Building Bright Futures
Early Childhood Data Reporting System (ECDRS)

VT House Education Committee
April 8, 2014

ECDRS Vision

ECDRS will be an integrated online toolbox that equips Vermonters to leverage meaningful data for the well-being of children, families and communities.

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Imagine we're building townhouses. We started with the rough sketch of the townhouses and site map we showed BBF Council April 2012.

Since then, we have put the infrastructure for the project in place (show slide-permits here mean initial data acquisition agreements, and instead of sewer pipes we've laid out the site architecture.

That site map was informed by these key activities:

Concept Development (AHS Sponsored to BBF Sponsorship)

June 2010 – NGA Award and EC Data Stakeholder Meeting

June 2011 – NGA ECDRS Plan completed

October 2011 – ECDRS Plan incorporated in RTTT-ELC application E2

November 2011 – EC Data Stakeholder Meeting

January 2012 – BBF Data and Evaluation Committee Established

January 2012 - Roadmap Published

Imagine we're building townhouses. We started with the rough sketch of the townhouses and site map we showed BBF Council April 2012.

For **your** ECDRS Working Prototype model unit, we used the policy question "Is the quality of regulated child care and education programs improving?

Since then, we have put the infrastructure for the project in place – two essential components

1. Slide - permits translates to data sharing agreements (Kathleen's role)
2. Slide – pipes laid translates to the site architecture (Dave's role)

The foundations and framing are in place (show slide) and one model unit is open for viewing and furnished throughout (show slide.)

Foundations, Framing in Place &
One Unit Completed…
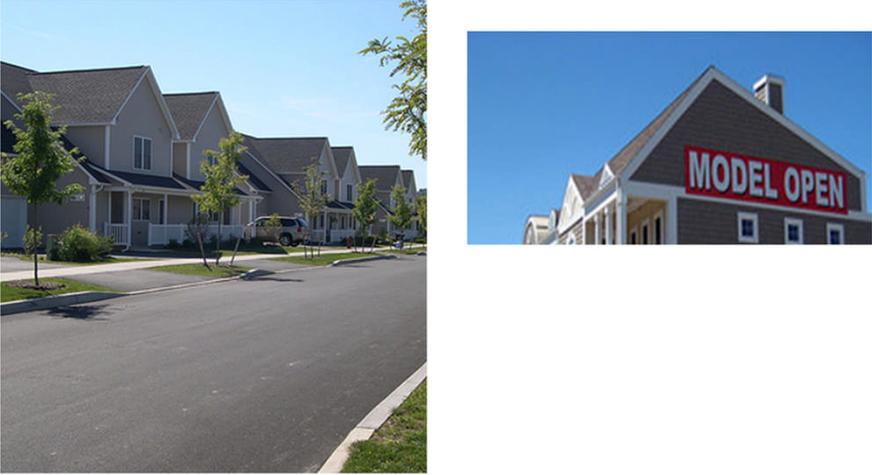
6

The foundations and framing are in place and one model unit is open for viewing and furnished throughout .

The foundations and framing are in place (show slide) and one model unit is open for viewing and completely furnished throughout (show slide.)

For **your** ECDRS Working Prototype model unit, we used the policy question "Is the quality of regulated child care and education programs improving?" and we furnished the model with visuals and supporting socio-demographic data.
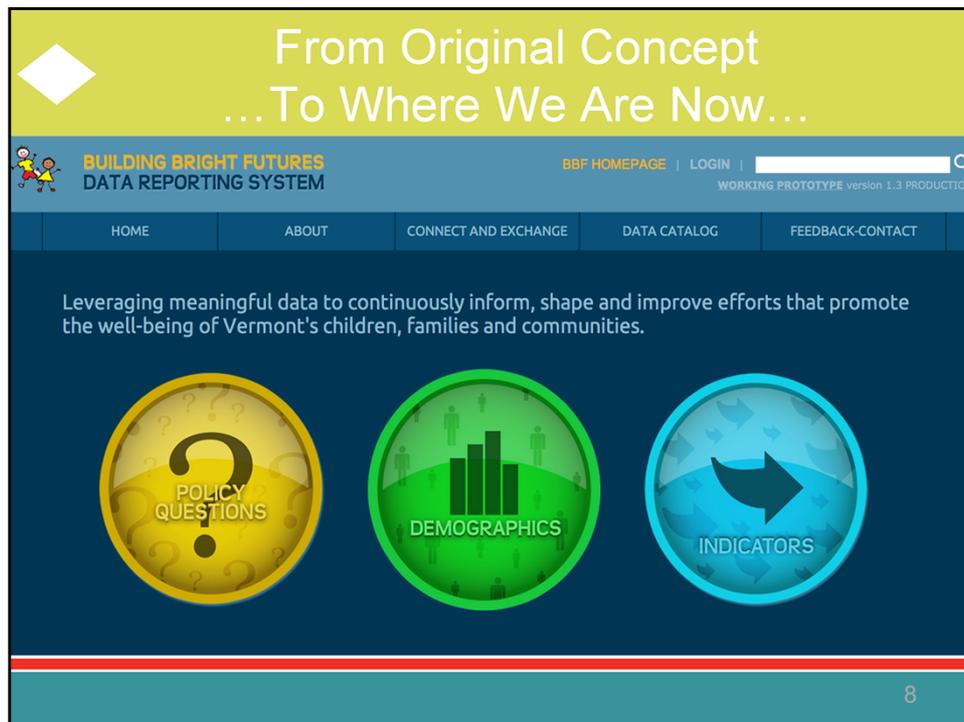
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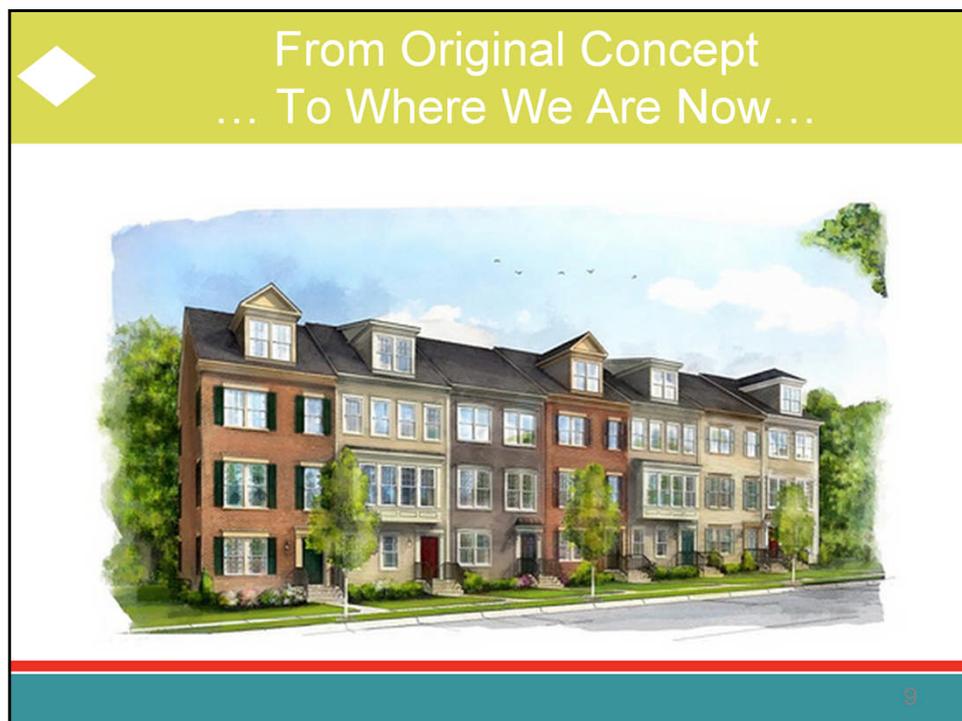
After showing the model to prospective users and securing financing, we are now ready to customize and complete the rest of the planned townhouses (show slide of fully built townhouses, which happen to be in Hinesburg BTW.)

Financing has been secured, ready to complete the rest of the townhouses.

Background Notes:

This ECDRS Working Prototype, (or functional model), was developed to demonstrate that an integrated online system with meaningful data acquired from multiple sources (national, state and local) can be harnessed (data pushed out to other systems and pulled in from other systems) using a variety of tools (e.g., visualizations, reports, and stories) by a diverse group of end users to advance the well-being of Vermont's children.

Key architectural and data features include:

• Open source technologies that can be easily modified and can nimbly acquire,

aggregate, analyze and report data from a wide range of sources.

- Easy assimilation of new data sets and capacity to link early childhood data with statewide longitudinal databases such as the K-12 public education system.

- Data that can be brought into ECDRS or pushed out to other data systems using efficient processes.

- A data library for end users that describes each data element and maps their relationships.

Show timeline slide.

Timeline and cost align with RTTT-ELC grant application; Governor's Summit, Framework and Action Plan and BBF How are VT's Young Children report to the legislature.

The ECDRS Working Prototype is available to all Vermonters to view and provide feedback. Let's take a quick tour…. Show next slide

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BBF - Early Childhood Data Reporting System Infrastructure

Available Data	Accessible Data	Secure Data	Quality Data	Auditable Data	Consistent Data

Standards   Policies & Processes   Organization   Technology
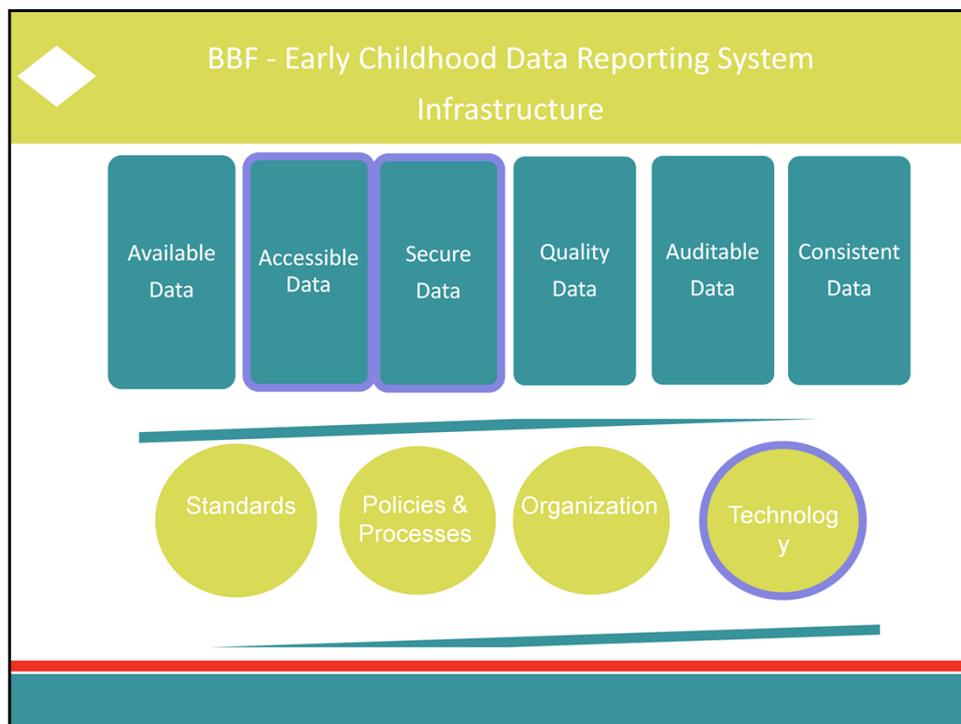
Often times there is an assumption that the majority of project costs that includes technology is spent on technology. We'd like to point out that the infrastructure that we named as permits and pipes (data sharing agreements and technical infrastructure) has more costs associated with the permits and related processes than the pipes.

This slide describes the key components of the infrastructure. The underpinnings of the infrastructure are: 1. standards, 2. policies and processes, 3. organization and 4. technology. We have outlined in purple, the technology and accessible and secure data components. The others are equally important and actually take more time, effort and money.

Note that consistent data includes data analysis and data use.

Data use ⬆ = ⬆ meaningful data and ⬆data literacy
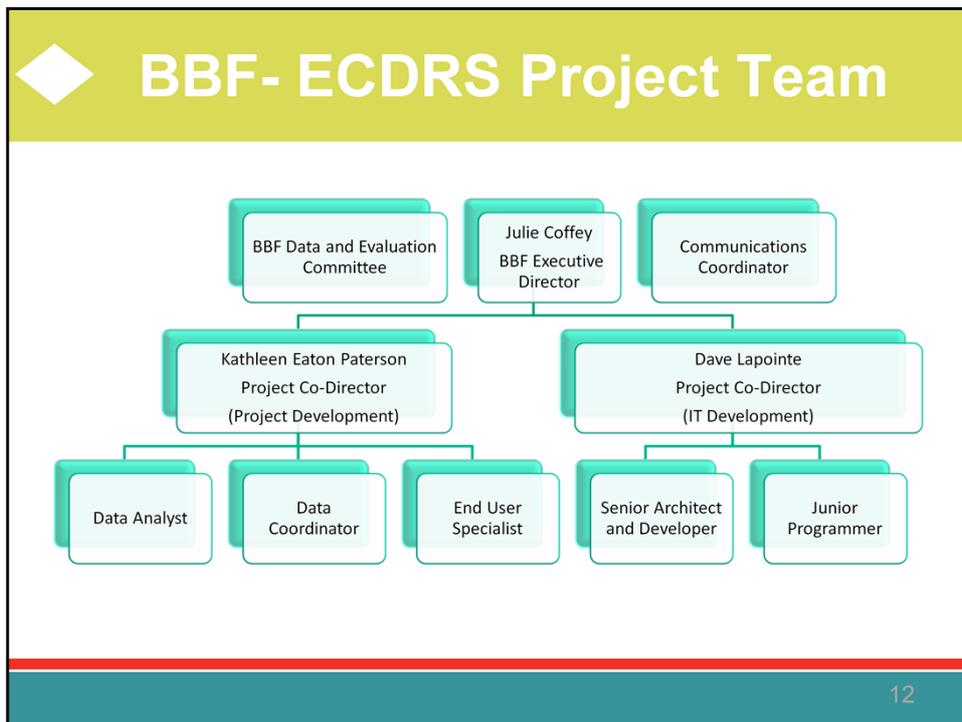
The BBF-ECDRS Project Team is funded by the Race to the Top – Early Learning Challenge Grant.
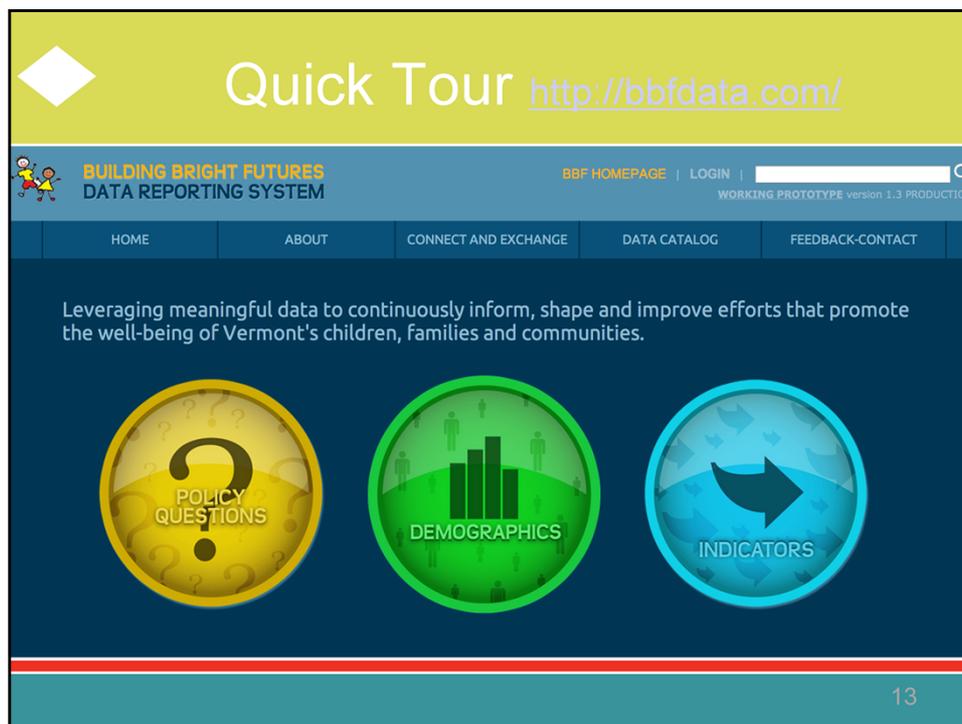
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Script of tour

1. From home page point out the three icons and select indicator side, FRL table, map and chart

1. First show table
   - Select Geography = Supervisory Union
   - Select School Year = 2012 (2011-2012)
   - Filter Data
   - Click on Rutland South SU (38.6 %)

2. Second show map
   - Select Map base layer: Pct. Free and reduced lunch by SU 2012
   - Show layer and point out the legend of percent range at the bottom

- Select Publicly Funded Pre-K Programs under locations (note this data is 2011-12 school year and the only data set we have at this time)
- Click on blue pin in Rutland South SU which will show Shrewsbury Mountain

1. Third show trend line graph
   - Select Rutland South SU

5. Go back to demographic icon and click
   - Select education, occupation, employment and income
   - Mention API with Census Bureau and ACS
   - Select share of population over 25 years with bachelors degree
   - Walk through table, graph and map highlighting Rutland County (17.28%) and Vermont (20.53%)
   - Mention reliability

6.Got to Data Catalogue tab
   - Mention that on the back end of the system is a data catalogue with data we have and what we want to answer key policy questions
   - In its early stages but with the RTT-ELC grant, a key deliverable is an inventory of meaningful data across sectors, age groups and communities
   - This is a visualization tool we are working on; each circle represents a policy question and each smaller circle represents a sub-policy questions
   - Select data element schools with free and reduced lunch and then click on visualize
   - Point to the white dotted line to the policy and sub policy question: Are children ages birth to six getting the nutritious food and opportunities for physical activity to be healthy during their school years? and Are children ages birth to six eligible for supplemental nutrition programs participating?
   - Note the 3 and 4 percent numbers inside these two circles. This represents the percent of data elements needed to answer the question that currently in ECDRS (the green dots.)

4. Mention Feedback-Contact

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Key architectural and data features include:

- Open source technologies that can be easily modified and can nimbly acquire, aggregate, analyze and report data from a wide range of sources.
- Easy assimilation of new data sets and capacity to link early childhood data with statewide longitudinal databases such as the K-12 public education system.
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- A data library for end users that describes each data element and maps their relationships.

Where We Are Now: Datasets

Now	Future Examples
All Regulated Care And Education Programs	Kindergartners Readiness Survey Dataset [in progress]
National Accreditation Awards For All Regulated Care And Education Programs	Composition And Qualifications Of Early Childhood Workforce [In Progress]
Identification Of Head Start Program Or Partner, Early Head Start Program Or Partner Regulated Care And Education Programs (SY 2012-2013)	Child, Family And Community Socio-Demographic Datasets From The American Community Survey [in progress]
Identification Of Publicly Funded Pre-k (Act 62) Regulated Care And Education Programs (SY 2011-2012)	Child Health Profile Dataset (Birth Outcomes, Immunization, Lead, Vision And Hearing And Developmental Screening And Referral Outcomes)
Students Eligible For Free And Reduced Price School Meals School Years (SY 2007/08-2011/12)	Promotion, Prevention and Early Intervention Datasets (Nutrition and Fitness, Child Abuse And Neglect, Economic Benefits, Children's Integrated Services, Special Education)
Child, Youth, Adult And Elderly Population Single Year Age Counts And Percentages In Vermont (Census 2010)	Enrollment, Attendance And Developmental Progress Dataset In Publicly Funded Care And Education Programs (Pre-k Act 62; Early Head Start And Head Start; Child Care Subsidy)
Ratio Of Income To Federal Poverty Level (FPL), By Vermont, County And Age Groups (5 Year ACS)	K-grade 3 Enrollment, Attendance And Developmental Progress Dataset

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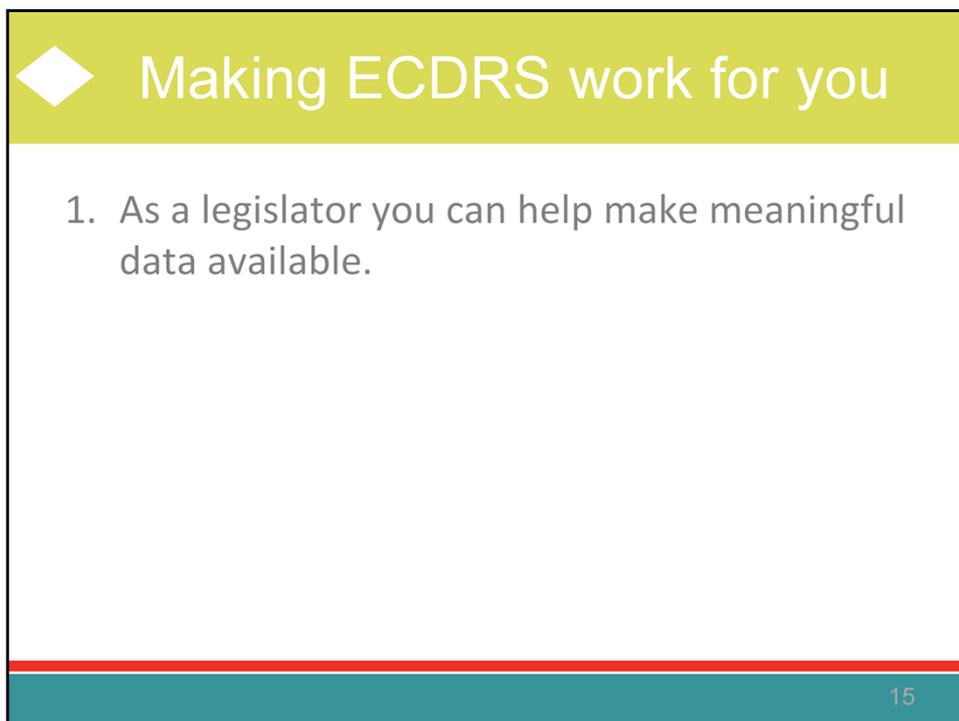
Making ECDRS work for you

1. As a legislator you can help make meaningful data available.

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