

# South Carolina's Child Care Data Bridge

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Building a Data Infrastructure to  
Support Child Care Policy

Presentation to the Annual Meeting of the Child Care  
Policy Research Consortium (CCPRC) – July 2008

## South Carolina's Team Presenters

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- Leigh Bolick, S.C. Dept. of Social Services
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*The Vision .....*

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Integration  
with Common Identifiers is the key

Systems must be integrated & share  
information

Reduce the burden and repetition in the  
collection of information

Locate discrepancies in information

Alert staff to critical key information quickly

## *Opportunity knocks .....*

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Child Care Research Capacity Grant  
provided an opportunity to increase  
resources & move at a faster pace

- Vision – Create web-based tools that access information from your PC
  - Build upon the work at ORS with the integrated data warehouse and cubes
  - BUT, before we do that – need a strong foundation
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## *Working together .....*

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Objective: Stay focused on goal of building data capacity, using project's research question as guide:

*What is the impact of CCDF on improving the quality of care available to and utilized by low-income working parents and at-risk families to support parental outcomes and child well-being?*

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## 1. Make the questions manageable & measurable

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*What is the relationship between CCDF quality enhancement funds/initiatives and the quality of care in ABC centers?*

Dependent variables – quality of care

Performance level of center from ERS = AA, A, BB, B, C  
Incremental score on ERS  
Level of personnel professional development  
Personnel turnover

Independent variables – CCDF funds/initiatives

Professional Development  
Technical Assistance  
New awards/bonuses in ABC Program

*SC's Other question: Does the percentage of ABC voucher children in centers of higher levels of quality increase as the number of higher quality centers increases?*

Dependent variable

% of ABC children in each ABC level

Independent variable

Performance level of center = AA, A, BB, B, C

## 2. Inventory databases

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- What do we have?
  - What do we need?
  - To link databases, are there missing fields?
  - How do we align/crosswalk fields?
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### Have

Regulatory

### Need

ABC – building enhancements

ABC Client/Child – upgraded

TA – being built

TEACH – upgraded

Higher Ed – built

PITC – being built

### Missing fields

FEIN, SSN

### Align

Education level of caregivers

## Databases: actual, partial, build

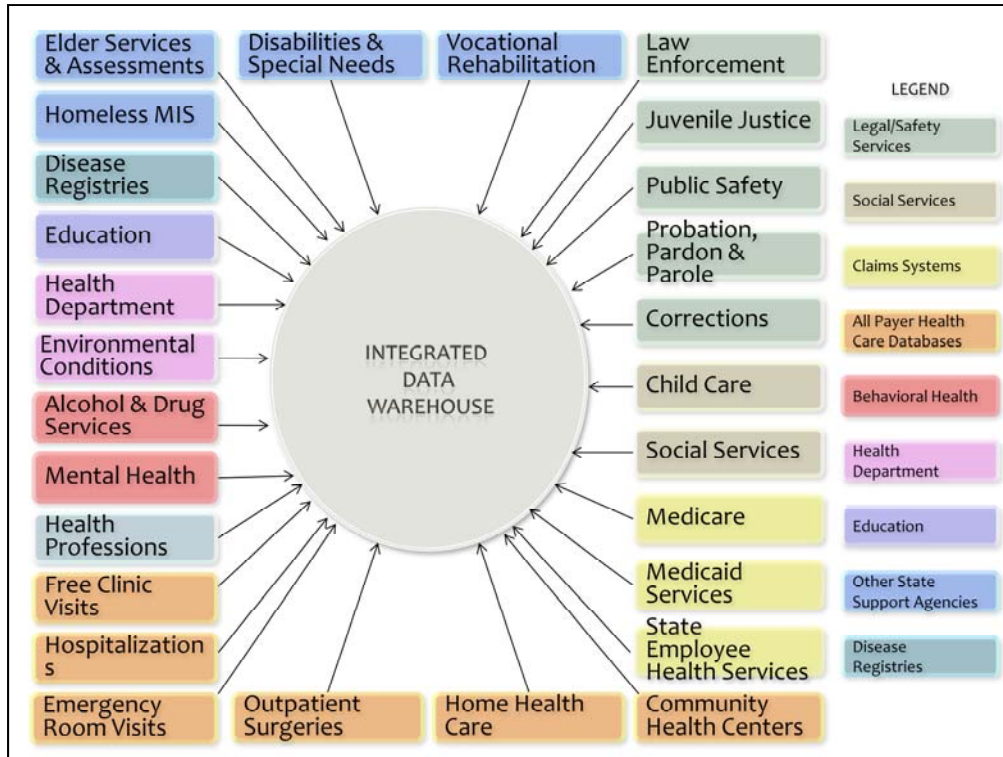
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- State-regulated centers/providers
  - ABC centers/providers
  - ABC Voucher/client-child
  - Professional development  
TEACH & other CCDF funded higher education  
Program for Infant/Toddler Care (PITC)
  - Technical assistance (registry and reporting)
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# BUILDING TOOLS ON THAT FOUNDATION





## SC's Integrated System

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- Built using existing systems (legacy systems from state agencies and private sector)
  - Create a Unique Tracking Number (not related to any other number)
  - Identifiers are separated from the statistical data. Use only the statistical data
  - Data always "owned" by the originating agency. Must have permissions to use and/or link any data
  - Employ HIPPA Best practices and have extensive security measures.
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## Linking Data Sets

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- Records are linked for the same individual using a unique tracking number
  - Tracking number is random so cannot be unencrypted to identify the individual
  - An individual is assigned the same number over time
  - Rigorous security standards in place: policies, firewalls
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## Putting Data Into the Hands of the Users

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Evaluation of interventions and programs  
by:

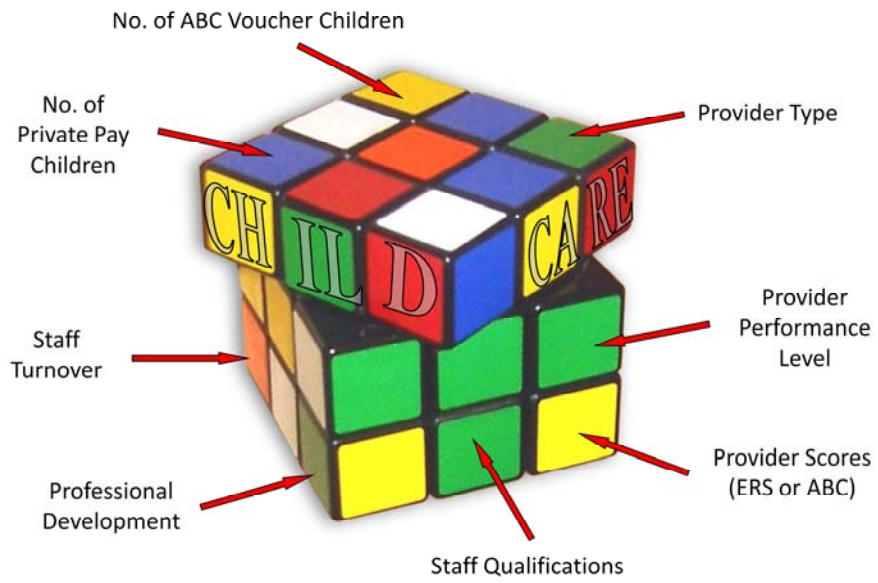
- Understanding interaction with other programs and providers
  - Analyzing aggregate data
  - Accessing analytic data cubes
  - Managing client care
  - Creating a research capacity
  - Assessing outcomes
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## What Is an Analytic Cube?

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- ❑ Secure Web-based system that allows users to access large databases from their desks
  - ❑ A way to “slice and dice” through large amounts of data
  - ❑ Define “slicers,” characteristics that are important to analyzing the subject population
  - ❑ Pre-aggregate the linked data by all possible combinations of “slicers”
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## South Carolina's Proposed Child Care Provider Cube



## Proposed Cubes for Child Care Services

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- Cubes based on Provider Data
  - Licensing
  - ABC Quality Reviews
  - Information on ABC Voucher Providers
- Cubes based on Child Level Data
  - With agency permissions, use the Integrated Data Warehouse
  - ABC Voucher children, DSS TANF & Food Stamp children, Medicaid
  - Mental Health, Disabilities, & other issues
  - Eventually, would like to link to Education



## Explore a bridge from Providers to Child

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- Vision again!

- In a test environment, explore development of a bridge from the provider to all children served by provider

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