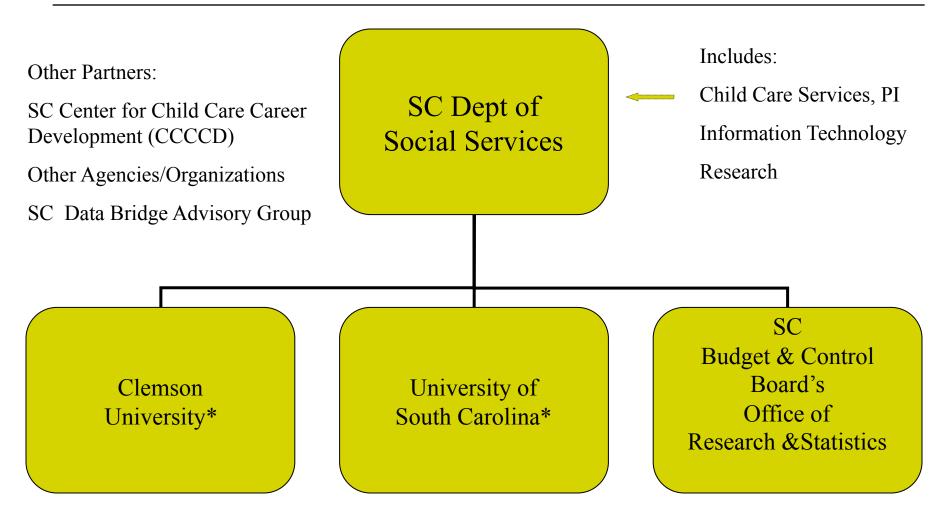
South Carolina's Child Care Data Bridge Project

Building Bridges from Data to Policy to Practice

2009 Annual Meeting of the Child Care Policy Research Consortium. October 2009

South Carolina's Partnerships



^{*}While Clemson and USC represent the primary research community in the Data Bridge Grant, other entities will participate as appropriate.

Our goals and vision:

Create either new or improved databases w/ the goal to either link to and/or integrate these child care databases and where appropriate integrate with the State's data warehouse

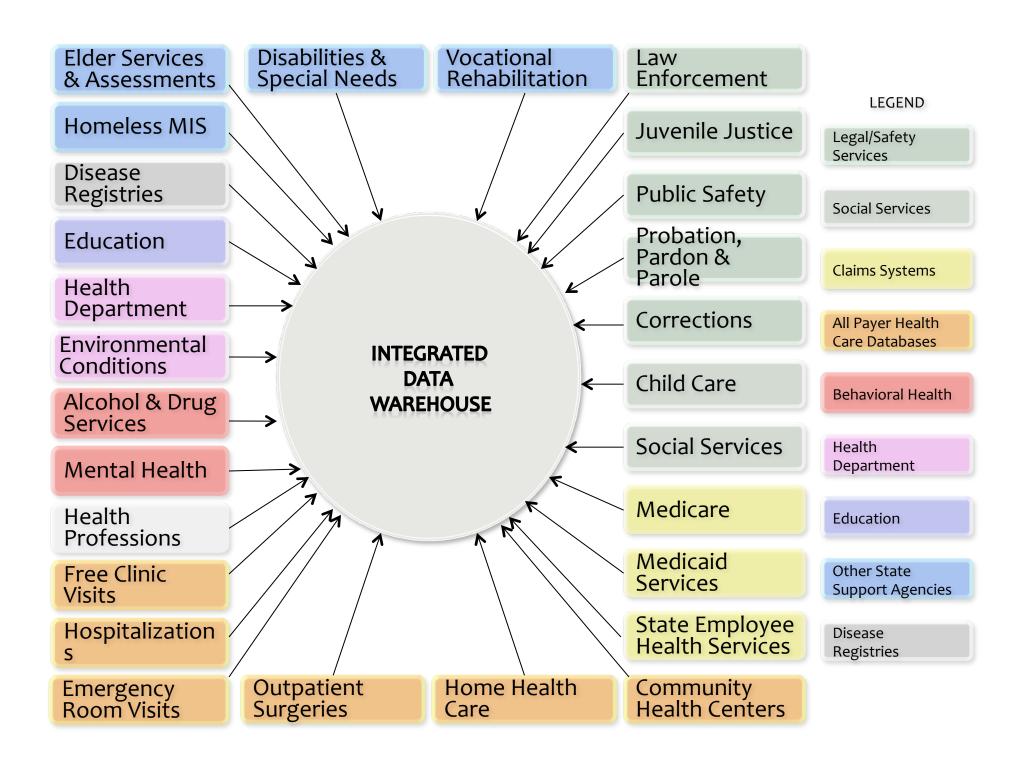
- Create web-based tools that access information from your PC
 Putting the data into desk-top tools to be accessed by many including: program, quality assurance, researchers and policymakers
- We wanted an **integrated** data infrastructure
 For Integration/ linking common identifiers are the key
 To be able to <u>link to outcomes</u>
- Build upon the work at the SC Budget & Control Board's Office of Research & Statistics with the state's integrated data warehouse and cubes (enhance a strategic partnership)
- Build upon our current strategic partnerships and develop new partnerships particularly in our **research community**

This investment in our data infrastructure will help provide better quality information and more integrated information for the development of services and policy.

Child Care related databases in SC

- State-regulated centers/providers (<u>licensing provider system</u>)
 Built internally by DSS IT staff
- ABC centers/providers (<u>quality</u> provider system)
 Built by SC Budget and Control Board, ORS staff
- ABC Voucher/client-child (<u>subsidy</u> system)

 Parts under development by DSS IT staff
- Professional development
 TEACH & other CCDF funded higher education
 Program for Infant/Toddler Care (PITC)
- Technical assistance (registry and reporting)Built by CCCCD



Linking helps us "Bridge" to Outcomes



Child outcomes

How do our subsidy children perform in school?

Connect from providers to child to outcomes

How do our subsidy children in different types of providers perform in school?

Examine policies

What happens to our providers?

Improvement in quality scores? Increases in what types of deficiencies? Are providers improving their quality?

Relationships of quality in providers eventually to child outcomes

Do our subsidy children on higher quality providers perform better in school?

As we provide bonus awards to improve quality in providers, will this translate to better child outcomes?

Linking "Bridges" the Gap for the "Who, What, Where"

Provides descriptive information critical for <u>operational</u> purposes and <u>research</u>

- > Characteristics of the children that we serve?
- > Who are the providers serving?
- > Are there differences by type of provider? By quality of the provider?
- > Where are these providers? Where are the better quality providers?
- > Where are our gaps in providers & by provider type?

Who?

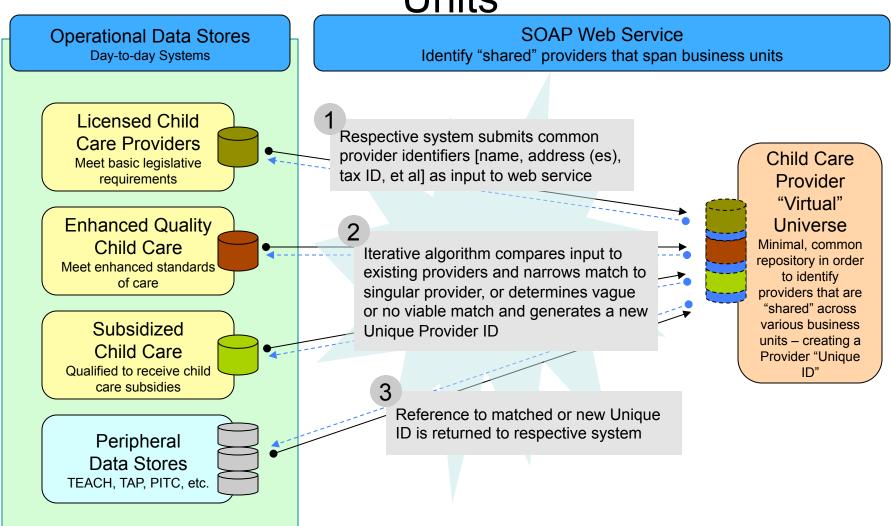
What?

Where?

2 Linking Methodologies: Provider & Child

- At the <u>Provider Level</u>
 - An existing methodology was not available
 - Childcare Licensing
 - > ABC Quality Provider
 - > ABC Voucher
 - Other Provider databases / linkages (to be developed)
- DSS IT developed the methodology for linking providers
- Methodology had to span across <u>two</u> organizations
 - DSS (for Licensing and ABC Voucher)
 - > ORS (for ABC Quality)
 - > Web-based application

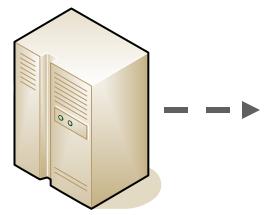
Identifying Unique Child Care Providers across Disparate Systems and Business Units



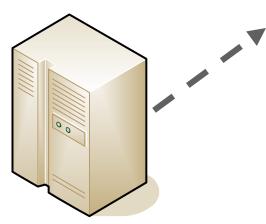
Linking at the Child (Person) level

The SC Data Bridge project is tapping into an existing methodology that resides with our partner SC Budget and Control Board's ORS

How does linking clients work?



Client in ABC Vouchers

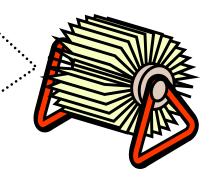


Client in Other Data System(s) housed at ORS

The respective agency systems housed at ORS submit identifiers for their clients as well as the service information.

A series of algorithms using various combinations of personal identifiers is used to create ORS's Unique ID. Giving ORS the ability to "link across" multiple providers and settings. This allows for linkages while protecting confidentiality of the client.

Data is always "owned" by the originating agencies and permission must be granted to use the data.

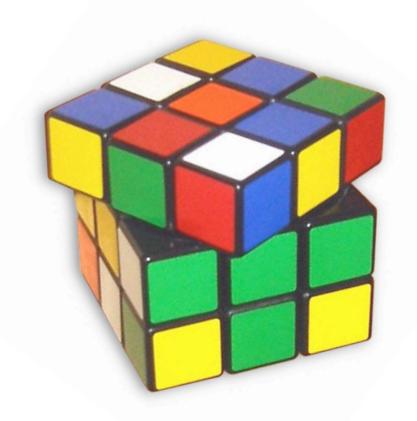


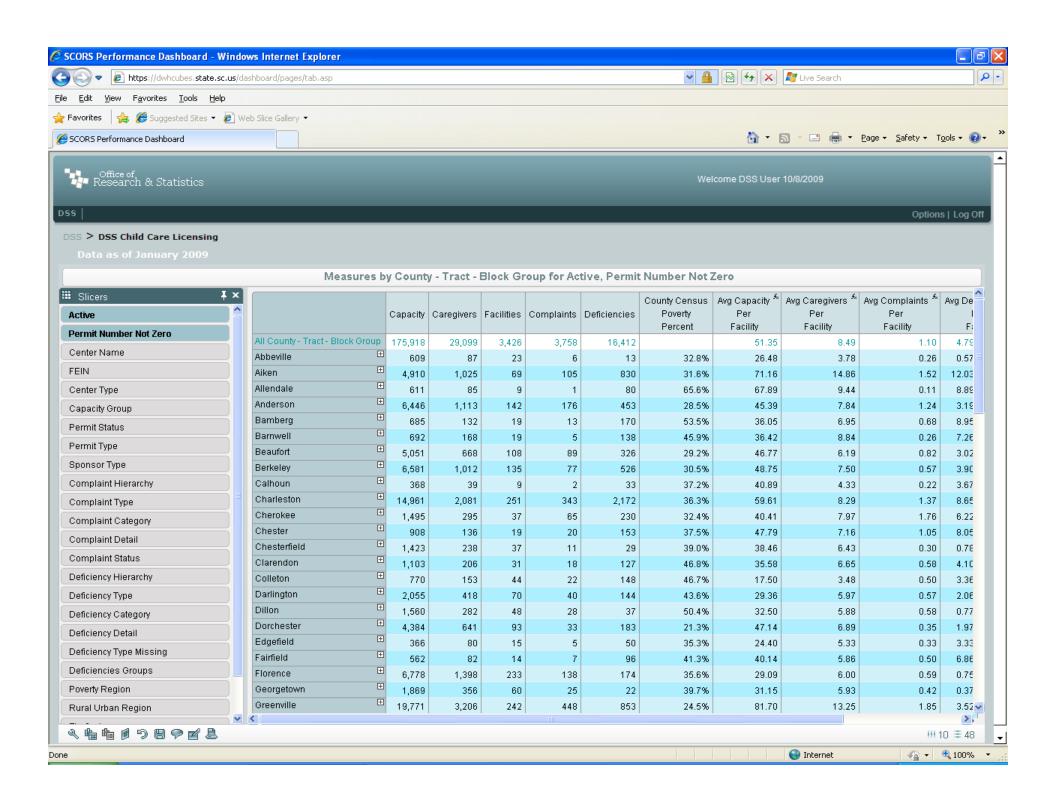
ORS Client Index

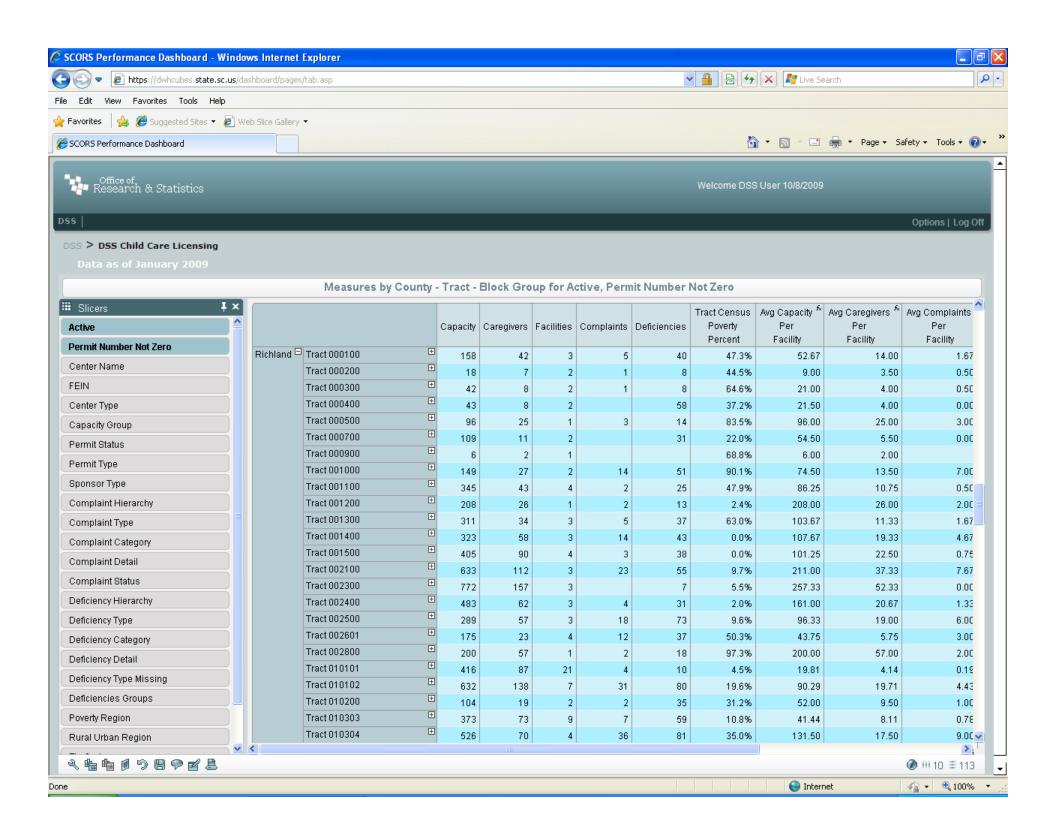
Building Cubes: Desk-top Web-based Applications

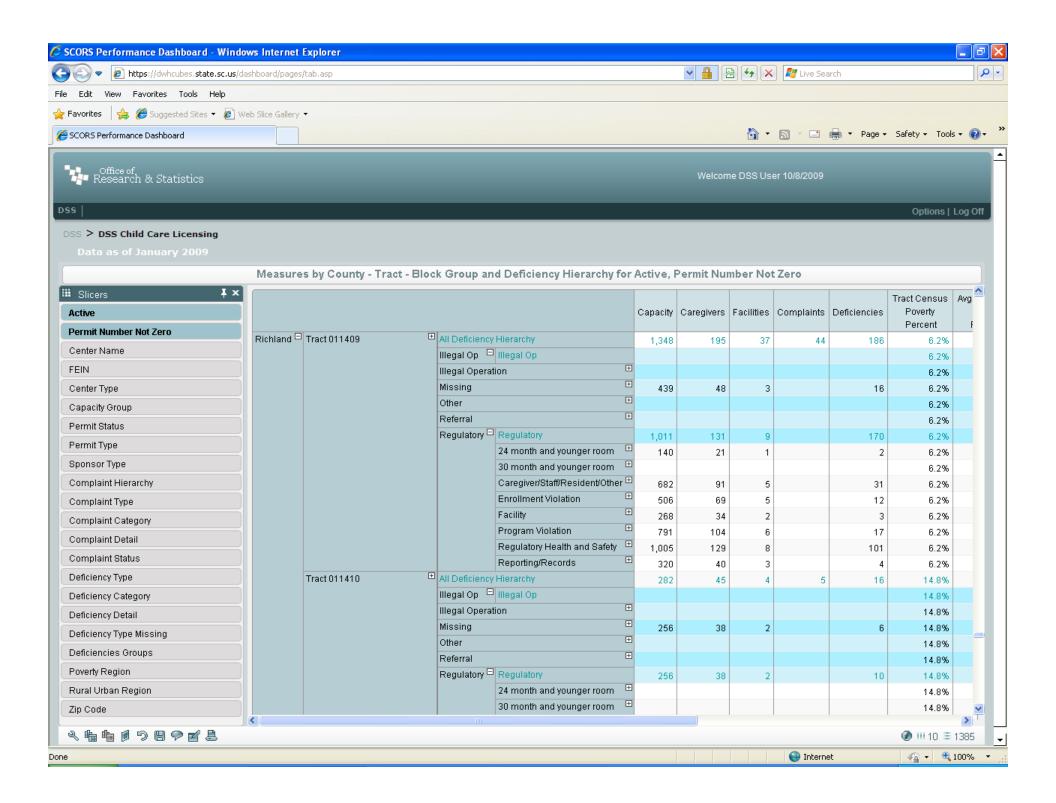
What Is an Analytic Cube?

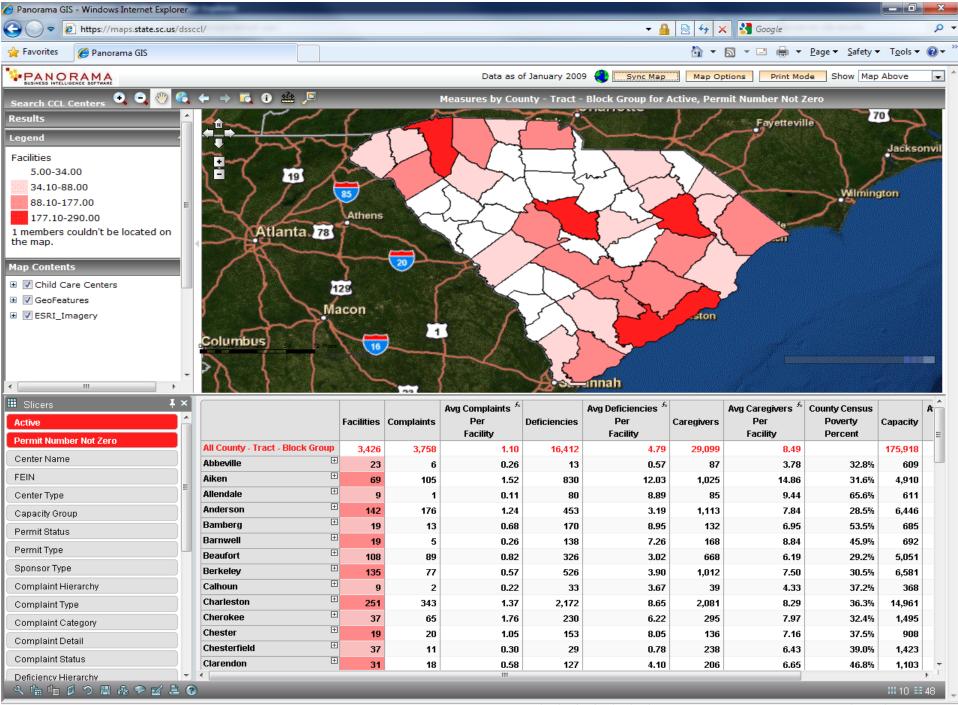
- ➤ Secure Web-based system
- A way to "slice & dice" lots of data
- ➤ Define "slicers" or characteristics
- Pre-aggregate the linked data
- ➤ Developed a prelim
 Provider Licensing Cube

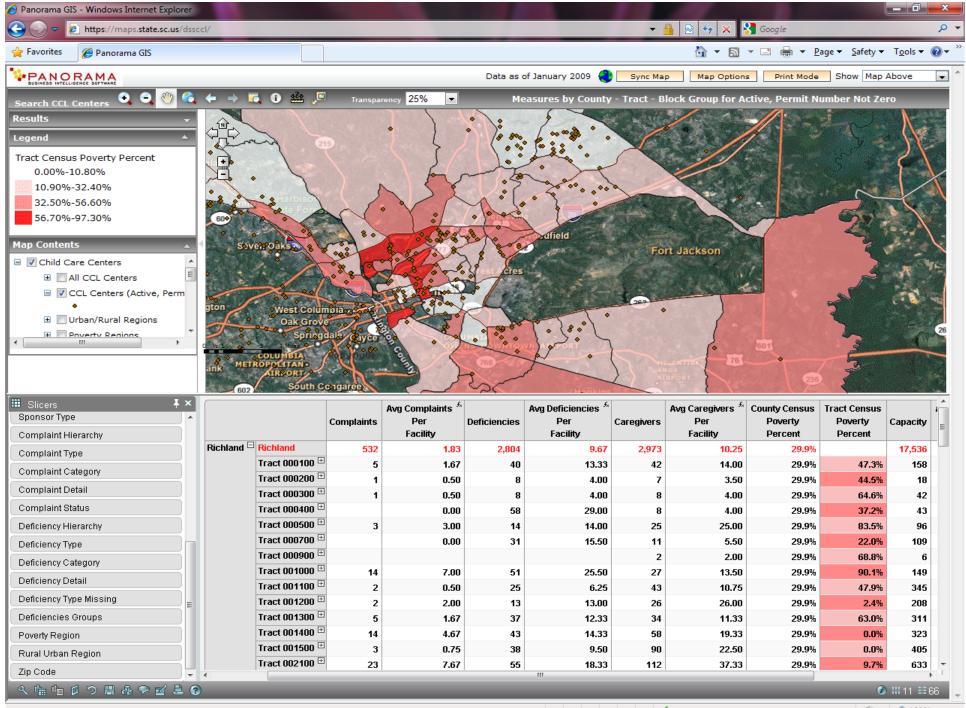


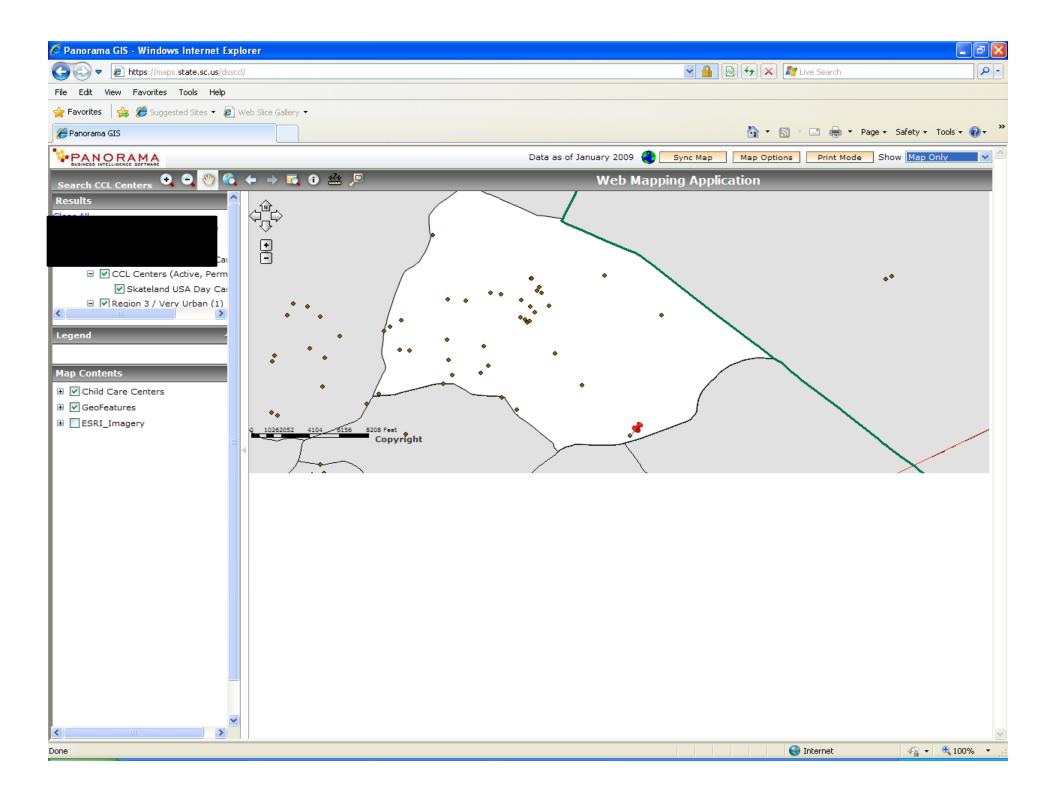


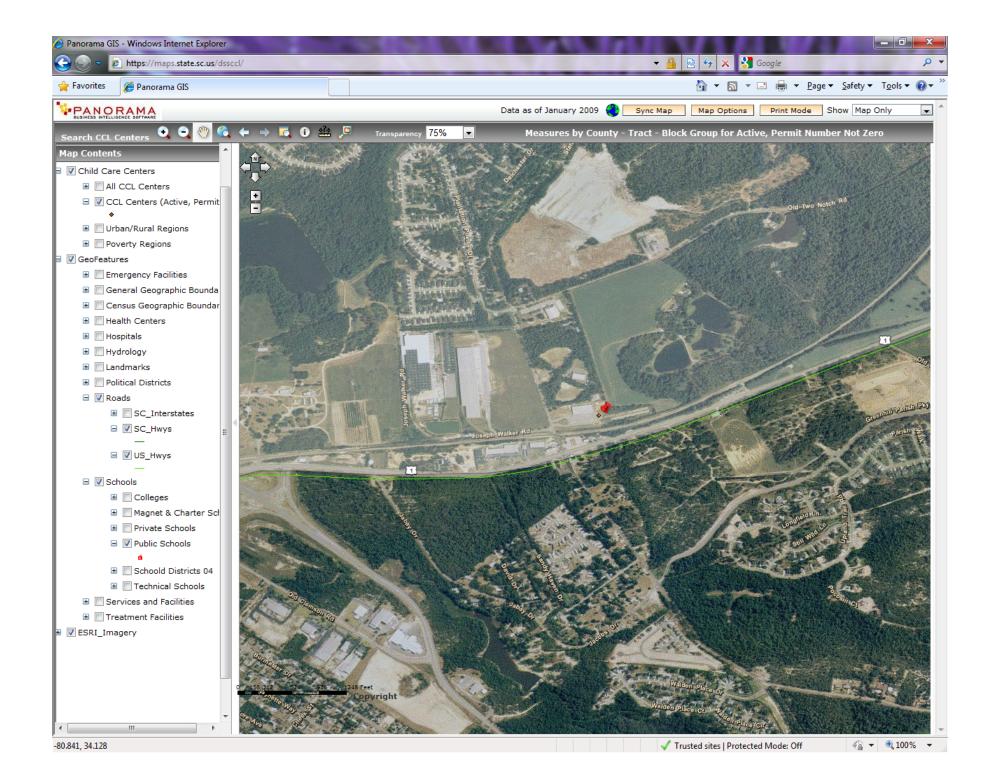












Proposed Cubes for Child Care Services

Cubes based on Provider Data

Licensing ← Draft cube now available & in review

ABC Quality Reviews ← Working on slicers for a joint cube w/ Licensing

Information on ABC Voucher Providers

Cubes based on Child Level Data

With agency permissions, use the Integrated Data Warehouse

Begin with ABC Voucher children, DSS TANF & Food Stamp children, Medicaid

Have drafted some initial slicers using DSS databases (some Medicaid slicers)

Need to receive permission from SC Dept of Health & Human Services (SC's Medicaid agency)

Eventually want to add slicers (if approved by the agency) from:

Mental Health, Disabilities, & other agencies

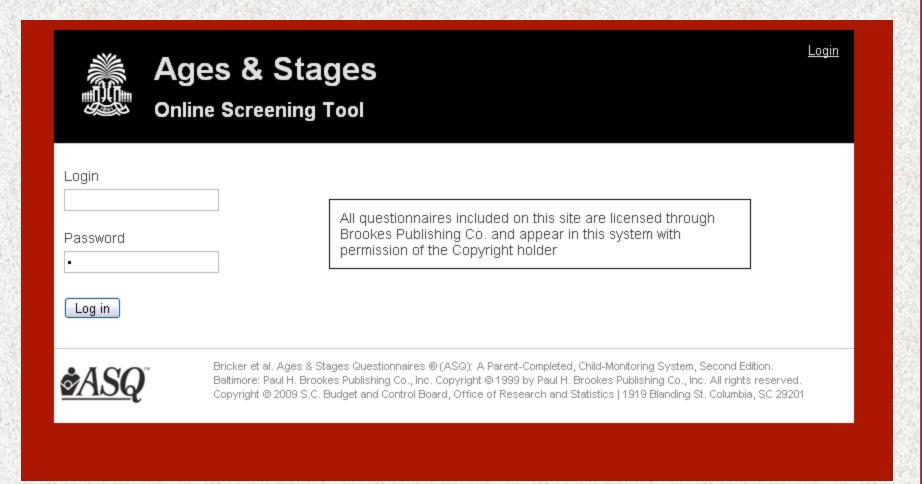
SC Dept of Education



SC Pilot of the Ages & Stages Questionnaire Online

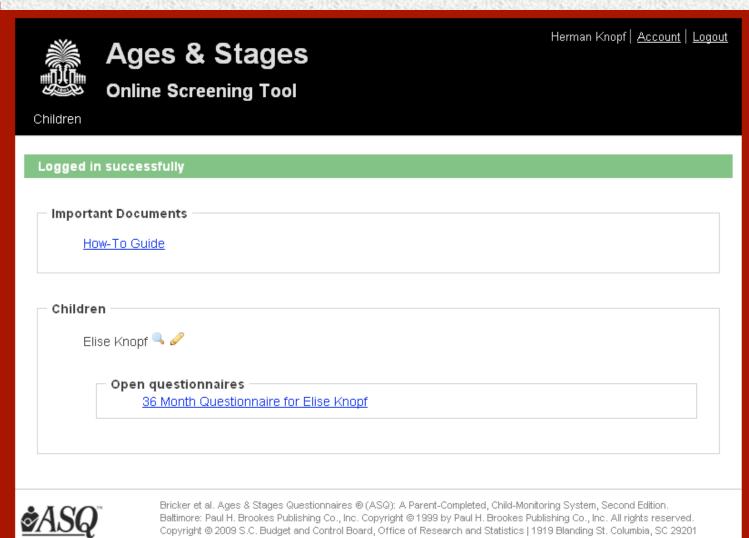


ASQ Login





Parent Dashboard







Ages & Stages

Online Screening Tool

Children

Elise Knopf 🥒

Personal Information SSN Date of Birth 05/23/2006

Born Premature? No

Adjusted Age 40 Months Old

Place of Birth

Demographics

Race	White
Gender	Female
Ethnicity	Not Hispanic or Latino

Center & School District Info

Center	USC Children's Center
School District	Lexington 05

Questionnaires

Mine

New Questionnaire

36 Month

Other Users <u>Rebecca</u>
<u>Horsey - 36 Month</u>

Herman Knopf - 42 Month



36 Month Questionnaire

COMMUNICATION	Yes	Sometimes	Not Yet	
When you ask her to point to her nose, eyes, hair, feet, ears, and so forth, does your child correctly point to at least <i>seven</i> body parts? (She can point to parts of herself, you, or a doll.)	0	0	0	
Does your child make sentences that are three or four words long?	0	0	0	
Please give an example:				
3. Without giving him help by pointing or using gestures, ask your child to "Put the shoe <i>on</i> the table" and "Put the book <i>under</i> the chair." Does your child carry out both of these directions correctly?	0	0	0	
4. When looking at a picture book, does your child tell you what is happening or what action is taking place in the picture? (For example, "Barking," "Running," "Eating," and "Crying") You may ask, "What is the dog (or boy) doing?"	0	0	0	

36 Month Questionnaire

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Classrooms | Students

Fine Motor

Name	Elise k	Knopf			SSN							
Date of Birth	05/23/	/2006			Born Pı	ematu	re?	No				
Telephone	Not pr	ovided			Relatio	nship t	o child	: <u>Tea</u>	cher			
Mailing Address					City Sta	te, Zip		_				
Date finalized	Septe	mber 2	3, 2009	09:15	Assiste	d by						
Administered at:	USC C	hildren	ı's Cent	er								
VERALL:												
Do you think your ch	ild hears	well?			<u>Yes</u>							
Do you think your child talks like other children her age?				Yes								
Can you understand	most of	what yo	our chi	ld says	? <u>Yes</u>							
Do you think your ch like other children h		, runs,	and cli	imbs	Yes							
Does either parent h childhood deafness					<u>No</u>							
Do you have any cor vision?	cerns ab	out yo	ur chile	d's	<u>No</u>							
Has your child had a last several months'		al prob	lems ii	n the	<u>No</u>							
Does anything about	your chi	ld wor	ry you?	•	<u>No</u>							
CORING: (hide cutoff:	scores)											
Total 0	5	10	15	20	25	30	35	40	45	50	55	60

60



Pilot To Date

Currently 2 centers enrolled

- ➤ 64% Parent Consent to share information w/ SC Data warehouse to link to outcomes
- ➤ Parent completion rate of ASQ: 55-60% (1st yr)
- ➤ Positive Response for Child Care providers

Recent Developments

- > Brookes issuing revised licensing agreement
 - Expand use to 10 additional centers
 - Use ASQ 3 (recently released)
- ➤ Recruitment of New Programs to begin ASAP
- ➤ Piloting use of "Net-books"

