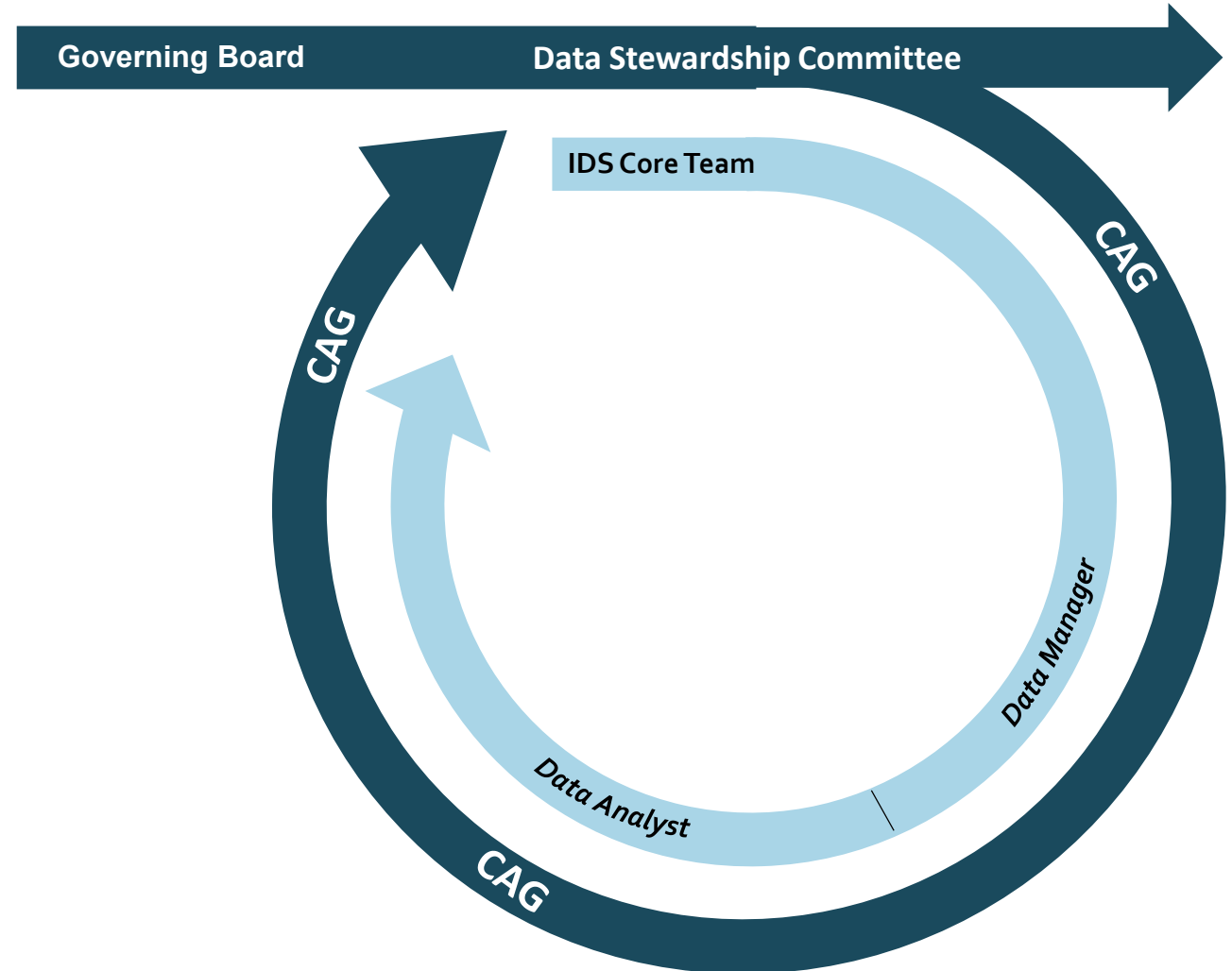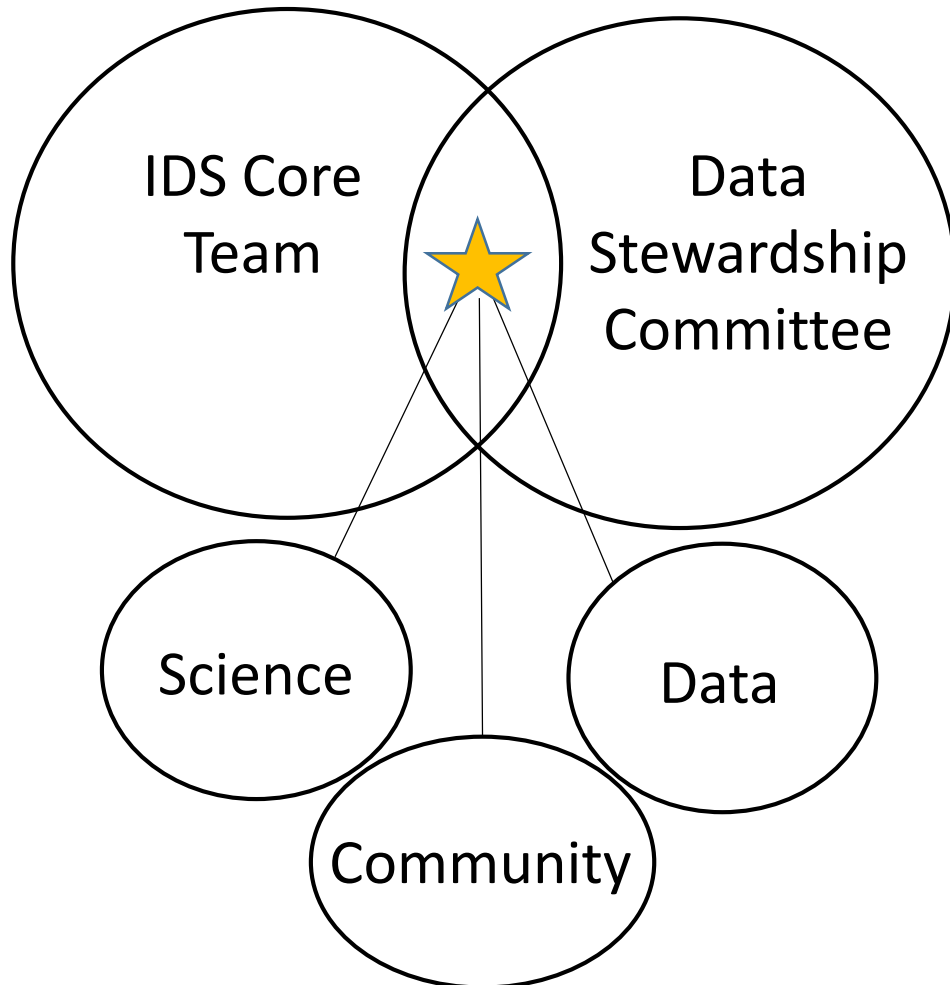
Special Education (IDEA A, B, & C)

*Head Start

IDS

IDS Governance: People & Processes

IDS Governance: People & Processes

Governing Board   "Executive Leadership"

IDS Core Team

Data Stewardship Committee

Science

Data

Community

Governing Board   Data Stewardship Committee

IDS Core Team

CAG

CAG

Data Manager

Data Analyst

CAG

Iowa's Preschool
Development Grant

"IDS Demonstration"

Policy-Driven IDS Analytic Questions:

- Who are the children participating in our programs, and how do these **characteristics** differ for children NOT participating?

- What are the **unduplicated counts** of children across B-5 programs?

- Who are our **underserved populations**, including those vulnerable children who are eligible but are not participating in our programs and children living in rural areas?

- How does program participation relate to **kindergarten outcomes** including literacy, attendance, and behavior?

- Where are the **gaps in quality services** for vulnerable and underserved children?

Step 1: Baseline Characteristics

Department of Education:
Child demographics (age, gender, race/eth)
Free/reduced price lunch status
ELL status
Kindergarten enrollment (location & dates)
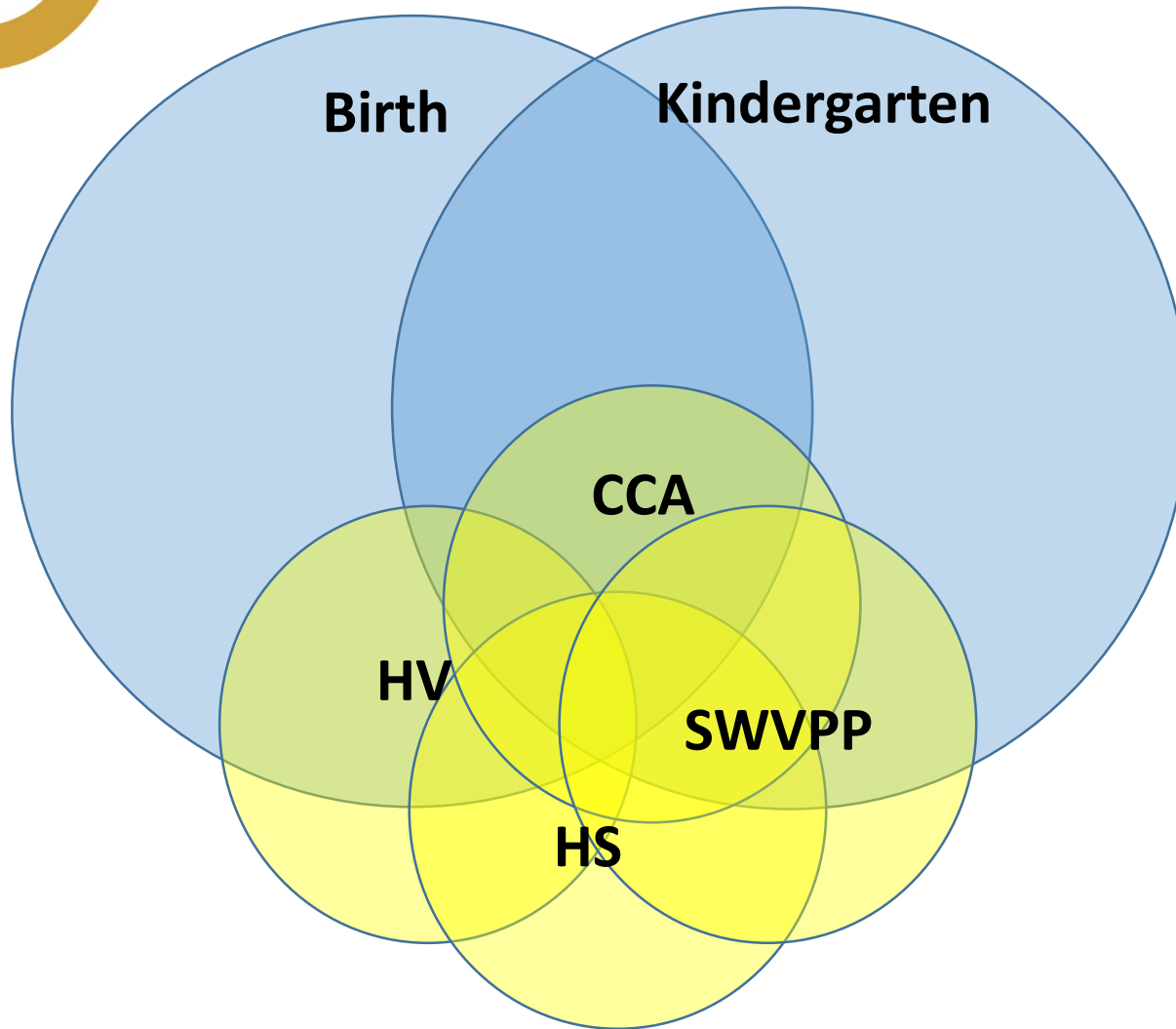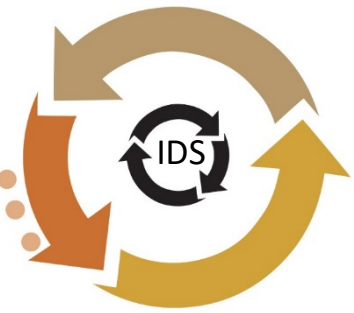Kindergarten attendance rate
Kindergarten literacy assessment

IDPH Birth Records:
Child demographics (gender, race, birth order)
Low birthweight
Preterm birth
Inadequate prenatal care
Low maternal education (<12y)
Birth to teen mother
Birth to single mother
Poverty

Step 2: Enrollment Patterns

State-funded Education
Universal Pre-K program
Targeted low-income Pre-K program
IDEA Parts B & C

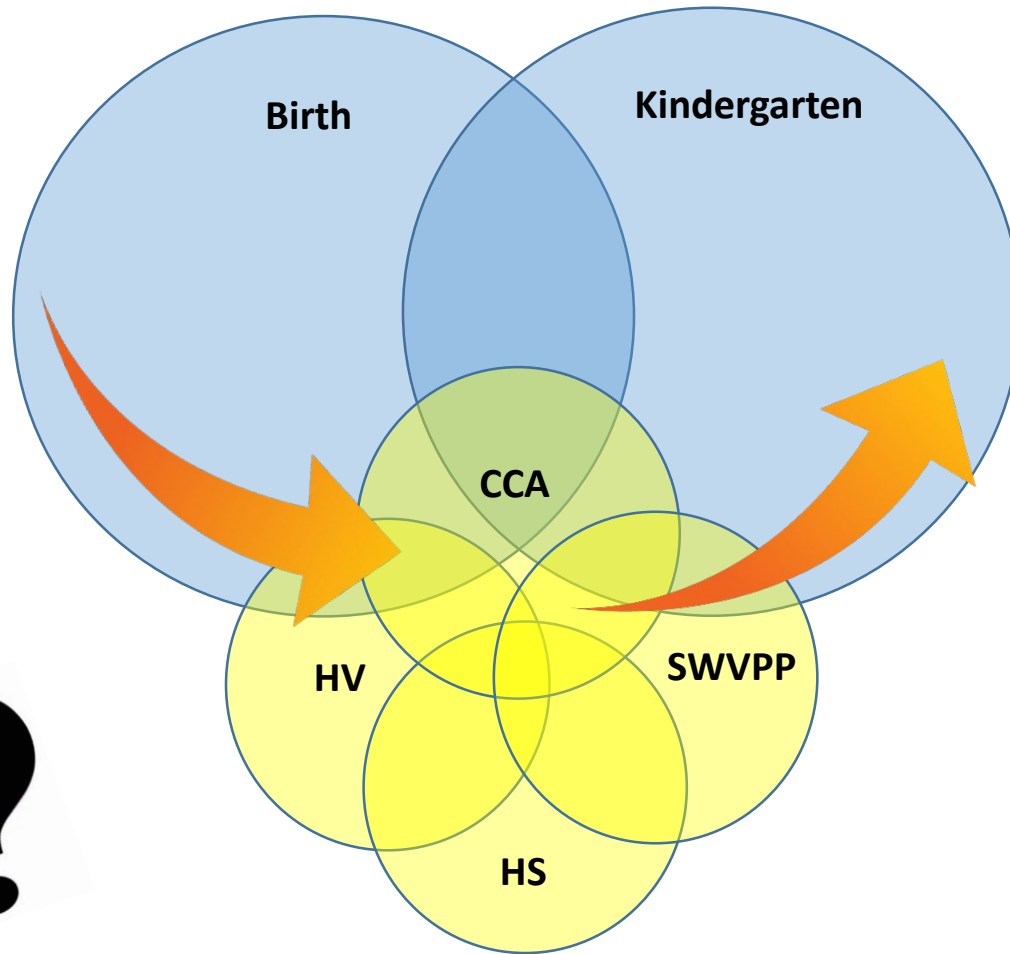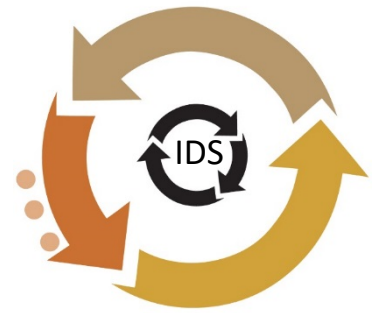**Early Head Start/Head Start:**
Enrollment

Child Care Subsidy:
Eligibility & receipt

Home Visiting
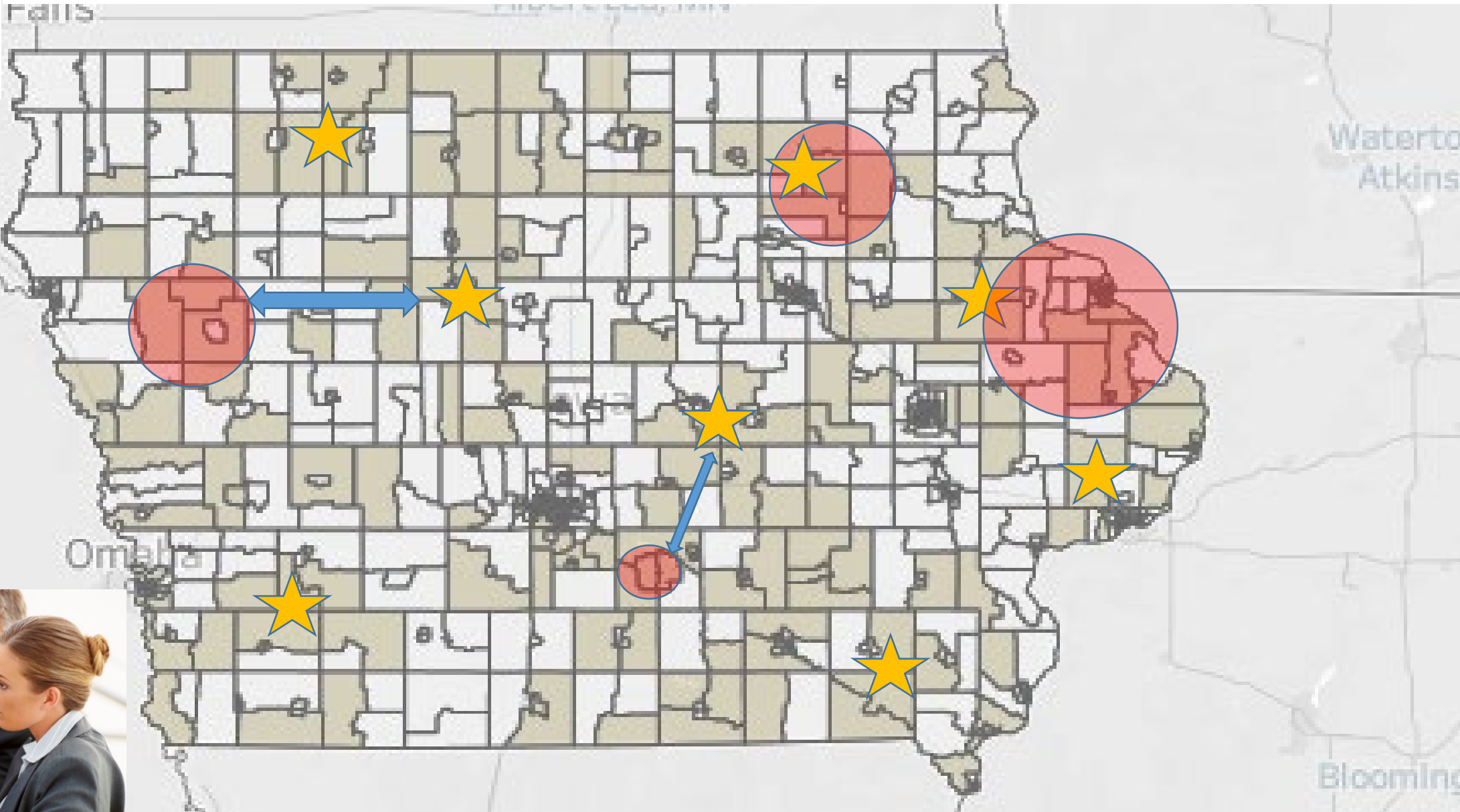Enrollment, duration, type

Step 3: Gaps Analysis

Birth

Kindergarten

CCA

HV

SWVPP

HS

Who are we missing?

Transitions between programs?

Outcomes?

Program quality?

Risk Patterns?

Step 4: Strategic Planning

BUILD IT,
USE IT,
IMPROVE IT

Reaching our Target

✓ Foster ***SUSTAINABILITY through partnerships***

✓ Support ***national network of IDS*** focused in early childhood – partnership approach to PDG renewal

✓ Build ***relevant indicators*** that can be replicated, shared, & monitored nationally

Thank You

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Early Childhood IOWA

Integrated Data System (IDS) Taskforce: Jeff Anderson (DOM), Tammi Christ (DHS), Kelly Davydov (DHR), Cassandra Dorius (ISU), Marion Kresse (BooST, ECI-RA co-chair), Ryan Page (DHS), Tom Rendon (DOE), Betsy Richey (DPH), Heather Rouse (ISU), Amanda Winslow (DOE/DOM)