Child Care Subsidy and Early Education:

Helping Analyze Needed Data Securely

Presentation to the Governor's Early Childhood Advisory Council



May 31, 2012



What is it?

- A system for cross-agency linking of early childhood data for policy analysis an program evaluation
- A system that is:
 - Compliant with Federal and State Privacy Laws
 - Does not require new authorizing legislation
 - Does not require new "data center" establishment (low cost)
 - Easily expanded to include additional data partners
 - Uses compatible technologies with other state data initiatives (e.g. VA Longitudinal Data System)

Project Child HANDS Where did it come from?

U.S. Department of Health and Human Services, Administration for Children and Families, Office of Planning, Research and Evaluation (Cooperative Agreement HHS-90YE0106)

Tracking Care Assistance Program Data and Effects

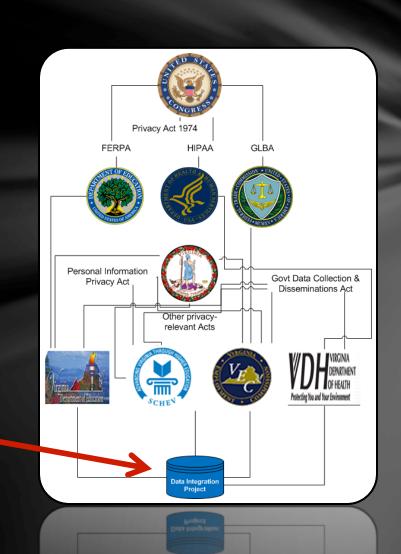
- Federal program administered through state Block grants
- Work support program with increasing emphasis also on children's development
- Eligibility based on work, training and income status
- Lose work, lose child care assistance
- Birth through age 12

Technical Approach Driven by Implementation Environment

Public Sector Statutory and Regulatory Heterogeneity

- Multiple levels of statutory law
- Multiple implementations of regulatory law at each level of statutory law
- Most conservative interpretation of regulatory law becomes de facto standard

Trying to get all of this into a single system is where multi-million dollar cost-overruns come from!



Choice of Solution Models Instead of Identified Consolidation, De-identified Federation

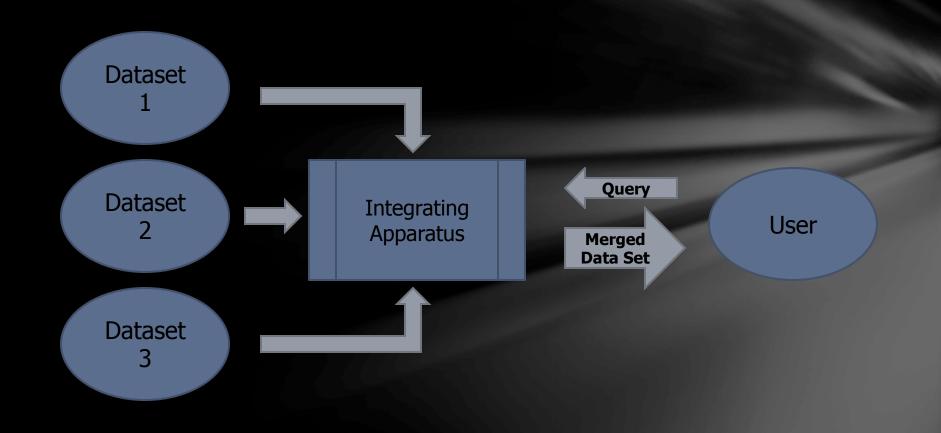
Consolidated Data Systems (Warehouse)

- Expensive (to both build and maintain)
- Too <u>difficult to "program"</u> the multiple levels of federal and state statutory and regulatory privacy requirements – must have <u>laws in place</u> to allow for centralized collection
- <u>Lack of clear data authority</u>, per data system, between state agencies and between state and local-level agencies – participation is not compulsory

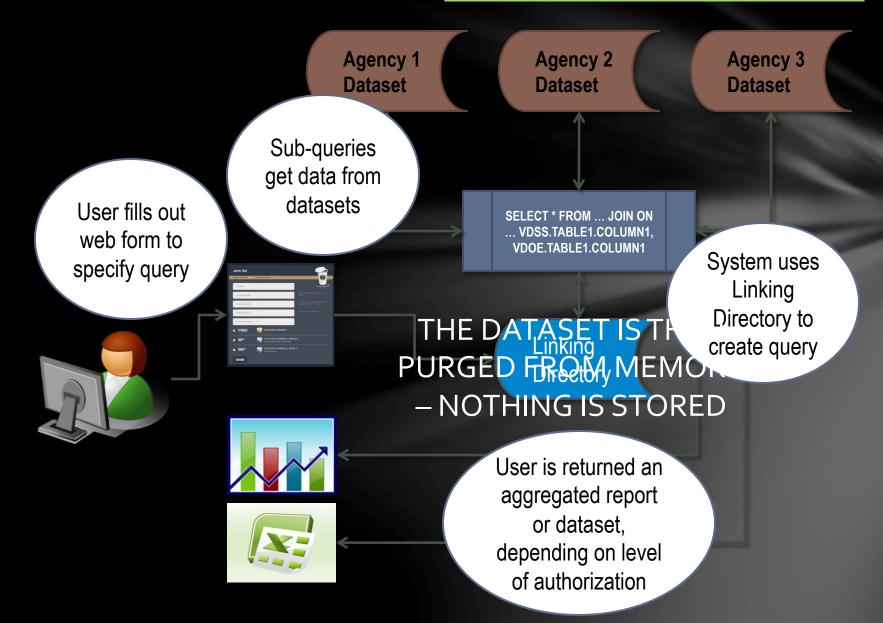
Federated Data Systems

- System that interacts with multiple data sources on the back-end and presents itself as a single data source on the front-end
- <u>Cheaper</u> (much less central technology an personnel needed)
- Data authority issues minimized federation allows for the maintenance of existing privacy protection rules and regulations
- Much less has to be programmed -- significantly reduced development time and cost

What is a Federated Data System?



HANDS Federated Process - Data Sets are not Retained



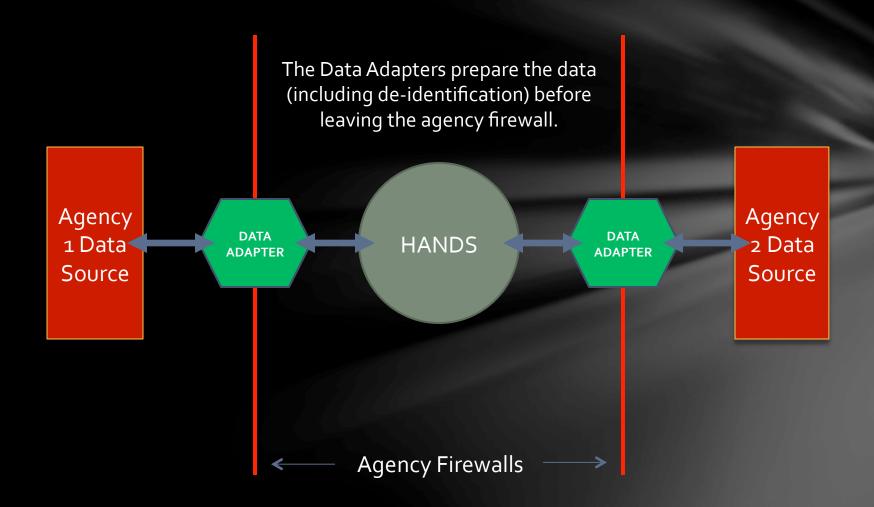
What does the system create?

A MultiAgency Data
Set of DeIdentified
Virtual Child
Records
Or Program
Records

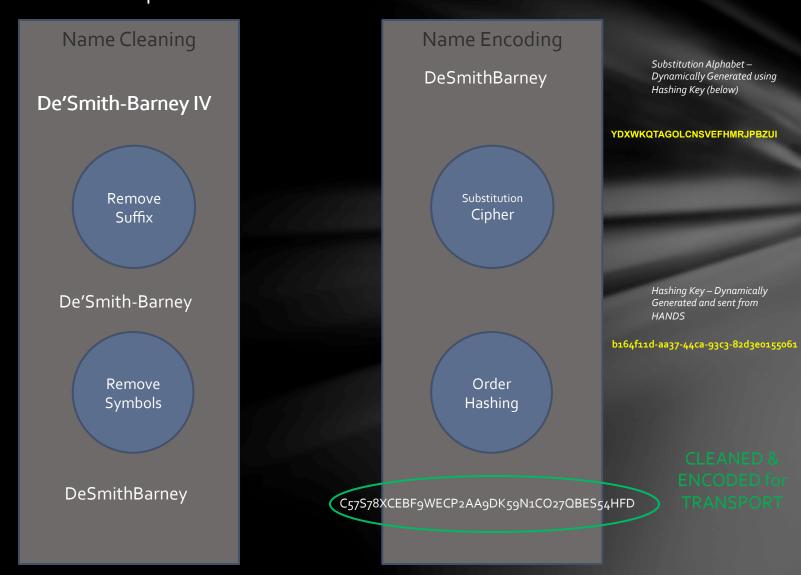
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ğ	GIFTED CODE			ECERS-R-ROOM ARRANGEMENT
ĕ	GIFTED REFERRAL FLAG			ECERS-R-SPACE FOR PRIVACY
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8	RETENTION FLAG			ECERS-R-GREETING/DEPARTING
	KINDER GARTEN READINESS ASSESSMENT FLAG			ECERS-R-MEALS/SNACKS
	SCHOOL CHOICE STATUS CODE			ECERS-R-NAP/REST
	SUPPLEMENTAL EDUCATION SERVICES CODE			ECERS-R-TO LETING/DIAPERING
	PK EXPERIENCE CODE			ECERS-R-HEALTH PRACTICES
	PK WEEKLY TIME CODE			ECERS-R-SAFETY PRACTICES
	RESIDENCE ZIP CODE			ECERS-R-BOOKS AND PICTURES
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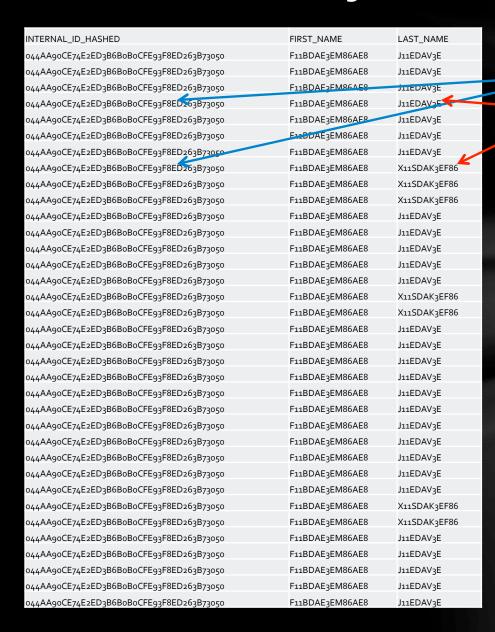
How Does De-Identification Work in the HANDS System?



Getting Data Ready for "De-Identified Federation" What the Data Adapter Does



Cleaned and Encoded Matching Data (Internal ID, First and Last Name)



INTERNAL_ID is the same

LAST_NAME is NOT

Many agencies DO NOT have an Index of unique individuals. There can be many representations of that individual.

What do we do?

Statistical Log
Analysis and
Reduction

We dynamically build a new "virtual" record made up of "most likely" demographics

Probabilistic Linkage Process (Creating a Linking Directory)

(After we have a unique person index for each agency dataset)

Blocking

m and u Parameter Calculation

Matching-Column Weight Calculations

Match Scoring

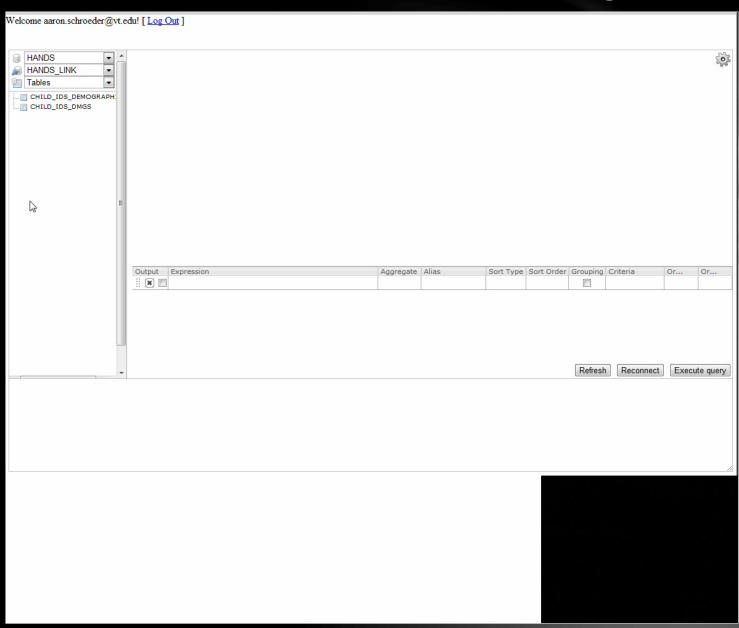
Linkage Determination and addition to Linking Directory

- Linkage Determination A Cutoff score needs to be set for each blocked comparison, below which a link is not accepted as a real "link"
- The best method of establishing this cutoff is for the system operator to work with a content-area expert to determine the peculiarities of data for that content-area
- In some data sets in may be very unlikely that a birthdate was entered incorrectly, while in another, it may happen very regularly – a computer can not automatically know this
- Once these cutoffs are set, they don't need to be changed unless something drastic occurs to change the nature of the dataset

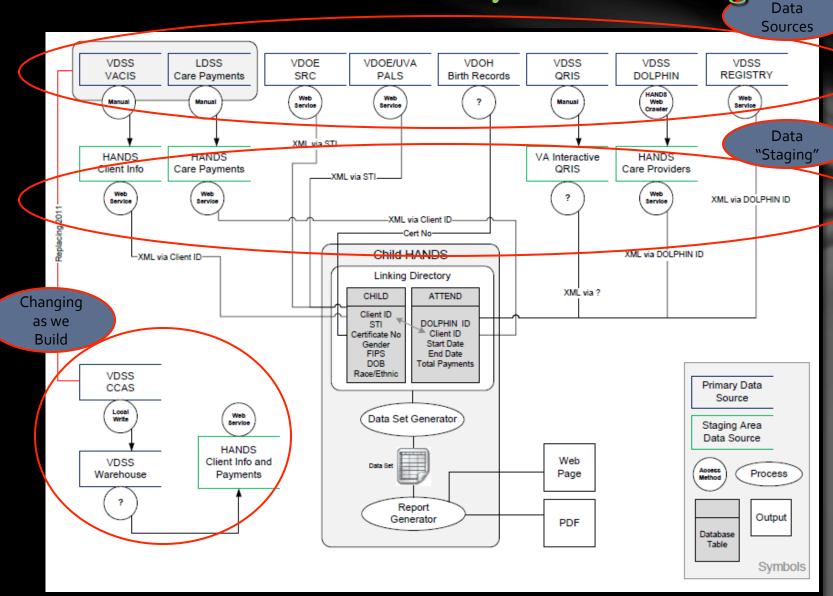
What do we get after creating the Linking Directory? HANDS Linking in Action!

Data being linked and pulled from multiple agency Data Adapters.

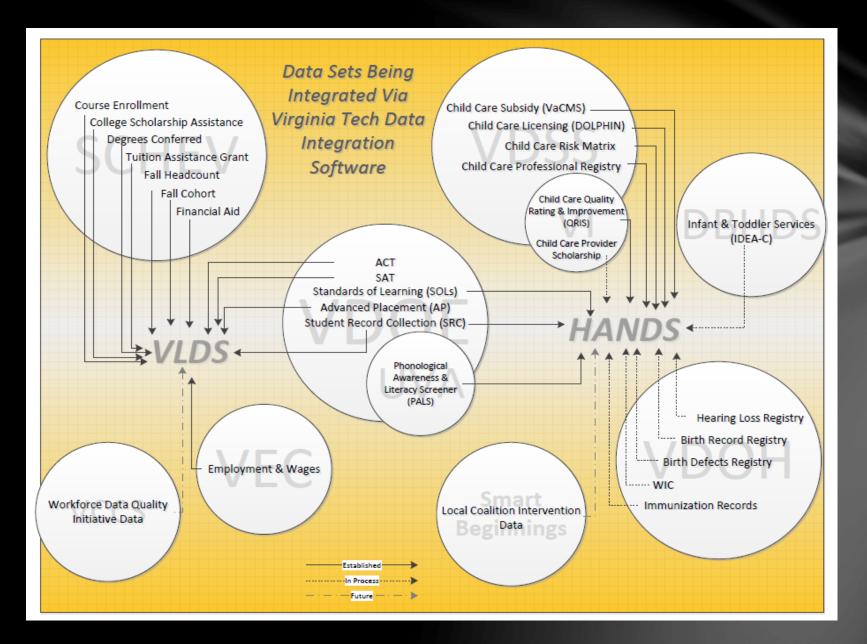
This used to take MUCH LONGER.



Child HANDS: Initial Data Systems for Integration



Child HANDS and the Virginia Longitudinal Data System



Project Child HANDS in Action Initial Research Study

Initial Questions To Drive Development

- 1. What type of care are parents choosing with subsidy dollars?
- 2. What is the quality of the child care?
- 3. How are their children doing in Kindergarten?

Initial Research Questions Data Sources

What type of care are parents choosing with subsidy dollars?

- Data: Subsidy records (VDSS, local)
 - VA Client Information System
 - Payments to child care providers

What is the quality of the child care?

- Data: Quality indicators (VDSS, VECF)
 - Licensing status, violations (DOLPHIN)
 - Program quality overall (VSQI)

Initial Research Questions Data Sources

How are their children doing in Kindergarten?

- Data from Student Record Collection (VDOE) and University of Virginia PALS Office
 - Attendance (SRC)
 - Retention (SRC)
 - Special services/IEP placement (SRC)
 - Phonological Literacy Awareness Screening (PALS; UVA)

Research Study: Five Localities (Wave I)

<u>Time period</u>: 2006 – 2010

<u>Sample</u>

- From *five* localities, subsidy children = 6009
- Youngest were infants (n = 1230); Oldest 16 by end of study period (n = 26)
- 1862 with birth date between '9/30/2001' and '9/30/2004'

Subsidy to Licensing Match

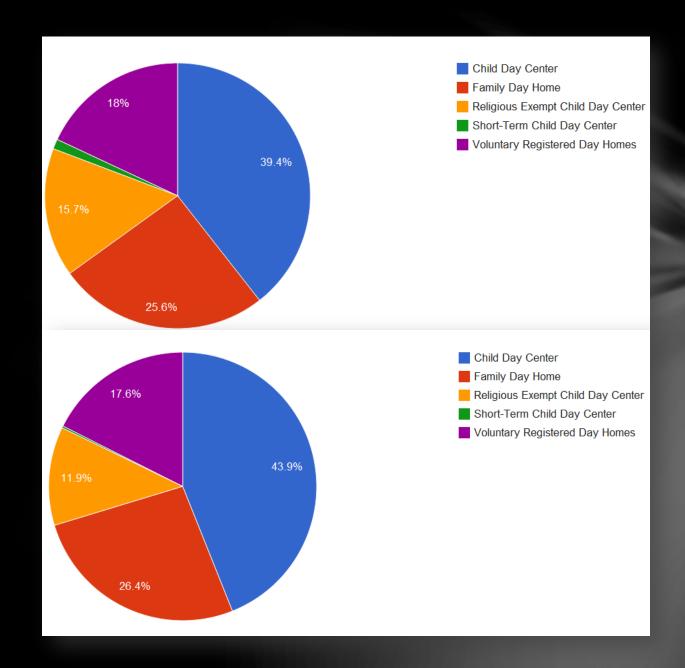
- 888 vendors received subsidy payments during study time period
- 452 matched to licensing data (51%)

This match accounts for 72 % of the total Wave I children receiving subsidy during that time

VA Licensed Programs

REPRESENTATIVE SAMPLE

Wave I Programs



Research Q 1: What type of care were parents choosing for their children with subsidy dollars?

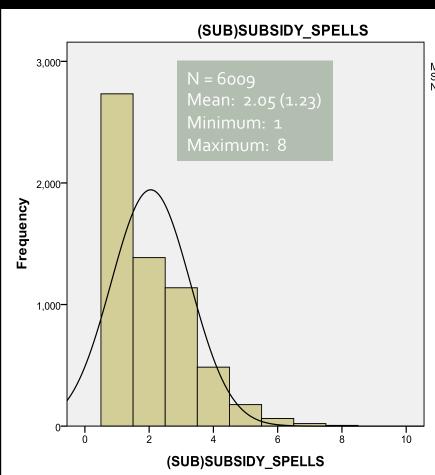
- Substantially more parents (72.5%) enrolled their children in licensed child care compared to FFN (27.5%)
- Equally child care centers (44 %) and family child care homes (44%), with 11% in religiously-exempt placements.

Subsidy Use Patterns

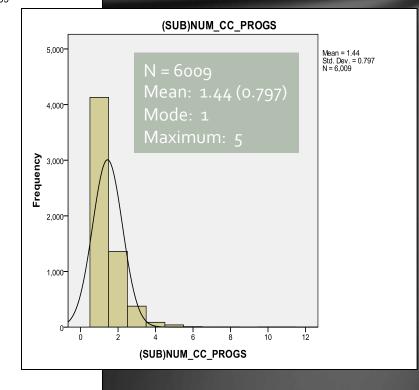
- The more subsidy spells, the more likely a child enrolled in multiple programs.
- Children with more subsidy spells were slightly more likely to have longer spells.
- The most common pattern: a single spell of about 9 months in the same program

Initial Research Study

Subsidy Use Patterns, 2007 - 2010



Mean = 2.05 Std. Dev. = 1.233 N = 6,009



Q2: What is the quality of care?

Quality Type	Quality Indicator	Data Source
Licensed or not	VA Child care license	VDSS DOLPHIN
License violations	Number and type of licensing violations	VDSS Risk Assessment Matrix
Center Environment	Classroom Observations	VSQI (VDSS and Virginia Interactive)
Staff Qualifications	Transcripts, professional Development records	Early Childhood Professional Registry (in development)

HANDS Wave 1 VSQI (2007-2010)



Initial Research Study

Subsidy to Kindergarten Match

- 8/1/2006 7/31/2010
- Kindergarten in academic years 2006-07, 2007-08, 2008-09, and 2009-10
- 1862 with birth date between '9/30/2001' and '9/30/2004'
- 1703 successfully matched to school records (91 %)

Initial Research Study

Research Q3: How did children who used subsidy fare in Kindergarten?

- Children who had longer continuous spells of subsidized care attended more days of public elementary school
- Children who had longer care spells scored higher on fall Kindergarten PALS screener
- Accounting for greater attendance, this group of children was more likely to meet fall Kindergarten PALS benchmarks.

Preliminary Conclusions

- Project Child HANDS matching algorithms are capturing a very high percentage of eligible matches; supports use of the system.
- Preliminary results examining child care subsidy patterns indicate longer continuous spells of care predicts better school readiness in domains we can measure.
- If findings are replicated and robust, policy implications may be to allow longer care spells, more independent of parental employment.

Examples of Other Policy or Evaluation Questions

- 1. What are the social service trajectories and school outcomes of children born with special health care needs? (Hearing loss, birth defects)
- 2. What impact does early intervention have on school outcomes?
- 3. What interventions or programs are most helpful to children and families involved in child protective services?

Bringing Service and Research Dollars into Virginia

With proper infrastructure support, Project Child HANDS, together with the SLDS, has the potential to bring active foundation and other funding into the Commonwealth.

Example: Project LAUNCH (SAMHSA RFP SM-12-009)

Cooperative Agreements for Linking Actions for Unmet
Needs in Children's Health

(Up to \$850,000 per year, 5 years, no match)

Example: Managing and Learning from Activities in Payment and Delivery System Reform (Robert Wood Johnson Foundation)